



**भारत सरकार  
विद्युत मंत्रालय**

**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**MONTHLY REPORT ON BROAD STATUS  
OF THERMAL POWER PROJECTS IN THE  
COUNTRY**

**मार्च - २०१९  
March - 2019**



**तापीय विद्युत परियोजना प्रबोधन प्रभाग  
केन्द्रीय विद्युत प्राधिकरण  
नई दिल्ली**

**THERMAL PROJECT MONITORING DIVISION  
CENTRAL ELECTRICITY AUTHORITY  
NEW DELHI**

## FOREWORD

As per clause 73(f) of Electricity Act 2003, Central Electricity Authority is to “promote and assist in the timely completion of schemes and projects”. The Thermal Project Monitoring (TPM) Divisions of CEA are entrusted with the responsibility of monitoring the progress of construction/erection activities of all the thermal power projects in the country till the units are commissioned. Visits are also made by CEA officers to the sites for assessing the on the spot progress of works and rendering the advice/assistance in solving the problems being faced by the project authorities, thereby helping the project authorities in avoiding/minimizing the time and cost overruns of the thermal power projects.

In this context, Thermal Project Monitoring Divisions, Central Electricity Authority have been bringing out monthly report entitled “Broad Status of Thermal Power Projects in the Country”. This report gives year-wise details of thermal power projects commissioned during 12<sup>th</sup> plan. Further, the Report includes up-to-date information on thermal power projects under construction in the country wherein the details regarding name of the Project, capacity, location, implementing agency, commissioning schedule, type of fuel, estimated cost, the milestones achieved as on date etc. are available. The critical issues requiring immediate attention of concerned authorities in the implementation of these thermal power projects have also been highlighted.

The Broad Status Report is being brought out regularly by TPM Divisions on the basis of the data forwarded by various project authorities, visits made by CEA officers to various power projects, discussions held with the executing agencies and suppliers of equipment from time to time.

CEA welcomes feedback for further improvement in the Broad Status Report.

**Place: New Delhi**  
**Dated: 08<sup>th</sup> May, 2019**

  
**(M. P. SINGH)**  
**Chief Engineer (TPM-II)**

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**This report is based on the details received from various project authorities & other organizations / agencies associated with the project and is for information and non-commercial use only. CEA is not responsible for the contents or reliability of other websites to which CEA provides a link and do not necessarily endorse the views expressed by them.**

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**1.0 12th Plan Capacity Addition:**

**1.A. Targeted Capacity Addition (MW) during 12th Plan**

| SECTOR       | THERMAL        | HYDRO        | NUCLEAR     | TOTAL          |
|--------------|----------------|--------------|-------------|----------------|
| CENTRAL      | 14877.6        | 6004         | 5300        | 26181.6        |
| STATE        | 13922          | 1608         |             | 15530          |
| PRIVATE      | 43540          | 3285         |             | 46825          |
| <b>TOTAL</b> | <b>72339.6</b> | <b>10897</b> | <b>5300</b> | <b>88536.6</b> |

**1.B. Year wise Sector wise Thermal capacity Addition Achievement against Revised Target during 12th Plan:**

( in MW)

| Year         | Thermal capacity addition during 12th Plan (MW) |                 |                |                 | Revised Target | % Achievement  |
|--------------|---|-----------------|----------------|-----------------|----------------|----------------|
|              | Central   | State           | Private        | Total           |                |                |
| 2012-13      | 5023.3  | 3911            | 11187.5        | 20121.8         | 15154.3        | 132.78%        |
| 2013-14      | 1660  | 3322            | 11785          | 16767           | 15234.3        | 110.06%        |
| 2014-15      | 2659.2  | 4886.1          | 13285          | 20830.3         | 14988.3        | 138.98%        |
| 2015-16      | 3295.6  | 6460            | 12705          | 22460.6         | 17346.1        | 129.49%        |
| 2016-17      | 3230.5  | 3622.25         | 4698           | 11550.75        | 13440.5        | 85.94%         |
| <b>Total</b> | <b>13463.6</b>                                  | <b>21151.35</b> | <b>53660.5</b> | <b>91730.45</b> | <b>76163.5</b> | <b>126.81%</b> |

**1. C. Sector-wise break up of under construction Thermal Power Projects are as follows:**

(As on 31<sup>st</sup> March, 2019)

| SECTOR       | CAPACITY (MW)   |
|--------------|-----------------|
| CENTRAL      | 20420.00        |
| STATE        | 20846.15        |
| PRIVATE      | 23775.00        |
| <b>TOTAL</b> | <b>65041.15</b> |

**1. D. Thermal Capacity Addition during 2018-19 (MW)**

(As on 31<sup>st</sup> March, 2019)

| Thermal capacity addition achieved during 2018-19 (MW)                        |                |                  |
|---|----------------|------------------|
| Sector  | Target (MW)    | Achievement (MW) |
|   |                | Total            |
| Central   | 2760           | 1300             |
| State   | 4506.15        | 2780             |
| Private   | Nil            | Nil              |
| <b>Total</b>  | <b>7266.15</b> | <b>4080</b>      |
| Thermal capacity addition achieved for Additional Projects during 2018-19(MW) |                |                  |
| Central   | -              | 660              |
| State   | -              | 69.755           |
| Private   | -              | 972              |
| <b>Total</b>  | <b>-</b>       | <b>1701.755</b>  |
| <b>Total Grand Thermal Capacity Addition</b>                                  | <b>7266.15</b> | <b>5781.755</b>  |

## 2.0 Thermal Capacity Addition Target/ Achievement for the Year 2012-13

| State                       | Project Name                     | Impl Agency                | Unit No  | LOA Date | BTG Supplier | Targeted Cap. (MW) | Actual Cap. comm. (MW) | Comm. Date                         |              | COD        |
|-----------------------------|----------------------------------|----------------------------|----------|----------|--------------|--------------------|------------------------|------------------------------------|--------------|------------|
|                             |                                  |                            |          |          |              |                    |                        | Envisaged at the beginning of year | Ant. /Act(A) |            |
| <b>CENTRAL SECTOR</b>       |                                  |                            |          |          |              |                    |                        |                                    |              |            |
| Chhattisgarh                | Sipat -I                         | NTPC                       | U-3      | Apr-04   | Others       | 660                | 660                    | 06/12                              | 02.06.12(A)  | 01.08.2012 |
| Haryana                     | Indira Gandhi TPP                | APCPL                      | U-3      | Jul-07   | BHEL         | 500                | 500                    | 12/12                              | 07.11.12(A)  | 26.04.2013 |
| Jharkhand                   | Kodarma TPP                      | DVC                        | U-2      | Jun-07   | BHEL         | 500                | 500                    | 12/12                              | 15.02.13(A)  | 14.06.2014 |
| Maharashtra                 | Mouda TPP                        | NTPC                       | U-1      | Nov-08   | BHEL         | 500                | 500                    | 07/12                              | 19.04.12(A)  | 13.03.2013 |
| Maharashtra                 | Mouda TPP                        | NTPC                       | U-2      | Nov-08   | BHEL         |                    | 500                    |                                    | 29.03.13(A)  | March 14   |
| MP                          | Vindhyachal TPP-IV               | NTPC                       | U-11     | Jan-09   | BHEL         | 500                | 500                    | 07/12                              | 14.06.12(A)  | 01.03.2013 |
| MP                          | Vindhyachal TPP-IV               | NTPC                       | U-12     | Jan-09   | BHEL         |                    | 500                    |                                    | 22.03.13(A)  | March 14   |
| TN                          | Vallur TPP Ph-I                  | NTECL                      | U-2      | Aug-07   | BHEL         | 500                | 500                    | 02/13                              | 28.02.13(A)  | 25.08.2013 |
| Tripura                     | Tripura Gas                      | ONGC                       | Module-1 | Jun-08   | BHEL         | 363.3              | 363.3                  | 11/12                              | 03.01.13 (A) | 04.01.2014 |
| UP                          | Rihand TPP-III                   | NTPC                       | U-5      | Feb-09   | BHEL         | 500                | 500                    | 06/12                              | 25.05.12(A)  | 19.11.2012 |
| <b>Total Central Sector</b> |                                  |                            |          |          |              | <b>4023.3</b>      | <b>5023.3</b>          |                                    |              |            |
| <b>STATE SECTOR</b>         |                                  |                            |          |          |              |                    |                        |                                    |              |            |
| Chhattisgarh                | Korba West Extn.St.III TPP       | CSEB                       | U-5      |          | BEHL         |                    | 500                    |                                    | 22.03.13(A)  | 05.09.2013 |
| Chhattisgarh                | Marwa TPP                        | CSEB                       | U-1      | Apr-08   | BHEL         | 500                |                        | 02/13                              | Slipped      |            |
| Delhi                       | Pragati CCGT - III               | PPCL                       | GT-3     | May-08   | BHEL         | 250                | 250                    | 08/12                              | 27.06.12(A)  | 28.10.2013 |
| Gujarat                     | Pipavav CCGP                     | GSECL                      | Block-2  | Dec-07   | BHEL         | 351                | 351                    | 01/13                              | 27.03.13(A)  | 27.03.2013 |
|                             | Ukai TPP Extn                    | GSECL                      | U-6      | Sep-07   | BHEL         | 490                | 490                    | 12/12                              | 05.03.13(A)  | 08.06.2013 |
| Rajasthan                   | Ramgarh CCGT                     | RRVUNL                     | GT       | Aug-09   | BHEL         | 110                | 110                    | 01/13                              | 20.03.13(A)  | 06.12.2013 |
|                             | Ramgarh CCGT                     | RRVUNL                     | ST-1     |          | BHEL         | 50                 |                        | 02/13                              | Slipped      |            |
| MP                          | Satpura TPP Extn.                | MPPGCL                     | U-10     | Mar-08   | BHEL         | 250                | 250                    | 02/13                              | 22.03.13(A)  | 18.08.2013 |
| TN                          | Mettur TPP Ext                   | TNEB                       | U-1      | Aug-08   | Chinese      | 600                | 600                    | 06/12                              | 11.10.12(A)  | 12.10.2013 |
|                             | North Chennai Extn.              | TNEB                       | U-2      | Aug-08   | BHEL         | 600                | 600                    | 03/13                              | 09.03.13(A)  | 08.05.2014 |
| UP                          | Harduaganj Ext                   | UPRVUNL                    | U-9      | Jun-06   | BHEL         | 250                | 250                    | 05/12                              | 25.05.12(A)  | 10.10.2013 |
|                             | Parichha Extn                    | UPRVUNL                    | U-5      | Jun-06   | BHEL         | 250                | 250                    | 06/12                              | 24.05.12(A)  | 17.07.2012 |
|                             | Parichha Extn                    | UPRVUNL                    | U-6      |          |              | 250                | 250                    | 09/12                              | 11.03.13(A)  | 18.04.2013 |
| <b>Total -State Sector</b>  |                                  |                            |          |          |              | <b>3951</b>        | <b>3911</b>            |                                    |              |            |
| <b>PRIVATE SECTOR</b>       |                                  |                            |          |          |              |                    |                        |                                    |              |            |
| AP                          | Simhapuri TPP Ph-1               | Madhucon Projects Ltd.     | U-2      | Jan-09   | Chinese      | 150                | 150                    | 09/12                              | 02.07.12(A)  | 15.07.2012 |
|                             | Thamminapatnam TPP-I             | Meenakshi Energy Pvt. Ltd. | U-1      | Aug-09   | Chinese      | 150                | 150                    | 08/12                              | 09.09.12(A)  | 07.10.2012 |
|                             | Thamminapatnam TPP-I             | Meenakshi Energy Pvt. Ltd. | U-2      |          |              | 150                |                        | 11/12                              | Slipped      |            |
| Chhattisgarh                | Kasaipalli TPP                   | M/s ACB (India)            | U-2      | Nov-08   | Chinese      | 135                | 135                    | 06/12                              | 21.06.12(A)  | 21.06.2012 |
|                             | Salora TPP                       | M/s Vandna Vidyut          | U-1      | Nov-08   | Chinese      | 135                |                        | 12/12                              | Slipped      |            |
|                             | Swastik Korba TPS                | ACB                        | U-1      |          | Others       | 25                 |                        | 06/12                              | Slipped      |            |
|                             | Ratiya TPP                       | SCPL                       | U-1      |          | Chinese      |                    | 50                     |                                    | 04.02.13(A)  | 27.02.2013 |
| Gujarat                     | Mundra Ultra Mega TPP            | Tata Power Co.             | U-2      | May-07   | Others       | 800                | 800                    | 12/12                              | 25.07.12(A)  | 28.07.2012 |
|                             | Mundra Ultra Mega TPP            | Tata Power Co.             | U-3      | May-07   | Others       |                    | 800                    |                                    | 16.10.12(A)  | 27.10.2012 |
|                             | Mundra Ultra Mega TPP            | Tata Power Co.             | U-4      | May-07   | Others       |                    | 800                    |                                    | 16.01.13(A)  | 21.01.2013 |
|                             | Mundra Ultra Mega TPP            | Tata Power Co.             | U-5      | Jun-07   | Others       |                    | 800                    |                                    | 18.03.13(A)  | 22.03.2013 |
|                             | UNO-SUGEN CCGP                   | Torrent Power Ltd.         | Mod-1    |          | Others       |                    | 382.5                  |                                    | 20.01.13(A)  | 04.04.2013 |
|                             | Salaya TPP                       | ESSAR                      | U-2      | Nov-07   | Chinese      | 600                | 600                    | 08/12                              | 13.06.12(A)  | 15.06.2012 |
| Haryana                     | Jhajjar TPP (Mahatma Gandhi TPP) | CLP Power India Pvt. Ltd.  | U-2      | Jan-09   | Chinese      | 660                | 660                    | 04/12                              | 11.04.12(A)  | 19.07.2012 |
| Jharkhand                   | Adhunik Power TPP                | Adhunik Power Co. Ltd.     | U-1      | May-09   | BHEL         | 270                | 270                    | 09/12                              | 19.11.12(A)  | 21.01.2013 |
|                             | Adhunik Power TPP                | Adhunik Power Co. Ltd.     | U-2      | May-09   | BHEL         |                    | 270                    |                                    | 29.03.13(A)  | 19.05.2013 |

| State                             | Project Name                              | Impl Agency                   | Unit No | LOA Date | BTG Supplier | Targeted Cap. (MW) | Actual Cap. comm. (MW) | Comm. Date                         |              | COD        |
|-----------------------------------|---|-------------------------------|---------|----------|--------------|--------------------|------------------------|------------------------------------|--------------|------------|
|                                   |   |                               |         |          |              |                    |                        | Envisaged at the beginning of year | Ant. /Act(A) |            |
|                                   | Corporate Power Ltd Ph-I (Maitrishi Usha) | M/s Corporate Power Ltd.      | U-1     | Dec-09   | BHEL         | 270                |                        | 12/12                              | Slipped      |            |
| Maharashtra                       | Bela TTP-I                                | IEPL                          | U-1     | Dec-08   | BHEL         | 270                | 270                    | 09/12                              | 20.03.13(A)  | 18.07.2013 |
|                                   | Butibori TPP                              | Vidarbha Industries Power Ltd | U-2     | Dec-09   | Chinese      | 300                | 300                    | 08/12                              | 17.08.12 (A) | 04.04.2013 |
|                                   | EMCO Warora TPP                           | EMCO Energy Ltd. (GMR)        | U-1     | Sep-09   | Chinese      | 300                | 300                    | 11/12                              | 07.02.13(A)  | 19.03.2013 |
|                                   | Tirora TPP Ph-I                           | Adani Power Ltd               | U-1     | Feb-08   | Chinese      | 660                | 660                    | 08/12                              | 11.09.12(A)  | 23.09.2012 |
|                                   | Tirora TPP Ph-I                           | Adani Power Ltd               | U-2     |          |              | 660                | 660                    | 11/12                              | 25.03.13(A)  | 30.03.2013 |
|                                   | Tirora TPP Ph-II                          | Adani Power Ltd               | U-1     |          |              | 660                |                        | 02/13                              | Slipped      |            |
|                                   | GEPL TPP                                  | GEPL Pvt. Ltd.                | U-2     | Mar-09   | Chinese      |                    | 60                     |                                    | 28.04.12(A)  |            |
|                                   | GEPL TPP                                  | GEPL Pvt. Ltd.                | U-1     |          | Chinese      |                    | 60                     |                                    | 08.09.12(A)  | 09.05.2012 |
|                                   | Amaravathi TPP Ph-I                       | Indiabulls                    | U-1     |          | BHEL         |                    | 270                    |                                    | 25.03.13(A)  | 03.06.2013 |
| MP                                | Bina TPP                                  | Bina Power Ltd.               | U-1     | Sep-08   | BHEL         | 250                | 250                    | 09/12                              | 12.08.12(A)  | 30.08.2012 |
|                                   | Bina TPP                                  | Bina Power Ltd.               | U-2     | Sep-08   | BHEL         |                    | 250                    |                                    | 31.03.13(A)  | 07.04.2013 |
|                                   | Mahan                                     | Essar Power Ltd.              | U-1     |          | Chinese      |                    | 600                    |                                    | 24.02.13(A)  | 29.04.2013 |
| Orissa                            | Sterlite TPP                              | Sterlite Energy Ltd.          | U-4     | Sep-08   | Chinese      | 600                | 600                    | 06/12                              | 25.04.12(A)  | 26.04.2012 |
|                                   | Kamalanga TPP                             |                               | U-1     |          | Chinese      |                    | 350                    |                                    | 29.03.13(A)  | 25.03.2014 |
| Rajasthan                         | Jallipa- Kapurdi TPP                      | Raj west power Ltd (JSW)      | U-5     | Mar-07   | Chinese      | 135                | 135                    | 03/13                              | 05.02.13(A)  | 05.02.2013 |
|                                   |   |                               | U-6     | Apr-07   | Chinese      |                    | 135                    |                                    | 03.03.13(A)  | 03.03.2013 |
|                                   |   |                               | U-7     | Jun-07   | Chinese      |                    | 135                    |                                    | 16.03.13(A)  | 16.03.2013 |
|                                   |   |                               | U-8     | May-07   | Chinese      |                    | 135                    |                                    | 28.02.13(A)  | 28.02.2013 |
| TN                                | Tuticorin TPP                             | Ind Barath                    | U-1     |          | Chinese      |                    | 150                    |                                    | 10.03.13(A)  | 07.02.2013 |
| <b>Total -Private Sector</b>      |   |                               |         |          |              | <b>7180</b>        | <b>11187.5</b>         |                                    |              |            |
| <b>Total for the year 2012-13</b> |   |                               |         |          |              | <b>15154.3</b>     | <b>20121.8</b>         |                                    |              |            |



## 2.1 Thermal Capacity Addition Target/ Achievement for the Year 2013-14

| State                       | Project Name                         | Impl Agency                       | Unit No | LOA Date    | BTG Supplier   | Targeted Cap. (MW) | Actual Cap. comm. (MW) | Actual Comm. Date | At the beginning of the year | COD           |
|-----------------------------|--------------------------------------|-----------------------------------|---------|-------------|--|--------------------|------------------------|-------------------|------------------------------|---------------|
| <b>CENTRAL SECTOR</b>       |                                      |                                   |         |             |  |                    |                        |                   |                              |               |
| Bihar                       | Barh STPP St-II                      | NTPC                              | 4       | 03/08&10/08 | BHEL   | 660                | 660                    | 30/11/13          | 12/13                        | 15.11.2014    |
| TN                          | Vallur TPP Ph-I                      | NTPC/ NTECL/ TNEB-JV              | 3       | 07/09       | BHEL   | 500                | 500                    | 28.02.2014        | 03/14                        | 26.02.2015    |
| TN                          | Tuticorin TPP                        | NLC/ TNEB-JV                      | 1       | 01/09       | BHEL   | 500                |                        | Slipped           | 03/14                        |               |
| Tripura                     | Tripura CCGT                         | ONGC JV                           | Blk-2   | 06/08       | BHEL   | 363.3              |                        | Slipped           | 09/13                        |               |
| UP                          | Rihand STPP St-III                   | NTPC                              | 6       | 02/09       | BHEL   | 500                | 500                    | 7/10/2013         | 12/13                        | March 2014    |
| WB                          | Raghunathpur TPP                     | DVC                               | 1       | 12/07       | CHINA  | 600                |                        | Slipped           | 03/14                        |               |
| <b>Total Central Sector</b> |                                      |                                   |         |             |  | <b>3123.3</b>      | <b>1660</b>            |                   |                              |               |
| <b>STATE SECTOR</b>         |                                      |                                   |         |             |  |                    |                        |                   |                              |               |
| Chhattisgarh                | Marwa TPP                            | CSEB                              | 1       | 04/08       | BHEL   | 500                | 500                    | 30.03.2014        | 09/13                        |               |
| Delhi                       | Pragati St-III CCGT                  | PPCL                              | GT-4    | 05/08       | BHEL   | 250                | 250                    | 7/5/2013          | 06/13                        | 27.02.2014    |
| Delhi                       | Pragati St-III CCGT                  | PPCL                              | ST-2    | 05/08       | BHEL   | 250                | 250                    | 26.02.2014        | 09/13                        | 27.03.2014    |
| Gujarat                     | Pipavav JV CCGT                      | GSECL                             | Block-1 | 12/07       | BHEL   | 351                | 351                    | 05/02/2013        | 09/13                        |               |
| MP                          | Shree Singaji TPP(Malwa TPP)         | MPPGCL                            | 1       | 12/08       | BHEL   | 600                | 600                    | 18/11/2013        | 06/13                        | February 2014 |
| MP                          | Satpura TPS Extn.                    | MPPGCL                            | 11      | 03/08       | BHEL   | 250                | 250                    | 25/12/2013        | 10/13                        | 16.03.2014    |
| Maha-rashtra                | Chandrapur TPS Extn.                 | MAHAGENCO                         | 8       | 07/08       | BHEL   | 500                |                        | Slipped           | 12/13                        |               |
| Rajasthan                   | Kalisindh TPP                        | RRVUNL                            | 1       | 07/08       | SEPCO, CHINA   | 600                |                        | Slipped           | 12/13                        |               |
| Rajasthan                   | Chhabra TPS Extn.                    | RRVUNL                            | 3       | 08/08       | BHEL   | 250                | 250                    | 14/09/13          | 06/13                        | 19.12.2013    |
| Rajasthan                   | Chhabra TPS Extn.                    | RRVUNL                            | 4       | 08/08       | BHEL   | 250                |                        | Slipped           | 01/14                        |               |
| Rajasthan                   | Ramgarh CCPP                         | RRVUNL                            | ST      | 08/09       | BHEL   | 50                 |                        | Slipped           | 12/13                        |               |
| TN                          | North Chennai TPS Extn.              | TNEB                              | 1       | 08/08       | BHEL   | 600                | 600                    | 13/09/13          | 09/13                        | 20.03.2014    |
| <b>Total -State Sector</b>  |                                      |                                   |         |             |  | <b>4451</b>        | <b>3051</b>            |                   |                              |               |
| <b>PRIVATE SECTOR</b>       |                                      |                                   |         |             |  |                    |                        |                   |                              |               |
| AP                          | Vizag TPP                            | Hinduja                           | 1       | 03/10       | BHEL   | 520                |                        |                   | 03/14                        |               |
| AP                          | Thammina-patnam TPP                  | Meena-kshi Energy                 | 2       | 08/09       | Chinese  | 150                | 150                    | 17/04/13          | 09/13                        | 30.04.2013    |
| Chhattis-garh               | Tamnar TPP                           | Jindal Power                      | 1       | 12/08       | BHEL   | 600                | 600                    | 10.03.2014        | 03/14                        | 14.03.2014    |
| Chhattis-garh               | Vandana Vidyut TPP                   | Vandana Vidyut TPP                | 1       | 05/08       | BOILER: CETHAR<br>VESSELS LTD<br>TG: CNAIC,<br>CHINA | 135                |                        | Slipped           | 06/13                        |               |
| Chhattis-garh               | DB Power TPP                         | DB Power Ltd                      | 1       | 05/10       | BHEL   | 600                | 600                    | 23.02.2014        | 12/13                        | 03.11.2014    |
| Chhattis-garh               | Swastik Korba TPP                    | ACB                               | 1       | 02/10       | BOILER: IJT;<br>TURBINE:<br>SIEMENS                  | 25                 |                        | Slipped           | 12/13                        |               |
| Chhattis-garh               | Akaltara TPP                         | KSK Mahanadi                      | 1       | 04/09       | SEC, CHINA   | 600                | 600                    | 13/08/13          | 09/13                        | 14.08.2013    |
| MP                          | Sasan UMPP                           | Reliance Power                    | 3       | 06/08       | SEC, CHINA   | 660                | 660                    | 30/5/13           | 05/13                        |               |
| MP                          | Sasan UMPP                           | Reliance Power                    | 2       | 06/08       | SEC, CHINA   | 660                | 660                    | 18/12/13          | 09/13                        |               |
| Maha-rashtra                | Nasik TPP Ph-I                       | India Bulls                       | 1       | 11/09       | BHEL   | 270                | 270                    | 25.02.2014        | 09/13                        | 29.03.2014    |
| Maha-rashtra                | Dhariwal Infrastructure (P) Ltd. TPP | Dhariwal Infra-structure (P) Ltd. | 1       | 04/10       | SEC, CHINA   | 300                | 300                    | 3/11/2013         | 06/13                        | 13.02.2014    |
| Maha-rashtra                | Dhariwal Infrastructure (P) Ltd. TPP | Dhariwal Infra-structure (P) Ltd. | 2       | 04/10       | SEC, CHINA   | 300                |                        | Slipped           | 12/13                        |               |
| Maha-rashtra                | EMCO Warora TPP                      | GMR EMCO Energy Ltd.              | 2       | 09/09       | SEC, CHINA   | 300                | 300                    | 27/08/2013        | 06/13                        | 01.09.2013    |
| Maha-rashtra                | Tirora TPP Ph-II                     | Adani Power                       | 1       | 02/08       | SCMEC, CHINA   | 660                | 660                    | 10/6/2013         | 06/13                        | 14.06.2013    |

| State   | Project Name        | Impl Agency                                 | Unit No | LOA Date | BTG Supplier    | Targeted Cap. (MW) | Actual Cap. comm. (MW) | Actual Comm. Date | At the beginning of the year | COD        |
|---|---------------------|---|---------|----------|-----------------|--------------------|------------------------|-------------------|------------------------------|------------|
| Orissa  | Derang TPP          | Jindal India Thermal Power                  | 1       | 07/09    | BHEL            | 600                |                        | Slipped           | 12/13                        |            |
| Orissa  | Kamalang TPP        | GMR Energy                                  | 2       | 08/08    | SEPCO III, CHNA | 350                | 350                    | 28/09/13          | 09/13                        | 12.11.2013 |
| Punjab  | Goindwal Sahib TPP  | GVK Industries                              | 1       | 02/09    | BHEL            | 270                |                        | Slipped           | 06/13                        |            |
| Punjab  | Talwandi Sahib TPP  | Sterlite                                    | 1       | 07/09    | SEPCO I, CHINA  | 660                |                        | Slipped           | 01/14                        |            |
| <b>Total -Private Sector</b>                        |                     |   |         |          |                 | <b>7660</b>        | <b>5150</b>            |                   |                              |            |
| <b>Total for during the year 2013-14</b>            |                     |   |         |          |                 | <b>15234.3</b>     | <b>9861</b>            |                   |                              |            |
| <b>Additional Capacity Commissioned</b>             |                     |   |         |          |                 |                    |                        |                   |                              |            |
| Tripura   | Rokhia GT           | Tripura State Electricity Corporation Ltd.) | 9       |          | BHEL            |                    | 21                     | 31/08/2013        |                              |            |
| Rajasthan   | Kawai TPP           | Adani Power Rajasthan Ltd.                  | 1       | 04/10    | Chinese         |                    | 660                    | 28/05/2013        |                              | 31.05.2013 |
| Rajasthan   | Kawai TPP           | Adani Power Rajasthan Ltd.                  | 2       | 04/10    | Chinese         |                    | 660                    | 24/12/2013        |                              | 31.05.2014 |
| MP  | Niwari TPP          | BLA Power Pvt.Ltd                           | 1       |          | Chinese         |                    | 45                     | 10/12/2013        |                              |            |
| TN  | Tuticorin Indbarath | Indbarath Ltd                               | 2       |          | Chinese         |                    | 150                    | 30/12/2013        |                              | 15.03.2014 |
| Punjab  | Rajpura TPP         | Nabha Power                                 | 1       | Jul-10   | L&T             |                    | 700                    | 24/01/2014        |                              | 01.02.2014 |
| Gujarat   | Dgen CCPP           | Torrent Power                               | Block-1 | Jul-10   | Siemens Germany |                    | 400                    | 12/01/2014        |                              |            |
| Maharashtra   | Amaravati TPP Ph-I  | India bulls Power Ltd                       | 2       | Nov-09   | BHEL            |                    | 270                    | 17.02.2014        |                              | 28.03.2014 |
| AP  | Simhapuri TPS Ph-II | Simhapuri Energy Pvt Ltd                    | 3       | Mar-10   | Chinese         |                    | 150                    | 21.02.2014        |                              | 26.02.2014 |
| Gujarat   | Dgen CCPP           | Torrent Power                               | Block-3 | Jul-10   | Siemens Germany |                    | 400                    | 09/03/2014        |                              |            |
| Orissa  | Kamalang TPP        | GMR Energy                                  | 3       | 08/08    | SEPCO III, CHNA |                    | 350                    | 21/03/14          |                              | 25.03.2014 |
| Maha-rashtra  | Tirora TPP Ph-II    | Adani Power                                 | 2       | 02/08    | SCMEC, CHINA    |                    | 660                    | 23/3/2014         |                              | 31.03.2014 |
| MP  | Sasan UMPP          | Reliance Power                              | 4       | 06/08    | SEC, CHINA      |                    | 660                    | 25/03/14          |                              | 12.04.2014 |
| Chhattis-garh                                       | Tamnar TPP          | Jindal Power                                | 2       | 12/08    | BHEL            |                    | 600                    | 30.03.2014        |                              | 31.03.2014 |
| Chhattis-garh                                       | Chakabura TPP       | ACBIL                                       | 1       |          | Chinese         |                    | 30                     | 28.03.2014        |                              | 30.03.2014 |
| West Bengal   | Durgapur TPS Extn   | DPL   | 8       |          | BHEL            |                    | 250                    | 31.03.2014        |                              |            |
| Chhattis-garh                                       | Avantha Bhandar TPP | KWPCCL                                      | 1       |          | BHEL            |                    | 600                    | 31.03.2014        |                              | 01.04.2014 |
| Maharashtra   | Butibori TPP        | Vidarbha Industries Power Ltd               | 1       |          | Chinese         |                    | 300                    | 31.03.2014        |                              | 28.03.2014 |
| <b>Total Additional Thermal Capacity in 2013-14</b> |                     |   |         |          |                 |                    | <b>6906</b>            |                   |                              |            |
| <b>TOTAL THERMAL CAPACITY ADDITION in 2013-14</b>   |                     |   |         |          |                 |                    | <b>16767</b>           |                   |                              |            |

## 2.2 Thermal Capacity Addition Target/ Achievement for the Year 2014-15

| State                       | Project Name              | Impl Agency                            | Equip. Supplier               | Fuel | Unit No | LOA date                 | Targeted Cap. (MW) | Actual Cap .comm. (MW) | Actual Comm. Date | At the beginning of the year | COD        |
|-----------------------------|---------------------------|--|-------------------------------|------|---------|--------------------------|--------------------|------------------------|-------------------|------------------------------|------------|
| <b>CENTRAL SECTOR</b>       |                           |  |                               |      |         |                          |                    |                        |                   |                              |            |
| Bihar                       | Barh STPP-II              | NTPC                                   | BHEL                          | Coal | U-5     | SG:03/2008<br>TG:10/2008 | 660                | 660                    | 04.03.2015        | Feb-15                       | 18.02.2016 |
|                             | Muzaffarpur TPS Exp       | KBUNL (JV of NTPC & BSEB)              | BHEL                          | Coal | U-3     | 03/2010                  | 195                | 195                    | 31.03.2015        | Mar-15                       | 18.03.2017 |
| TN                          | Tuticorin TPP             | NTPL (JV of NLC & TANGEDCO)            | BHEL                          | Coal | U-1     | 28.01.09                 | 500                | 500                    | 10.03.2015        | Oct-14                       | 18.06.2015 |
|                             |                           |  | BHEL                          | Coal | U-2     |                          | 500                |                        | Feb-15            |                              |            |
| Tripura                     | Palatana CCPP             | OTPC (JV of ILFS, ONGC & Tripura Govt) | BHEL                          | Gas  | BLK-2   | 23.06.08                 | 363.3              | 363.3                  | 16.11.2014        | Aug-14                       |            |
| WB                          | Raghunathpur TPP, Ph-I    | DVC                                    | Chinese                       | Coal | U-1     | 14.12.2007               | 600                | 600                    | 24.08.2014        | Aug-14                       | 31.03.2016 |
| <b>Total Central Sector</b> |                           |  |                               |      |         |                          | <b>2818.3</b>      | <b>2318.3</b>          |                   |                              |            |
| <b>STATE SECTOR</b>         |                           |  |                               |      |         |                          |                    |                        |                   |                              |            |
| AP                          | Damodaram Sanjeevaiah TPP | APPDCL                                 | Blr- BHEL<br>TG- L&T          | Coal | U-1     | SG:08/2008<br>TG:09/2008 | 800                | 800                    | 28.08.2014        | Jun-14                       | 05.02.2015 |
|                             |                           |  |                               |      | U-2     |                          | 800                | 800                    | 17.03.2015        | Jan-15                       | 24.08.2015 |
| Chhattisgarh                | Marwa TPP                 | CSPGCL                                 | BHEL                          | Coal | U-2     | 11.04.08                 | 500                |                        | Slipped           | Dec-14                       |            |
| Maharashtra                 | Chandrapur TPS            | MSPGCL                                 | BHEL                          | Coal | U-8     | 25.07.08                 | 500                | 500                    | 29.03.2015        | Oct-14                       | 04.06.2016 |
|                             | Koradi TPS Expn.          | MSPGCL                                 | L&T                           | Coal | U-8     | 23.09.09                 | 660                | 660                    | 30.03.2015        | Oct-14                       | 16.12.2015 |
|                             | Koradi TPS Expn.          | MSPGCL                                 | L&T                           | Coal | U-9     |                          | 660                |                        | Slipped           | Jan-15                       |            |
|                             | Parli TPS Expn.           | MSPGCL                                 | BHEL                          | Coal | U-8     | 21.01.09                 | 250                |                        | Slipped           | Nov-14                       |            |
| MP                          | Malwa TPP (Shree Singaji) | MPPGCL                                 | BHEL                          | Coal | U-2     | 12.12.08                 | 600                | 600                    | 15.10.2014        | Sep-14                       | 01.01.2015 |
| Rajasthan                   | Kalisindh TPP             | RRVUNL                                 | Chinese                       | Coal | U-1     | 09.07.08                 | 600                | 600                    | 02.05.2014        | Jun-14                       | 01.06.2014 |
|                             | Kalisindh TPP             |  | Chinese                       | Coal | U-2     |                          | 600                |                        | Slipped           | Jan-15                       |            |
|                             | Ramgarh CCPP              |  | BHEL                          | Gas  | ST      |                          | 50                 | 50                     | 01.05.2014        | Jul-14                       |            |
|                             | Chhabra TPP               |  | BHEL                          | Coal | U-4     | 20.08.08                 | 250                | 250                    | 30.06.2014        | Jun-14                       | 30.12.2014 |
| UP                          | Anpara-D TPS              | UPRVUNL                                | BHEL                          | Coal | U-6     | 27.10.07                 | 500                |                        | Slipped           | Mar-15                       |            |
| <b>Total State Sector</b>   |                           |  |                               |      |         |                          | <b>6770</b>        | <b>4260</b>            |                   |                              |            |
| <b>PRIVATE SECTOR</b>       |                           |  |                               |      |         |                          |                    |                        |                   |                              |            |
| AP                          | Painampuram TPP           | Thermal Power Tech Corp.Ltd            | Chinese                       | Coal | U-1     | 09/2010                  | 660                | 660                    | 07.02.2015        | Dec-14                       | 02.03.2015 |
|                             | Vizag TPP                 | Hinduja National Power Corp.Ltd        | BHEL                          | Coal | U-1     | 03/2010                  | 520                |                        | Slipped           | Oct-14                       |            |
| Chhattisgarh                | Swastic Korba TPP         | ACB India Ltd.                         | Blr:ISGEC India<br>TG:Siemens | Coal | U-1     | 29.03.10                 | 25                 | 25                     | 31.03.2015        | Nov-14                       |            |
|                             | Salora TPP                | Vandana Viduyt Ltd                     | Chinese                       | Coal | U-1     | 11/2008                  | 135                | 135                    | 10.04.2014        | Sep-14                       | 01.05.2014 |
|                             | Bandakhar TPP             | Maruti Clean coal                      | Chinese                       | Coal | U-1     |                          | 300                |                        | Slipped           | Jan-15                       |            |
| Maharashtra                 | Amravati TPP Ph-I         | India Bulls Power Ltd                  | BHEL                          | Coal | U-3     | 30.11.09                 | 270                | 270                    | 29.01.2015        | Oct-14                       | 03.02.2015 |
| Maharashtra                 | Nasik TPP Ph-I            | India Bulls Realtech                   | BHEL                          | Coal | U-2     | 24.11.09                 | 270                |                        | Slipped           | Jul-14                       |            |
| Maharashtra                 | Dhariwal TPP              | Dhariwal Infrastructure Ltd            | Chinese                       | Coal | U-2     | 28.04.10                 | 300                | 300                    | 28.05.2014        | Jun-14                       | 02.08.2014 |
| Orissa                      | Derang TPP                | JPL                                    | BHEL                          | Coal | U-1     | 26.07.09                 | 600                | 600                    | 10.05.2014        | Jun-14                       | 06.06.2014 |
| Punjab                      | Rajpura TPP (Nabha)       | Nabha Power Ltd                        | L&T                           | Coal | U-2     | 16.07.10                 | 700                | 700                    | 06.07.2014        | Jul-14                       | 01.08.2014 |
| Punjab                      | Talwandi Sabo TPP         | M/s Sterlite                           | Chinese                       | Coal | U-1     | 18.07.09                 | 660                | 660                    | 17.06.2014        | May-14                       | 01.08.2014 |
| Punjab                      | Talwandi Sabo TPP         | M/s Sterlite                           | Chinese                       | Coal | U-2     | 18.07.09                 | 660                |                        | Slipped           | Sep-14                       |            |
| WB                          | Haldia TPP                | M/s Haldia Energy Ltd.                 | Chinese                       | Coal | U-1     | 14.09.11                 | 300                | 300                    | 14.01.2015        | Dec-14                       | 28.01.2015 |
| <b>Total Private Sector</b> |                           |  |                               |      |         |                          | <b>5400</b>        | <b>3650</b>            |                   |                              |            |
| <b>Total during 2014-15</b> |                           |  |                               |      |         |                          | <b>14988.3</b>     | <b>10228.3</b>         |                   |                              |            |

| <b>Additional Capacity Commissioned during 2014-15</b> |                             |                                 |                 |      |                   |            |  |                        |                   |                              |            |
|--|-----------------------------|---------------------------------|-----------------|------|-------------------|------------|--|------------------------|-------------------|------------------------------|------------|
| State  | Project Name                | Impl Agency                     | Equip. Supplier | Fuel | Unit No           | LOA date   |  | Actual Cap .comm. (MW) | Actual Comm. Date | At the beginning of the year | COD        |
| <b>Central Sector</b>                                  |                             |                                 |                 |      |                   |            |  |                        |                   |                              |            |
| TN   | Neyveli TPS Ph-II Exp       | NLC                             | BHEL            | Coal | U-2               |            |  | 250                    | 24.01.2015        |                              | 22.04.2015 |
| Tripura  | Monarchak gas power project | NEEPCO                          | BHEL            | Gas  | GT                |            |  | 65.4                   | 30.03.2015        |                              |            |
| Tripura  | Agartala CAPP               | NEEPCO                          | Thermax         | Gas  | ST-2              |            |  | 25.5                   | 22.03.2015        |                              |            |
| <b>Total Central Sector (Addition in 2014-15)</b>      |                             |                                 |                 |      |                   |            |  | <b>340.9</b>           |                   |                              |            |
| <b>State Sector</b>                                    |                             |                                 |                 |      |                   |            |  |                        |                   |                              |            |
| Gujarat  | Dhuvaran CAPP               | GSECL                           | Siemens Germany | Gas  | Unit 1            |            |  | 376.1                  | 21.05.2014        |                              |            |
| <b>Total State Sector (Addition in 2014-15)</b>        |                             |                                 |                 |      |                   |            |  | <b>376.1</b>           |                   |                              |            |
| <b>Private Sector</b>                                  |                             |                                 |                 |      |                   |            |  |                        |                   |                              |            |
| Gujarat  | D gen CAPP                  | Torrent Power                   | Siemens Germany | Gas  | Block-II          | 02.07.2010 |  | 400                    | 23.04.2014        |                              |            |
| MP   | Sasan UMPP                  | SPL                             | Chinese         | Coal | 4th Unit (Unit-1) |            |  | 660                    | 21.05.2014        |                              | 27.05.2014 |
| MP   | Sasan UMPP                  | SPL                             | Chinese         | Coal | Unit-5            |            |  | 660                    | 24.08.2014        |                              | 26.12.2014 |
| Chhattisgarh   | Akaltara TPP                | KSK                             | Chinese         | Coal | Unit-2            |            |  | 600                    | 22.08.2014        |                              | 26.08.2014 |
| MP   | Nigrie TPP                  | JPVL                            | L&T             | Coal | Unit-1            |            |  | 660                    | 29.08.2014        |                              | 03.09.2014 |
| Maharashtra  | Tirora TPP Ph-II            | Adani Power Maharashtra Pvt Ltd | Chinese         | Coal | Unit-3            | 05.11.2009 |  | 660                    | 25.09.2014        |                              | 11.10.2014 |
| TN   | Mutiara TPP                 | Coastal Energen                 | Chinese         | Coal | Unit-1            | 25.02.2009 |  | 600                    | 02.12.2014        |                              | 23.12.2014 |
| Chhattisgarh   | Tamnar TPP (Raigarh)        | Jindal Power                    | BHEL            | Coal | Unit-3            |            |  | 600                    | 07.01.2015        |                              | 15.01.2015 |
| Orissa   | Derang TPP                  | JIPL                            | BHEL            | Coal | U-2               |            |  | 600                    | 24.01.2015        |                              | 12.02.2015 |
| WB   | Haldia TPP                  | M/s Haldia Energy Ltd.          | Chinese         | Coal | U-2               |            |  | 300                    | 16.02.2015        |                              | 21.02.2015 |
| MP   | Nigrie TPP                  | JP Ventures Ltd                 | Non-BHEL        | Coal | U-2               |            |  | 660                    | 17.02.2015        |                              | 21.02.2015 |
| Chhattisgarh   | Raikhera TPP                | GMR                             | Chinese         | Coal | U-1               |            |  | 685                    | 27.02.2015        |                              | 01.06.2015 |
| Maharashtra  | Amravati TPP Ph-I           | India Bulls Power Ltd           | BHEL            | Coal | U-4               | 30.11.09   |  | 270                    | 04.03.2015        |                              | 08.03.2015 |
| AP   | Simhapuri                   | Simhapuri Energy Pvt Ltd        | Chinese         | Coal | U-4               |            |  | 150                    | 07.03.2015        |                              | 31.03.2015 |
| Maharashtra  | Amravati TPP Ph-I           | India Bulls Power Ltd           | BHEL            | Coal | U-5               | 30.11.09   |  | 270                    | 12.03.2015        |                              | 13.03.2015 |
| MP   | Sasan UMPP                  | SPL                             | Chinese         | Coal | Unit-6            |            |  | 660                    | 19.03.2015        |                              | 27.03.2015 |
| Chhattisgarh   | DB Power TPP                | DB Power Ltd                    | BHEL            | Coal | Unit-2            |            |  | 600                    | 24.03.2015        |                              |            |
| Chhattisgarh   | Tamnar TPP (Raigarh)        | Jindal Power                    | BHEL            | Coal | Unit-4            |            |  | 600                    | 26.03.2015        |                              |            |
| Gujarat  | Sikka TPP Extn              | GSECL                           | BHEL            | Coal | U-3               |            |  | 250                    | 28.03.2015        |                              | 14.09.2015 |
| <b>Total Private Sector (Addition in 2014-15)</b>      |                             |                                 |                 |      |                   |            |  | <b>9885</b>            |                   |                              |            |
| <b>Additional Capacity Commissioned during 2014-15</b> |                             |                                 |                 |      |                   |            |  | <b>10602</b>           |                   |                              |            |
| <b>TOTAL THERMAL CAPACITY ADDITION in 2014-15</b>      |                             |                                 |                 |      |                   |            |  | <b>20830.3</b>         |                   |                              |            |

### 2.3 Thermal Capacity Addition Target/ Achievement for the Year 2015-16

| State                        | Project Name                        | Impl Agency                          | Unit No  | BTG Supplier      | Cap. (MW)     | Anti. Comm.<br>(beginning of<br>the year) | Now Anti.<br>Comm. | Cap. Add<br>(MW) | Actual Date<br>of Comm. | COD        |
|------------------------------|-------------------------------------|--------------------------------------|----------|-------------------|---------------|---|--------------------|------------------|-------------------------|------------|
| <b><i>CENTRAL SECTOR</i></b> |                                     |                                      |          |                   |               |   |                    |                  |                         |            |
| Assam                        | Bongaigaon TPP                      | NTPC                                 | U-1      | BHEL              | 250           | 06/2015                                   |                    | 250              | 22.06.15(A)             | 01.04.2016 |
| Bihar                        | Muzafferpur                         | NTPC                                 | U-4      | BHEL              | 195           | 02/2016                                   | 03/2016            |                  |                         |            |
| Bihar                        | Nabi Nagar TPP                      | NTPC                                 | U-1      | BHEL              |               |   |                    | 250              | 20.03.16(A)             | 15.01.2017 |
| Jharkhand                    | Bokaro TPS "A" Exp.                 | DVC                                  | U-1      | BHEL              |               |   |                    | 500              | 22.03.16(A)             | 23.02.2017 |
| Maharashtra                  | Mouda STPP-II                       | NTPC                                 | U-3      | BHEL              |               |   |                    | 660              | 28.03.16(A)             | 01.02.2017 |
| MP                           | Vindhychal TPP-V                    | NTPC                                 | U-13     | BHEL              | 500           | 12/2015                                   |                    | 500              | 06.08.15(A)             | 30.10.2015 |
| Tripura                      | Agratala STG                        | NEEPCO                               | ST-2     | Thermax           | 25.5          | 05/2015                                   | 01/2016            |                  |                         |            |
| Tripura                      | Monarchak CCPP                      | NEEPCO                               | ST       | BHEL              | 35.6          | 08/2015                                   |                    | 35.6             | 14.01.16(A)             |            |
| TN                           | Tuticorin TPP                       | NLC                                  | U-2      | BHEL              | 500           | 07/2015                                   |                    | 500              | 09.07.15(A)             | 29.08.2015 |
| WB                           | Raghunathpur TPP,Ph-I               | DVC                                  | U-2      | Chinese           | 600           | 01/2016                                   |                    | 600              | 18.01.16(A)             | 31.03.2016 |
| <b>Total Central Sector</b>  |                                     |                                      |          |                   | <b>2106.1</b> |   |                    | <b>3295.6</b>    |                         |            |
| <b><i>STATE SECTOR</i></b>   |                                     |                                      |          |                   |               |   |                    |                  |                         |            |
| Chhattisgarh                 | Marwa TPP                           | CSPGCL                               | U-2      | BHEL              | 500           | 09/2015                                   | 02/2016            |                  |                         |            |
| Gujarat                      | Sikka TPS                           | GSECL                                | U-4      | BHEL              | 250           | 12/2015                                   |                    | 250              | 25.09.15(A)             | 28.12.2015 |
| Karnataka                    | Bellary TPS St-III                  | KPCL                                 | U-3      | BHEL              | 700           | 12/2015                                   | 01/2016            | 700              | 01.03.16(A)             | 16.09.2017 |
| Karnataka                    | Yermarus TPP                        | KPCL                                 | U-1      | BHEL              | 800           | 01/2016                                   | 02/2016            | 800              | 29.03.16(A)             | 07.03.2017 |
| Maharashtra                  | Chandrapur TPS                      | MSPGCL                               | U-9      | BHEL              | 500           | 10/2015                                   | 02/2016            | 500              | 21.03.16(A)             | 24.11.2016 |
| Maharashtra                  | Koradi TPS Expn.                    | MSPGCL                               | U-9      | L&T               | 660           | 09/2015                                   | 02/2016            | 660              | 15.03.16(A)             | 22.11.2016 |
| Maharashtra                  | Koradi TPS Expn.                    | MSPGCL                               | U-10     | L&T               | 660           | 02/2016                                   | 05/2016            |                  |                         |            |
| Maharashtra                  | Parli TPS                           | MSPGCL                               | U-8      | BHEL              | 250           | 01/2016                                   | 03/2016            | 250              | 30.03.16(A)             | 30.11.2016 |
| Rajasthan                    | Kalisindh TPP                       | RVUNL                                | U-2      | Chinese           | 600           | 05/2015                                   |                    | 600              | 06.06.15(A)             | 25.07.2015 |
| Telangana                    | Singareni TPP                       | Singareni Collieries Co Ltd          | U-1      | BHEL              | 600           | 01/2016                                   | 03/2016            | 600              | 13.03.16(A)             | 25.09.2016 |
| Telangana                    | Kakatiya TPS Extn.                  | T GENCO                              | U-1      | BHEL              | 600           | 12/2015                                   | 12/2015            | 600              | 31.12.15(A)             | 24.03.2016 |
| UP                           | Anpara-D TPS                        | UPRVUNL                              | U- 6     | BHEL              | 500           | 06/2015                                   |                    | 500              | 06.06.15(A)             | 08.05.2016 |
| UP                           | Anpara-D TPS                        | UPRVUNL                              | U- 7     | BHEL              | 500           | 12/2015                                   | 02/2016            | 500              | 06.03.16(A)             | 18.10.2016 |
| WB                           | Sagardighi TPS-Extn                 | West Bengal                          | U-3      | BHEL              | 500           | 09/2015                                   | 12/2015            | 500              | 14.12.15(A)             |            |
| WB                           | Sagardighi TPS-Extn                 | West Bengal                          | U-4      | BHEL              | 500           | 01/2016                                   | 06/2016            |                  |                         |            |
| <b>Total State Sector</b>    |                                     |                                      |          |                   | <b>8120</b>   |   |                    | <b>6460</b>      |                         |            |
| <b><i>PRIVATE SECTOR</i></b> |                                     |                                      |          |                   |               |   |                    |                  |                         |            |
| AP                           | Painampuram TPP                     | Thermal Power Tech Corporation Ltd   | U-2      | Chinese           | 660           | 08/2015                                   |                    | 660              | 03.09.15(A)             | 15.09.2015 |
| AP                           | Vizag TPP                           | Hinduja National Power Corp. Ltd     | U-1      | BHEL              | 520           | 10/2015                                   | 02/2015            | 520              | 27.12.15(A)             | 11.01.2016 |
| AP                           | Lanco Kondapalli Extn. Ph-III ( PS) | Lanco Kondapalli Power Co.Ltd        | Block-I  | Others            |               |   |                    | 371              | 07.08.15(A)             |            |
| AP                           | Lanco Kondapalli Extn. Ph-III (PS)  | Lanco Kondapalli Power Co.Ltd        | Block-II | Others            |               |   |                    | 371              | 05.09.15(A)             |            |
| AP                           | Vemagiri CCPP-II (PS)               | GMR Rajahmundry Energy Ltd.          | Block-I  | Others            |               |   |                    | 384              | 12.09.15(A)             |            |
| AP                           | Vemagiri CCPP-II (PS)               | GMR Rajahmundry Energy Ltd.          | Block-II | Others            |               |   |                    | 384              | 05.10.15(A)             |            |
| AP                           | Vizag TPP                           | Hinduja National Power Corp. Ltd     | U-2      | BHEL              |               |   |                    | 520              | 30.03.16(A)             | 03.07.2016 |
| Chhattisgarh                 | Bandakhar TPP                       | M/s Maruti Clean (Chhattisgarh) Ltd. | U-1      | Chinese           | 300           | 06/2015                                   |                    | 300              | 19.06.15(A)             |            |
| Chhattisgarh                 | Uchpinda TPP                        | RKM Powergen Pvt. Ltd                | U-1      | Chinese           | 360           | 06/2015                                   |                    | 360              | 28.10.15(A)             | 27.11.2015 |
| Chhattisgarh                 | Uchpinda TPP                        | RKM Powergen Pvt. Ltd                | U-2      | Chinese           |               |   |                    | 360              | 28.01.16(A)             | 12.02.2016 |
| Chhattisgarh                 | BALCO TPP                           | BALCO Pvt Ltd                        | U-1      | Chinese           | 300           | 06/2015                                   |                    | 300              | 05.06.15(A)             | 11.07.2015 |
| Chhattisgarh                 | BALCO TPP                           | BALCO Pvt Ltd                        | U-2      | Chinese           | 300           | 09/2015                                   | 02/2016            | 300              | 24.03.16(A)             | 30.03.2016 |
| Chhattisgarh                 | Raikheda TPP                        | GMR                                  | U-2      | Doosan (Non-BHEL) | 685           | 12/2015                                   | 02/2016            | 685              | 28.03.16(A)             |            |
| Chhattisgarh                 | Salora                              | Vandana Vidyut                       | U-2      | Chinese           | 135           | 09/2015                                   | 2016-17            |                  |                         |            |
| Maharashtra                  | Nasik TPP Ph-I                      | Ratan India (Nasik) Power Ltd        | U-2      | BHEL              | 270           | 01/2016                                   | 03/2016            |                  |                         |            |
| MP                           | Anuppur TPP Ph-I                    | MB Power(MP)                         | U-1      | Chinese           | 600           | 06/2015                                   |                    | 600              | 20.04.15(A)             | 20.05.2015 |
| M.P                          | Seioni TPP Ph-I                     | Jhabua Power Ltd                     | U-1      | BHEL              |               |   |                    | 600              | 22.03.16(A)             | 03.05.2016 |

| State  | Project Name            | Impl Agency  | Unit No | BTG Supplier | Cap. (MW)      | Anti. Comm.<br>( beginning of<br>the year) | Now Anti.<br>Comm. | Cap. Add<br>(MW) | Actual Date<br>of Comm. | COD        |
|--|-------------------------|--|---------|--------------|----------------|--|--------------------|------------------|-------------------------|------------|
| MP   | Anuppur TPP Ph-I        | MB Power(MP)   | U-2     | Chinese      |                |  |                    | 600              | 30.03.16(A)             | 07.04.2016 |
| Orissa   | Ind Bharat TPP (Orissa) | Ind Barath   | U-1     | Chinese      | 350            | 10/2015                                    | 01/2016            | 350              | 25.02.16(A)             | 20.07.2016 |
| Punjab   | Talwandi Sabo TPP       | Talwandi Sabo Power Ltd                              | U-2     | Chinese      | 660            | 06/2015                                    |                    | 660              | 30.10.15(A)             | 25.11.2015 |
| Punjab   | Talwandi Sabo TPP       | Talwandi Sabo Power Ltd                              | U-3     | Chinese      | 660            | 12/2015                                    | 03/2016            | 660              | 29.03.16(A)             | 25.08.2016 |
| Punjab   | Goindwal Sahib TPP      | GVK Power  | U-1     | BHEL         |                |  |                    | 270              | 14.02.16(A)             | 06.04.2016 |
| Punjab   | Goindwal Sahib TPP      | GVK Power  | U-2     | BHEL         |                |  |                    | 270              | 15.03.16(A)             | 16.04.2016 |
| TN   | ITPCL TPP               | IL&FS TN PC.Ltd                                      | U-1     | Chinese      |                |  |                    | 600              | 19.09.2015              | 29.09.2015 |
| TN   | Melamaruthur (Mutiaru)  | Coastal Energen                                      | U-2     | Chinese      |                |  |                    | 600              | 02.01.16(A)             | 15.01.2016 |
| UP   | Lalitpur TPP            | Lalitpur power Generation Co. Ltd                    | U-1     | BHEL         | 660            |  |                    | 660              | 26.03.16(A)             | 01.10.2015 |
| UP   | Lalitpur TPP            | Lalitpur power Generation Co. Ltd                    | U-2     | BHEL         |                | 09/2015                                    |                    | 660              | 08.01.16(A)             | 14.10.2016 |
| UP   | Prayagraj (Bara ) TPP   | Prayagraj power Gen. Co. Ltd(<br>J.P.Power Ventures) | U-1     | BHEL         | 660            | 10/2015                                    |                    | 660              | 25.12.15(A)             | 29.02.2016 |
| <b>Total Private Sector</b>                    |                         |  |         |              | <b>7120</b>    |  |                    | <b>12705</b>     |                         |            |
| <b>Total Grand Thermal Capacity in 2015-16</b> |                         |  |         |              | <b>17346.1</b> |  |                    | <b>22460.6</b>   |                         |            |

## 2.4 Thermal Capacity Addition Target/ Achievement for the Year 2016-17

| State  | Project                            | Unit                | Imp Agency               | BTG Supplier | Capacity (MW)  | Anticipated Commng. Schedule | Actual date of comm. | Capacity Achieved | COD        |
|--|------------------------------------|---------------------|--------------------------|--------------|----------------|------------------------------|----------------------|-------------------|------------|
| <b><i>CENTRAL SECTOR</i></b>                             |                                    |                     |                          |              |                |                              |                      |                   |            |
| Bihar  | Nabinagar TPP                      | U-2                 | NTPC                     | BHEL         | 250            | 12-2016                      |                      |                   |            |
| Bihar  | Kanti TPS St-II                    | U-4                 | NTPC                     | BHEL         | 195            | 09-2016                      | 24.03.2017           | 195.0             | 01.07.2017 |
| Chhattisgarh   | Lara STPP                          | U-1                 | NTPC                     | NON BHEL     | 800            | 01-2017                      |                      |                   |            |
| Karnataka  | Kudgi TPP                          | U-1                 | NTPC                     | NON BHEL     | 800            | 11-2016                      | 25.12.2016           | 800.0             | 31.07.2017 |
| Maharashtra  | Mauda STPP-II                      | U-4                 | NTPC                     | BHEL         | 660            | 12-2016                      | 18.03.2017           | 660.0             | 18.09.2017 |
| Tripura  | Agartala Gas Based Power Project   | ST-1                | NEEPCO                   | NON BHEL     | 25.5           | 06-2016                      | 23.08.2016           | 25.5              |            |
| <b>Total Central Sector</b>                              |                                    |                     |                          |              | <b>2730.5</b>  |                              |                      | <b>1680.5</b>     |            |
| <b><i>STATE SECTOR</i></b>                               |                                    |                     |                          |              |                |                              |                      |                   |            |
| Assam  | Namrup CCGT                        | GT                  | APGCL                    | BHEL         | 70             | 09-2016                      | 11.01.2017           | 62.25             |            |
| Assam  | Namrup CCGT                        | ST                  | APGCL                    | BHEL         | 30             | 09-2016                      |                      |                   |            |
| Bihar  | Barauni TPP,                       | U-8                 | BSEB                     | BHEL         | 250            | 12-2016                      |                      |                   |            |
| Chhattisgarh   | Marwa TPS                          | U-2                 | CSPGCL                   | BHEL         | 500            | 06-2016                      | 15.07.2016           | 500.0             | 31.07.2016 |
| Gujarat  | Bhavnagar TPP                      | U-1                 | BECL                     | BHEL         | 250            | 06-2016                      | 16.05.2016           | 250.0             |            |
| Gujarat  | Bhavnagar TPP                      | U-2                 | BECL                     | BHEL         | 250            | 08-2016                      | 27.03.2017           | 250.0             |            |
| Karnataka  | Yermarus TPP                       | U-2                 | KPCL                     | BHEL         | 800            | 07-2016                      | 29.03.2017           | 800.0             | 06.04.2017 |
| Maharashtra  | Koradi TPP                         | U-10                | MSPGCL                   | NON BHEL     | 660            | 08-2016                      | 28.12.2016           | 660.0             | 17.01.2017 |
| Telangana  | Singreni TPP                       | U-2                 | SCCL                     | BHEL         | 600            | 06-2016                      | 25.11.2016           | 600.0             | 02.12.2016 |
| West Bengal  | Sagardighi TPS-II                  | U-4                 | WBPDCCL                  | BHEL         | 500            | 09-2016                      | 15.12.2016           | 500.0             |            |
| <b>Total State Sector</b>                                |                                    |                     |                          |              | <b>3910</b>    |                              |                      | <b>3622.25</b>    |            |
| <b><i>PRIVATE SECTOR</i></b>                             |                                    |                     |                          |              |                |                              |                      |                   |            |
| Andhra pradesh   | Sembcorp Gayatri Pvt.ltd.(NCC TPP) | U-1                 | SGPL                     | NON BHEL     | 660            | 09-2016                      | 12.11.2016           | 660.0             | 17.11.2016 |
| Andhra pradesh   | Sembcorp Gayatri Pvt.ltd.(NCC TPP) | U-2                 | SGPL                     | NON BHEL     | 660            | 12-2016                      | 15.02.2017           | 660.0             | 21.02.2017 |
| Chhattisgarh   | Nawapara TPP                       | U-1                 | TRN                      | CHINESE      | 300            | 05-2016                      | 14.08.2016           | 300.0             | 19.08.2016 |
| Chhattisgarh   | Nawapara TPP                       | U-2                 | TRN                      | CHINESE      | 300            | 11-2016                      |                      |                   |            |
| Chhattisgarh   | Ucchpinda TPP                      | U-3                 | RKM                      | CHINESE      | 360            | 07-2016                      |                      |                   |            |
| Chhattisgarh   | Binjkote TPP                       | U-1                 | SKS                      | NON BHEL     | 300            | 11-2016                      |                      |                   |            |
| Chhattisgarh   | Athena Singhitarai TPP             | U-1                 | Athena Chhattisgarh      | NON BHEL     | 600            | 10-2016                      |                      |                   |            |
| Maharashtra  | Nashik TPP, Ph-I                   | U-2                 | Rattan Power             | BHEL         | 270            | 06-2016                      | 15.02.2017           | 270.0             |            |
| Maharashtra  | Nashik TPP, Ph-I                   | U-3                 | Rattan Power             | BHEL         | 270            | 12-2016                      |                      |                   |            |
| Orissa   | Utkal TPP                          | U-2                 | Ind Barath               | NON BHEL     | 350            | 07-2016                      |                      |                   |            |
| Orissa   | Lanco Babandh TPP                  | U-1                 | Lanco Babandh            | NON BHEL     | 660            | 02-2017                      |                      |                   |            |
| Tamilnadu  | ITPCL TPP                          | U-2                 | ILFS                     | NON BHEL     | 600            | 05-2016                      | 18.04.2016           | 600.0             | 30.04.2016 |
| Uttar pradesh  | Bara TPP                           | U-2                 | Jaypee                   | BHEL         | 660            | 07-2016                      | 06.09.2016           | 660.0             | 10.09.2016 |
| Uttar pradesh  | Lalitpur TPP                       | U-3                 | LPGCL                    | BHEL         | 660            | 04-2016                      | 01.04.2016           | 660.0             | 23.12.2016 |
| West Bengal  | Hiranmaye Energy TPP               | U-1                 | Hiranmaye Energy Limited | BHEL         | 150            | 07-2016                      |                      |                   |            |
| <b>Total Private Sector</b>                              |                                    |                     |                          |              | <b>6800</b>    |                              |                      | <b>3810.0</b>     |            |
| <b>Total Thermal</b>                                     |                                    |                     |                          |              | <b>13440.5</b> |                              |                      | <b>9112.75</b>    |            |
| <b>ADDITIONAL PROJECTS COMMISSIONED IN RFD 2016-17</b>   |                                    |                     |                          |              |                |                              |                      |                   |            |
| <b><i>CENTRAL SECTOR</i></b>                             |                                    |                     |                          |              |                |                              |                      |                   |            |
| Assam  | Bongaigaon TPP                     | U-2                 | NTPC                     | BHEL         |                |                              | 22.03.2017           | 250.0             | 01.11.2017 |
| Karnataka  | Kudgi TPP                          | U-2                 | NTPC                     | NON BHEL     |                |                              | 23.03.2017           | 800.0             | 31.12.2017 |
| Uttar Pradesh  | Unchahar TPS ST-IV                 | U-6                 | NTPC                     | BHEL         |                |                              | 31.03.2017           | 500.0             |            |
| <b><i>PRIVATE SECTOR</i></b>                             |                                    |                     |                          |              |                |                              |                      |                   |            |
| Chhattisgarh   | Ratija TPP -II                     | U-2                 | Spectrum Coal&Power Ltd  | Non-BHEL     |                |                              | 10.11.2016           | 50.0              |            |
| Uttrakhand   | GAMA CCPP                          | Module-1 (GT1&2+ST) | M/s GAMA Infraprop Ltd.  | Others       |                |                              | 25.04.2016           | 225.0             |            |
| Uttrakhand   | Kashipur CCPP                      | Blk-I               | Srawanthi Energy Pvt.Ltd | Others       |                |                              | 20.11.2016           | 225.0             |            |
| Maharashtra  | Mangaon CCPP                       | Block-I             | M/s PGPL                 | Others       |                |                              | 14.07.2016           | 388.0             |            |
| <b>Total Additional Projects Commissioned in 2016-17</b> |                                    |                     |                          |              |                |                              |                      | <b>2438.0</b>     |            |
| <b>Total Grand Thermal Capacity in 2016-17</b>           |                                    |                     |                          |              | <b>13440.5</b> |                              |                      | <b>11550.75</b>   |            |



## 2.5 Thermal Capacity Addition Target/ Achievement for the Year 2017-18

| State                                    | Project Name             | Impl Agency                              | Equipment Supplier | Unit No. | Targeted Cap. (MW) | Anti. Comm Date at beginning of year | Anti. Comm Date (At present) | Actual Date of Comm | Capacity Achieved (MW) | COD        |
|--|--------------------------|--|--------------------|----------|--------------------|--------------------------------------|------------------------------|---------------------|------------------------|------------|
| <b>CENTRAL SECTOR</b>                    |                          |  |                    |          |                    |                                      |                              |                     |                        |            |
| Assam                                    | Bongaigaon TPP           | NTPC                                     | BHEL               | 3        | 250                | Dec-17                               | Apr-18                       |                     |                        |            |
| Bihar                                    | Nabi Nagar TPP           | JV of NTPC & Rly                         | BHEL               | 2        | 250                | Apr-17                               | -                            | 03.04.2017          | 250.00                 | 10.09.2017 |
| Bihar                                    | New Nabi Nagar TPP       | JV of NTPC & BSPGCL                      | NON BHEL           | 1        | 660                | Aug-17                               | Mar-18                       |                     |                        |            |
| Chhattisgarh                             | Lara TPP                 | NTPC                                     | NON BHEL           | 1        | 800                | Oct-17                               | -                            | 23.03.2018          | 800.00                 |            |
| Karnataka                                | Kudgi STPP Ph-I          | NTPC                                     | NON BHEL           | 3        | 800                | Aug-17                               | -                            | 12.03.2018          | 800.00                 |            |
| MP                                       | Gadarwara STPP, St-I     | NTPC                                     | BHEL               | 1        | 800                | Jan-18                               | Mar-18                       |                     |                        |            |
| Maharashtra                              | Solapur STPP             | NTPC                                     | NON BHEL           | 1        | 660                | Apr-17                               | -                            | 07.04.2017          | 660.00                 | 25.09.2017 |
| UP                                       | Meja STPP                | JV of NTPC & UPRVUNL                     | NON BHEL           | 1        | 660                | Oct-17                               | -                            | 31.03.2018          | 660.00                 |            |
| <b>TOTAL CENTRAL SECTOR</b>              |                          |  |                    |          | <b>4880</b>        |                                      |                              |                     | <b>3170.00</b>         |            |
| <b>STATE SECTOR</b>                      |                          |  |                    |          |                    |                                      |                              |                     |                        |            |
| AP                                       | Rayal seema TPP          | APGENCO                                  | BHEL               | 6        | 600                | Aug-17                               | -                            | 12.03.2018          | 600.00                 | 29.03.2018 |
| Assam                                    | Namrup                   | APGCL                                    | BHEL               | ST       | 36.15              | Feb-18                               | Mar-18                       |                     |                        |            |
| MP                                       | Shree Singaji TPP, St-II | MPPGCL                                   | NON BHEL           | 3        | 660                | Dec-17                               | Jun-18                       |                     |                        |            |
| Rajasthan                                | Suratgarh TPS            | RRVUNL                                   | BHEL               | 7        | 660                | Nov-17                               | Feb-18                       |                     |                        |            |
| Rajasthan                                | Chhabra SCTPP            | RRVUNL                                   | L&T & MHI          | 5        | 660                | Apr-17                               | -                            | 04.04.2017          | 660.00                 |            |
| Rajasthan                                | Chhabra SCTPP            | RRVUNL                                   | L&T & MHI          | 6        | 660                | Jan-18                               | Feb-18                       |                     |                        |            |
| Telangana                                | Bhadradi TPP             | TGENCO                                   | BHEL               | 1        | 270                | Mar-18                               | May-19                       |                     |                        |            |
| <b>TOTAL STATE SECTOR</b>                |                          |  |                    |          | <b>3546.15</b>     |                                      |                              |                     | <b>1260.00</b>         |            |
| <b>PRIVATE SECTOR</b>                    |                          |  |                    |          |                    |                                      |                              |                     |                        |            |
| Chhattisgarh                             | Akaltara (Naiyara) TPP   | KSK Mahandi Power Company Ltd            | CHINESE            | 3        | 600                | Nov-17                               | -                            | 18.01.2018          | 600.00                 | 28.02.2018 |
| Chhattisgarh                             | Binjkote TPP             | SKS Power Generation ( Chhattisgarh) Ltd | CHINESE            | 1        | 300                | May-17                               | -                            | 25.04.2017          | 300.00                 |            |
| Chhattisgarh                             | Nawapara TPP             | TRN Energy                               | CHINESE            | 2        | 300                | May-17                               | -                            | 18.04.2017          | 300.00                 | 01.05.2017 |
| Chhattisgarh                             | Lanco Amarkantak TPS-II  | LAP Pvt. Ltd.                            | CHINESE            | 3        | 660                | Nov-17                               | Mar-18                       |                     |                        |            |
| Maharashtra                              | Nasik TPP Ph-I           | RattanIndia Nasik Power Ltd              | BHEL               | 3        | 270                | May-17                               | -                            | 14.04.2017          | 270.00                 |            |
| UP                                       | Bara TPP                 | Prayagraj Power Generation Co.Ltd.       | BHEL               | 3        | 660                | Aug-17                               | -                            | 22.05.2017          | 660.00                 | 26.05.2017 |
| WB                                       | Hiranmaye Energy TPP     | Hiranmaye Energy Limited                 | BHEL               | 1        | 150                | Apr-17                               | -                            | 07.06.2017          | 150.00                 | 13.08.2017 |
| <b>TOTAL PRIVATE SECTOR</b>              |                          |  |                    |          | <b>2940</b>        |                                      |                              |                     | <b>2280.00</b>         |            |
| <b>ADDITIONAL PROJECTS COMMISSIONED</b>  |                          |  |                    |          |                    |                                      |                              |                     |                        |            |
| <b>PRIVATE SECTOR</b>                    |                          |  |                    |          |                    |                                      |                              |                     |                        |            |
| Maharashtra                              | Nasik TPP Ph-I           | RattanIndia Nasik Power Ltd              | BHEL               | 4        |                    |                                      |                              | 19.05.2017          | 270.00                 |            |
| Maharashtra                              | Nasik TPP Ph-I           | RattanIndia Nasik Power Ltd              | BHEL               | 5        |                    |                                      |                              | 30.05.2017          | 270.00                 |            |
| Chhattisgarh                             | Uchpinda TPP             | RKM Powergen Pvt.Ltd.                    | Chinese            | 3        |                    |                                      |                              | 12.09.2017          | 360.00                 |            |
| Maharashtra                              | Shirpur TPP              | Shirpur Power Pvt. Ltd.                  | BHEL               | 1        |                    |                                      |                              | 28.09.2017          | 150.00                 |            |
| WB                                       | Hiranmaye Energy TPP     | Hiranmaye Energy Limited                 | BHEL               | 2        |                    |                                      |                              | 31.12.2017          | 150.00                 | 31.12.2017 |
| Bihar                                    | Barauni Ext.             | BSEB                                     | BHEL               | 8        |                    |                                      |                              | 11.01.2018          | 250.00                 |            |
| Chhattisgarh                             | Binjkote TPP             | SKS Power Generation ( Chhattisgarh) Ltd | CHINESE            | 2        |                    |                                      |                              | 28.03.2018          | 300.00                 |            |
| Bihar                                    | Barauni Ext.             | BSEB                                     | BHEL               | 9        |                    |                                      |                              | 31.03.2018          | 250.00                 |            |
| <b>TOTAL ADDITIONAL PRIVATE SECTOR</b>   |                          |  |                    |          |                    |                                      |                              |                     | <b>2000.00</b>         |            |
| <b>TOTAL THERMAL CAPACITY in 2017-18</b> |                          |  |                    |          | <b>11366.15</b>    |                                      |                              |                     | <b>8710.00</b>         |            |

## 2.6 Thermal Capacity Addition Target/ Achievement for the Year 2018-19

| State                                    | Project Name                    | Impl Agency         | Equipment Supplier | Unit No. | Targeted Cap. (MW) | Anti. Comm Date at beginning of year | Anti. Comm Date (At present) | Actual Date of Capacity addition | Capacity Achieved (MW) | COD               |
|--|---------------------------------|---------------------|--------------------|----------|--------------------|--------------------------------------|------------------------------|----------------------------------|------------------------|-------------------|
| <b>CENTRAL SECTOR</b>                    |                                 |                     |                    |          |                    |                                      |                              |                                  |                        |                   |
| Assam                                    | Bongaigaon TPP                  | NTPC                | BHEL               | 3        | 250                | Sept-18                              | -                            |                                  | 250.00                 | 26.03.2019        |
| Bihar                                    | Nabi Nagar TPP                  | JV of NTPC & Rly    | BHEL               | 3        | 250                | Dec-18                               | -                            |                                  | 250.00                 | 26.02.2019        |
| Bihar                                    | New Nabi Nagar TPP              | JV of NTPC & BSPGCL | NON BHEL           | 1        | 660                | Jan-19                               | -                            | 29.03.2019                       | 800.00                 | 02.04.2019        |
| MP                                       | Gadarwara STPP, St-I            | NTPC                | BHEL               | 1        | 800                | Jan-18                               | June-19                      |                                  |                        |                   |
| Odisha                                   | Darlipali STPP                  |                     |                    |          | 800                |                                      |                              |                                  |                        |                   |
| <b>TOTAL CENTRAL SECTOR</b>              |                                 |                     |                    |          | <b>2760</b>        |                                      |                              |                                  | <b>1300.00</b>         |                   |
| <b>STATE SECTOR</b>                      |                                 |                     |                    |          |                    |                                      |                              |                                  |                        |                   |
| Assam                                    | Namrup CCGT                     | APGENCO             | BHEL               | ST       | 36.15              | Feb – 19                             | 2020-21                      |                                  |                        |                   |
| MP                                       | Shri Singhaji TPP St-II         | MPGCL               | L&T & NHI          | 3        | 660                | Sept - 18                            |                              | 18.11.2018                       | 660.00                 | 18.11.2018        |
| MP                                       | Shri Singhaji TPP St-II         | MPPGCL              | L&T & NHI          | 4        | 660                | Feb – 19                             |                              | 27.03.2019                       | 660.00                 | 27.03.2019        |
| Odisha                                   | Ib valley TPP                   | OPGC                | BHEL               | 4        | 660                | March - 19                           | June-19                      |                                  |                        |                   |
| Rajasthan                                | Chhabra TPP Extn                | RRVUNL              | L&T & MHI          | 6        | 660                | Dec – 18                             |                              | 29.03.2019                       | 660.00                 | 02.04.2019        |
| Rajasthan                                | Suratgarh SCTPP                 | RRVUNL              | L&T & MHI          | 7        | 660                | Dec – 18                             | Aug-19                       |                                  |                        |                   |
| Karnataka                                | Yelahanka CCGT                  | KPCL                | BHEL               | 1        | 370                | Oct – 18                             | Oct-19                       |                                  |                        |                   |
| Telangana                                | Kothagudem TPS St-VII           | TGENCO              | BHEL               |          | 800                | Dec – 19                             |                              | 26.12.2018                       | 800.00                 | 26.12.2018        |
| <b>TOTAL STATE SECTOR</b>                |                                 |                     |                    |          | <b>4506.15</b>     |                                      |                              |                                  | <b>2780.00</b>         |                   |
| <b>ADDITIONAL PROJECTS COMMISSIONED</b>  |                                 |                     |                    |          |                    |                                      |                              |                                  |                        |                   |
| <b>Central SECTOR</b>                    |                                 |                     |                    |          |                    |                                      |                              |                                  |                        |                   |
| Maharashtra                              | Solapur STPP                    | NTPC                | Non-Bhel           | 2        |                    |                                      |                              | 29.03.2019                       | 660.00                 | 30.03.2019        |
| <b>State Sector</b>                      |                                 |                     |                    |          |                    |                                      |                              |                                  |                        |                   |
| Assam                                    | Lakwa Replacement Power Project | APGCL               |                    |          |                    |                                      |                              | 26.04.2018                       | <b>69.755</b>          | <b>26.04.2018</b> |
| <b>Private Sector</b>                    |                                 |                     |                    |          |                    |                                      |                              |                                  |                        |                   |
| MP                                       | Mahan TPP                       | Essar Power Ltd     | Chinees            | 2        |                    |                                      |                              | 07.10.2018                       | 600.00                 | 07.10.2018        |
| Chhattisgarh                             | Uchpinda TPP                    | R K M PowerGen Ltd  | Chinees            | 4        |                    |                                      |                              | 20.03.2019                       | 360.00                 | 20.03.2019        |
| WB                                       | Dishergarh TPS                  | IPCL                | Non-BHEL           |          |                    |                                      |                              | 29.03.2019                       | 12.00                  | 29.03.2019        |
| <b>TOTAL ADDITIONAL PRIVATE SECTOR</b>   |                                 |                     |                    |          |                    |                                      |                              |                                  | <b>1701.755</b>        |                   |
| <b>TOTAL THERMAL CAPACITY in 2018-19</b> |                                 |                     |                    |          | <b>7266.15</b>     |                                      |                              |                                  | <b>5781.755</b>        |                   |

### 3.0 Target/ Achievement of Thermal Capacity addition during 12th Plan

| State        | Project Name                 | Impl Agency                 | Main Plant Equipment Supplier | Unit No   | 12th Plan Tar. Cap. | Cap. Ach. From Target (MW) | Add. Cap. Ach (MW) | Total cap. Ach. (MW) | Actual Comm. Date | Slipped     |
|--------------|------------------------------|-----------------------------|-------------------------------|-----------|---------------------|----------------------------|--------------------|----------------------|-------------------|-------------|
|              | <b><u>CENTRAL SECTOR</u></b> |                             |                               |           |                     |                            |                    |                      |                   |             |
| Assam        | Bongaigaon TPP               | NTPC                        | BHEL                          | U-1       | 250                 | 250                        |                    | 250                  | 22.06.15          |             |
| Assam        | Bongaigaon TPP               | NTPC                        | BHEL                          | U-2       | 250                 | 250                        |                    | 250                  | 22.03.17          |             |
| Assam        | Bongaigaon TPP               | NTPC                        | BHEL                          | U-3       | 250                 |                            |                    |                      |                   | 250         |
| Bihar        | Barh STPP-II                 | NTPC                        | BHEL                          | U-4       | 660                 | 660                        |                    | 660                  | 30.11.13          |             |
| Bihar        | Barh STPP-II                 | NTPC                        | BHEL                          | U-5       | 660                 | 660                        |                    | 660                  | 04.03.15          |             |
| Bihar        | Muzaffarpur TPP Extn         | KBUNL (JV of NTPC and BSEB) | BHEL                          | U-3       | 195                 | 195                        |                    | 195                  | 31.03.15          |             |
| Bihar        | Muzaffarpur TPP Extn         | KBUNL (JV of NTPC and BSEB) | BHEL                          | U-4       | 195                 | 195                        |                    | 195                  | 24.03.17          |             |
| Bihar        | Nabi Nagar TPP               | NTPC                        | BHEL                          | U-1       | 250                 | 250                        |                    | 250                  | 20.03.16          |             |
| Bihar        | Nabi Nagar TPP               | NTPC                        | BHEL                          | U-2       | 250                 |                            |                    |                      |                   | 250         |
| Bihar        | Nabi Nagar TPP               | NTPC                        | BHEL                          | U-3       | 250                 |                            |                    |                      |                   | 250         |
| Bihar        | Nabi Nagar TPP               | NTPC                        | BHEL                          | U-4       | 250                 |                            |                    |                      |                   | 250         |
| Bihar        | Barh STPP-I                  | NTPC                        | Others                        | U-1       | 660                 |                            |                    |                      |                   | 660         |
| Bihar        | Barh STPP-I                  | NTPC                        | Others                        | U-2       | 660                 |                            |                    |                      |                   | 660         |
| Bihar        | Barh STPP-I                  | NTPC                        | Others                        | U-3       | 660                 |                            |                    |                      |                   | 660         |
| Chhattisgarh | Sipat-I                      | NTPC                        | Others                        | U-3       | 660                 | 660                        |                    | 660                  | 02.06.12          |             |
| Haryana      | Indira Gandhi TPP            | APCPL                       | BHEL                          | U-3       | 500                 | 500                        |                    | 500                  | 07.11.12          |             |
| Jharkhand    | Koderma TPP                  | DVC                         | BHEL                          | U-2       | 500                 | 500                        |                    | 500                  | 15.02.13          |             |
| Jharkhand    | Bokaro TPS "A" Exp.          | DVC                         | BHEL                          | U-1       | 500                 | 500                        |                    | 500                  | 22.03.16          |             |
| Karnataka    | Kudgi STPP Ph-I              | NTPC                        | Non-BHEL                      | U-1 #     |                     |                            | 800                | 800                  | 25.12.16          |             |
| Karnataka    | Kudgi STPP Ph-I              | NTPC                        | Non-BHEL                      | U-2 #     |                     |                            | 800                | 800                  | 23.03.17          |             |
| Maharashtra  | Mouda TPP                    | NTPC                        | BHEL                          | U-1       | 500                 | 500                        |                    | 500                  | 19.04.12          |             |
| Maharashtra  | Mouda TPP                    | NTPC                        | BHEL                          | U-2       | 500                 | 500                        |                    | 500                  | 29.03.13          |             |
| Maharashtra  | Mouda STPP Ph-II             | NTPC                        | BHEL                          | U-3 #     |                     |                            | 660                | 660                  | 28.03.16          |             |
| Maharashtra  | Mouda STPP Ph-II             | NTPC                        | BHEL                          | U-4 #     |                     |                            | 660                | 660                  | 18.03.17          |             |
| MP           | Vindhyachal TPP-V            | NTPC                        | BHEL                          | U-13 #    |                     |                            | 500                | 500                  | 06.08.15          |             |
| MP           | Vindhyachal STPS-IV          | NTPC                        | BHEL                          | U-11      | 500                 | 500                        |                    | 500                  | 14.06.12          |             |
| MP           | Vindhyachal STPS-IV          | NTPC                        | BHEL                          | U-12      | 500                 | 500                        |                    | 500                  | 25.03.13          |             |
| TN           | Vallur TPP Ph I              | NTECL                       | BHEL                          | U-2       | 500                 | 500                        |                    | 500                  | 28.02.13          |             |
| TN           | Vallur TPP-II                | NTECL                       | BHEL                          | U-3       | 500                 | 500                        |                    | 500                  | 28.02.14          |             |
| TN           | Neyveli TPS-II EXP           | NLC                         | BHEL                          | U-2       | 250                 | 250                        |                    | 250                  | 24.01.15          |             |
| TN           | Tuticorin TPP                | NTPL (JV NLC & TANGEDCO)    | BHEL                          | U-1       | 500                 | 500                        |                    | 500                  | 10.03.15          |             |
| TN           | Tuticorin TPP                | NTPL (JV NLC & TANGEDCO)    | BHEL                          | U-2       | 500                 | 500                        |                    | 500                  | 09.07.15          |             |
| Tripura      | Tripura Gas                  | ONGC                        | BHEL                          | Module -1 | 363.3               | 363.3                      |                    | 363.3                | 03.01.13          |             |
| Tripura      | Tripura Gas                  | OTPS                        | BHEL                          | Module -2 | 363.3               | 363.3                      |                    | 363.3                | 16.11.14          |             |
| Tripura      | Monarchak Gas Power Project  | NEEPCO                      | BHEL                          | GT        | 65.4                | 65.4                       |                    | 65.4                 | 30.03.15          |             |
| Tripura      | Monarchak CCPP               | NEEPCO                      | BHEL                          | ST        | 35.6                | 35.6                       |                    | 35.6                 | 14.01.16          |             |
| Tripura      | Agartala CCPP                | NEEPCO                      | Thermax                       | ST-2 #    |                     |                            | 25.5               | 25.5                 | 22.03.15          |             |
| Tripura      | Agartala CCPP                | NEEPCO                      | Thermax                       | ST-1 #    |                     |                            | 25.5               | 25.5                 | 23.08.16          |             |
| UP           | Rihand STPS- III             | NTPC                        | BHEL                          | U-6       | 500                 | 500                        |                    | 500                  | 07.10.13          |             |
| UP           | Rihand STPS- III             | NTPC                        | BHEL                          | U-5       | 500                 | 500                        |                    | 500                  | 25.05.12          |             |
| UP           | Unchahar - IV                | NTPC                        | BHEL                          | U-6 #     |                     |                            | 500                | 500                  | 31.03.17          |             |
| WB           | Raghunathpur TPP Ph-I        | DVC                         | Chinese                       | U-1       | 600                 | 600                        |                    | 600                  | 24.08.14          |             |
| WB           | Raghunathpur TPP,Ph-I        | DVC                         | Chinese                       | U-2       | 600                 | 600                        |                    | 600                  | 18.01.16          |             |
|              |                              | <b>Total Central Sector</b> |                               |           |                     | <b>14877.6</b>             | <b>11897.6</b>     | <b>3971</b>          | <b>15868.6</b>    | <b>2980</b> |
|              | <b><u>STATE SECTOR</u></b>   |                             |                               |           |                     |                            |                    |                      |                   |             |
| AP           | Damodaram Sanjeevaiah TPS    | APPDL                       | BHEL/MHI                      | U-1       | 800                 | 800                        |                    | 800                  | 28.08.14          |             |
| AP           | Damodaram Sanjeevaiah TPS    | APPDL                       | BHEL/MHI                      | U-2       | 800                 | 800                        |                    | 800                  | 17.03.15          |             |

| State        | Project Name                   | Impl Agency                 | Main Plant Equipment Supplier | Unit No   | 12th Plan Tar. Cap. | Cap. Ach. From Target (MW) | Add. Cap. Ach (MW) | Total cap. Ach. (MW) | Actual Comm. Date | Slipped       |
|--------------|--------------------------------|-----------------------------|-------------------------------|-----------|---------------------|----------------------------|--------------------|----------------------|-------------------|---------------|
| AP           | Royalaseema St-IV              | AP Genco                    | BHEL                          | U-6       | 600                 |                            |                    |                      |                   | 600           |
| Assam        | Namrup CCGT                    | APGCL                       | BHEL                          | GT        | 63.85               | 62.25                      |                    | 62.25                | 11.01.17          |               |
| Assam        | Namrup CCGT                    | APGCL                       | BHEL                          | ST        | 36.15               |                            |                    |                      |                   | 36.15         |
| Chhattisgarh | Korba West -St -III            | CSPGCL                      | BHEL                          | U-5       | 500                 | 500                        |                    | 500                  | 22.03.13          |               |
| Chhattisgarh | Marwa TPP                      | CSPGCL                      | BHEL                          | U-1       | 500                 | 500                        |                    | 500                  | 30.03.14          |               |
| Chhattisgarh | Marwa TPP                      | CSPGCL                      | BHEL                          | U-2       | 500                 | 500                        |                    | 500                  | 15.07.16          |               |
| Delhi        | Pragati CCGT - III             | PPCL                        | BHEL                          | GT-3      | 250                 | 250                        |                    | 250                  | 27.06.12          |               |
| Delhi        | Pragati CCGT - III             | PPCL                        | BHEL                          | GT-4      | 250                 | 250                        |                    | 250                  | 07.05.13          |               |
| Delhi        | Pragati CCGT - III             | PPCL                        | BHEL                          | ST-2      | 250                 | 250                        |                    | 250                  | 26.02.14          |               |
| Gujarat      | Pipavav CCPP                   | GSECL                       | BHEL                          | Block-2   | 351                 | 351                        |                    | 351                  | 27.03.13          |               |
| Gujarat      | Pipavav CCPP                   | GSECL                       | BHEL                          | Block-1   | 351                 | 351                        |                    | 351                  | 05.02.14          |               |
| Gujarat      | Ukai TPP Extn.                 | GSECL                       | BHEL                          | U-6       | 500                 | 500                        |                    | 500                  | 05.03.13          |               |
| Gujarat      | Dhuvaran CCPP-III              | GSECL                       | Others                        | Block-1 # |                     |                            | 376.1              | 376.1                | 21.05.14          |               |
| Gujarat      | Sikka TPS Extn                 | GSECL                       | BHEL                          | U-3       | 250                 | 250                        |                    | 250                  | 28.03.15          |               |
| Gujarat      | Sikka TPS                      | GSECL                       | BHEL                          | U-4 #     |                     |                            | 250                | 250                  | 25.09.15          |               |
| Gujarat      | Bhavnagar CFBC TPP             | Bhavnagar Energy            | BHEL                          | U-1 #     |                     |                            | 250                | 250                  | 16.05.16          |               |
| Gujarat      | Bhavnagar CFBC TPP             | Bhavnagar Energy            | BHEL                          | U-2 #     |                     |                            | 250                | 250                  | 27.03.17          |               |
| Karnataka    | Bellary TPS St-III             | KPCL                        | BHEL                          | U-3 #     |                     |                            | 700                | 700                  | 01.03.16          |               |
| Karnataka    | Yermarus TPP                   | KPCL                        | BHEL                          | U-1 #     |                     |                            | 800                | 800                  | 29.03.16          |               |
| Karnataka    | Yermarus TPP                   | KPCL                        | BHEL                          | U-2 #     |                     |                            | 800                | 800                  | 29.03.17          |               |
| Maharashtra  | Chandrapur TPS                 | MSPGCL                      | BHEL                          | U-8       | 500                 | 500                        |                    | 500                  | 29.03.15          |               |
| Maharashtra  | Koradi TPS Extn                | MSPGCL                      | L&T                           | U-8       | 660                 | 660                        |                    | 660                  | 30.03.15          |               |
| Maharashtra  | Koradi TPS Expn.               | MSPGCL                      | L&T                           | U-9 #     |                     |                            | 660                | 660                  | 15.03.16          |               |
| Maharashtra  | Koradi TPS Expn.               | MSPGCL                      | L&T                           | 10 #      |                     |                            | 660                | 660                  | 28.12.16          |               |
| Maharashtra  | Chandrapur TPS                 | MSPGCL                      | BHEL                          | U-9 #     |                     |                            | 500                | 500                  | 21.03.16          |               |
| Maharashtra  | Parli TPS                      | MSPGCL                      | BHEL                          | U-8       | 250                 | 250                        |                    | 250                  | 30.03.16          |               |
| MP           | Malwa TPP ( Shree Singaji TPP) | MPGENCO                     | BHEL                          | U-2       | 600                 | 600                        |                    | 600                  | 15.10.14          |               |
| MP           | Malwa TPP ( Shree Singaji TPP) | MPGENCO                     | BHEL                          | U-1       | 600                 | 600                        |                    | 600                  | 18.11.13          |               |
| MP           | Satpura TPS Extn               | MPPGCL                      | BHEL                          | U-10      | 250                 | 250                        |                    | 250                  | 22.03.13          |               |
| MP           | Satpura TPS Extn               | MPPGCL                      | BHEL                          | U-11      | 250                 | 250                        |                    | 250                  | 25.12.13          |               |
| Rajasthan    | Ramgarh                        | RRVUNL                      | BHEL                          | GT        | 110                 | 110                        |                    | 110                  | 20.03.13          |               |
| Rajasthan    | Ramgarh CCPP Extn. -III        | RRVUNL                      | BHEL                          | ST        | 50                  | 50                         |                    | 50                   | 01.05.14          |               |
| Rajasthan    | Chhabra TPS Extn.              | RRVUNL                      | BHEL                          | U-3       | 250                 | 250                        |                    | 250                  | 14.09.13          |               |
| Rajasthan    | Chhabra TPS Extn.              | RRVUNL                      | BHEL                          | U-4       | 250                 | 250                        |                    | 250                  | 30.06.14          |               |
| Rajasthan    | Kalisindh TPP                  | RRVUNL                      | Chinese                       | U-1       | 600                 | 600                        |                    | 600                  | 02.05.14          |               |
| Rajasthan    | Kalisindh TPP                  | RVUNL                       | Chinese                       | U-2 #     |                     |                            | 600                | 600                  | 06.06.15          |               |
| TN           | North Chennai Extn             | TNEB                        | BHEL                          | U-2       | 600                 | 600                        |                    | 600                  | 09.03.13          |               |
| TN           | North Chennai TPS Extn, U-1    | TNEB                        | BHEL                          | U-1       | 600                 | 600                        |                    | 600                  | 13.09.13          |               |
| TN           | Mettur TPS Ext                 | TNEB                        | Chinese                       | U-1       | 600                 | 600                        |                    | 600                  | 11.10.12          |               |
| Telangana    | Singareni TPP                  | Singareni Collieries Co Ltd | BHEL                          | U-1 #     |                     |                            | 600                | 600                  | 13.03.16          |               |
| Telangana    | Singareni TPP                  | Singareni Collieries Co Ltd | BHEL                          | U-2 #     |                     |                            | 600                | 600                  | 25.11.16          |               |
| Telangana    | Kakatiya TPS Extn.             | T GENCO                     | BHEL                          | U-1 #     |                     |                            | 600                | 600                  | 31.12.15          |               |
| Tripura      | Rokhia CCPP                    | Govt.of Tipura              |                               | GT-9 #    |                     |                            | 21                 | 21                   | 31.08.13          |               |
| UP           | Parichha Extn                  | UPRVUNL                     | BHEL                          | U-5       | 250                 | 250                        |                    | 250                  | 24.05.12          |               |
| UP           | Parichha Extn                  | UPRVUNL                     | BHEL                          | U-6       | 250                 | 250                        |                    | 250                  | 11.03.13          |               |
| UP           | Harduaganj Ext                 | UPRVUNL                     | BHEL                          | U-9       | 250                 | 250                        |                    | 250                  | 25.05.12          |               |
| UP           | Anpara-D TPS                   | UPRVUNL                     | BHEL                          | U- 6      | 500                 | 500                        |                    | 500                  | 06.06.15          |               |
| UP           | Anpara-D TPS                   | UPRVUNL                     | BHEL                          | U- 7      | 500                 | 500                        |                    | 500                  | 06.03.16          |               |
| WB           | Durgapur TPS Extn U-8          | DPL                         | BHEL                          | U-8 #     |                     |                            | 250                | 250                  | 31.03.14          |               |
| WB           | Sagardighi TPS- Extn           | West Bengal                 | BHEL                          | U-3 #     |                     |                            | 500                | 500                  | 14.12.15          |               |
| WB           | Sagardighi TPS- Extn           | West Bengal                 | BHEL                          | U-4 #     |                     |                            | 500                | 500                  | 15.12.16          |               |
|              |                                | <b>Total State Sector</b>   |                               |           | <b>13922</b>        | <b>13284.25</b>            | <b>8917.1</b>      | <b>22201.4</b>       | <b>0</b>          | <b>636.15</b> |
|              | <b>PRIVATE SECTOR</b>          |                             |                               |           |                     |                            |                    |                      |                   |               |
| AP           | Simhapuri TPP Ph-I             | Madhucon                    | Chinese                       | U-2       | 150                 | 150                        |                    | 150                  | 02.07.12          |               |
| AP           | Thamminapatnam TPP-I           | Meenakshi                   | Chinese                       | U-1       | 150                 | 150                        |                    | 150                  | 09.09.12          |               |
| AP           | Thamminapatnam TPP-I           | Meenakshi Energy Pvt. Ltd   | Chinese                       | U-2       | 150                 | 150                        |                    | 150                  | 17.04.13          |               |

| State        | Project Name                        | Impl Agency                        | Main Plant Equipment Supplier | Unit No    | 12th Plan Tar. Cap. | Cap. Ach. From Target (MW) | Add. Cap. Ach (MW) | Total cap. Ach. (MW) | Actual Comm. Date | Slipped |
|--------------|-------------------------------------|------------------------------------|-------------------------------|------------|---------------------|----------------------------|--------------------|----------------------|-------------------|---------|
| AP           | Thamminapatnam TPP-II               | Meenakshi Energy Pvt. Ltd          | Chinese                       | U-3        | 350                 |                            |                    |                      |                   | 350     |
| AP           | Thamminapatnam TPP-II               | Meenakshi Energy Pvt. Ltd          | Chinese                       | U-4        | 350                 |                            |                    |                      |                   | 350     |
| AP           | Simhapuri Energy Pvt Ltd Ph-II      | Madhucon Projects Ltd.             | Chinese                       | U-3 #      |                     |                            | 150                | 150                  | 21.02.14          |         |
| AP           | Simhapuri Ph-II                     | Simhapuri Energy Ltd.,             | Chinese                       | U-4 #      |                     |                            | 150                | 150                  | 06.03.15          |         |
| AP           | Bhavanapadu TPP Ph-I                | East Coast Energy Ltd.             | Chinese                       | U-1        | 660                 |                            |                    |                      |                   | 660     |
| AP           | Bhavanapadu TPP Ph-I                | East Coast Energy Ltd.             | Chinese                       | U-2        | 660                 |                            |                    |                      |                   | 660     |
| AP           | NCC TPP                             | NCC Power Project Ltd.             | Chinese                       | U-1        | 660                 | 660                        |                    | 660                  | 12.11.16          |         |
| AP           | NCC TPP                             | NCC Power Project Ltd.             | Chinese                       | U-2        | 660                 | 660                        |                    | 660                  | 15.02.17          |         |
| AP           | Painnampuram TPP                    | Thermal Power Tech Corp.Ltd.       | Chinese                       | U-1        | 660                 | 660                        |                    | 660                  | 07.02.15          |         |
| AP           | Painampuram TPP                     | Thermal Power Tech Corporation Ltd | Chinese                       | U-2        | 660                 | 660                        |                    | 660                  | 03.09.15          |         |
| AP           | Vizag TPP                           | Hinduja National Power Corp. Ltd   | BHEL                          | U-1        | 525                 | 520                        |                    | 520                  | 27.12.15          |         |
| AP           | Vizag TPP                           | Hinduja National Power Corp. Ltd   | BHEL                          | U-2        | 525                 | 520                        |                    | 520                  | 30.03.16          |         |
| AP           | Lanco Kondapalli Extn. Ph-III ( PS) | Lanco Kondapalli Power Co.Ltd      | Others                        | Block-I #  |                     |                            | 371                | 371                  | 07.08.15          |         |
| AP           | Lanco Kondapalli Extn. Ph-III (PS)  | Lanco Kondapalli Power Co.Ltd      | Others                        | Block-II # |                     |                            | 371                | 371                  | 05.09.15          |         |
| AP           | Vemagiri CCPP-II (PS)               | GMR Rajahmundry Energy Ltd.        | Others                        | Block-I #  |                     |                            | 384                | 384                  | 12.09.15          |         |
| AP           | Vemagiri CCPP-II (PS)               | GMR Rajahmundry Energy Ltd.        | Others                        | Block-II # |                     |                            | 384                | 384                  | 05.10.15          |         |
| Chhattisgarh | Kasaipalli TPP                      | ACB                                | Chinese                       | U-2        | 135                 | 135                        |                    | 135                  | 21.06.12          |         |
| Chhattisgarh | Nawapara TPP                        | TRN energy Pvt.Ltd..               | Chinese                       | U-1        | 300                 | 300                        |                    | 300                  | 14.08.16          |         |
| Chhattisgarh | Nawapara TPP                        | TRN energy Pvt.Ltd..               | Chinese                       | U-2        | 300                 |                            |                    |                      |                   | 300     |
| Chhattisgarh | Ratija TPP                          | Spectrum Coal & Power Ltd          | Chinese                       | U-1        | 50                  | 50                         |                    | 50                   | 03.02.13          |         |
| Chhattisgarh | Ratija TPP -II                      | Spectrum Coal & Power Ltd          | Non-BHEL                      | U-2 #      |                     |                            | 50                 | 50                   | 10.11.16          |         |
| Chhattisgarh | Akaltara (Nariyara) TPP             | Wardha PCL (KSK)                   | Chinese                       | U-1        | 600                 | 600                        |                    | 600                  | 13.08.13          |         |
| Chhattisgarh | Akaltara (Naiyara) TPP              | KSK Mahandi Power Co. Ltd          | Chinese                       | U-2 (4th)  | 600                 | 600                        |                    | 600                  | 22.08.14          |         |
| Chhattisgarh | Akaltara (Naiyara) TPP              | KSK Mahandi Power Co. Ltd          | Chinese                       | U-3        | 600                 |                            |                    |                      |                   | 600     |

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|--------------|-----------------------------------|--------------------------------------|-------------------------------|------------|---------------------|----------------------------|--------------------|----------------------|-------------------|---------|
| Chhattisgarh | Avantha Bhandar TPP, U-1          | Korba West Power Co. Ltd.            | BHEL                          | U-1        | 600                 | 600                        |                    | 600                  | 31.03.14          |         |
| Chhattisgarh | Baradarha TPP                     | D.B. Power Ltd                       | BHEL                          | U-1        | 600                 | 600                        |                    | 600                  | 23.02.14          |         |
| Chhattisgarh | Baradarha TPP                     | D.B. Power Ltd                       | BHEL                          | U-2        | 600                 | 600                        |                    | 600                  | 24.03.15          |         |
| Chhattisgarh | Chakabura TPP                     | ACB India                            | Non-BHEL                      | U-1#       |                     |                            | 30                 | 30                   | 28.03.14          |         |
| Chhattisgarh | Tamnar TPP ( Raigarh)             | O.P.Jindal                           | BHEL                          | U-1        | 600                 | 600                        |                    | 600                  | 10.03.14          |         |
| Chhattisgarh | Tamnar TPP ( Raigarh)             | O.P.Jindal                           | BHEL                          | U-2        | 600                 | 600                        |                    | 600                  | 30.03.14          |         |
| Chhattisgarh | Tamnar (Raigarh) TPP              | Jindal Power                         | BHEL                          | U-3 #      |                     |                            | 600                | 600                  | 07.01.15          |         |
| Chhattisgarh | Tamnar (Raigarh) TPP              | Jindal Power                         | BHEL                          | U-4 #      |                     |                            | 600                | 600                  | 26.03.15          |         |
| Chhattisgarh | Salora TPP                        | M/s Vandana Vidyut                   | Chinese                       | U-1        | 135                 | 135                        |                    | 135                  | 10.04.14          |         |
| Chhattisgarh | Salora TPP                        | M/s Vandana Vidyut                   | Chinese                       | U-2        | 135                 |                            |                    |                      |                   | 135     |
| Chhattisgarh | Raikheda TPP                      | GMR Chhattisgarh Power Ltd.          | Chinese                       | U-1 #      |                     |                            | 685                | 685                  | 27.02.15          |         |
| Chhattisgarh | Raikheda TPP                      | GMR                                  | Doosan (Non-BHEL)             | U-2 #      |                     |                            | 685                | 685                  | 28.03.16          |         |
| Chhattisgarh | Swastic TPP                       | ACB India                            | Others                        | U-1        | 25                  | 25                         |                    | 25                   | 31.03.15          |         |
| Chhattisgarh | Bandakhar TPP                     | M/s Maruti Clean (Chhattisgarh) Ltd. | Chinese                       | U-1        | 300                 | 300                        |                    | 300                  | 19.06.15          |         |
| Chhattisgarh | Uchpinda TPP                      | RKM Powergen Pvt. Ltd                | Chinese                       | U-1        | 360                 | 360                        |                    | 360                  | 28.10.15          |         |
| Chhattisgarh | Uchpinda TPP                      | RKM Powergen Pvt. Ltd                | Chinese                       | U-2        | 360                 | 360                        |                    | 360                  | 28.01.16          |         |
| Chhattisgarh | Uchpinda TPP                      | RKM Powergen Pvt. Ltd                | Chinese                       | U-3        | 360                 | 0                          |                    |                      |                   | 360     |
| Chhattisgarh | Athena Singhitarai TPP            | Athena                               | Chinese                       | U-1        | 600                 |                            |                    |                      |                   | 600     |
| Chhattisgarh | Binjkote TPP                      | SKS Power Gen                        | Chinese                       | U-1        | 300                 |                            |                    |                      |                   | 300     |
| Chhattisgarh | Binjkote TPP                      | SKS Power Gen                        | Chinese                       | U-2        | 300                 |                            |                    |                      |                   | 300     |
| Chhattisgarh | Binjkote TPP                      | SKS Power Gen                        | Chinese                       | U-3        | 300                 |                            |                    |                      |                   | 300     |
| Chhattisgarh | Lanco Amarkantak TPP-II           | LAP Pvt. Ltd.                        | Chinese                       | U-3        | 660                 |                            |                    |                      |                   | 660     |
| Chhattisgarh | Lanco Amarkantak TPP-II           | LAP Pvt. Ltd.                        | Chinese                       | U-4        | 660                 |                            |                    |                      |                   | 660     |
| Chhattisgarh | BALCO TPP                         | BALCO Pvt Ltd                        | Chinese                       | U-1        | 300                 | 300                        |                    | 300                  | 05.06.15          |         |
| Chhattisgarh | BALCO TPP                         | BALCO Pvt Ltd                        | Chinese                       | U-2        | 300                 | 300                        |                    | 300                  | 24.03.16          |         |
| Gujarat      | Mundra UMTTP                      | Tata Power                           | Others                        | U-2        | 800                 | 800                        |                    | 800                  | 25.07.12          |         |
| Gujarat      | Mundra UMTTP                      | Tata Power                           | Others                        | U-3 #      |                     |                            | 800                | 800                  | 16.10.12          |         |
| Gujarat      | Mundra UMTTP                      | Tata Power                           | Others                        | U-4 #      |                     |                            | 800                | 800                  | 16.01.13          |         |
| Gujarat      | Mundra UMTTP                      | Tata Power                           | Others                        | U-5 #      |                     |                            | 800                | 800                  | 18.03.13          |         |
| Gujarat      | Salaya TPP                        | EssarPower                           | Chinese                       | U-2        | 600                 | 600                        |                    | 600                  | 13.06.12          |         |
| Gujarat      | Uno sugen Mega CCPP               | Torrent Energy Ltd                   | Others                        | Mod.I #    |                     |                            | 382.5              | 382.5                | 20.01.13          |         |
| Gujarat      | DGEN Mega CCPP                    | Torrent Energy Ltd                   | Others                        | Module-1 # |                     |                            | 400                | 400                  | 12.01.14          |         |
| Gujarat      | DGEN Mega CCPP                    | Torrent Energy Ltd                   | Others                        | Module-3 # |                     |                            | 400                | 400                  | 09.03.14          |         |
| Gujarat      | DGEN Mega CCPP                    | Torrent Energy Ltd                   | Others                        | Module-2 # |                     |                            | 400                | 400                  | 23.04.14          |         |
| Haryana      | Jajjar TPS ( Mahatama Gandhi TPP) | CLP Power                            | Chinese                       | U-2        | 660                 | 660                        |                    | 660                  | 11.04.12          |         |
| Jharkhand    | Adhunik Power TPP                 | Adhunik Power                        | BHEL                          | U-1        | 270                 | 270                        |                    | 270                  | 19.11.12          |         |

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|-------------|-------------------------|-------------------------------|-------------------------------|----------|---------------------|----------------------------|--------------------|----------------------|-------------------|---------|
| Jharkhand   | Adhunik Power TPP       | Adhunik Power                 | BHEL                          | U-2      | 270                 | 270                        |                    | 270                  | 29.03.13          |         |
| Jharkhand   | Matrishri Usha TPP Ph-I | Corporate Power Ltd.          | BHEL                          | U-1      | 270                 |                            |                    |                      |                   | 270     |
| Jharkhand   | Matrishri Usha TPP Ph-I | Corporate Power Ltd.          | BHEL                          | U-2      | 270                 |                            |                    |                      |                   | 270     |
| Maharashtra | Butibori TPP            | VIPL                          | Chinese                       | U-1      | 300                 | 300                        |                    | 300                  | 17.08.12          |         |
| Maharashtra | Butibori TPP            | VIPL                          | Chinese                       | U-2 #    |                     |                            | 300                | 300                  | 31.03.14          |         |
| Maharashtra | Bela TPP-I,             | IEPL                          | BHEL                          | U-1      | 270                 | 270                        |                    | 270                  | 20.03.13          |         |
| Maharashtra | EMCO Warora TPP,        | EMCO GMR                      | Chinese                       | U-1      | 300                 | 300                        |                    | 300                  | 07.02.13          |         |
| Maharashtra | EMCO Warora TPP,        | EMCO GMR                      | Chinese                       | U-2      | 300                 | 300                        |                    | 300                  | 27.08.13          |         |
| Maharashtra | Tirora TPP Ph-I,        | Adani Power Ltd               | Chinese                       | U-1      | 660                 | 660                        |                    | 660                  | 11.09.12          |         |
| Maharashtra | Tirora TPP Ph-I,        | Adani Power Ltd               | Chinese                       | U-2      | 660                 | 660                        |                    | 660                  | 25.03.13          |         |
| Maharashtra | Gupta Energy Power Ltd  | Gupta Energy Power Ltd        | Chinese                       | U-2      | 60                  | 60                         |                    | 60                   | 28.04.12          |         |
| Maharashtra | Gupta Energy Power Ltd  | Gupta Energy Power Ltd        | Chinese                       | U-1      | 60                  | 60                         |                    | 60                   | 08.09.12          |         |
| Maharashtra | Amaravati TPP Ph-I      | Indiabulls                    | BHEL                          | U-1      | 270                 | 270                        |                    | 270                  | 25.03.13          |         |
| Maharashtra | Amravati TPP Ph-I       | India Bulls                   | BHEL                          | U-2      | 270                 | 270                        |                    | 270                  | 17.02.14          |         |
| Maharashtra | Amravati TPP Ph-I       | India Bulls                   | BHEL                          | U-3      | 270                 | 270                        |                    | 270                  | 29.01.15          |         |
| Maharashtra | Amravati TPP Ph-I       | India Bulls                   | BHEL                          | U-4      | 270                 | 270                        |                    | 270                  | 04.03.15          |         |
| Maharashtra | Amravati TPP Ph-I       | India Bulls                   | BHEL                          | U-5      | 270                 | 270                        |                    | 270                  | 12.03.15          |         |
| Maharashtra | Dhariwal Infracture TPP | Dhariwal Infracture (P) Ltd   | Chinese                       | U-1      | 300                 | 300                        |                    | 300                  | 03.11.13          |         |
| Maharashtra | Dhariwal Infracture TPP | Dhariwal Infracture (P) Ltd   | Chinese                       | U-2      | 300                 | 300                        |                    | 300                  | 28.05.14          |         |
| Maharashtra | Nasik TPP Ph-I          | Ratan India Nasik Power Ltd.  | BHEL                          | U-1      | 270                 | 270                        |                    | 270                  | 25.02.14          |         |
| Maharashtra | Nasik TPP Ph-I          | Ratan India Nasik Power Ltd.  | BHEL                          | U-2      | 270                 | 270                        |                    | 270                  | 15.02.17          |         |
| Maharashtra | Nasik TPP Ph-I          | Ratan India Nasik Power Ltd.  | BHEL                          | U-3      | 270                 |                            |                    |                      |                   | 270     |
| Maharashtra | Nasik TPP Ph-I          | Ratan India Nasik Power Ltd.  | BHEL                          | U-4      | 270                 |                            |                    |                      |                   | 270     |
| Maharashtra | Nasik TPP Ph-I          | Ratan India Nasik Power Ltd.  | BHEL                          | U-5      | 270                 |                            |                    |                      |                   | 270     |
| Maharashtra | Tirora TPP Ph-II        | Adani Power Ltd               | Chinese                       | U-1      | 660                 | 660                        |                    | 660                  | 10.06.13          |         |
| Maharashtra | Tirora TPP Ph-II        | Adani Power Ltd               | Chinese                       | U-2 #    |                     |                            | 660                | 660                  | 23.03.14          |         |
| Maharashtra | Tirora TPP Ph-II        | Adani Power Ltd               | Chinese                       | U-3 #    |                     |                            | 660                | 660                  | 25.09.14          |         |
| Maharashtra | Lanco Vidarbha TPP      | Lanco Vidarbha                | Chinese                       | U-1      | 660                 |                            |                    |                      |                   | 660     |
| Maharashtra | Lanco Vidarbha TPP      | Lanco Vidarbha                | Chinese                       | U-2      | 660                 |                            |                    |                      |                   | 660     |
| Maharashtra | Mangaon CCPP            | PGPL                          | Others                        | Block-1# |                     |                            | 388                | 388                  | 14.07.16          |         |
| MP          | Nigri TPP               | Jaiprakash Power Ventures Ltd | L&T/MHI                       | U-1 #    |                     |                            | 660                | 660                  | 29.08.14          |         |
| MP          | Nigri TPP               | Jaiprakash Power Ventures Ltd | L&T/MHI                       | U-2 #    |                     |                            | 660                | 660                  | 17.02.15          |         |
| MP          | Sasan UMPP              | Reliance Power Ltd.           | Chinese                       | U-1 #    |                     |                            | 660                | 660                  | 21.05.14          |         |
| MP          | Sasan UMPP              | Reliance Power Ltd.           | Chinese                       | U-4 #    |                     |                            | 660                | 660                  | 25.03.14          |         |
| MP          | Sasan UMPP              | Reliance Power Ltd.           | Chinese                       | U-5 #    |                     |                            | 660                | 660                  | 24.08.14          |         |



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|-----------|-------------------------------|--------------------------|-------------------------------|---------|---------------------|----------------------------|--------------------|----------------------|-------------------|---------|
| MP        | Sasan UMPP                    | Reliance Power Ltd.      | Chinese                       | U-6 #   |                     |                            | 660                | 660                  | 19.03.15          |         |
| MP        | Sasan UMPP                    | Reliance Power Ltd.      | Chinese                       | U-2     | 660                 | 660                        |                    | 660                  | 18.12.13          |         |
| MP        | Sasan UMPP                    | Reliance Power Ltd.      | Chinese                       | U-3     | 660                 | 660                        |                    | 660                  | 30.05.13          |         |
| MP        | Niwari TPP                    | BLA Power Ltd            | Non-BHEL                      | U-1 #   |                     |                            | 45                 | 45                   | 01.12.13          |         |
| MP        | Bina TPP,                     | Bina Power               | BHEL                          | U-1     | 250                 | 250                        |                    | 250                  | 12.08.12          |         |
| MP        | Bina TPP,                     | Bina Power               | BHEL                          | U-2     | 250                 | 250                        |                    | 250                  | 31.03.13          |         |
| M.P.      | Mahan TPP                     | Essar Power MP Ltd       | Chinese                       | U-1 #   |                     |                            | 600                | 600                  | 24.02.13          |         |
| MP        | Anuppur TPP Ph-I              | MB Power(MP)             | Chinese                       | U-1     | 600                 | 600                        |                    | 600                  | 20.04.15          |         |
| MP        | Anuppur TPP Ph-I              | MB Power(MP)             | Chinese                       | U-2     | 600                 | 600                        |                    | 600                  | 30.03.16          |         |
| MP        | Seioni TPP Ph-I               | Jhabua Power Ltd         | BHEL                          | U-1     | 600                 | 600                        |                    | 600                  | 22.03.16          |         |
| MP        | Gorgi TPP ( D B Power)        | DB Power Ltd             | BHEL                          | U-1     | 660                 |                            |                    |                      |                   | 660     |
| Orissa    | Sterlite TPP,                 | Sterlite                 | Chinese                       | U-4     | 600                 | 600                        |                    | 600                  | 25.04.12          |         |
| Orissa    | Lanco Babandh TPP             | Lanco babandh Power Ltd. | Chinese                       | U-1     | 660                 |                            |                    |                      |                   | 660     |
| Orissa    | Kamalanga TPP                 | GMR                      | Chinese                       | U-1     | 350                 | 350                        |                    | 350                  | 28.03.13          |         |
| Orissa    | Kamalanga TPP                 | GMR                      | Chinese                       | U-2     | 350                 | 350                        |                    | 350                  | 28.09.13          |         |
| Orissa    | Kamalanga TPP                 | GMR                      | Chinese                       | U-3     | 350                 | 350                        |                    | 350                  | 21.03.14          |         |
| Orissa    | Derang TPP                    | JITPL                    | BHEL                          | U-1     | 600                 | 600                        |                    | 600                  | 10.05.14          |         |
| Orissa    | Derang TPP                    | JITPL                    | BHEL                          | U-2 #   |                     |                            | 600                | 600                  | 24.01.15          |         |
| Orissa    | Ind Bharat TPP (Orissa)       | Ind Barath               | Chinese                       | U-1     | 350                 | 350                        |                    | 350                  | 25.02.16          |         |
| Orissa    | Ind Bharat TPP (Orissa)       | Ind Barath               | Chinese                       | U-2     | 350                 |                            |                    |                      |                   | 350     |
| Orissa    | KVK Neelanchal TPP            | KVK Neelanchal           | Chinese                       | U-1     | 350                 |                            |                    |                      |                   | 350     |
| Punjab    | Talwandi Sabo TPP             | M/s Sterlite             | Chinese                       | U-1     | 660                 | 660                        |                    | 660                  | 17.06.14          |         |
| Punjab    | Talwandi Sabo TPP             | Talwandi Sabo Power Ltd  | Chinese                       | U-2     | 660                 | 660                        |                    | 660                  | 30.10.15          |         |
| Punjab    | Talwandi Sabo TPP             | Talwandi Sabo Power Ltd  | Chinese                       | U-3     | 660                 | 660                        |                    | 660                  | 29.03.16          |         |
| Punjab    | Rajpura TPP ( Nabha)          | Nabha Power Ltd          | L&T                           | U-2     | 700                 | 700                        |                    | 700                  | 06.07.14          |         |
| Punjab    | Rajpura TPP ( Nabha)          | Nabha Power Ltd          | BTG- L&T                      | U-1     | 700                 | 700                        |                    | 700                  | 24.01.14          |         |
| Punjab    | Goindwal Sahib TPP            | GVK Power                | BHEL                          | U-1     | 270                 | 270                        |                    | 270                  | 14.02.16          |         |
| Punjab    | Goindwal Sahib TPP            | GVK Power                | BHEL                          | U-2     | 270                 | 270                        |                    | 270                  | 15.03.16          |         |
| Rajasthan | Jallipa-Kapurdi TPP,          | Raj West                 | Chinese                       | U-5     | 135                 | 135                        |                    | 135                  | 05.02.13          |         |
| Rajasthan | Jallipa-Kapurdi TPP           | Raj West                 | Chinese                       | U-6     | 135                 | 135                        |                    | 135                  | 03.03.13          |         |
| Rajasthan | Jallipa-Kapurdi TPP           | Raj West                 | Chinese                       | U-8 #   |                     |                            | 135                | 135                  | 28.02.13          |         |
| Rajasthan | Jallipa-Kapurdi TPP           | Raj West                 | Chinese                       | U-7 #   |                     |                            | 135                | 135                  | 16.03.13          |         |
| Rajasthan | Kawai TPP                     | Adani Power Ltd.         | Chinese                       | U-1 #   |                     |                            | 660                | 660                  | 28.05.13          |         |
| Rajasthan | Kawai TPP                     | Adani Power Ltd.         | Chinese                       | U-2 #   |                     |                            | 660                | 660                  | 24.12.13          |         |
| TN        | Tutucorin TPP - 2(Ind Barath) | Ind Barath               | Chinese                       | U-1 #   |                     |                            | 150                | 150                  | 10.03.13          |         |
| TN        | Tuticorin TPP(Ind barath)     | Ind Barath               | Chinese                       | U-2 #   |                     |                            | 150                | 150                  | 30.12.13          |         |
| TN        | Tuticorin TPP-II(Ind barath)  | IBPIL                    | Chinese                       | U-1     | 660                 |                            |                    |                      |                   | 660     |
| TN        | Melamaruthur TPP              | Coastal Energen          | Chinese                       | U-1 #   |                     |                            | 600                | 600                  | 02.12.14          |         |
| TN        | Melamaruthur (Mutiaara)       | Coastal Energen          | Chinese                       | U-2 #   |                     |                            | 600                | 600                  | 02.01.16          |         |
| TN        | ITPCL TPP                     | IL&FS TN PC.Ltd          | Chinese                       | U-1 #   |                     |                            | 600                | 600                  | 19.09.15          |         |
| TN        | ITPCL TPP                     | IL&FS TN PC.Ltd          | Chinese                       | U-2 #   |                     |                            | 600                | 600                  | 18.04.16          |         |

| State   | Project Name          | Impl Agency                                       | Main Plant Equipment Supplier | Unit No   | 12th Plan Tar. Cap. | Cap. Ach. From Target (MW) | Add. Cap. Ach (MW) | Total cap. Ach. (MW) | Actual Comm. Date | Slipped         |
|---|-----------------------|---|-------------------------------|-----------|---------------------|----------------------------|--------------------|----------------------|-------------------|-----------------|
| Uttarakhand   | GAMA CCPP             | M/s GAMA Infraprop Ltd.                           | Others                        | Module-1# |                     |                            | 225                | 225                  | 25.04.16          |                 |
| Uttarakhand   | Kashipur CCPP Ph-I    | M/a Sravanthi Energy Pvt.Ltd                      | Others                        | Module-1# |                     |                            | 225                | 225                  | 20.11.16          |                 |
| UP  | Lalitpur TPP          | Lalitpur power Generation Co. Ltd                 | BHEL                          | U-2 #     |                     |                            | 660                | 660                  | 08.01.16          |                 |
| UP  | Lalitpur TPP          | Lalitpur power Generation Co. Ltd                 | BHEL                          | U-1 #     |                     |                            | 660                | 660                  | 26.03.16          |                 |
| UP  | Lalitpur TPP          | Lalitpur power Generation Co. Ltd                 | BHEL                          | U-3#      |                     |                            | 660                | 660                  | 01.04.16          |                 |
| UP  | Prayagraj (Bara ) TPP | Prayagraj power Gen. Co. Ltd( J.P.Power Ventures) | BHEL                          | U-1       | 660                 | 660                        |                    | 660                  | 25.12.15          |                 |
| UP  | Prayagraj (Bara ) TPP | Prayagraj power Gen. Co. Ltd( J.P.Power Ventures) | BHEL                          | U-2       | 660                 | 660                        |                    | 660                  | 06.09.2016        |                 |
| UP  | Prayagraj (Bara ) TPP | Prayagraj power Gen. Co. Ltd( J.P.Power Ventures) | BHEL                          | U-3       | 660                 |                            |                    |                      |                   | 660             |
| WB  | Haldia TPP-I          | Haldia Energy Ltd                                 | Chinese                       | U-1       | 300                 | 300                        |                    | 300                  | 14.01.15          |                 |
|   | Haldia TPP-I          | Haldia Energy Ltd                                 | Chinese                       | U-2       | 300                 | 300                        |                    | 300                  | 16.02.15          |                 |
| <b>Total Private Sector</b>   |                       |   |                               |           | <b>43540</b>        | <b>31285</b>               | <b>22375.5</b>     | <b>53660.5</b>       |                   | <b>12245</b>    |
| <b>Total Commissioned during 12th Plan up to 31.03.17</b>   |                       |   |                               |           | <b>72339.6</b>      | <b>56466.85</b>            | <b>35263.6</b>     | <b>91730.45</b>      |                   | <b>15861.15</b> |
| <b>Note: # indicates the additional units commissioned which are not included in 12th Plan Target</b> |                       |   |                               |           |                     |                            |                    |                      |                   |                 |
| <b>Difference of 11.60 MW is 10 MW in Vizag TPP (PS) and 1.6 MW in Namrup CCGT</b>                    |                       |   |                               |           |                     |                            |                    |                      |                   |                 |

#### 4.0 Thermal power projects Slipped from the 12th Plan Target with reasons for Slippage

| State                        | Project Name           | Impl Agency               | Main Plant Equipment Supplier | Unit No | 12th Plan Slipped Cap. (MW) | Reasons for Slippage   |
|------------------------------|------------------------|---------------------------|-------------------------------|---------|-----------------------------|--|
| <b><i>CENTRAL SECTOR</i></b> |                        |                           |                               |         |                             |  |
| Assam                        | Bongaigaon TPP         | NTPC                      | BHEL                          | U-3     | 250                         | Frequent bandhs, Heavy monsoon and slow civil works. Delay in supply of material by BHEL. Work came to halt due to violence and mass exodus of labour from site in 2011-12. Civil works got affected due to poor performance by civil contractors resulting in to their contract cancellation. Balance civil and structural works awarded to NBCC on 29.09.14.   |
| Bihar                        | Nabi Nagar TPP         | NTPC                      | BHEL                          | U-2     | 250                         | Delay in acquisition of Land. Slow progress of works by main plant civil agency M/s ERA resulting in delay in handing over civil fronts to erection agencies. Delay in Supply of equipment by BHEL. Agitation by villagers. Patches of land could not be acquired because of unwillingness of people to accept compensation. Financial crunch faced by CHP vendor(Techpro).                                  |
| Bihar                        | Nabi Nagar TPP         | NTPC                      | BHEL                          | U-3     | 250                         |  |
| Bihar                        | Nabi Nagar TPP         | NTPC                      | BHEL                          | U-4     | 250                         |  |
| Bihar                        | Barh STPP-I            | NTPC                      | Others                        | U-1     | 660                         | Delay due to contractual dispute of NTPC with Power machine & Technopromexport, Russia. *Orig. Sch. was in 2009-10 & 2010-11. Delay in supply of boiler material and ordering of Bought out Items(BOIs)by M/s TPE due to financial constraint. M/s. TPE stopped work from 10/13. M/s TPE contract was terminated on 14.01.2015 by NTPC. Delay in supply of material and slow progress by M/s. Power Machine. |
| Bihar                        | Barh STPP-I            | NTPC                      | Others                        | U-2     | 660                         |  |
| Bihar                        | Barh STPP-I            | NTPC                      | Others                        | U-3     | 660                         |  |
| <b>Total Central Sector</b>  |                        |                           |                               |         | <b>2980</b>                 |  |
| <b><i>STATE SECTOR</i></b>   |                        |                           |                               |         |                             |  |
| AP                           | Royalaseema St-IV      | AP Genco                  | BHEL                          | U-6     | 600                         | Delay in start & completion of civil works and land acquisition. Delay in BoP works.   |
| Assam                        | Namrup CCGT            | APGCL                     | BHEL                          | ST      | 36.15                       | Delay in start and slow progress of of civil works, Termination of civil contractor. Poor soil conditions and heavy monsoon. Delay in supply of material by BHEL & shortage of skilled manpower. Termination of NBPL order. Delay in award of civil and Electrical, Mechanical & Instrumentation agency.   |
| <b>Total State Sector</b>    |                        |                           |                               |         | <b>636.15</b>               |  |
| <b><i>PRIVATE SECTOR</i></b> |                        |                           |                               |         |                             |  |
| AP                           | Thamminapatnam TPP-II  | Meenakshi Energy Pvt. Ltd | Chinese                       | U-3     | 350                         | Slow progress of Civil works. Due to financial problem, work at site remained closed for a long time.  |
| AP                           | Thamminapatnam TPP-II  | Meenakshi Energy Pvt. Ltd | Chinese                       | U-4     | 350                         |  |
| AP                           | Bhavanapadu TPP Ph-I   | East Coast Energy Ltd.    | Chinese                       | U-1     | 660                         | Work remained under suspension due to MoE&F order for a long time. After restart works hampered due to two cyclones . Agitation against State bifurcation. Slow progress of work at site due to financial problems.  |
| AP                           | Bhavanapadu TPP Ph-I   | East Coast Energy Ltd.    | Chinese                       | U-2     | 660                         |  |
| Chhattisgarh                 | Nawapara TPP           | TRN energy Pvt.Ltd..      | Chinese                       | U-2     | 300                         | Delay in start of civil works. Slow progress in erection works of boiler and T.G. Manpower shortage.   |
| Chhattisgarh                 | Akaltara (Naiyara) TPP | KSK Mahandi Power Co. Ltd | Chinese                       | U-3     | 600                         | Shortage of manpower, Agitation by Villagers. Delay in supply of material due to fund constraints.   |

| State        | Project Name   | Impl Agency                                       | Main Plant Equipment Supplier | Unit No | 12th Plan Slipped Cap. (MW) | Reasons for Slippage  |
|--------------|--|---|-------------------------------|---------|-----------------------------|---|
| Chhattisgarh | Salora TPP   | M/s Vandana Vidyut                                | Chinese                       | U-2     | 135                         | Delay in commissioning of unit-1. Agitation by villagers at site. Delay in supply of BTG and CHP material. Non cooperation of BTG supplier in commissioning activities. Acquisition for railway siding and ash pond.  |
| Chhattisgarh | Uchpinda TPP   | RKM Powergen Pvt. Ltd                             | Chinese                       | U-3     | 360                         | Work suffered due to agitation by villagers. Slow progress of work at site. Delay in readiness of BOPs. Delay in readiness of start up power. Delay due to financial problem. Balance land acquisition for ash pond and Railway line siding. Consent to operate for U- 3 & 4. |
| Chhattisgarh | Athena Singhitarai TPP                                     | Athena  | Chinese                       | U-1     | 600                         | Delay in land acquisition. Slow progress of Boiler & TG erection. Delay due to financial problems.  |
| Chhattisgarh | Binjkote TPP   | SKS Power Gen                                     | Chinese                       | U-1     | 300                         | Delay in start of civil works. Slow progress of pressure parts erection. Balance land acquisition for ash dyke. Delay due to financial problems.  |
| Chhattisgarh | Binjkote TPP   | SKS Power Gen                                     | Chinese                       | U-2     | 300                         |   |
| Chhattisgarh | Binjkote TPP   | SKS Power Gen                                     | Chinese                       | U-3     | 300                         |   |
| Chhattisgarh | Lanco Amarkantak TPP-II                                    | LAP Pvt. Ltd.                                     | Chinese                       | U-3     | 660                         | Delay in acquisition of land for water system. Presently work is going slow at site due to financial problems.  |
| Chhattisgarh | Lanco Amarkantak TPP-II                                    | LAP Pvt. Ltd.                                     | Chinese                       | U-4     | 660                         |   |
| Jharkhand    | Matrishri Usha TPP Ph-I                                    | Corporate Power Ltd.                              | BHEL                          | U-1     | 270                         | Law and order problem. Delay in supply of BTG equipment. Delay in readiness of transmission line due to forest clearance. Work held up due to financial problems since Nov, 12.   |
| Jharkhand    | Matrishri Usha TPP Ph-I                                    | Corporate Power Ltd.                              | BHEL                          | U-2     | 270                         |   |
| Maharashtra  | Nasik TPP Ph-I   | Ratan India Nasik Power Ltd.                      | BHEL                          | U-3     | 270                         | Non-Acceptance of BTG material by Project Authorities. Work is going slow at site due to financial problems.  |
| Maharashtra  | Nasik TPP Ph-I   | Ratan India Nasik Power Ltd.                      | BHEL                          | U-4     | 270                         |   |
| Maharashtra  | Nasik TPP Ph-I   | Ratan India Nasik Power Ltd.                      | BHEL                          | U-5     | 270                         |   |
| Maharashtra  | Lanco Vidarbha TPP   | Lanco Vidarbha                                    | Chinese                       | U-1     | 660                         | Work is going slow at site due to financial problems  |
| Maharashtra  | Lanco Vidarbha TPP   | Lanco Vidarbha                                    | Chinese                       | U-2     | 660                         |   |
| MP           | Gorgi TPP ( D B Power)                                     | DB Power Ltd                                      | BHEL                          | U-1     | 660                         | Order for main plant equipment has been placed. Work is on hold. Commissioning schedule would be assessed after re-start of work.   |
| Orissa       | Lanco Babandh TPP  | Lanco babandh Power Ltd.                          | Chinese                       | U-1     | 660                         | Delay in land acquisition. Work is going slow at site due to financial problem.   |
| Orissa       | Ind Bharat TPP (Orissa)                                    | Ind Barath  | Chinese                       | U-2     | 350                         | Delay due to heavy rains. Delay in readiness of transmission line for start up power. Commissioning problems such as change of firing guns of boiler and change in bypass valve.  |
| Orissa       | KVK Neelanchal TPP   | KVK Neelanchal                                    | Chinese                       | U-1     | 350                         |   |
| TN           | Tuticorin TPP-II(Ind barath)                               | IBPIL   | Chinese                       | U-1     | 660                         | Late start and slow progress of civil works and delay in supply of boiler structural material at site.  |
| UP           | Prayagraj (Bara ) TPP                                      | Prayagraj power Gen. Co. Ltd( J.P.Power Ventures) | BHEL                          | U-3     | 660                         | Delay in BTG supply, Raw water pipe line readiness and transmission line readiness for start up power. Progress of work at site delayed due to financial problems. Delay in Land Acquisition for railway siding and power evacuation.   |
|              |  | <b>Total Private Sector</b>                       |                               |         | <b>12245</b>                |   |
|              | <b>Total Slippage from 12th Plan Target as on 31.03.17</b> |   |                               |         | <b>15861.15</b>             |   |

## 5.0 THERMAL POWER PROJECTS UNDER CONSTRUCTION IN THE COUNTRY

| S.No                        | State       | Project Name / Impl. Agency/ EPC or BTG                                   | LOA Date/ | Unit No | Cap. (MW)    | Org. Comm. Sched. | Ant. Comm. Sched. | Original / Latest cost (in Rs.Crores) | Exp. In Rs.crores. |
|-----------------------------|-------------|---|-----------|---------|--------------|-------------------|-------------------|---------------------------------------|--------------------|
| <b>CENTRAL SECTOR</b>       |             |   |           |         |              |                   |                   |                                       |                    |
| 1.                          | Bihar       | Barh STPP-I /NTPC/Others  | Mar-05    | U-1     | 660          | May-17            | April-20          | 8693/ 15095.67                        | 15441.10 (Jan-19)  |
|                             |             |   |           | U-2     | 660          | Nov-17            | Oct-20            |                                       |                    |
|                             |             |   |           | U-3     | 660          | May-18            | April-21          |                                       |                    |
| 2.                          | Bihar       | Nabi Nagar TPP / JV of NTPC & Rlys/BHEL                                   | Jan-08    | U-4     | 250          | Nov-13            | Aug-19            | 5352.51/ 7998                         | 7649.34 (Feb-19)   |
| 3.                          | Bihar       | New Nabi Nagar TPP /JV of NTPC & BSPGCL TG-Alstom & Bharat Forge, SG-BHEL | Jan-13    | U-1     | 660          | Jan-17            | Mar-19            | 13624.02 / 15131.67                   | 12594.35 (Dec-18)  |
|                             |             |   |           | U-2     | 660          | Jul-17            | -                 |                                       |                    |
|                             |             |   |           | U-3     | 660          | Jan-18            | -                 |                                       |                    |
| 4.                          | Chhatisgarh | Lara TPP/NTPC / SG-Dooson TG-BGR Hitachi                                  | Dec-12    | U-2     | 800          | Jun-17            | Sept-19           | 11846/ 11846                          | 10795.17 (Jan-19)  |
| 5.                          | Jharkhand   | North Karanpura TPP/ NTPC / BHEL  | Feb-14    | U-1     | 660          | Feb-18            | Oct-19            | 14367/ 14367                          | 8155.82 (Jan-19)   |
|                             |             |   |           | U-2     | 660          | Aug-18            | April-20          |                                       |                    |
|                             |             |   |           | U-3     | 660          | Feb-19            | Oct-20            |                                       |                    |
| 6.                          | Jharkhand   | Patratu STPP/NTPC/BHEL  | Mar-18    | U-1     | 800          | Dec-21            | Jan-22            | 18668/18668                           | 1477.29 (Nov-18)   |
|                             |             |   |           | U-2     | 800          | Jan-22            | Jun-22            |                                       |                    |
|                             |             |   |           | U-3     | 800          | Jul-22            | Dec-22            |                                       |                    |
| 7.                          | MP          | Gadarwara TPP/ NTPC /BTG-BHEL   | Mar-13    | U-2     | 800          | Sep-17            | Aug-19            | 11638.55/ 11638.55                    | 10682.21 (Jan-19)  |
| 8.                          | MP          | Khargone TPP/ NTPC/ EPC - L&T   | Mar-15    | U-1     | 660          | Mar-19            | May-19            | 9870.51/ 11148.86                     | 7207.38 (Jan-19)   |
|                             |             |   |           | U-2     | 660          | Sep-19            | Sep-19            |                                       |                    |
| 9.                          | Odisha      | Darlipalli STPP/ NTPC / SG- BHEL TG-JSW & Toshiba                         | Feb-14    | U-1     | 800          | Feb-18            | May-19            | 12532.44/ 12532.44                    | 8608.76 (Jan-19)   |
|                             |             |   |           | U-2     | 800          | Jun-18            | Dec-19            |                                       |                    |
| 10.                         | Odisha      | Rourkela PP-II, Expansion/ NTPC-SAIL Power Co. Ltd.                       | May-16    | U-1     | 250          | Sept-18           | Sept-19           | 1885.13/ 1885.13                      | 1107.55 (Feb-19)   |
| 11.                         | Rajasthan   | Barsingsar TPP ext/ NLC/ EPC-Reliance Infra.                              | Nov-16    | U-1     | 250          | May-20            | Aug-20            | 2112.59                               | 158.18 (Mar-19)    |
| 12.                         | Rajasthan   | Bithnok TPP/ NLC/ EPC- Reliance Infra.                                    | Nov-16    | U-1     | 250          | May-20            | Aug-20            | 2196.30                               | 173.47 (Mar-19)    |
| 13.                         | Telangana   | Telangana Ph- I / NTPC/SG- BHEL TG- Alstom & Bharatforge                  | Feb-16    | U-1     | 800          | Jan-20            | Jul-20            | 10599/ 10599                          | 3552.53 (Jan-19)   |
|                             |             |   |           | U-2     | 800          | Jul-20            | Jan-21            |                                       |                    |
| 14.                         | TN          | Neyveli New TPP/ NLC/BHEL   | Dec-13    | U-1     | 500          | Sept-17           | Apr-19            | 5907.11/ 5907.11                      | 5491.09 (Mar-19)   |
|                             |             |   |           | U-2     | 500          | Mar-18            | Jun-19            |                                       |                    |
| 15.                         | UP          | Meja STPP/ JV of NTPC & UPRVUNL/ SG-BGR, G-Toshiba                        | Apr-12    | U-2     | 660          | Dec-16            | Aug-19            | 10821/ 10821                          | 8464 (Aug-18)      |
| 16.                         | UP          | Ghatampur TPP/ JV of NLC & UPRVUNL/ MHPS Boiler Pvt. Ltd.                 | Aug-16    | U-1     | 660          | Nov-20            | Sept-20           | 17237.80/ 17237.80                    | 4556.07 (Mar-19)   |
|                             |             |   |           | U-2     | 660          | May-21            | Mar-21            |                                       |                    |
|                             |             |   |           | U-3     | 660          | Nov-21            | Sept-21           |                                       |                    |
| 17.                         | UP          | Tanda TPP/ NTPC/ SG: L&T/ TG: Alstom                                      | Sep-14    | U-1     | 660          | Sep-18            | Jun-19            | 9188.98/ 9188.98                      | 5572.88 (Jan-19)   |
|                             |             |   |           | U-2     | 660          | Mar-19            | Feb-20            |                                       |                    |
| <b>TOTAL CENTRAL SECTOR</b> |             |   |           |         | <b>20420</b> |                   |                   |                                       |                    |
| <b>STATE SECTOR</b>         |             |   |           |         |              |                   |                   |                                       |                    |
| 1.                          | A.P         | Dr.Narla Tata Rao TPS St-V / APGENCO / BTG- BHEL                          | Oct-15    | U-1     | 800          | Jun-19            | Jun-19            | 5286.54 / 5515                        | 4041.47 (Mar-19)   |
| 2.                          | A.P         | Sri Damodaran Sanjeevaiah TPP St-II / APGENCO /BTG- BHEL                  | Nov-15    | U-1     | 800          | Mar-19            | Nov-19            | 4276.04 / 4276.04                     | 4322 (22.03.19)    |
| 3.                          | Assam       | Namrup CCGT / APGCL / BHEL  | Feb-09    | ST      | 36.15        | Jan-12            | Oct-19            | 411 / 693.73                          | 581.48 (Jun-18)    |

| S.No                      | State        | Project Name / Impl. Agency/ EPC or BTG  | LOA Date/ | Unit No | Cap. (MW)       | Org. Comm. Sched. | Ant. Comm. Sched. | Original / Latest cost (in Rs.Crores) | Exp. In Rs.crores. |
|---------------------------|--------------|--|-----------|---------|-----------------|-------------------|-------------------|---------------------------------------|--------------------|
| 4.                        | Gujarat      | Wanakbori TPS Extn. / GSECL SG-Alstom TG-Siemens                                       | Oct-14    | U-8     | 800             | Oct-18            | Mar-19            | 3536.51 / 3536.51                     | 3697.96 (Feb-19)   |
| 5.                        | Karnataka    | Yelahanka CCGP BY KPCL   | Nov-15    | GT+ ST  | 370             | Mar-18            | Sept-19           | 1571.18 / 1571.18                     | 1281.65 (Mar-19)   |
| 6.                        | Odisha       | Ib valley TPP / OPGCL BTG-BHEL   | Mar-14    | U-3     | 660             | Sept-17           | Feb-19            | 11965 / 11965                         | 5068.83 (Jun-17)   |
|                           |              |  |           | U-4     | 660             | Jan-18            | Jan-19            |                                       |                    |
| 7.                        | Rajasthan    | Suratgarh SCTPP/ RRVUNL / BHEL   | May-13    | U-7     | 660             | Sep-16            | Mar-19            | 7920 / 7920                           | 8303.56 (Mar-19)   |
|                           |              |  |           | U-8     | 660             | Dec-16            | Jun-19            |                                       |                    |
| 8.                        | Telangana    | Bhadradri TPP / TSGENCO/ BHEL  | Mar-15    | U-1     | 270             | Mar-17            | Jul-19            | 5044 / 5044                           | 4974.11 (Mar-19)   |
|                           |              |  |           | U-2     | 270             | May-17            | Aug-19            |                                       |                    |
|                           |              |  |           | U-3     | 270             | Jul-17            | Nov-19            |                                       |                    |
|                           |              |  |           | U-4     | 270             | Sept-17           | Dec-19            |                                       |                    |
| 9.                        | Telangana    | Yadradri TPP/ TSGENCO/ BHEL  | Oct-17    | U-1     | 800             | Oct-20            | 2020-21           | 25099.42                              | 4252.43 (Mar-19)   |
|                           |              |  |           | U-2     | 800             | Oct-20            | 2020-21           |                                       |                    |
|                           |              |  |           | U-3     | 800             | Oct-21            | 2021-22           |                                       |                    |
|                           |              |  |           | U-4     | 800             | Oct-21            | 2021-22           |                                       |                    |
|                           |              |  |           | U-5     | 800             | Oct-21            | 2021-22           |                                       |                    |
| 10.                       | TN           | Ennore exp. SCTPP (Lanco) / TANGEDCO BTG-LANCO   | May-14    | U-1     | 660             | Jan-18            | Jun-19            | 5421.38 / 5421.38                     | 791.4 (Dec-17)     |
| 11.                       | TN           | Ennore SEZ SCTPP/ TANGEDCO/ BHEL   | Sep-14    | U-1     | 660             | Jan-18            | Jul-20            | 9800 / 9800                           | 3102.96 (Jan-19)   |
|                           |              |  |           | U-2     | 660             | Mar-18            | Oct-20            |                                       |                    |
| 12.                       | TN           | North Chennai TPP St-III TANGEDCO / BHEL   | Jan-16    | U-1     | 800             | Mar-19            | Dec-19            | 6376 / 6376                           | 3372.36 (Mar-19)   |
| 13.                       | TN           | Uppur Super Critical TPP TANGEDCO /BHEL  | Feb-16    | U-1     | 800             | Mar-19            | Apr-20            | 12778 / 12778                         | 1839.06 (Mar-19)   |
|                           |              |  |           | U-2     | 800             | Oct-19            | Oct-20            |                                       |                    |
| 14.                       | TN           | Udangudi STPP St-I / TANGEDCO/ BHEL  | Dec-17    | U-1     | 660             | Feb-21            | Feb-21            | 13076.71/ 13076.71                    | 455.36 (Mar-19)    |
|                           |              |  |           | U-2     | 660             | Feb-21            | April-21          |                                       |                    |
| 15.                       | UP           | Harduaganj TPS Exp-II/UPRVUNL /Toshiba JSW   | Sep-15    | U-1     | 660             | Jun-19            | Jan-20            | 4826.49 / 5500.98                     | 1996.03 (Feb-19)   |
| 16.                       | UP           | Jawaharpur STPP/ UPRVUNL/ Doosan   | Dec-16    | U-1     | 660             | Sept-20           | Mar-21            | 10556.27/ 10556.27                    | 1050 (Feb-19)      |
|                           |              |  |           | U-2     | 660             | Jan-21            | July-21           |                                       |                    |
| 17.                       | UP           | Obra-C STPP/ UPRVUNL/ Doosan   | Dec-16    | U-1     | 660             | Sept-20           | Apr-21            | 10416 / 10416                         | 1611.94 (Mar-19)   |
|                           |              |  |           | U-2     | 660             | Dec-20            | July-21           |                                       |                    |
| 18.                       | UP           | Panki TPS Extn./UPRVUNL  | Mar-18    | U-1     | 660             | NA                | Sept-21           | NA                                    | 16 (Apr-18)        |
| 19.                       | Maharashtra  | Bhusawal TPS/ MAHAGENCO  | Jan-18    | U-6     | 660             | NA                | NA                | 5097                                  | NA                 |
| <b>Total State Sector</b> |              |  |           |         | <b>20846.15</b> |                   |                   |                                       |                    |
| <b>PRIVATE SECTOR</b>     |              |  |           |         |                 |                   |                   |                                       |                    |
| 1.                        | AP           | Bhavanapadu TPP Ph-I / East Coast Energy Ltd. BTG-Chinese                              | Sep-09    | U-1     | 660             | Oct-13            | Uncertain         | 6571.94 / 9343.15                     | 3785.6 (Jan-16)    |
|                           |              |  |           | U-2     | 660             | Mar-14            | Uncertain         |                                       |                    |
| 2.                        | AP           | Thamminapatnam TPP stage -II / Meenakshi Energy Pvt. Ltd. SG-Cether vessels TG-Chinese | Dec-09    | U-3     | 350             | May-12            | Apr-18            | 3120 (600MW)/ 5005 (700MW)            | 5414.40 (Feb-19)   |
|                           |              |  |           | U-4     | 350             | Aug-12            | -                 |                                       |                    |
| 3.                        | Bihar        | Siriya TPP (Jas Infra. TPP) / JICPL BTG-Chinese  | Mar-11    | U-1     | 660             | Aug-14            | Uncertain         | 11120 / 11120                         | NA                 |
|                           |              |  |           | U-2     | 660             | Dec-14            | Uncertain         |                                       |                    |
|                           |              |  |           | U-3     | 660             | Apr-15            | Uncertain         |                                       |                    |
|                           |              |  |           | U-4     | 660             | Aug-15            | Uncertain         |                                       |                    |
| 4.                        | Chhattisgarh | Akaltara TPP (Naiyara) / KSK Mahandi Power Company Ltd./ Chinese                       | Apr-09    | U-4     | 600             | Apr-13            | Jun-19            | 16190 / 27080                         | 18730 (Dec-16)     |
|                           |              |  |           | U-5     | 600             | Aug-13            | Sept-19           |                                       |                    |
|                           |              |  |           | U-6     | 600             | Dec-13            | Dec-19            |                                       |                    |

| S.No | State        | Project Name / Impl. Agency/ EPC or BTG  | LOA Date/ | Unit No | Cap. (MW) | Org. Comm. Sched. | Ant. Comm. Sched. | Original / Latest cost (in Rs.Crores) | Exp. In Rs.crores. |
|------|--------------|--|-----------|---------|-----------|-------------------|-------------------|---------------------------------------|--------------------|
| 5.   | Chhattisgarh | Binjkote TPP/ SKS Power Generation (Chhattisgarh) Ltd. SG-Cethar Vessels TG-Harbin China | Mar-11    | U-3     | 300       | Mar-14            | *                 | 5058 / 7940                           | 3828 (Jun-15)      |
|      |              |  |           | U-4     | 300       | Jun-14            | *                 |                                       |                    |
| 6.   | Chhattisgarh | Lanco Amarkantak Mega TPP-II/ LAP Pvt. Ltd. BTG-DEC                                      | Nov-09    | U-3     | 660       | Jan-12            | *                 | 6886 / 10815.24                       | 9537.79 (Dec-16)   |
|      |              |  |           | U-4     | 660       | Mar-12            | *                 |                                       |                    |
| 7.   | Chhattisgarh | Singhtarai TPP / Athena Chhattisgarh Power Ltd. BTG -DECL                                | Dec-09    | U-1     | 600       | Nov-14            | *                 | 6200 / 8443.79                        | 6408.47 (May-17)   |
|      |              |  |           | U-2     | 600       | Feb-15            | *                 |                                       |                    |
| 8.   | Chhattisgarh | Salora TPP / Vandana Vidyut/ BTG-Cether Vessles  | Sep-09    | U-2     | 135       | Sep-11            | Uncertain         | 1458.44 / 1458.44                     | 2386.89 (Mar-15)   |
| 9.   | Chhattisgarh | Deveri (Visa) TPP / Visa Power Ltd. BTG-BHEL   | Jun-10    | U-1     | 600       | Aug-13            | Uncertain         | 2618.70 / 3930                        | 2077.23 (Nov-15)   |
| 10.  | Jharkhand    | Matrishri Usha TPP Ph-I / Corporate Power Ltd. EPC-BHEL                                  | Dec-09    | U-1     | 270       | Apr-12            | Uncertain         | 2900 / 2900                           | 3120 (Nov-12)      |
|      |              |  |           | U-2     | 270       | May-12            | Uncertain         |                                       |                    |
| 11.  | Jharkhand    | Matrishri Usha TPP Ph-II / Corporate Power Ltd. EPC-BHEL                                 | Mar-11    | U-3     | 270       | Oct-12            | Uncertain         | 3182 / 3182                           | 2207 (Sep-12)      |
|      |              |  |           | U-4     | 270       | Jan-13            | Uncertain         |                                       |                    |
| 12.  | Jharkhand    | Tori TPP Ph-I / Essar Power Ltd. BTG-China   | Aug-08    | U-1     | 600       | Jul-12            | Uncertain         | 5700 / 5700                           | 4718.59 (Dec-16)   |
|      |              |  |           | U-2     | 600       | Sep-12            | Uncertain         |                                       |                    |
| 13.  | Jharkhand    | Tori TPP Ph-II / Essar Power Ltd.  |           | U-3     | 600       | Dec-15            | Uncertain         | 2500 / 2500                           | 246.65 (Mar-15)    |
| 14.  | Maharashtra  | Amravati TPP Ph-II / Ratan India Power Pvt. Ltd. BTG-BHEL                                | Oct-10    | U-1     | 270       | Jul-14            | *                 | 6646 / 6646                           | 763.8 (Mar-15)     |
|      |              |  |           | U-2     | 270       | Sep-14            | *                 |                                       |                    |
|      |              |  |           | U-3     | 270       | Nov-14            | *                 |                                       |                    |
|      |              |  |           | U-4     | 270       | Jan-15            | *                 |                                       |                    |
|      |              |  |           | U-5     | 270       | Mar-15            | *                 |                                       |                    |
| 15.  | Maharashtra  | Lanco Vidarbha TPP / LVP Pvt. Ltd. EPC-LANCO   | Nov-09    | U-1     | 660       | Jul-14            | *                 | 6936 / 10433                          | 5338 (Apr-17)      |
|      |              |  |           | U-2     | 660       | Nov-14            | *                 |                                       |                    |
| 16.  | Maharashtra  | Nasik TPP Ph-II / Ratan India Nasik Power Pvt. Ltd. BTG-BHEL                             | Nov-09    | U-1     | 270       | Apr-13            | *                 | 6789 / 6789                           | 711.81 (Mar-15)    |
|      |              |  |           | U-2     | 270       | Jun-13            | *                 |                                       |                    |
|      |              |  |           | U-3     | 270       | Aug-13            | *                 |                                       |                    |
|      |              |  |           | U-4     | 270       | Oct-13            | *                 |                                       |                    |
|      |              |  |           | U-5     | 270       | Dec-13            | *                 |                                       |                    |
| 17.  | Maharashtra  | Bijora Ghanmukh TPP / Jinbhuvish Power Generation Pvt. Ltd. / BTG-Chinese                | Sep-11    | U-1     | 300       | Dec-16            | Uncertain         | 3189 / 3450                           | 422.27 (Mar-15)    |
|      |              |  |           | U-2     | 300       | Mar-17            | Uncertain         |                                       |                    |
| 18.  | Maharashtra  | Shirpur TPP ,Shirpur Power Pvt. Ltd.-BHEL  | Nov-11    | U-2     | 150       | Apr-15            | *                 | 2413 / 2413                           | 2383.85 (Nov-17)   |
| 19.  | MP           | Gorgi TPP / D.B. Power (MP) Ltd. BTG-BHEL  | Mar-11    | U-1     | 660       | Jun-13            | Uncertain         | 3941 / 3941                           | 475.79 (Sep-15)    |
| 20.  | MP           | Niwari TPP / BLA Power Ltd./ BHEL - Siemens  | Apr-11    | U-2     | 45        | May-14            | Uncertain         | 232.49 / 250.49                       | 290.01 (Mar-15)    |
| 21.  | Odisha       | Ind Barath TPP (Odisha) / Ind Barath /BTG-Cethar Vessels                                 | May-09    | U-2     | 350       | Dec-11            | Stressed          | 3150 / 4001                           | 4254 (Apr-17)      |
| 22.  | Odisha       | KVK Nilanchal TPP/ KVK Nilanchal / BTG-Harbin China                                      | Nov-09    | U-1     | 350       | Dec-11            | Uncertain         | 4990 / 6000                           | 1708.36 (Mar-15)   |
|      |              |  |           | U-2     | 350       | Feb-12            | Uncertain         |                                       |                    |
|      |              |  |           | U-3     | 350       | Feb-12            | Uncertain         |                                       |                    |
| 23.  | Odisha       | Lanco Babandh TPP / LBP Ltd./ BTG-Chinese  | Nov-09    | U-1     | 660       | Apr-13            | Stressed          | 6930 / 10430                          | 7615 (Mar-17)      |
|      |              |  |           | U-2     | 660       | Aug-13            | Stressed          |                                       |                    |



| S.No                        | State  | Project Name / Impl. Agency/ EPC or BTG          | LOA Date/ | Unit No | Cap. (MW)       | Org. Comm. Sched. | Ant. Comm. Sched. | Original / Latest cost (in Rs.Crores) | Exp. In Rs.crores. |
|-----------------------------|--------|--|-----------|---------|-----------------|-------------------|-------------------|---------------------------------------|--------------------|
| 24.                         | Odisha | Malibrahmani TPP / MPCL/ BTG-BHEL                | Jun-10    | U-1     | 525             | Dec-12            | Uncertain         | 5093 / 6330                           | 5329.75 (Dec-14)   |
|                             |        |  |           | U-2     | 525             | Feb-13            | Uncertain         |                                       |                    |
| 25.                         | TN     | Tuticorin TPP (Ind-Barath) / IBPIL / BTG-Chinese | May-10    | U-1     | 660             | May-12            | 19-20             | 3595 / 3595                           | 2000 (May-15)      |
| 26.                         | TN     | Tuticorin TPP St-IV / SEPC/ EPC-MEIL (BTG-BHEL)  | Jan-14    | U-1     | 525             | Sep-18            | Dec-19            | 3514 / 3514                           | 2061.34 (Feb-19)   |
| 27.                         | WB     | Hiranmaye Energy TPP/ BTG-BHEL.                  | Sep-10    | U-3     | 150             | May-16            | *                 | 2656 / 3307                           | 3263.05 (Oct-17)   |
| <b>Total Private Sector</b> |        |  |           |         | <b>23775</b>    |                   |                   |                                       |                    |
| <b>Grand Total</b>          |        |  |           |         | <b>65041.15</b> |                   |                   |                                       |                    |

\* Presently work at site is on hold.

# **CENTRAL SECTOR**

**BROAD STATUS OF UNDER CONSTRUCTION CENTRAL SECTOR THERMAL POWER PROJECTS  
(NTPC Limited)**

| Sl. No.               | Project Details   | Cap. (MW)  | Commissioning Schedule |     |                              |               | Broad Status   |
|-----------------------|---|--|------------------------|-----|------------------------------|---------------|--|
|                       |   |  | Original               |     | Actual(A) / As now Expected  |               |  |
|                       |   |  | Syn. Com               | COD | Syn. Com                     | COD           |  |
| <b>Central Sector</b> |   |  |                        |     |                              |               |  |
| 1.                    | <b>Bongaigaon TPS, Distt: Kokrajhar, Assam NTPC Ltd</b> | <b>750</b>   |                        |     |                              |               | <b>Unit-1: COD achieved on 01.04.2016. Commissioned on 22.06.2015(A).</b>  |
|                       | U-1   | 250  | 11/10<br>01/11         | -   | 06/15(A)<br>22.06.2015(A)    | 01.04.2016(A) | <b>Boiler:</b> Boiler Erection started on 27/02/2009. Drum lifted on 25/01/2010. Hydro test done on 01/2011. BLU done on 29/11/14 & steam blowing completed on 01/04/15.   |
|                       | U-2   | 250  | 03/11<br>05/11         | -   | 02/17(A)<br>22.03.2017(A)    | 01.11.2017(A) | <b>TG:</b> Condenser erection started in 2/10. TG erection started in 03/11 & boxed up in 04/15.   |
|                       | U-3   | 250  | 07/11<br>09/11         | -   | 02.01.19(A)<br>10.02.2019(A) | 26./03/19(A)  |  |
|                       | Original / Latest cost                                  | : Rs. 437535 Lakhs/ Rs. 674918 Lakhs   |                        |     |                              |               | <b>Unit-2: COD achieved on 01.11.2017. Commissioned on 22.03.2017.</b>   |
|                       | Exp. During 2007-08                                     | : Rs. 23831 Lakhs  |                        |     |                              |               | <b>Boiler:</b> Boiler Erection started on 3/10 & Drum lifted in 10/10. Hydro test done in 04/12. BLU done on 27.03.16. Steam blowing completed in 11/16.   |
|                       | 2008-09   | : Rs. 16046 lakhs  |                        |     |                              |               | <b>TG:</b> TG erection started in 01/16. TG Box up completed in 11/16. TG oil flushing completed in 12/16. Synchronization achieved in 02/17.  |
|                       | 2009-10   | : Rs. 70913 lakhs  |                        |     |                              |               |  |
|                       | 2010-11   | : Rs. 56300 lakhs  |                        |     |                              |               |  |
|                       | 2011-12   | : Rs. 137610 Lakhs   |                        |     |                              |               |  |
|                       | 2012-13   | : Rs. 74900 Lakhs  |                        |     |                              |               |  |
|                       | 2013-14   | : Rs. 68500 Lakhs  |                        |     |                              |               |  |
|                       | 2014-15   | : Rs. 65700 Lakhs  |                        |     |                              |               |  |
|                       | 2015-16   | : Rs. 78700 Lakhs  |                        |     |                              |               |  |
|                       | 2016-17   | : Rs. 59100 Lakhs  |                        |     |                              |               |  |
|                       | 2017-18   | : Rs. 50600 Lakhs  |                        |     |                              |               |  |
|                       | 2018-19   | : Rs. 29952 Lakhs (1/19)   |                        |     |                              |               |  |
|                       | <b>Cumulative Exp.</b>                                  | <b>: Rs. 729948 lakhs(1/19)</b>  |                        |     |                              |               | <b>Unit-3: COD achieved on 26.03.2019. Trail run completed on 14.02.2019. Commissioned on 10.02.2019. Unit synchronized on 02.01.2019.</b>   |
|                       | Investment Approval                                     | : 30/01/2008   |                        |     |                              |               | <b>Boiler:</b> Boiler Erection started in 4/12. Boiler drum lifted on 25/02/13 & HT done on 21/03/14. BLU done in 07/2017. Steam Blowing is completed in 09/18. Coal firing done in 12/18.   |
|                       | Type of fuel  | : Coal   |                        |     |                              |               | <b>TG:</b> TG deck casting done in 03/16. TG erection started in 10/16. HP, IP module placed. TG boxed up in 03/18.  |
|                       | Investment Approval                                     | : 30/01/2008   |                        |     |                              |               |  |
|                       | Date of Main Plant Order                                | : 05/02/08, M/s BHEL   |                        |     |                              |               |  |
|                       | Power Evacuation:                                       | 1. 400KV BTPS(NTPC)-<br>Bongaigaon (PG) D/C Line<br>2. 220 KV BTPS(NTPC)-<br>Bongaigaon (Assam) D/C Line   |                        |     |                              |               | <b>Balance of Plant:</b><br><b>Chimney:</b> Completed.<br><b>CHP:</b> Order placed on M/s McNally Bharat in Jan'10. Both Trippers are ready and coal bunking conveyors commissioned.<br><b>AHP:</b> Dry ash system readiness by Mar'19.<br><b>CW:</b> CW pumps commissioned.<br><b>Cooling tower:</b> Ready<br><b>Ventilation System:</b> Package to be reawarded.<br><b>DM plant:</b> DM control room building civil work is in progress. |
|                       | <b>Coal Source and Transportation :</b>                 | 2/3 of required Coal will be transported from Margarita- Makuma mines of NECL (Upper Assam). Rest 1/3 will be supplied by ECL mines in Raniganj area of West Bengal. Coal will be transported using Railway wagons by BOBR.  |                        |     |                              |               | <b>FGD:</b> Awarded with SG Package to BHEL.<br><b>Resolution of Commercial issues between M/s BHEL and OEM of FGD M/s Ducon is awaited.</b>   |
|                       | Critical Areas  | Intermittent suspension of supplies of aggregates by local vendors, demand for exorbitant rates etc have affected the progress of work. Frequent work stoppage at site due labour unrest.  |                        |     |                              |               |  |
|                       | Reasons for Delay                                       | Inadequate deployment of work force by BHEL and its sub-agencies affected the progress of Unit-1. Law and order issues. Frequent bandhs leading to stoppage of work. Work has come to halt in Jul'12, May'14 & Dec'14 due to violence and mass exodus of labor from site. Poor performance of BOP/Civil contractors. . |                        |     |                              |               |  |
|                       |   | <i>Owing to poor performance of main plant civil agencies (SPML, Punjilloyd) their contracts were terminated on 25.11.13. Balance works of U-2&amp;3 awarded to NBCC on 29/09/14. NBCC finalized its sub agencies on 06/01/15 and construction works commenced in Feb'15 due to delay in mobilization by M/s NBCC.</i> |                        |     |                              |               |  |

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| Sl. No. | PROJECT DETAILS   | Cap (MW)   | Commissioning Schedule             |       |                             |       | Broad Status   |
|---------|---|--|------------------------------------|-------|-----------------------------|-------|--|
|         |   |  | Original                           |       | Actual(A) / As now Expected |       |  |
|         |   |  | Svn. com.                          | COD   | Svn. com.                   | COD   |  |
|         | Central Sector  |  |                                    |       |                             |       |  |
| 2.      | <b>Barh STPP St-I, Dist: Patna, Bihar (NTPC Ltd.)</b>                 | <b>1980</b>  |                                    |       |                             |       | <p><b>Unit-1:</b><br/> <b>Boiler:</b> Boiler erection started in 03/11. Boiler Hydro Test completed on 28.02.13. Boiler light up expected by 12/19.<br/> <b>Multiple tube leakage observed from super heater and re-heater action has been taken for replacement of material.</b><br/> <b>TG:</b> TG erection started in 08/11. TG Box up completed on 28/12/13. 1<sup>st</sup> stage of TG oil flushing completed and other works are in progress.</p> <p><b>Unit-2:</b><br/> <b>Boiler:</b> Boiler erection started in 07/11. Boiler Hydro Test expected by 01/20.<br/> <b>TG:</b> TG erection started in 09/11. TG Box up completed in 01/15. TG oil-flushing completion expected by 05/20.</p> <p><b>Unit-3:</b><br/> <b>Boiler:</b> Boiler erection started in 01/12. Boiler Hydro Test expected by 07/20.<br/> <b>TG:</b> TG erection started in 03/12. TG box-up expected by 09/20.</p> <p><b>Balance of Plant (BoP):</b><br/> <b>Chimney:</b> lining for FGD to be done to existing chimney before light up.<br/> <b>CHP:</b> Erection up to TP-4 completed. Beyond TP-4 erection is in progress. Track hopper &amp; MT system stream commissioned.<br/> <b>AHP:</b> Erection of ash water pumps, vacuum pumps, 3 Nos. FAE tower structures completed. Trench work, Ash slurry sump, BA line pedestal work in progress.<br/> <b>Ash dyke:</b> All works in Ash Dyke completed.<br/> <b>Cooling Tower:</b> Erection completed. Water charging done once, repair/replacement required.<br/> <b>PT Plant:</b> 2 clarifiers Ready<br/> <b>DM Plant:</b> Ready<br/> <b>CW System:</b> Erection nearly completed. 2nos Raw water pumps &amp; SACW pumps commissioned. 2nos CW pupmps trial taken.<br/> <b>Switchyard:</b> Ready</p> <p><b>FGD: FGD is awarded to BHEL on 18.09.18. Yet to mobilize. Basic Engg ordering in progress.</b></p> |
|         | U-1   | 660  | 03/09<br>08/09<br>05/17*<br>05/17* | 06/17 | 04/20<br>04/20              | 8/20  |  |
|         | U-2   | 660  | 01/10<br>06/10<br>11/17*<br>11/17* | 12/17 | 10/20<br>10/20              | 02/21 |  |
|         | U-3   | 660  | 11/10<br>04/11<br>05/18*<br>05/18* | 06/18 | 4/21<br>4/21                | 8/21  |  |
|         | (*Revised as per award of balance works of SG package dated 30.01.16) |  |                                    |       |                             |       |  |
|         | Original/Latest Cost  | : Rs869300/1509567 lakhs   |                                    |       |                             |       |  |
|         | Cum Exp. upto 2009  | : Rs 396710 lakhs  |                                    |       |                             |       |  |
|         | 2009-10   | : Rs 69539 lakhs   |                                    |       |                             |       |  |
|         | 2010-11   | : Rs 92200 lakhs   |                                    |       |                             |       |  |
|         | 2011-12   | : Rs 127200 lakhs  |                                    |       |                             |       |  |
|         | 2012-13   | : Rs 143300 lakhs  |                                    |       |                             |       |  |
|         | 2013-14   | : Rs 160100 lakhs  |                                    |       |                             |       |  |
|         | 2014-15   | : Rs 81100 lakhs   |                                    |       |                             |       |  |
|         | 2015-16   | : Rs 116700 lakhs  |                                    |       |                             |       |  |
|         | 2016-17   | : Rs 147400 lakhs  |                                    |       |                             |       |  |
|         | 2017-18   | : Rs. 139500 Lakhs   |                                    |       |                             |       |  |
|         | 2018-19   | : Rs. 98981 Lakhs (1/19)   |                                    |       |                             |       |  |
|         | Cumulative Exp  | : <b>Rs 1544110 lakhs</b> (up to (1/19)  |                                    |       |                             |       |  |
|         | Investment Approval   | : Feb'05   |                                    |       |                             |       |  |
|         | Sanctioning Authority   | : NTPC Board   |                                    |       |                             |       |  |
|         | Type of fuel  | : Coal   |                                    |       |                             |       |  |
|         | Date of Main Plant Order (BTG)  | : SG :03/2005 on M/s Technopromexport, Russia. (Terminated on 14.01.2015) # TG : 03/2005 on M/s Power Machines Russia  |                                    |       |                             |       |  |
|         | Zero Date   | : 14/03/2005   |                                    |       |                             |       |  |
|         | Power Evacuation  |  |                                    |       |                             |       |  |
|         | Critical Areas  | <p>Multiple failures of Boiler#1 Super heater and Re-heater tubes (DI 59 materials) for which action plan is under finalization for expeditious supply of new materials and restoration of Boiler to move forward. Readiness of railway line 250 km (Hazaribagh-Koderma-Tillaiya Rajaji-Bhaktiyarpur) is critical for transportation of coal. Project would face major coal supply constraints till this line is made operational. Following activities are critical for completion of the coal transportation route. NTPC funded Rs. 664 Crores to Railways for development of following works in envisaged coal transportation route. Construction of Karnauti-Bakhtiyarpur flyover with 3<sup>rd</sup> line and surface triangle. ROR portion work is suffering due to encroachment from villagers. Construction of ManpurFlyover (ROR)- Work is suffering in want of land acquisition (apprx 32 Hectares) from State Government. Electrification of Manpur-Tillaiya-Bakhtiyarpur section. Work progress is slow due to land issues faced by Railways. Out of this 250 Km route Koderma-Tillaiya stretch (65 km) is being constructed in three phases, Phase-II (25.2 Km to 49.5 Km from Tillaiya side) work has not yet started as it involves 330 Acres of Forest land in Bihar State and forest clearance for the same is pending. It is required for construction of New Broad Gauge Line from Koderma to Tillaiya.</p> <p><b>USA has imposed sanction on Power Machines, Russia on 26<sup>th</sup> Jan'18 which is a major issue for balance supply, erection &amp; commissioning of TG &amp; Aux package.</b></p> |                                    |       |                             |       |  |
|         | Reasons for Delay   | : Non-Performance by TPE (SG contract) & M/s PM.   |                                    |       |                             |       |  |

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| Sl. No.                  | PROJECT DETAILS   | Capacity (MW)   | Commissioning Schedule |                            |                             |   | Broad Status   |
|--------------------------|---|---|------------------------|----------------------------|-----------------------------|---|--|
|                          |   |   | Original               |                            | Actual(A) / As now Expected |   |  |
|                          |   |   | Syn. com.              | COD                        | Syn. com                    | COD   |  |
| 3.                       | <b>Central Sector</b><br><b>Nabinagar TPP, Dist: Aurangabad, Bihar [BRBCL-Bhartiya Rail Bijlee Co. Ltd. (JV of NTPC &amp; Indian Railways)]</b>   | <b>1000</b>   |                        |                            |                             |   | <b>Unit-1: COD declared on 15.01.2017. Commissioned on 20.03.2016.</b><br>Boiler: Boiler erection started in 05/11. Boiler drum lifted on 20/10/12. Boiler HT completed on 11.04.2014. BLU done in Mar'15. Chemical cleaning completed on 11.10.15. SBO completed in 01/16.<br>TG: Condenser erection started on 26.2.13. TG erection started in 01/14. TG Box-up done in 12/15. TG oil flushing completed in 12/15.   |
| U-1                      | 250   | 08/10*<br>10/10*<br>12/12**<br>02/13**  | 06/13                  | 03/16(A)<br>20.03.16(A)    | 15.01.17(A)                 | TG: Condenser erection started on 26.2.13. TG erection started in 01/14. TG Box-up done in 12/15. TG oil flushing completed in 12/15.   |  |
| U-2                      | 250   | 02/11*<br>04/11*<br>03/13**<br>05/13**  | 10/13                  | 03/17(A)<br>30.04.17(A)    | 10.09.17(A)                 | <b>Unit-2: COD declared on 10.09.2017; Commissioned on 03.04.2017(A).</b><br>Boiler: Boiler erection started in Dec'11. Boiler drum lifting completed on 21st Mar'13. Boiler HT completed in 02/15. BLU done in 10/16.<br>TG: TG deck casting completed in 04/15. Condenser erection started in 05/15. TG erection started in 10/15. TG box-up done in 02/17. |  |
| U-3                      | 250   | 08/11*<br>10/11*<br>06/13**<br>08/13**  | 02/14                  | 31.12.18(A)<br>23.01.19(A) | 26.02.19(A)                 | <b>Unit-3: COD Declared on 26.02.2019. Commissioned on 23.01.19. Unit Syn on 31.12.18</b><br>Boiler: Boiler erection started in 11/11. Boiler drum lifting completed on 10.06.13. Boiler hydro test done on 30.11.16. Trial run completed on 10.02.19.<br>TG: TG erection started in 06/16. TG box-up done in 3/18. TG Deck floating work started on 28/08/18 |  |
| U-4                      | 250   | 02/12*<br>04/12*<br>09/13**<br>11/13**<br>(* Org / ** Rev)  | 06/14                  | 07/19<br>08/19             | 10/19                       | <b>Unit-4:</b><br>Boiler: Boiler erection started in 12/12. Boiler drum lifting completed on 16.09.13.<br>TG: TG columns work in progress. TG erection started in 01/19.  |  |
| Original/Latest. Cost    |   | Rs 535251 /799800 lakhs   |                        |                            |                             |   | <b>Balance of Plant:</b>   |
| Exp. During              | 2007-08 : Rs 26319 lakhs<br>2008-09 : Rs 6837 lakhs<br>2009-10 : Rs 19617 lakhs<br>2010-11 : Rs 22680 lakhs<br>2011-12 : Rs 48713 lakhs<br>2012-13 : Rs109668 lakhs<br>2013-14 : Rs130068 lakhs<br>2014-15 : Rs 90604 lakhs<br>2015-16 : Rs 92777 lakhs<br>2016-17 : Rs 92409 lakhs<br>2017-18 : Rs 70571 lakhs<br>2018-19 : Rs 52069 lakhs (02/19) |   |                        |                            |                             |   | <ul style="list-style-type: none"> <li>• <b>Chimney:</b> Chimney-1(for U-1&amp;2) ready. Chimney #2 (for U-3&amp;4) shell casting completed. Flue can erection completed for U-3.</li> <li>• <b>CHP:</b> Coal feeding in progress at both 2A &amp; 2B Side. WT1 – Commissioned on 25.12.18. SR-2 Bal foundation civil work i/p.</li> <li>• <b>AHP (Indure):</b> AWP, Ash slurry Trench has been completed, Compressor house comm. U-3 BAH completed.Clinker grinder work is u/p.</li> <li>• <b>CW Pump house:</b> Forebay raft completed. Pumps (11 Nos) erection completed. CW Pump 5 &amp; 6 trial run taken on 24/08/18</li> <li>• <b>IDCTs:</b> Order placed in Sep'13. IDCT is FRP type. There are 20 cells in each IDCT. IDCT-1&amp;2 ready. IDCT-3 cells completedand fan trail taken.. IDCT-4 cells (08/20) in progress.</li> <li>• <b>PT palnt:</b> Completed in all respect.</li> <li>• <b>DM plant:</b> DM plamnt comm. DM lab building civil work is i/p. CW treatment is i/p.</li> <li>• <b>FOHS:</b> LDO tanks commissioned. HFO tank work isi/p.</li> </ul> |
| <b>Total Expenditure</b> |   | <b>Rs 764934 lakhs (02/19)</b>  |                        |                            |                             |   |  |
| Investment Approval      |   | January'2008.   |                        |                            |                             |   |  |
| Sanctioning Authority    |   | BRBCL board accorded investment approval  |                        |                            |                             |   |  |
| Type of fuel             |   | Coal ( Pachra and South Pachra blocks of North Karanpura Coalfields)  |                        |                            |                             |   |  |
| Fuel linkage             |   | : 5 MTPA (FSA signed on 29.08.13)   |                        |                            |                             |   |  |
| Date of Main Plant Order |   | : 23.01.2008 on M/s BHEL(BTG)   |                        |                            |                             |   |  |
| Zero Date                |   | : 01/01/2008  |                        |                            |                             |   |  |
| Power Evacuation         |   | : ATS work completed and is in charged condition.   |                        |                            |                             |   |  |
| Critical Areas           |   | Unit-2:SG Supplies, Poor mobilization by M/s ERA (main plant civil agency); Unit-3:Boiler erection, Land availability for ESP;Unit-4:Structural material to be expedited, Land availability for ESP;<br>Land acquisition issues :out of 1526.873 acres, 1392.628 acres is in physical possession) for makeup water corridor, railway siding & critical patches inside plant and ash dyke due to unwillingness of people to accept compensation; Frequent bandhs/Local agitation by villagers. <b>Land issues in Railway siding area resolved.</b> |                        |                            |                             |   |  |
| Reasons for Delay        |   | Delay in land acquisition, Civil Works, SG Supplies, Frequent bandhs/Local agitation by villagers   |                        |                            |                             |   |  |

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| Sl. No. | PROJECT DETAILS   | Capacity (MW)  | Commissioning Schedule |       |                         |       | Broad Status  |
|---------|---|--|------------------------|-------|-------------------------|-------|---|
|         |   |  | Original               |       | Actual(A) / Anticipated |       |   |
|         |   |  | Svn. com.              | COD   | Svn. com.               | COD   |   |
|         | <b>Central Sector</b>   |  |                        |       |                         |       |   |
| 4.      | <b>New Nabinagar STPP, Dist.: Aurangabad, Bihar [NPGCPL- Nabinagar Power Generating Co. Pvt. Ltd. (JV of NTPC &amp; BSPGCL)]</b>  | <b>1980</b>  |                        |       |                         |       | <p><b>Unit-1: Unit synchronized on 14.01.19.</b><br/> <b>Boiler:</b> Boiler erection started on 15th Jun'14 (delay: 05 months). Hydro test done in 12/16. BLU done in 07/17. Steam blowing completed on 27.12.17.<br/> <b>TG:</b> Condenser erection started in 09/15. TG erection started in 01/16. TG Box-up achieved in 12/16. TG oil flushing completed in 06/17. TG on barring gear on 14.09.17 .</p> <p><b>Unit-2:</b><br/> <b>Boiler:</b> Boiler erection started on 29.11.14. Hydro test completed. Boiler light up expected in 02/19.<br/> <b>TG:</b>TG raft casting completed. TG erection started in 12/16. TG boxed-up in 06/17.</p> <p><b>Unit-3:</b> Boiler erection started on 29.04.2015. Hydro test expected in 2/19.<br/> <b>TG:</b>TG erection started on 31.07.17. TG boxup completed in 06/18.</p> <p><b>BOPs:</b></p> <ul style="list-style-type: none"> <li>• <b>Chimney:</b> Chimney-1(Unit-1) &amp; Chimney-2 (Unit-2&amp;3) shell casting completed. Flue can erection completed for U-1, 2 &amp; 3.</li> <li>• <b>CHP:</b> Order has been placed on M/s TRF Ltd in March'13. Coal Transportation- 2nos NPGC Loco Trial Run from Warf Wall to R&amp;D and R&amp;D yard to Inside plant completed on 25.05.18<br/>Rail laying 6.5 km completed.<br/>Crusher house, Stacker cum reclaimers, Crusher house work has been completed. Wagon tippler work is u/p.</li> <li>• <b>AHP:</b> Fly Ash water pump house work completed. BASPH motors no load trial run completed. Bottom ash hopper U#2 column work in progress. HCS silo and other work is u/p.</li> <li>• <b>DM plant:</b> Order placed on M/s Thermax in Jan'14. All the three streams charged manually. Work for two streams completed for auto mpde.</li> <li>• <b>CW pump house:</b> CW pump 1,2,3&amp;4 load trial done. RWPH2/3PT pump comm. CWPh 2/2 mototrs trial done.</li> <li>• <b>IDCTs:</b> Order placed on M/s Fans. CT # 1A:- Motor trial run in progress CT # 1B:- commissioned. CT # 2A:- Piping work completed. Equip erection is i/p. CT # 2B:- Civil work completed. CT # 3A:-16 /16 Deck Slab completed. CT # 3B:-Column up to lev – 1,12 cells completed. CT # AUX: - Commissioning completed MCC-1/CR: Panel charged on 23.09.17 MCC-2&amp;3:- u/p.</li> <li>• <b>Switchyard:</b> 132kV line charged. 400kV switchyard charged. Power evacuation line(400kV) nabinagar-Gaya line charged</li> </ul> <p><b>FGD:</b> Under bulk tendering process by NTPC Ltd. BOD in June 2018.</p> |
|         | U-1   | 660  | 11/16<br>01/17         | 05/17 | 14/01/19(A)<br>03/19    | 03/19 |   |
|         | U-2   | 660  | 05/17<br>07/17         | 11/17 | =                       | 09/19 |   |
|         | U-3   | 660  | 11/17<br>01/18         | 05/18 | =                       | 08/20 |   |
|         | Orig.Cost/Latest Cost   | : Rs 13624.02 Cr/15131.67 Crores   |                        |       |                         |       |   |
|         | Exp. During 2008-09   | :Rs 10 lakhs   |                        |       |                         |       |   |
|         | 2009-10   | :Rs 22290 lakhs  |                        |       |                         |       |   |
|         | 2010-11   | :Rs 8300 lakhs   |                        |       |                         |       |   |
|         | 2011-12   | :Rs 38392 lakhs  |                        |       |                         |       |   |
|         | 2012-13   | :Rs 71117 lakhs  |                        |       |                         |       |   |
|         | 2013-14   | :Rs 36991 lakhs  |                        |       |                         |       |   |
|         | 2014-15   | :Rs 153432 lakhs   |                        |       |                         |       |   |
|         | 2015-16   | :Rs 269712 lakhs   |                        |       |                         |       |   |
|         | 2016-17   | :Rs 307000 lakhs   |                        |       |                         |       |   |
|         | 2017-18   | :Rs 226500 lakhs   |                        |       |                         |       |   |
|         | 2018-19   | Rs 125691 lakhs  |                        |       |                         |       |   |
|         | <b>Cum. Exp up to 03/18</b>   | <b>Rs 1259435 lakhs (12/18)</b>  |                        |       |                         |       |   |
|         | Investment Approval   | : 31.01.2013(Jan'13)   |                        |       |                         |       |   |
|         | Sanctioning Authority   | : NTPC Board   |                        |       |                         |       |   |
|         | Type of fuel/FSA  | : Coal. Coal linkage from CCL for 7.03Million Ton Per Annum. For commissioning coal 2 Lakh MT MOU has been signed. FSA will be signed after unit commissioning as per guideline. |                        |       |                         |       |   |
|         | <b>Zero Date</b>  | : 31.01.2013   |                        |       |                         |       |   |
|         | Date of Main Plant Order  | TG –M/s ALSTOM-Bharat Forge on 31.03.2013. SG-Awarded to M/s BHEL on 31.01.2013.   |                        |       |                         |       |   |
|         | Financial Closure   | loan from REC. Debt, equity ratio is 70:30. NOC from BSPCB received on 08.04.2011  |                        |       |                         |       |   |
|         | Main plant order  | Boiler erection agency: U-1&3 – Powermech and U-2 is Indwell.  |                        |       |                         |       |   |
|         | MOEF clearance received in Dec 2010. Mega status received in Apr'09.  |  |                        |       |                         |       |   |
|         | Power Purchase Agreement :- ( Bihar/BSEB:-1552.5 MW signed on 21.01.10, Jharkhand:- 60 MW signed on 01.12.10, Sikkim :-10 MW signed on 28.09.10, UP:-209 MW signed on 07.04.18, Un-Allocated - 148.5MW)   |  |                        |       |                         |       |   |
|         | Power Evacuation System: Being Executed by PGCIL. 400 kV One line from NPGC to GAYA is charged. Second line 400 kV NPGC to Patna - work under progress  |  |                        |       |                         |       |   |
|         | Coal Transportation- 2nos NPGC Loco Trial Run from Warf Wall to R&D and R&D yard to Inside plant completed on 25.05.18<br>Rail laying 6.5 km completed.<br>CHP:-<br>Crusher House:-04/04 crushers alignment, Floor casting Civil work & Structure Erection completed.<br>Conveyor Galley- 2A/B,3A/B,4A/B, 5A/B, 6A/B,7A/B structure erection completed.<br>Wagon Tippler:<br>WT3- Civil work completed. Mechanical erection in progress.Side arm charger erection completed.<br>WT 1-2- Apron feeder raft and slab (-10.5m) completed<br>TP-1 0Mtr floor Casting completed on 22.04.18<br>Track Hopper: - 0.0m slab for seg-9, 8, 7, 6, 5, 4&3 completed.<br>Hopper for Seg-8 & 9 completed |  |                        |       |                         |       |   |
|         | <b>Critical Areas</b>   | Land acquisition for MUW corridor ( 9.78 Acres), outfall drainage corridor (19.44 Acres) total 29.22 acres   |                        |       |                         |       |   |
|         | <b>Reasons for Delay</b>  | Acquisition of balance land and relocation of homestead owners still living inside the project area.   |                        |       |                         |       |   |

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| Sl. No. | PROJECT DETAILS   | Capacity (MW)   | Commissioning Schedule |       |   |            | Broad Status   |
|---------|---|---|------------------------|-------|---|------------|--|
|         |   |   | Original               |       | Actual(A) / As now Expected                 |            |  |
|         |   |   | Syn. com.              | COD   | Syn. com                                    | COD        |  |
|         | <b>Central Sector</b>                                     |   |                        |       |   |            |  |
| 5.      | <b>Lara STPP, Dist: Raigarh, Chhattisgarh (NTPC Ltd.)</b> | <b>1600</b>   |                        |       |   |            | <p><b>Unit-1: Unit commissioned on 22/03/18. Synchronized on oil on 09/09/17.</b><br/> <b>Boiler:</b> Boiler erection started on 23/12/13. Boiler Hydro test done on 12/15.BLU done in 01/17.SBO completion done in 05/17.<br/> <b>TG:</b> Condenser erection started on 29.05.2015 and TG erection started in 08/15.TG box-up done in 02/17. TG oil flushing completed in 07/17.<br/> <b>ESP:</b> 05 out of 06 passes of ESP erection completed.</p> <p><b>Unit-2:</b><br/> <b>Boiler:</b> Boiler erection started in 04/14. Boiler Hydro test done on 26/04/16. <b>BLU completed on 24.12.18.</b><br/> <b>ESP:</b> ESP structural erection completed. ESP hoppers erection completed in 3rd pass and hopper erection works are in progress in 4th pass.<br/> <b>TG:</b> Condenser erection started in 01/16. TG deck casting started on 26.05.16. TG erection started in 02/17. <b>TG Box-up expected in 02/19.</b><br/> <b>BOPs:</b><br/> <b>Chimney:</b> U#1&amp; U#2 flue can erection completed<br/> <b>CHP:</b> Both streams commissioned from TH to Bunker for U#1. Work for U#2 affected due to pending civil works in ERA. Stacker reclaim work in progress.<br/> <b>AHP:</b> Unit-1 system commissioned and ash discharged up to ash dyke. Erection of U#2 BAH, HCSD silo(balance 2 nos.), HCSD PH equipment, ASPH(3<sup>rd</sup> stream)erection is in progress. However, due to financial condition of agency, balance supplies for U#2 are critically delayed. Frequent stoppage of work by workers due to non payment of wages is affecting progress.<br/> <b>Ash dyke:</b> Order placed on M/s K N International in Dec'13. Ash dyke is located around 06 km from the plant. Ash slurry lines works from ash slurry pump house to ash dyke to be completed. Presently ash slurry lines pedestals work started. Excavation and bund raising works are in progress.<br/> <b>PT Plant:</b> Both streams are commissioned.<br/> <b>DM Plant:</b> Both streams for DM water generation are ready.<br/> <b>CWPs:</b> CW pump house is of open type in this project. U-1: Stream Commissioned, U-2: equipment erection is u/p.<br/> <b>IDCT:</b> Unit-1 circuit is commissioned &amp; unit-2 comm is in progress.<br/> <b>Switchyard:</b> U-1GT, ST charged. U-2 ST charged.</p> <p><b>FGD: FGD is awarded to L&amp;T on 31.07.18.work in progress.</b></p> |
|         | U-1   | 800   | 09/16<br>11/16         | 03/17 | 09/09/17(A)<br>22/03/18(A)<br>08/19<br>9/19 | -<br>03/20 |  |
|         | U-2   | 800   | 03/17<br>05/17         | 09/17 |   |            |  |
|         | Investment Approval                                       | 07.11.2012  |                        |       |   |            |  |
|         | Sanctioning Authority                                     | NTPC Board  |                        |       |   |            |  |
|         | Orig.Est. cost  | Rs 1184600 lakhs  |                        |       |   |            |  |
|         | Latest.Est. Cost  | Rs 1184600 lakhs  |                        |       |   |            |  |
|         | Exp.During 2011-12  | : Rs 28000 Lakhs  |                        |       |   |            |  |
|         | 2012-13   | : Rs 77300 Lakhs  |                        |       |   |            |  |
|         | 2013-14   | : Rs 53500 Lakhs.   |                        |       |   |            |  |
|         | 2014-15   | : Rs 214700 Lakhs.  |                        |       |   |            |  |
|         | 2015-16   | : Rs 238300 Lakhs   |                        |       |   |            |  |
|         | 2016-17   | : Rs 190000 Lakhs   |                        |       |   |            |  |
|         | 2017-18   | : Rs. 151200Lakhs   |                        |       |   |            |  |
|         | 2018-19   | : Rs 101599 Lakhs (01/19)   |                        |       |   |            |  |
|         | <b>Cum Exp</b>  | <b>: Rs 1079517 lakhs (up to 01/19)</b>   |                        |       |   |            |  |
|         | <b>Type of fuel</b>                                       | <b>: Coal</b>   |                        |       |   |            |  |
|         | Fuel linkage  |   |                        |       |   |            |  |
|         | Date of Main Plant Order (BTG)                            | SG- M/s Doosan, in Dec'12   |                        |       |   |            |  |
|         | Zero Date   | TG - M/s BGR Hitachi in Dec'12  |                        |       |   |            |  |
|         | Power Evacuation  | There are two nos. of D/c evacuation lines from Lara switchyard, each line is capable of evacuating around 1000 MW. One line is going to Champa and the other going to Kotra. Tower erection, stringing of one line near to the plant is completed and for the other line stringing is to be done.  |                        |       |   |            |  |
|         | <b>Critical Areas</b>                                     | Delay in completion of site priority infrastructures i.e. road & drain etc. and balance earthwork at water reservoir #2, in plant MGR area etc. State Govt. help (GoCG commitment given during PRAGATI Meeting held in Feb'16 for LA is May'2016: <b>Not attained</b> ) solicited in acquisition of Land for MGR route, balance left out land in Plant/Township area, MuW pipe corridor & pump house, Permanent approach road, Dolomite mining area in reservoir-II/ Ash Dyke etc. Balance payment to be disbursed where Sec-23 (award) is done and also award of balance 3 villages to be expedited. Tree cutting in Villages where approval received needs to be expedited. |                        |       |   |            |  |
|         | <b>Reasons for Delay</b>                                  | Slow progress of TG side civil works, Delay in supplies of Generator Transformer, supply of BFP discharge piping, Delay in land acquisition. Delay in TDBFP readiness for U-1, Delay in Boiler auxiliaries for U-2 BLU  |                        |       |   |            |  |

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| Sl. No.                  | PROJECT DETAILS  | Capacity (MW)   | Commissioning Schedule   |       |                              |       | Broad Status   |
|--------------------------|--|---|--|-------|------------------------------|-------|--|
|                          |  |   | Original   |       | Actual(A) / As now Expected  |       |  |
|                          |  |   | Svn. com.  | COD   | Svn. com                     | COD   |  |
| <b>Central Sector</b>    |  |   |  |       |                              |       |  |
| 6.                       | <b>North Karanpura STPP, Dist.Chatra, Jharkhand NTPC ltd</b>   | <b>1980</b>   |  |       |                              |       | <p><b>Unit-1:</b><br/><b>Boiler:</b> Boiler erection started in 04/16.<br/><b>TG:</b> TG erection started in 11/17. TG Boxup expected in 04/19.</p> <p><b>Unit-2:</b><br/><b>Boiler:</b> Boiler erection started in 07/16.<br/><b>TG:</b> TG erection started in 01/18. Boxup expected in 08/19</p> <p><b>Unit-3:</b><br/><b>Boiler:</b> Boiler erection started in 06/17.<br/><b>TG:</b> TG civil work started in 06/16.</p> <p><b>BOP:</b><br/><b>Chimney:</b> U-1 flue can erection in progress.<br/>U-2 beam erection in progress. U-3 chimney shell completed.<br/><b>CHP:</b> Civil &amp; Structural works under progress<br/><b>AHP:</b> Civil &amp; Structural works under progress<br/><b>PT/DM Plant:</b> Civil works on clarifier in progress. Tank foundations completed.<br/><b>Cooling Towers:</b> Supplies under progress.</p> <p><b>FGD: Awarded to BHEL on 31.07.18</b></p> |
|                          | <b>Unit-1</b>  | 660   | <u>12/17</u><br><u>02/18</u><br><u>02/19*</u><br><u>02/19*</u> | 04/19 | <u>03/20</u><br><u>05/20</u> | 9/20  |  |
|                          | <b>Unit-2</b>  | 660   | <u>06/18</u><br><u>08/18</u><br><u>08/19*</u><br><u>08/19*</u> | 10/19 | <u>09/20</u><br><u>11/20</u> | 03/21 |  |
|                          | <b>Unit-3</b>  | 660   | <u>12/18</u><br><u>02/19</u><br><u>02/20*</u><br><u>02/20*</u> | 04/20 | <u>03/21</u><br><u>05/21</u> | 09/21 |  |
|                          | * Revised Schedule.  |   |  |       |                              |       |  |
|                          | Original /Latest Cost  | : Rs 1436658 Lakhs  |  |       |                              |       |  |
|                          | Exped. during 2013-14  | : Rs. 153000 lakhs  |  |       |                              |       |  |
|                          | 2014-15  | : Rs. 52500 lakhs   |  |       |                              |       |  |
|                          | 2015-16  | : Rs 57300 lakhs  |  |       |                              |       |  |
|                          | 2016-17  | : Rs 220800 lakhs   |  |       |                              |       |  |
|                          | 2017-18  | : Rs 204200 Lakhs   |  |       |                              |       |  |
|                          | 2018-19  | : Rs. 123748 Lakhs ( 01/19)   |  |       |                              |       |  |
|                          | <b>Cumulative Exp</b>  | <b>: Rs. 815582 lakhs (up to 01/19)</b>   |  |       |                              |       |  |
|                          | Type of fuel   | : Coal  |  |       |                              |       |  |
|                          | Investment. approval   | Feb 2014  |  |       |                              |       |  |
|                          | Date of Main Plant Order   | EPC placed on BHEL (except external CHP, MUW system and Ash dyke) in <b>Feb'14</b> . Main plant civil works awarded on BHEL/Sunil Hitech.   |  |       |                              |       |  |
|                          | Amendment to EC issued by MOEF on 31.10.2014 for use of Air Cooled Condenser system (one ACC for each unit). |   |  |       |                              |       |  |
| <b>Critical Areas</b>    |  | Balance land acquisition (53.03 Acres), Lease transfer of 704 Acres of Govt. land, water system package, Switchyard transmission system by BHEL, ATS/Start up power, <b>No objection certificate from MoC is required for start of transmission line works for startup power readiness by Dec 2018.</b> |  |       |                              |       |  |
| <b>Reasons for Delay</b> |  | Delay in start of Civil works due to land acquisition issues. Delay in BHEL supplies related to boiler foundation. Delay in land handover by NTPC to BHEL due to change in main plant area location change in plot plan. Delay in award of ACC package by BHEL.   |  |       |                              |       |  |

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| Sl. No.                  | PROJECT DETAILS  | Capacity (MW)   | Commissioning Schedule |       |                             |             | Broad Status   |
|--------------------------|--|---|------------------------|-------|-----------------------------|-------------|--|
|                          |  |   | Original               |       | Actual(A) / As now Expected |             |  |
|                          |  |   | Syn. com.              | COD   | Syn. com                    | COD         |  |
|                          | <b>Central Sector</b>  |   |                        |       |                             |             |  |
| 7.                       | <b>Kudgi STPP ST-I, Dist: Bijapur, Karnataka, NTPC Ltd.</b>  | <b>2400</b>   |                        |       |                             |             | <p><b>Unit-1: COD achieved on 31.07.2017. Commissioned on 25.12.2016.</b><br/> <b>Boiler:</b> Boiler erection started on 04.05.13. Boiler hydro test done in 01/15. BLU done in 12/15. SBO completed on 12.06.16.<br/> <b>TG:</b> Condenser erection started in 02/14. TG erection started in Jun'14. TG box-up done on 24.04.2015. TG oil flushing started in Jun'15 and completed in 11/15. TG put on barring gear in 12/15.<br/> <b>Full Load achieved on 25.12.2016.</b></p> <p><b>Unit-2:COD achieved on 31.12.2017. Commissioned on 22.03.2017.</b><br/> <b>Boiler:</b> Boiler erection commenced on 20.08.13. Boiler hydro test done in 08/15. BLU done in 10/16.SBO completion achieved in 01/17.<br/> <b>TG:</b> Condenser erection started on 14.11.14.TG erection started in 03/15. TG box-up done in 01/16. TG oil flushing done in 11/16</p> <p><b>Unit-3: Commissioned on 12.03.2018. Synchronized in 08/17.</b><br/> <b>Boiler:</b> Boiler erection started in 09/13. Boiler Hydro test done in 03/16. BLU done in 04/17. SBO completed in 06/17. <b>Unit synchronized on oil on 22.08.17. Full load achieved on 12<sup>th</sup> March 18.</b><br/> <b>TG:</b> Condenser &amp; TG erection started in 09/15. TG box-up done in 01/17.TG oil Flushing done in 01/17.Turbine rolled.</p> <p><b>BOPs:</b><br/> <b>Chimney:</b> Chimney-1 (for unit-1) &amp; Chimney-2 (for unit-2&amp;3) Shell casting works completed.</p> <p><b>CHP:</b> The progress of CHP is slow. Only structural work of transfer points, conveyor galleries and crusher house etc. are in progress. Civil works have been started in WT4 &amp; WT5. Erection of mechanical equipment are yet to be started. Requirement for U#1 &amp; U#2 services completed and U#3 portion works in progress. M/s. Energo contract terminated in Oct 17.</p> <p><b>AHP:</b> Order placed on McNally Bharat in Aug'13. Ash Dyke package awarded to M/s Sunil Hitech in 09/15. Requirement for U#1 &amp; U#2 services completed and U#3 portion works in progress</p> <p><b>CW system:</b> Out of total 7 CW pumps, 2 CW pumps have been commissioned- to meet requirement of unit- 1. Another 2 pumps have been installed and their motors are available at site. Pump &amp; motors for last 3 CWP are available at site and these are yet to be installed.</p> <p><b>IDCTs:</b> Requirement for U#1 &amp; U#2 services completed and U#3: IDCT #3 B &amp; IDCT #3A charged.</p> <p><b>FGD: Not Awarded</b></p> |
|                          | U-1  | 800   | 09/15<br>12/15         | 04/16 | 12/16<br>25.12.16(A)        | 31.07.17(A) |  |
|                          | U-2  | 800   | 03/16<br>06/16         | 10/16 | 03/17<br>22.03.17(A)        | 31.12.17(A) |  |
|                          | U-3  | 800   | 09/16<br>12/16         | 04/17 | 08/17(A)<br>12.03.18(A)     | -           |  |
|                          | Orig.Est. cost   | : Rs 1516619 lakhs  |                        |       |                             |             |  |
|                          | Latest.Est. Cost   | : Rs 1516619 lakhs  |                        |       |                             |             |  |
|                          | Exp.During 2011-12   | : Rs 19200 lakhs  |                        |       |                             |             |  |
|                          | 2012-13  | : Rs 130400 lakhs   |                        |       |                             |             |  |
|                          | 2013-14  | : Rs 227700 Lakhs.  |                        |       |                             |             |  |
|                          | 2014-15  | : Rs 404700 Lakhs.  |                        |       |                             |             |  |
|                          | 2015-16  | : Rs 280000 Lakhs   |                        |       |                             |             |  |
|                          | 2016-17  | : Rs 256000 Lakhs   |                        |       |                             |             |  |
|                          | 2017-18  | : Rs. 209800 Lakhs (2/18)   |                        |       |                             |             |  |
|                          | <b>Cum Exp</b>   | <b>:Rs 1508600 lakhs(up to 2/18)</b>                                  |                        |       |                             |             |  |
|                          | Invest. Approval   | :Dec'2011.  |                        |       |                             |             |  |
|                          | Sanctioning Authority  | : NTPC Board  |                        |       |                             |             |  |
|                          | Type of fuel   | : Coal  |                        |       |                             |             |  |
|                          | Coal block   | Bhalumuda Captive coal block  |                        |       |                             |             |  |
|                          | Zero Date  | 25.01.2012  |                        |       |                             |             |  |
|                          | Date of Main Plant Order   | SG: Feb'12, M/s Doosan Heavy Ind., Korea<br>TG: Feb'12 on M/s Toshiba |                        |       |                             |             |  |
| <b>Critical Areas</b>    | Land acquisition for Railway siding, ash pipe corridor, raw water reservoir. Poor progress of main plant civil works<br>Readiness of railway siding.   |   |                        |       |                             |             |  |
| <b>Reasons for Delay</b> | Stoppage of work on account of NGT order-work stopped from 17.03.2014 to 01.04.2014. Work stoppage due to agitation against the project (05.07.2014 to 22.07.2014). Delay in award of SG civil works. Delay in TG erection start. Unrest and violent agitation in 07/14 with exodus of manpower. Delay in supply of generator stator of Unit #2 & 3 by M/s Toshiba. Supply of material against CHP-Energo, AHP- MBECL, ESP-L&T and FDPS & slow progress. |   |                        |       |                             |             |  |

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| Sl. No. | PROJECT DETAILS  | Capacity (MW)  | Commissioning Schedule |       |                             |                   | Broad Status   |
|---------|--|--|------------------------|-------|-----------------------------|-------------------|--|
|         |  |  | Original               |       | Actual(A) / As now Expected |                   |  |
|         |  |  | Syn. com.              | COD   | Syn. com                    | COD               |  |
|         | <b>Central Sector</b>  |  |                        |       |                             |                   |  |
| 8.      | <b>Solapur STPP,<br/>Dist: Solapur,<br/>Maharashtra, NTPC Ltd.</b> | <b>1320</b>  |                        |       |                             |                   | <p><b>Unit-1: COD achieved on 25.09.2017. Commissioned on 07.04.2017.</b><br/> <b>Boiler:</b> Boiler erection started on 07<sup>th</sup> May' 13. Boiler hydro test done in 12/15. BLU done on 21.08.16. SBO completed in 03/17.<br/> <b>TG:</b> TG erection started on 04.07.14. TG box-up completed in 07/15. TG oil flushing completed in 11/15.</p> <p><b>Unit-2: COD Declared on 02.04.2019. Trail run completed on 21.03.2019. Taken into capacity addition on 29.03.2019.</b><br/> <b>Boiler:</b> Boiler erection started on 29/09/13. Boiler hydro test completed in 09/18. <b>BLU done in 11/18. Steam blowing completed in 01/19.</b><br/> <b>TG:</b> TG erection started on 15<sup>th</sup> May' 15. TG Boxed-up in 08/16. TG oil flushing completed in 05/17. TG on barring gear since 05/17.</p> <p><b>BOPs:</b><br/> <b>Chimney:</b> Chimney shell casting completed. Flue can have erected for both the units.<br/> <b>CHP:</b> Priority area completed. Balance works in progress.<br/> <b>AHP:</b> Ash dyke Priority area completed. Balance work in progress. U-2 erection work i/p.<br/> <b>DM/PT Plant:</b> completed.<br/> <b>CW System:</b> Work completed.<br/> <b>IDCTs:</b> completed.<br/> <b>Switchyard:</b> 400&amp; 132kV line charged.</p> <p><b>FGD: FGD is awarded to GE on 31.07.18. Geotech investigation is completed. Civil drag submission i/p.</b></p> |
|         | U-1  | 660  | 03/16<br>05/16         | 07/16 | 03/17(A)<br>07.04.17(A)     | 25/09/17(A)       |  |
|         | U-2  | 660  | 09/16<br>11/16         | 01/17 | 02/19(A)<br>03/19(A)        | 03.04.2019<br>(A) |  |
|         | Investment Approval  | : <b>March'12</b>  |                        |       |                             |                   |  |
|         | Sanctioning Authority  | : NTPC Board   |                        |       |                             |                   |  |
|         | Orig.Est. cost   | : Rs939518 lakhs   |                        |       |                             |                   |  |
|         | Latest.Est. Cost   | : Rs 939518 lakhs  |                        |       |                             |                   |  |
|         | Exp.During 2011-12   | : Rs 9500 lakhs  |                        |       |                             |                   |  |
|         | 2012-13  | : Rs 114200 Lakhs  |                        |       |                             |                   |  |
|         | 2013-14  | : Rs 98300 Lakhs   |                        |       |                             |                   |  |
|         | 2014-15  | : Rs 212800 Lakhs  |                        |       |                             |                   |  |
|         | 2015-16  | : Rs 166800 Lakhs  |                        |       |                             |                   |  |
|         | 2016-17  | : Rs 132600 Lakhs  |                        |       |                             |                   |  |
|         | 2017-18  | : Rs. 92500Lakhs   |                        |       |                             |                   |  |
|         | 2018-19  | : Rs. 453161 Lakhs (1/19)  |                        |       |                             |                   |  |
|         | <b>Cum Exp</b>   | : <b>Rs 906968 Lakhs (upto (1/19))</b>   |                        |       |                             |                   |  |
|         | Type of fuel   | : Coal   |                        |       |                             |                   |  |
|         | <b>Date of Main Plant Order (BTG)</b>                              | <b>SG : 06.04.12 on M/s BGR Energy Systems Ltd – Hitachi</b>   |                        |       |                             |                   |  |
|         |  | <b>TG : 23.04.12 on M/s Alstom-Bharat Forge</b>  |                        |       |                             |                   |  |
|         | <b>Zero date</b>   | <b>19.03.2012</b>  |                        |       |                             |                   |  |
|         | Critical Areas   | Delay in Laying of Make Up Water Pipe line due to No Right of Use Act in Maharashtra. Delay in SG supplies by BGR-Hitachi and resource augmentation. Resources augmentation by M/s Indure, for CHP & AHP packages. Major damage in Pressure parts and support structure (9nos hdrs, buckstays, springs, etc) and delay in rectification and replacement by BGR. Rectification work started in May -17 but work progress is very slow. Expediting Supply of U#2 Boiler components & BOIs by BGR Energy- Systems Ltd. & Hitachi Power Europe, Supply of Structures & BOIs/SMIs by M/s. Indure for AHP and CHP Packages. Supply of FDA and inert gas nozzles & detectors by M/s Sureland for FDPS Package. Due to resistance from farmers, seeking higher compensation than as recommended by state revenue/agriculture deptt., the Completion of MUWPH 132 KV line is getting delayed. |                        |       |                             |                   |  |
|         | Reasons for Delay  | Delay in steam generator Engineering & supply by BGR due to non-settlement of QSGM between BGR and Hitachi. Delay in repair & replacement of damaged pressure parts due to accident.   |                        |       |                             |                   |  |

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| Sl. No. | PROJECT DETAILS  | Capacity (MW)  | Commissioning Schedule |       |                             |       | Broad Status |
|---------|--|--|------------------------|-------|-----------------------------|-------|--------------|
|         |  |  | Original               |       | Actual(A) / As now Expected |       |              |
|         |  |  | Syn. com.              | COD   | Syn. com                    | COD   |              |
|         | <b>Central Sector</b>  |  |                        |       |                             |       |              |
| 9.      | <b>Gadarwara STPP, St-I, Dist: Narsinghpur M.P NTPC Ltd.</b> | <b>1600</b>  |                        |       |                             |       |              |
|         | U-1  | 800  | 12/16<br>03/17         | 07/17 | 30/08/18(A)<br>13/10/18(A)  | 04/19 |              |
|         | U-2  | 800  | 06/17<br>09/17         | 01/18 | 06/19<br>08/19              | 03/20 |              |
|         | Investment Approval  | : 22.02.2013   |                        |       |                             |       |              |
|         | Sanctioning Authority  | : NTPC Board   |                        |       |                             |       |              |
|         | Orig.Est. cost   | : Rs 1163855 lakhs   |                        |       |                             |       |              |
|         | Latest.Est. Cost   | : Rs 1163855 lakhs.  |                        |       |                             |       |              |
|         | Exp.During 2012-13   | : Rs 65500 Lakhs   |                        |       |                             |       |              |
|         | 2013-14  | : Rs 46300 Lakhs   |                        |       |                             |       |              |
|         | 2014-15  | : Rs 161400 Lakhs  |                        |       |                             |       |              |
|         | 2015-16  | : Rs 274900 Lakhs  |                        |       |                             |       |              |
|         | 2016-17  | : Rs 198800 Lakhs  |                        |       |                             |       |              |
|         | 2017-18  | : Rs 155600 Lakhs  |                        |       |                             |       |              |
|         | 2018-19  | : Rs 162139 Lakhs (01/19)  |                        |       |                             |       |              |
|         | <b>Cumulative Exp</b>  | : <b>Rs 1068221 Lakhs( upto 01/19)</b>   |                        |       |                             |       |              |
|         | Type of fuel   | : Coal   |                        |       |                             |       |              |
|         | Fuel linkage   |  |                        |       |                             |       |              |
|         | Date of Main Plant Order (BTG)                               | in 03/2013 M/s BHEL, Main plant & offsite civil works order placed in 08/13.   |                        |       |                             |       |              |
|         | Zero Date  | 22.03.13   |                        |       |                             |       |              |
|         | <b>Critical Areas</b>  | Slow progress of Civil Agencyh (B&R) has delay release of fronts to Main Plant SG & TG erection, BoP Packages and completion of Site priority infrastructures, i.e. road & drain, Boundary wall etc. State Government's help is solicited in acquisition of balance Land for Railway line corridor and obtaining RoU for Make-up Water Pipe laying. Allocation of dedicated Coal block & supply of coal, Chandrabila coal block (Odisha) linked to Gadarwara Project was deallocated and new coal block allocation/coal linkage yet to be firmed by MoC. |                        |       |                             |       |              |
|         | <b>Reasons for Delay</b>                                     | Work stopped for 56 daysin 2014 due to agitation by villagers demanding additional compensation for already acquired land.<br>Land acquisition for railway line corridor, RoU for MuW pipeline laying.,  |                        |       |                             |       |              |

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| Sl. No. | PROJECT DETAILS                                       | Capacity (MW)   | Commissioning Schedule |       |                             |  | Broad Status |
|---------|---|---|------------------------|-------|-----------------------------|--|--------------|
|         |   |   | Original               |       | Actual(A) / As now Expected |  |              |
|         |   |   | Syn. (com.)            | COD   | Syn. (com)                  | COD  |              |
|         | <b>Central Sector</b>                                 |   |                        |       |                             |  |              |
| 10.     | <b>Khargone STPP, Dist.Khargone, M.P. (NTPC Ltd.)</b> | <b>1320</b>   |                        |       |                             |  |              |
|         | <b>Unit-1</b>   | 660   | <u>01/19</u><br>03/19  | 07/19 | <u>05/19</u><br>05/19       | 07/19  |              |
|         | <b>Unit-2</b>   | 660   | <u>07/19</u><br>09/19  | 01/20 | <u>07/19</u><br>09/19       | 01/20  |              |
|         | Original/Latest Cost                                  | Rs 987051/987051 lakhs  |                        |       |                             |  |              |
|         | Exp. During   | 2014-15 : Rs. 63400 lakhs<br>2015-16 : Rs. 90200 lakhs<br>2016-17 : Rs. 112400 lakhs<br>2017-18 : Rs. 243900 Lakhs<br>2018-19 : Rs 212455 Lakhs (01/19)   |                        |       |                             |  |              |
|         | <b>Cumulative Exp</b>                                 | <b>: Rs 720738 lakhs(up to 01/19)</b>   |                        |       |                             |  |              |
|         | Type of fuel  | : Coal  |                        |       |                             |  |              |
|         | Zero date   | 31.03.2015  |                        |       |                             |  |              |
|         | Date of Main Plant Order                              | EPC On L&T on 31.03.2015  |                        |       |                             |  |              |
|         |   |   |                        |       |                             | <p><b>Unit-1:</b><br/> <b>Boiler:</b> Boiler erection started in 04/16. Boiler Hydro test done on 24.6.18.BLU completed on 29.12.18<br/> <b>TG:</b> TG erection started in 06/17. TG Box-up done on 29.05.18. TG oil flushing completed on 27.01.19. Tg put on barring gear in 01/19.</p> <p><b>Unit-2:</b><br/> <b>Boiler:</b> Boiler erection to started in 09/16.Pressure part erection in progress. Boiler Hydro test completed on 30/ 09/18.<br/> <b>TG:</b> TG erection started in 12/17. TG Box-up done on 27.11.18.<br/> <b>ESP:</b> pass E air leak test successfully completed on 16.08.18. pass F air leak test successfully completed on 12.09.18.</p> <p><b>BOPs:</b><br/> <b>Chimney:</b> Shell completed and flue can erection in progress.<br/> <b>CHP:</b> M/s. L&amp;T. 8178/9386 MT completed. Wagon Tippler Equipment erection 902/950 MT completed.<br/> <b>AHP:</b> AHP structure 2162/3960 MT completed AHP equip. erection 629/1645 MT completed. work in u/p.<br/> <b>Cooling Tower:</b> IDCT-1- RCC Super structure-completed, IDCT-2- RCC super structure 7591/8179 MT completed.<br/> <b>PT plant:</b> Completed.<br/> <b>DM plant:</b> under progress.<br/> <b>Switchyard:</b> 400 kV GIS charged through LILO system on 06.07.18.</p> <p><b>FGD: Awarded to L&amp;T on 31.07.2018. Excavation of Chimney 1,2 and absorber started.</b></p> |              |
|         | <b>Critical Areas</b>                                 | Broad gauge work from Khandwa to Nimarkheri (Take off point for Railway siding) by Western railways. Disbursement of compensation amount to balance beneficiaries of RoW who are not accepting the compensation amount, for laying of 66KV transmission line from plant to make up water pump house location. |                        |       |                             |  |              |
|         | <b>Reasons for Delay</b>                              | ---   |                        |       |                             |  |              |

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| Sl. No. | PROJECT DETAILS  | Capacity (MW)  | Commissioning Schedule |       |                             |       | Broad Status   |
|---------|--|--|------------------------|-------|-----------------------------|-------|--|
|         |  |  | Original               |       | Actual(A) / As now Expected |       |  |
|         |  |  | Syn. (com.)            | COD   | Syn. (com)                  | COD   |  |
|         | Central Sector   |  |                        |       |                             |       |  |
| 11.     | Darlipalli STPP ST-I, Dist. Sundergarh, Odisha (NTPC Ltd.) | 1600   |                        |       |                             |       | <p><b>Unit-1:</b><br/> <b>Boiler:</b> Boiler erection started in 04/15. HT completed in 8/17. BLU completed in 11/18. Steam blowing completed in 02/19.</p> <p><b>TG:</b> Condenser erection started in 12/15. TG erection started in 05/16. TG box-up done in 11/17. TG oil flushing done in 11/18. TG put on barring gear on 12/18.</p> <p><b>ESP:</b> All passes completed.</p> <p><b>Unit-2:</b><br/> <b>Boiler:</b> Boiler erection started in 07/15. HT done in 03/18.</p> <p><b>TG:</b> Condenser erection started in 09/16. TG erection started in 03/17.</p> <p><b>ESP:</b> 5 passes are completed. Internal erection is in progress</p> <p><b>BOPs:</b></p> <p><b>Chimney:</b> raft completed.</p> <p><b>CHP:</b> Order placed on Tata projects in Feb'15. Civil work in Track hopper, Wagon tippler ,erection work in TPs, Crusher house stacker reclaimr in progress</p> <p><b>AHP:</b> Order placed on Indure in Oct'14. Structural work at bottom ash hopper, ASPH and AWP in progress. Supply from indure is pending.</p> <p><b>PT/DM Plant:</b> Order for water treatment plant placed on Triveni Engineering in Feb'15. One stream for DM water generation is ready.</p> <p><b>CWPs:</b> Order for CW equipment placed on Kirloskar Brothers Ltd in Oct'14. Equipment supplies done. work in progress.</p> <p><b>CT:</b> Order placed on L&amp;T, ECC in Dec'14. Unit 1 &amp; 2 Cooling tower work in progress.</p> <p><b>Switchyard:</b> 765kV one bay and 132kV switchyard charged for startup power.</p> <p><b>FGD:</b> FGD is awarded to L&amp;T on 18.09.18. site mobilisation being done.</p> |
|         | U-1  | 800  | 12/17<br>02/18         | 04/18 | 04/19<br>05/19              | 06/19 |  |
|         | U-2  | 800  | 04/18<br>06/18         | 08/18 | 11/19<br>12/19              | 02/20 |  |
|         | Investment. approval                                       |  |                        |       |                             |       |  |
|         | Orig. Est. cost  | Rs 1253244 lakhs   |                        |       |                             |       |  |
|         | Latest. Est. Cost  | Rs 1253244 lakhs.  |                        |       |                             |       |  |
|         | Exp. During 2013-14  | :Rs.95100 lakhs  |                        |       |                             |       |  |
|         | 2014-15  | :Rs145700 lakhs  |                        |       |                             |       |  |
|         | 2015-16  | :Rs141700 lakhs  |                        |       |                             |       |  |
|         | 2016-17  | :Rs 238400 lakhs   |                        |       |                             |       |  |
|         | 2017-18  | :Rs 210000 lakhs   |                        |       |                             |       |  |
|         | 2018-19  | :Rs 110509 lakhs (01/19)   |                        |       |                             |       |  |
|         | <b>Cumulative Exp</b>                                      | <b>:Rs. 860876 lakhs (up to 01/19)</b>   |                        |       |                             |       |  |
|         | MOEF clearance   |  |                        |       |                             |       |  |
|         | Type of fuel   | : Coal   |                        |       |                             |       |  |
|         | Date of Main Plant Order                                   | SG. awarded in 02/14 on M/s BHEL.<br>TG awarded in 02/14 on M/s Toshiba  |                        |       |                             |       |  |
|         |  |  |                        |       |                             |       |  |
|         | <b>Critical Areas</b>                                      | RoU for maker up water line & 132 KV transmission line corridor, balance land registration (132.45 Acres out of 2002.46 Acres) for Railway siding & outfall drain. |                        |       |                             |       |  |
|         | <b>Reasons for Delay</b>                                   | ---  |                        |       |                             |       |  |

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| Sl. No. | PROJECT DETAILS  | Capacity (MW)  | Commissioning Schedule       |       |                              |       | Broad Status  |
|---------|--|--|------------------------------|-------|------------------------------|-------|---|
|         |  |  | Original                     |       | Actual(A) / As now Expected  |       |   |
|         |  |  | Syn. com.                    | COD   | Syn. com                     | COD   |   |
|         | <b>Central Sector</b>  |  |                              |       |                              |       |   |
| 12.     | <b>Telangana TPP (Ph-I), Dist. Karim Nagar<br/>Telangana NTPC Ltd.</b> | <b>1600</b>  |                              |       |                              |       |   |
|         | <b>Unit-1</b>  | 800  | <u>10/19</u><br><u>01/20</u> | 05/20 | <u>06/20</u><br><u>07/20</u> | 08/20 | <b>Unit-1:</b><br><b>Boiler:</b> Boiler erection started in 12/17.8 <sup>th</sup> Tier erection in progress.  |
|         | <b>Unit-2</b>  | 800  | <u>05/20</u><br><u>07/20</u> | 11/20 | <u>12/20</u><br><u>01/21</u> | 02/21 | <b>TG:</b> Condenser erection started in 07/18. TG erection started in 08/18.<br><b>ESP:</b> erection in 6 passes in progress.  |
|         | Orig.Est. cost   | : Rs 1059900 lakhs   |                              |       |                              |       | <b>Unit-2:</b><br><b>Boiler:</b> Boiler erection started in 12/17.4 <sup>th</sup> Tier erection in progress<br><b>TG:</b> Condenser erection start expected in 02/19. TG erection start expected in 03/19<br><b>ESP:</b> erection in 6 passes in progress.<br><br><b>BOPs:</b><br>CHP: TPs and Coveyor foundation in progress<br>Chimney: shell completed upto 45 mtr.<br><br>CW duct encasement near Transformer Yard done, Balance CW duct civil and fabrication/erection works in progress.<br>Track hopper: Wall lift work in progress. WT#1,2 and 3 –Raft completed, Wall RCC works in progress. CT#1 footing casting in progress. WTP area-DM Tank & CW clarifier excavation RCC civil works in progress.<br><br>Ash Dyke: Protective bund and reservoir earth work in progress.<br><br><b>FGD: Awarded to M/s GE On04.01.18. Foundation work in u/p.</b> |
|         | Latest.Est. Cost   | : Rs 1059900 lakhs   |                              |       |                              |       |   |
|         | Exp. During 2015-16  | : Rs. 600 lakhs  |                              |       |                              |       |   |
|         | 2016-17  | : Rs 80700 lakhs   |                              |       |                              |       |   |
|         | 2017-18  | : Rs. 103500 lakhs   |                              |       |                              |       |   |
|         | 2018-19  | : Rs. 168533 lakhs <b>(01/19)</b>  |                              |       |                              |       |   |
|         | <b>Cumulative Exp</b>  | <b>: Rs. 355253 lakhs(up to 01/19)</b>   |                              |       |                              |       |   |
|         | Type of fuel   | Coal   |                              |       |                              |       |   |
|         | Date of Main Plant:  | SG on BHEL   |                              |       |                              |       |   |
|         | Order:   | TG on Alstom-Bharatforge on 05.02.16.  |                              |       |                              |       |   |
|         | Zero date  | 31.03.2015   |                              |       |                              |       |   |
|         | MOEF clearance   |  |                              |       |                              |       |   |
|         | <b>Critical Areas</b>  | During last CRM held with BHEL on 28/9/17, BHEL confirmed primary structure dispatch commences only from Dec 17. |                              |       |                              |       |   |
|         | <b>Reasons for Delay</b>   | Change in boiler design w.r.t. new environmental norms, Delay in BHEL supplies.                                  |                              |       |                              |       |   |

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| Sl. No. | PROJECT DETAILS  | Capacity (MW)  | Commissioning Schedule |       |                             |       | Broad Status   |
|---------|--|--|------------------------|-------|-----------------------------|-------|--|
|         |  |  | Original               |       | Actual(A) / As now Expected |       |  |
|         |  |  | Syn. com.              | COD   | Syn. com                    | COD   |  |
|         | <b>Central Sector</b>  |  |                        |       |                             |       |  |
| 13.     | <b>Meja STPP, Dist:Allahabad, U.P.[MUNPL- Meja Urja Nigam Pvt. Ltd. (JV of NTPC &amp; UPRVUNL)]</b>                      | <b>1320</b>  |                        |       |                             |       | <p><b>Unit-1: Commissioned on 31/03/18. Synchronised on 23/08/17.</b><br/> <b>Boiler:</b> Boiler erection started on 11<sup>th</sup> Jun'13. Boiler hydro test done on 27.05.16. BLU achieved in 03/17. SBO completed in 07/17.<br/> <b>TG:</b> TG erection started in 09/14. TG box-up done in 09/15. TG oil flushing completion done in 11/16.</p> <p><b>Unit-2:</b><br/> <b>Boiler:</b> Boiler erection started on 20.06.14 (Delay 06 months). All mill and bunker foundations completed.<br/> <b>TG:</b> TG Deck casting completed. Condenser erection started in 11/15. TG erection started on 30/01/18.<br/> <b>ESP: U #1-</b>All Pass ATT &amp; purge system piping done. Insulation &amp; cladding works for A,B &amp; C pass completed. 62/96 rectifier transformer filtration done. A,B pass field test charged. U#2- Erection commenced on 19.02.15</p> <p><b>BOPs:</b><br/> <b>Chimney:</b> Chimney shell concreting completed. Flue can erection &amp; Mini cell done completed, Outer platform RCC done. Painting works done. Wind stack fixing -6/39 done, Lift erected.<br/> <b>CHP:</b> Order placed on BHEL-ISG in Apr'12. Structure erection of TP-1,2,3,4,5,11 &amp; 12 completed and CRUSHER house in progress. WT-B: Flushing completed of WT-2<br/> WT-A: Oil flushing -Piping work i/p.<br/> <b>AHP:</b> Order placed on Techpro in 07/12. Ash Water P/H. Pumps foundations completed. Ash Slurry P/H- RCC &amp; Bricks works completed. Pumps foundations completed. Pump erection started. Ash disposal pipe laying in side plant- -Pipe Laying started in May'16 inside plant. 25 Km pipe supplied. Inside pipe laying done<br/> <b>CWPs:</b> Order placed on Flowmore in 12/14. Gantry commissioned. Two nos pump commissioned. 3rd Erection in progress.<br/> <b>IDCTs:</b> Order placed on Fans A S in May'12. Aux CT- 2/3 Fans commissioned. Balance One fan ready for commissioning. CT 1A: All 16 fans commissioned. CT 1B: 6/16 nos fan commissioned, Balance cabling works in progress. Civil works completed, fill erection done, motor &amp; gear box placed on fdns. Painting &amp; drift eliminators works compld. CT 2B: Civil works completed, Hot water pipe risers erection in progress. CT 2A: Civil works- All fan deck slab done &amp; 14/16 fan stack rcc completed.<br/> Railway siding: Order placed on M/s RITES. This work is split in to 07 no of packages and all packages are awarded. Further, works are in progress.<br/> <b>Switchyard:</b> Completed. Start up Power charged by Allahabad line-1 on 12.11.16</p> <p><b>FGD:</b> Bid opened and under evaluation.</p> |
|         | U-1  | 660  | 04/16<br>06/16         | 08/16 | 23/08/17(A)<br>31/3/18(A)   | -     |  |
|         | U-2  | 660  | 10/16<br>12/16         | 02/17 | 06/19<br>08/19              | 08/19 |  |
|         | Original/Latest Cost   | Rs 1082100 /1082100 lakhs  |                        |       |                             |       |  |
|         | Exp.During 2008-09   | Rs 5401 lakhs  |                        |       |                             |       |  |
|         | 2009-10  | Rs 4151 lakhs  |                        |       |                             |       |  |
|         | 2010-11  | Rs 6143 lakhs  |                        |       |                             |       |  |
|         | 2011-12  | Rs 6542 lakhs  |                        |       |                             |       |  |
|         | 2012-13  | Rs 86287 lakhs   |                        |       |                             |       |  |
|         | 2013-14  | Rs 56590 lakhs   |                        |       |                             |       |  |
|         | 2014-15  | Rs 162420 lakhs  |                        |       |                             |       |  |
|         | 2015-16  | Rs 180386 lakhs  |                        |       |                             |       |  |
|         | 2016-17  | Rs 71583 lakhs   |                        |       |                             |       |  |
|         | 2017-18  | Rs 200597 lakhs  |                        |       |                             |       |  |
|         | 2018-19  | Rs 555.15 lakhs  |                        |       |                             |       |  |
|         | Cumulative Exp.  | Rs 846400 lakhs (Up to 8/18)   |                        |       |                             |       |  |
|         | Type of fuel   | Coal   |                        |       |                             |       |  |
|         | Zero Date  | 30.04.2012   |                        |       |                             |       |  |
|         | Sanctioning Authority  | NTPC Board   |                        |       |                             |       |  |
|         | Date of Main Plant Order (BTG)   | SG: 30.04.12 on M/s BGR Energy Systems, Chennai.<br>TG: 01.05.12 on M/s Toshiba Corporation, Japan.  |                        |       |                             |       |  |
|         | MOE&F clearance available on 10.01.11. Environment Clearance for Project extended up to 31.03.2019 by MOEF on 30.08.2018 |  |                        |       |                             |       |  |
|         | <b>Critical Areas</b>  | Balance land for railway siding-Village Lehdi 22.12 acres for laying 1.8 km track & Other 0.75 KM in assorted patches in different villages. Various Clearances from Indian Railway and DFCIL to be taken by Rites at the earliest: ·Clearance from Railways for Connection of Meja Siding with IR Tracks at Meja and Unchdih. Approval of Girder Launching Scheme for ROR & Block for launching from Railways. Approval of General Arrangement Drawing (GAD) of Rail Over Rail Bridge (ROR) and ViaDuct from Railways. ·Approval of Girder Launching Scheme for ROR & Block for launching from Railways. Shifting of UPTCL and Power Grid Transmission lines 4 nos each 132/400 KV. |                        |       |                             |       |  |
|         | <b>Reasons for Delay</b>   | Delay in supply of boiler material by M/s BGR due to non-settlement of QSGM between BGR and Hitachi. Slow progress of main plant civil works.  |                        |       |                             |       |  |

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| Sl. No. | PROJECT DETAILS   | Capacity (MW)   | Commissioning Schedule |       |                             |       | Broad Status  |
|---------|---|---|------------------------|-------|-----------------------------|-------|---|
|         |   |   | Original               |       | Actual(A) / As now Expected |       |   |
|         |   |   | Syn. com.              | COD   | Syn. com                    | COD   |   |
|         | Central Sector  |   |                        |       |                             |       |   |
| 14      | Tanda-II STPP,<br>Dist. Ambedkar Nagar,<br>U.P. NTPC Ltd. | 1320  |                        |       |                             |       | <p><b>Unit-5:</b><br/><b>Boiler:</b> Boiler erection started in 12/15. Hydro test done on 20/04/18. BLU completed on 31.12.18</p> <p><b>TG:</b> Condenser erection started in 03/17. TG erection started in 07/17. TG Boxed up in 03/18. TG Oil flushing is completed in 09/18.</p> <p><b>ESP:</b> ESP is having 6 Passes; work is in progress for all passes</p> <p><b>Unit-6:</b><br/><b>Boiler:</b> Boiler erection started in 10/16. Hydro test completed on 18/01/19.</p> <p><b>TG:</b> TG erection started in 12/18. Condenser erection started in 10/18.</p> <p><b>ESP:</b> ESP is having 6 Passes; work is in progress for all passes</p> <p><b>BOPs:</b></p> <p><b>Chimney:</b> Order placed on GDCL in 02/15. Work is in progress.</p> <p><b>CHP:</b> Order placed on L&amp;T in 12/15. Piling works 1413/1413 completed. RCC under progress (14692/30048 Cum completed).</p> <p><b>AHP:</b> Order placed on L&amp;T in 03/16. Civil works under progress. Mech erection started in AWP.</p> <p><b>DM Plant:</b> Order placed on Driplex in 08/15. Civil and Mechanical work completed.</p> <p><b>CWPs:</b> Order for CW system equipment placed on KBL in Jun'15. erection of pumps is in progress.</p> <p><b>NDCTs:</b> Order placed on L&amp;T in 10/15. U-5 shell casting completed. Grillage column completed. U-6 Grillage column 1010/1567 lifts done.</p> <p><b>FGD:</b> FGD is awarded to GE on 21.09.18. Mobilisation is u/p.</p> |
|         | U-5   | 660   | 07/18<br>09/18         | 01/19 | 05/19<br>06/19              | 07/19 |   |
|         | U-6   | 660   | 01/19<br>03/19         | 07/19 | 01/20<br>02/20              | 03/20 |   |
|         | Original/Latest Cost                                      | : Rs 918898 /918898 lakhs.  |                        |       |                             |       |   |
|         | Exp. During 2013-14                                       | : Rs 28000 lakhs  |                        |       |                             |       |   |
|         | 2014-15   | : Rs.29800 lakhs  |                        |       |                             |       |   |
|         | 2015-16   | : Rs 64900 lakhs  |                        |       |                             |       |   |
|         | 2016-17   | : Rs 141300 lakhs   |                        |       |                             |       |   |
|         | 2017-18   | : Rs 167112 Lakhs   |                        |       |                             |       |   |
|         | 2018-19   | : Rs 116466 Lakhs (01/19)   |                        |       |                             |       |   |
|         | <b>Cumulative Exp</b>                                     | <b>: Rs 557288 lakhs (up to 01/19)</b>  |                        |       |                             |       |   |
|         | Type of fuel  | : Coal  |                        |       |                             |       |   |
|         | Investment. approval                                      | Sep 2014  |                        |       |                             |       |   |
|         | Date of Main Plant Order                                  | Boiler: L&T, TG: Alstom in Sep'14. MP civil works awarded to M/s GDCL in Feb'15.                |                        |       |                             |       |   |
|         | Critical Areas  | Tapering coal linkage, physical possession of balance abadi land in main plant & Ash dyke area. |                        |       |                             |       |   |
|         | Reasons for Delay   | Poor mobilization by civil agency, Delay in Engg. & Supply.                                     |                        |       |                             |       |   |

| Sl. No. | PROJECT DETAILS  | Capacity (MW)  | Commissioning Schedule |       |                             |     | Broad Status  |
|---------|--|--|------------------------|-------|-----------------------------|-----|---|
|         |  |  | Original               |       | Actual(A) / As now Expected |     |   |
|         |  |  | Svn. com.              | COD   | Svn. com                    | COD |   |
|         | Central Sector   |  |                        |       |                             |     |   |
| 15.     | PatratuTPS, Imp.Agency-PVUNL Dist: Jharkhand. (JV of NTPC & Govt. of Jharkhand)] | 2400   |                        |       |                             |     | <b>Unit-1:</b><br><b>Boiler:</b> Boiler,MILL Bunker and ESp Foundation work in progress.<br><b>TG:</b><br><b>Unit-2:</b><br><b>Boiler: Work yet ot be Start.</b><br><b>TG:.</b><br><br><b>BOPs:</b><br><b>Chimney:</b> Chimney#1Work started on20.07.18, Excavation Completed on11.09.08, PCC completed on 20.09.18.6 <sup>th</sup> segment casting completed.. Chimney#2 work started on 20.07.18. 370/810MT bar erection done.<br><br><b>CHP:</b><br><b>AHP:</b><br><b>CWPs:</b><br><b>IDCTs:</b><br><b>Switchyard:</b> Transmission line shifting work started on 14.09.18.<br><br><b>FGD:</b> order palced to BHEL on 08.03.18. Work is yet to start. |
|         | U-1  | 800  | 11/21<br>01/22         | 03/22 | -                           | -   |   |
|         | U-2  | 800  | 05/22<br>06/22         | 11/22 | -                           | -   |   |
|         | U-3  | 800  | 11/22<br>12/22         | 03/23 | -                           | -   |   |
|         | Original/Latest Cost   | Rs 1866800 / lakhs   |                        |       |                             |     |   |
|         | Exp.During 2017-18   | Rs 99211 lakhs   |                        |       |                             |     |   |
|         | Exp.During 2018-19   | Rs 48518 lakhs   |                        |       |                             |     |   |
|         | Cumulative Exp.  | Rs 147729 lakhs(11/18)   |                        |       |                             |     |   |
|         | Type of fuel   | Coal   |                        |       |                             |     |   |
|         | Zero Date  |  |                        |       |                             |     |   |
|         | Date of Main Plant Order (BTG)   | BTG and Main Plant Civil &BTG Awarded to BHEL on 08.03.18  |                        |       |                             |     |   |
|         | MOE&F clearance  |  |                        |       |                             |     |   |
|         | Critical Areas   | Shifting of Transmission line from Project Area, Acquisition of Balance land of 35Acre for ash dyke-2 and lease of 14.09acres of land<br>Early accordance of permanent township environment clearance y SEIAA<br>GR from JUSNL |                        |       |                             |     |   |
|         | Reasons for Delay  |  |                        |       |                             |     |   |

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| Sl. No. | PROJECT DETAILS                         | Capacity (MW)   | Commissioning Schedule |       |                             |       | Broad Status   |
|---------|---|---|------------------------|-------|-----------------------------|-------|--|
|         |   |   | Original               |       | Actual(A) / As now Expected |       |  |
|         |   |   | Syn. com.              | COD   | Syn. com.                   | COD   |  |
|         | <b>Central Sector</b>                   |   |                        |       |                             |       |  |
| 9.      | <b>Rourkela PP-II Expansion, Odisha</b> | <b>250</b>  |                        |       |                             |       | <p><b>Unit-1:</b><br/> <b>Boiler:</b> Boiler erection started on 30.03.17. Boiler drum lifted on 04.11.17. Hydro Test (drainable) done on 08.09.18.<br/> <b>ESP:</b> 2352/4000MT erection done. Pass A Hopper erection u/p. Pass B shock bar hawk bolting completed. Pass C suspension hangers for electrodes erection in progress. Pass D erection is u/p.<br/> <b>TG:</b> TG civil work started on 02.03.17. Condenser erection started on 28.12.17. TG erection started on 27.11.18.</p> <p><b>BOPs:</b><br/> <b>Chimney:</b> shell casting completed on 30.03.18. Beam erection is u/p.<br/> <b>CHP:</b> ERH-1 lift wall cast done and penthouse roof slab casted. Final lift wall cast hopper beam shuttering in progress. ERH-2 wall along with hopper casting completed. and penthouse roof slab casted. Crusher house erection is u/p.<br/> <b>AHP:</b> AHP control room, compressor house cum AWP roof slab cast on 29.12.18<br/> <b>PT Plant:</b> Preparatory work for starting civil work being done. Clarified water storage tank raft cast done.<br/> <b>DM Plant:</b> Main Foundation completed, erection of DM tank to start shortly.<br/> <b>CWPs:</b> CWPH feed pool wall final lift, Intermediate drop wall &amp; tie beam cast.</p> <p><b>IDCTs:</b> CT cell 1 to 5 bottom slab cast &amp; Cell 5 beam at curve level done.<br/> <b>Switch Yard: GIS control room and GIS building</b> Plinth beam casting completed.</p> <p><b>FGD:</b> Under tendering process. NIT done on 31.08.18. OBD(Tech) done on 04.12.18.</p> |
|         | U-1                                     | 250   | -<br>09/18             | 12/18 | -<br>09/19                  | 11/19 |  |
|         | Investment Approval                     | : 14.09.15  |                        |       |                             |       |  |
|         | Orig. Est. cost                         | : Rs 188513 lakhs   |                        |       |                             |       |  |
|         | Latest. Est. Cost                       | : Rs 188513 lakhs   |                        |       |                             |       |  |
|         | Exp. During                             | :   |                        |       |                             |       |  |
|         | 2016-17                                 | : Rs 23751 Lakhs  |                        |       |                             |       |  |
|         | 2017-18                                 | : Rs 51581 Lakhs  |                        |       |                             |       |  |
|         | 2018-19                                 | : Rs 447.39 Lakhs (03/19)   |                        |       |                             |       |  |
|         | <b>Cumulative Exp</b>                   | : <b>Rs 1200.71 Lakhs (upto 03/19)</b>  |                        |       |                             |       |  |
|         | Type of fuel                            | : Coal  |                        |       |                             |       |  |
|         | Fuel linkage                            | Applied on 14.05.18 under Shakti Scheme   |                        |       |                             |       |  |
|         | Date of Main Plant Order (BTG)          | BTG and EPC contracted to M/s BHEL including offsite civil works, order placed on 11.05.16  |                        |       |                             |       |  |
|         | <b>Critical Areas</b>                   | Project taken up with supply of 1.42 MTPA coal from their Ramnagore Colliery (SAIL's letter dated 29.08.13). However, on 17.04.18, SAIL informed that Ramnagore Colliery shall be delayed and requested NSPCL for making alternative arrangements for supply of coal to Rourkela PP-II Expansion (1x250 MW) Project. Applied on 14.05.18 under SHAKTI scheme and the same has been recommended by CEA to MOP. Coal linkage is critical for the Project. |                        |       |                             |       |  |
|         | <b>Reasons for Delay</b>                |   |                        |       |                             |       |  |

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| Sl. No.                  | Project Details  | Capacity (MW)  | Commissioning Schedule |       |                        |       | Broad Status   |
|--------------------------|--|--|------------------------|-------|------------------------|-------|--|
|                          |  |  | Original               |       | Actual(A)/ As Expected |       |  |
|                          |  |  | Syn. Comm              | COD   | Syn. Comm              | COD   |  |
| <b>Central Sector</b>    |  |  |                        |       |                        |       |  |
| 1                        | <b>Neyveli New TPP<br/>M/s Neyveli Lignite Corporation Ltd. at Neyveli in Tamil Nadu</b>   | 1000   |                        |       |                        |       | <ul style="list-style-type: none"> <li>• <b>Boiler</b> (M/s BHEL) U-1 Erection commenced on 07/03/16. HT done in 08/18. ESP, Duct and ID fans erection work in progress.</li> <li>• <b>TG &amp; Condenser:</b> Steam Generator &amp; Auxiliaries: Unit-I First time Synchronised to 400KV grid on 28.03.2019 after Generator Electrical testing activities. Mill Commissioning works are in full swing.</li> <li>• For Unit-2: Steam Generator Auxiliaries: Air and flue gas duct erection nearing completion. preparation works for Light-up activities are under progress.</li> <li>• Turbo Generator : TG deck floating is under progress. Turbine insulation work completed. Control fluid tank oil filling is under progress.</li> <li>• TG Auxiliaries :TDBFP- 2A Deck floating completed. TDBFB-2B - oil flushing under progress. ACW system being commissioned.</li> <li>• <b>Boiler U-2</b> Erection commenced on 28/03/16. HT done in 11/18 ESP, Duct and ID fans erection work in progress.</li> <li>• <b>TG &amp; Condenser:</b> TG erection started on 24.03.16. TG Box-up completed on 30.06.17</li> </ul> <p><b>BOPs</b></p> <ul style="list-style-type: none"> <li>• <b>Chimney:</b> Initial Operation completed and in service.</li> <li>• <b>LHP:</b> Unit-I four nos of bunkers filled with lignite through stream-B. Stream-A - Conveyor erection works are nearing completion.</li> <li>• Unit-2: Stream-B - Conveyor erection works are completed and Trial run taken on 18.03.2019.</li> <li>• <b>AHP:</b> All the equipments in AHS is commissioned. Except ISH-IE mobile belt conveyor erection for which of front not available.</li> <li>• Unit-2: Mechanical and Civil works are nearing completion.</li> <li>• <b>RO/DM plant:</b> Awarded to M/s EPIL on 30/04/14. Initial Operation completed and Plant in service.</li> <li>• <b>CW System:</b> Awarded to M/s EPIL on 30/04/14 and further to M/s KBL on 20/01/15. CWP: CWP -IA &amp; IB- pumps Initial Operation completed and Pump in service.</li> <li>• For unit-2: Both CWP 2A &amp; 2B taken into service.</li> <li>• <b>Cooling Tower:</b> Initial Operation completed and in service.</li> <li>• <b>FO System:</b> Awarded to M/s BHEL on 31/10/13, civil work completed. Erecting HFO tank 1 &amp; 2 and LDO tank 1 &amp; 2 completed. Supply &amp; erection of LDO &amp; HFO pumps completed.</li> <li>• <b>Switchyard:</b> 220kV GIS : 220kV GIS permanently charged.</li> <li>• 400kV GIS: 400KV GIS permanently charged on 13.02.19. Civil works: Area Paving and drain works are in progress.</li> <li>• <b>FGD :</b> First cover open on 26.02.2019. QR short listing under progress.</li> </ul> |
|                          | U-1  | 500  | 07/17<br>09/17         | 10/17 | 28.03.2019(A)<br>05/19 | 05/19 |  |
|                          | U-2  | 500  | 01/18<br>03/18         | 04/18 | 06/19<br>06/19         | 07/19 |  |
|                          | Original Estd. Cost  | : Rs. 590711 Lakh  |                        |       |                        |       |  |
|                          | Latest Est. Cost   | : Rs. 708041 Lakh  |                        |       |                        |       |  |
|                          | Expenditure during 2011-12   | : Rs. 1447.15 Lakh   |                        |       |                        |       |  |
|                          | 2012-13  | : Rs. 1353.19 Lakh   |                        |       |                        |       |  |
|                          | 2013-14  | : Rs. 3114.26 Lakh   |                        |       |                        |       |  |
|                          | 2014-15  | : Rs. 44560.23 Lakh  |                        |       |                        |       |  |
|                          | 2015-16  | : Rs. 102862.06 Lakh   |                        |       |                        |       |  |
|                          | 2016-17  | : Rs. 193335.14 Lakh   |                        |       |                        |       |  |
|                          | 2017-18  | : Rs. 109936.54 Lakh   |                        |       |                        |       |  |
|                          | 2018-19  | : Rs. 73995.44 Lakh ( 3/19)]   |                        |       |                        |       |  |
|                          | <b>Total Expenditure</b>   | : Rs. 558604.01 Lakh (up to 3/19)  |                        |       |                        |       |  |
|                          | <b>Approval date:</b>  |  |                        |       |                        |       |  |
|                          | <b>Zero date:</b>  | : 09/06/11   |                        |       |                        |       |  |
|                          | <b>Financial closure</b>   |  |                        |       |                        |       |  |
|                          | <b>Main Plant Order</b>  | : Main Plant Order (EPC) issued to M/s BHEL on for SG & Auxiliaries on 31/10/13 and TG & Auxiliaries on 23/12/13.  |                        |       |                        |       |  |
|                          | <b>BOP Package</b>   | : Awarded to M/s EPIL on 30/04/2014.   |                        |       |                        |       |  |
|                          | <b>Type of fuel</b>  | : Lignite from NLC mine 1 & 1A   |                        |       |                        |       |  |
|                          | <b>PPA</b>   | : PPA signed for 25 years with AP- 52.46 MW, Telangana – 61.31 MW, Karnataka 70.54 MW, Kerala 32.38 MW, Tamil Nadu 653.07 MW, Puducherry 4.24 MW, NLC – 66.00 MW and Un allocated power – 60.00 MW.  |                        |       |                        |       |  |
|                          | <b>Power Evacuation system</b>   | For power evacuation and drawing of start-up power, 400kV and 220kV switchyard would be provided. Each of the 500 MW units would be connected to the 400kV switchyard. The power generated at the plant would be evacuated through a 400kV system. Start-up power would be drawn from the 220kV switchyard.<br>The generator transformers of 500MW units would step up generator voltages to the switchyard voltage of 400kV. One and Half Breaker scheme is proposed for 400kV and 220kV switchyard. These schemes are reliable and provide flexibility in operation. |                        |       |                        |       |  |
|                          | <ul style="list-style-type: none"> <li>• <b>Coal Linkage/FSA:</b> Lignite from the NLC Mine 1 &amp; 1A.</li> <li>• <b>Land possession:</b> 160 Hectares Owned by NLC</li> <li>• <b>Water allocation:</b> Existing TS 1 lake and erstwhile Fertilizer lake of NLC Ltd.,</li> <li>• <b>MOE&amp;F:</b> Clearances obtained on 21/10/2010 and extended up to 20/10/2017, clearance further extended upto 20.10.19.</li> <li>• <b>CPCB:</b> Clearances obtained and valid up to 31/03/2018.</li> <li>• <b>SPCB:</b> Approval up to 31.03.2019 has been obtained and further CTO process initiated.</li> <li>• <b>Civil Aviation:</b> Obtained from AAI on 25.11.2009 valid for 7 years. Extension obtained upto 25.11.2021</li> </ul> |  |                        |       |                        |       |  |
| <b>Critical issues</b>   |  |  |                        |       |                        |       |  |
| <b>Reasons for Delay</b> |  | Delayed due to change in design of foundations(depth) of main plant area and finalisation of civil contractors. Initial delay in supply of Boiler Material and inadequate resource mobilization and new technology(Boiler) being used first time in India.   |                        |       |                        |       |  |

Sb-16.04.2019

| Sl. No.   | PROJECT DETAILS  | Capacity (MW)                      | Commissioning Schedule |       |                                  |       | Broad Status  |
|---|--|------------------------------------|------------------------|-------|----------------------------------|-------|---|
|   |  |                                    | Original               |       | Actual (A) / As now Anticipated. |       |   |
|   |  |                                    | Svn. Comm              | COD   | Svn. Comm                        | COD   |   |
| 2   | <b>Ghatampur TPP<br/>JV of NLC &amp; UPRVUNL<br/>(Lahurimau village,<br/>Ghatampur, Kanpur), U.P.</b>  | 1980                               |                        |       |                                  |       | <p><b>Unit-I:</b><br/><b>Boiler: Boiler &amp; Auxiliaries- Civil &amp; structural work</b><br/>1. Unit -1:<br/>Boiler #1 : Roof Structure erection under progress &amp; 06/13 nos Silencer erection completed. 15265 MT erection completed. Coal Silo hopper fabrication &amp; welding work under progress. SS liner fit-up &amp; plug welding completed in Part-I of Bunker Hopper A, B,C,D,E,F,G &amp; H.<br/><b>TG</b> Unit#1: Main Power House structural erection in progress. 3986 MT erected. Errection Work is in progress. ESP-1: Structural erection in progress. 1265 MT erection completed. Control building Lintel beam completed. First floor slab completed. 1 no. 200 MT EOT Crane (capacity-200 MT) commissioned</p> <p>Unit-2:<br/>Boiler erection is in progress 7928 MT erected. 316 nos Pressure Parts joints welding works completed.<br/><b>TG</b> : All rafts completed. TG Deck#1 Casting completed. ESP-2 Structure erection works in progress. 304 MT erected. 2<sup>nd</sup> no. EOT crane erection completed &amp; Commissioning work in progress.</p> <p>Unit-3:<br/>Boiler- Mechanical Erection under progress. 3135 MT erection completed.<br/><b>TG</b> : -3<sup>rd</sup> lift pedestal under progress.TG Auxiliary columns erection works under progress.</p> <p><b>BOP (GA3 Package)</b><br/><b>Chimney:</b> 26.8 m out of 275m height completed.<br/><b>Coal handling Plant:</b> Wagon Tippler, Track Hopper, Crusher House, Stacker reclaimers, JT 1 to 12 &amp; Emergency Reclaimer works are in progress.<br/><b>Ash handling Plant:</b> Ash Silo and Ash dyke civil works are in progress.<br/><b>CW System:</b> CW Pump House (CWPH) and CW channel RCC works in progress.<br/><b>Switchyard:</b><br/>-132 KV GIS Building: Finishing work in progress.<br/>- 132 KV Switchyard take off &amp; Bus tower raft &amp; Pedestal completed. Other outdoor equipment foundation work in progress.<br/>- 400 KV GIS Building – 1<sup>st</sup> Lintel beam completed and cable trench work under progress and Take off tower -3/3 nos. raft completed and 2<sup>nd</sup> lift of pedesatal is in progress.<br/>- 765 KV GIS Building –works up to up to plinth level completed. Backfilling works under progress. Tie beam work in progress.<br/>- ICT &amp; Reactor Foundation rafts completed and 11 nos. pedestal/column up to plinth level completed. Fire wall works under progress. Backfilling works under progress.<br/><b>Cooling Towers:</b> NDCT # 1,2,3 Civil works are under progress</p> <p><b>FGD: (GA4 Package) :</b> Tendering under progress.</p> |
|   | U-1  | 660                                | 03/20<br>04/20         | 11/20 | 08/20<br>9/20                    | 11/20 |   |
|   | U-2  | 660                                | 09/20<br>10/20         | 05/21 | 02/21<br>03/21                   | 05/21 |   |
|   | U-3  | 660                                | 03/21<br>04/21         | 11/21 | 08/21<br>09/21                   | 12/21 |   |
|   | Original/Latest Est. Cost  | : Rs.1723780 lakhs                 |                        |       |                                  |       |   |
|   | Exp. During 2012-13  | :Rs.13838 Lakhs                    |                        |       |                                  |       |   |
|   | 2013-14  | :Rs.580 Lakhs                      |                        |       |                                  |       |   |
|   | 2014-15  | :Rs.3978.08 Lakhs                  |                        |       |                                  |       |   |
|   | 2015-16  | :Rs.(-)528.76 Lakhs                |                        |       |                                  |       |   |
|   | 2016-17  | :Rs.73580.84 Lakhs                 |                        |       |                                  |       |   |
|   | 2017-18  | :Rs. 90950.32 Lakhs                |                        |       |                                  |       |   |
|   | Cumulative Exp   | : Rs. 425666.94 Lakhs(up to 02/19) |                        |       |                                  |       |   |
|   | Type of fuel   | : Coal                             |                        |       |                                  |       |   |
|   | Date of Financial Closure  | : Declared on 31.12.2017           |                        |       |                                  |       |   |
|   | Date of clearance by the board of NUPPL  | : 15.10.2016                       |                        |       |                                  |       |   |
| Date of Main Plant Order/BoPs   | : Order for Gen. Auxiliaries (1) placed on MHPS Boilers Pvt. Ltd. on 02.08.16<br>Order for Gen. Auxiliaries (2) placed on M/s. Alstom Bharat Forge Power Ltd. on 02.08.16            |                                    |                        |       |                                  |       |   |
| Zero date   | : 02.08.2016   |                                    |                        |       |                                  |       |   |
| PPA   | : Signed with UP Govt. on 31.12..2010  |                                    |                        |       |                                  |       |   |
| Fuel Linkage  | : Govt. of India allocated Pachwara South Coal Block, Jharkhand to NUPPL for fuel. But due to Law & Order problem, MoU signed with MSTC for imported Coal on 04.02.2015.             |                                    |                        |       |                                  |       |   |
| Power Evacuation System   | CEA in its 36 <sup>th</sup> Standing Committee meeting held on 13.07.2015 at New Delhi, has agreed for power evacuation system of Ghatampur Thermal Power Station proposed by UPPTCL |                                    |                        |       |                                  |       |   |
| <p><b>MoEF:</b> MoEF issued Environmental clearance to NUPPL on 17.06.2015<br/><b>Land:</b> Entire Land of 828 Hectares has been acquired and taken physical possession on 27.11.2016</p> |  |                                    |                        |       |                                  |       |   |
| <b>Critical issues</b>  |  |                                    |                        |       |                                  |       |   |
| <b>Reasons for Delay</b>  |  |                                    |                        |       |                                  |       |   |

| Sl. No                | PROJECT DETAILS                                       | Unit   | Capacity (MW) | Commissioning Schedule |                |                          |       | Broad Status  |
|-----------------------|---|--|---------------|------------------------|----------------|--------------------------|-------|---|
|                       |   |  |               | Original               |                | Actual (A) / As Expected |       |   |
|                       |   |  |               | Syn. Comm              | COD            | Syn. Comm                | COD   |   |
| <b>Central Sector</b> |   |  |               |                        |                |                          |       |   |
| 1                     | <b>Barsingsar TPP ext (Distt. Bikaner ) ( 250 MW)</b> | U-1  | 250           | 05/20                  | 08/20<br>08/20 | 05/20<br>08/20           | 08/20 | <ul style="list-style-type: none"> <li>Detailed engineering work and vendor' approval is in progress</li> <li>R-infra has established their site office at BTPSE.</li> <li>The package activities at BTPSE are yet to start.</li> <li>Soil investigation work was completed.</li> </ul> <p><b>Project activities are under hold from 02/06/2017 due to withdrawl of PPA by DISCOMS.</b></p> |
|                       | Estimated cost  | : Rs. 211259 Lakhs   |               |                        |                |                          |       |   |
|                       | Exp. During 2017-18                                   | Rs. 15470 Lakhs  |               |                        |                |                          |       |   |
|                       | Exp. During 2018-19                                   | Rs. 367.24 Lakhs   |               |                        |                |                          |       |   |
|                       | Exp. During 2019-20                                   | Rs. Lakhs  |               |                        |                |                          |       |   |
|                       | Total Exp   | Rs. 15837.24 Lakhs (up to 03/19.)  |               |                        |                |                          |       |   |
|                       | Zero Date of Project                                  | : 21/11/2016   |               |                        |                |                          |       |   |
|                       | Financial Closure                                     | Under progress   |               |                        |                |                          |       |   |
|                       | Main Plant order Date                                 | EPC contract to M/s Reliance Infra..   |               |                        |                |                          |       |   |
|                       | <b>Type of Fuel</b>                                   | Lignite  |               |                        |                |                          |       |   |
|                       | <b>Fuel linkage</b>                                   | Halda Lignite Mine 1.90 MTA  |               |                        |                |                          |       |   |
|                       | <b>PPA</b>  | Signed with GoR on 31/12/2010  |               |                        |                |                          |       |   |
|                       | <b>Power evacuation system</b>                        | Through two No. S/C 220 kV transmission lines viz (i) BTPSE- Gajner (ii) BTPSE-Bikaner, to be executed by RVPNL  |               |                        |                |                          |       |   |
|                       | <b>Water:</b>   | Water supply agreement signed on 08/10/03 b/w Indira Gandhi Nahar Pariyojna, GoR and NLC   |               |                        |                |                          |       |   |
|                       | <b>Land:</b>  | Land is in procession of NLC and the proposed plant is being constructed with in the existing 2x125MW Barsingsar TPP   |               |                        |                |                          |       |   |
|                       | <b>MOE&amp;F clearance:</b>                           | EC for mines granted on 21/10/13. EC for thermal granted on 30/07/12   |               |                        |                |                          |       |   |
|                       | <b>Civil Aviation:</b>                                | NOC obtained on 23/01/2012   |               |                        |                |                          |       |   |
|                       | <b>Critical Issues</b>                                |  |               |                        |                |                          |       |   |
|                       | <b>Reasons for delay</b>                              | GoR had informed that due to increased project cost and time over run, Rajasthan Discom will not be in position to buy the power from BTPSE. NLCIL had replied that delay is due to acquisition of land for linked mine by GoR and informed to review the decision. Matter is pending with GoR. Project activities are under hold from 02/06/2017. |               |                        |                |                          |       |   |

| Sl. No                   | PROJECT DETAILS   | Capacity (MW)   | Commissioning Schedule |       |                          |       | Broad Status   |
|--------------------------|---|---|------------------------|-------|--------------------------|-------|--|
|                          |   |   | Original               |       | Actual (A) / As Expected |       |  |
|                          |   |   | Syn. Comm              | COD   | Syn. Comm                | COD   |  |
| <b>Central Sector</b>    |   |   |                        |       |                          |       |  |
| 1                        | <b>Bithnok TPP</b><br>Distt. Bikaner,<br>Rajasthan  | 250 MW  |                        |       |                          |       | <ul style="list-style-type: none"> <li>R-infra has established their site office at Bithnok.</li> <li>The package activities at Bithnok are yet to start.</li> </ul> <p><b>Project activities are under hold from 02/06/2017</b></p> |
|                          | U-1   | 250   | 05/20<br>08/20         | 08/20 | 05/20<br>08/20           | 08/20 |  |
|                          | Estimated cost (M/Y)  | : Rs. 219630 Lakhs  |                        |       |                          |       |  |
|                          | Exp. During 2017-18   | Rs. 16979.48 Lakhs  |                        |       |                          |       |  |
|                          | Exp. During 2018-19   | Rs. 367.62 Lakhs  |                        |       |                          |       |  |
|                          | Exp. During 2019-20   | Rs. Lakhs   |                        |       |                          |       |  |
|                          | Total Exp   | Rs. 17347.10 Lakhs (up to 03/19)  |                        |       |                          |       |  |
|                          | Zero Date of Project  | : 21/11/2016  |                        |       |                          |       |  |
|                          | Financial Closure   | Under progress  |                        |       |                          |       |  |
|                          | Main Plant order Date   | EPC contract to M/s Reliance Infra..  |                        |       |                          |       |  |
|                          | <b>Type of Fuel</b>   | Lignite, Bithnok Lignite Mine 2.25MTA   |                        |       |                          |       |  |
|                          | <b>PPA</b>  | Signed with GoR on 31/12/2010   |                        |       |                          |       |  |
|                          | <b>Power evacuation system</b>  | Through three No. S/C transmission lines viz (i) BLTPS- Kolayat (ii) BLTPS-Nokha(iii)BLTPS-Bikaner to be executed by RRVPNL.  |                        |       |                          |       |  |
|                          | <p><b>Water:</b> Water supply agreement signed on 10/06/14 b/w Indira Gandhi Nahar Pariyojna, GoR and NLC</p> <p><b>Land: Private</b> land-1088.20 ha in possession.<br/>Govt Land-Transfer in favour of NLC India is under progress at O/o Commissioner colonization, Bikaner<br/>Forest land- Transfer in favour of forest dept is under progress at O/o Commissioner colonization, Bikaner</p> <p><b>MOE&amp;F</b> clearance:EC for mines granted on 26/02/16. EC for thermal granted on 30/04/10 and validity extension is under progress.</p> <p><b>Civil Aviation:</b> NOC obtained on 09/08/16</p> |   |                        |       |                          |       |  |
| <b>Critical Issues</b>   |   |   |                        |       |                          |       |  |
| <b>Reasons for delay</b> |   | GoR had informed that due to increased project cost and time over run, Rajasthan Discom will not be in position to buy the power from BTPSE. NLCIL had replied that delay is due to acquisition of land by GoR and informed to review the decision. Matter is pending with GoR. |                        |       |                          |       |  |

STATE  
&  
PRIVATE  
SECTOR



# NORTHERN REGION

## BROAD STATUS OF THERMAL POWER PROJECTS IN RAJASTHAN

| Sl. No                  | PROJECT DETAILS  | Capacity (MW)                              | Commissioning Schedule |       |  |                    | Broad Status  |  |
|-------------------------|--|--|------------------------|-------|--|--------------------|---|--|
|                         |  |  | Original               |       | Actual (A) / As Expected                 |                    |   |  |
|                         |  |  | Syn. Comm              | COD   | Syn. Comm                                | COD                |   |  |
| <b>State Sector</b>     |  |  |                        |       |  |                    |   |  |
| 1                       | <b>Chhabra SCTPP, Chhabra</b><br>RRVUNL Distt.<br>Baran,Rajasthan                          | <b>1320</b>                                |                        |       |  |                    | <p><b>Unit-5 : COD achieved on 09.08.2018. Commissioned on 04.04.2017. Synchronisation done on 25.02.2017</b></p> <ul style="list-style-type: none"> <li><b>Boiler:</b> erection started on 17/02/14. HT done on 03/11/15. BLU done on 22/08/16. Steam blowing done on 26/08/16. Syn. on Oil done on 02/10/16. Re-lightning done on 06/1/17. Re-syn done on coal on 25/02/17. Coal firing done on 25/02/17. <b>PG test completed on 21/03/2018.</b></li> <li><b>TG:</b> Condenser and TG erection started from 24/01/15 and 27/03/15 respectively. TG box up done on 08/03/16. Oil flushing completed on 27/05/16.</li> </ul> <p><b>Unit-6 : COD achieved on 02.04.2019. Commissioned on 11.12.2018. Synchronisation done on 28.07.2018.</b></p> <ul style="list-style-type: none"> <li><b>Boiler:</b> Boiler Erection started on 17/08/15. Boiler HT achieved on 15/02/17. BLU achieved on 24/04/18. Steam blowing started on 28/04/18. Steam Blowing of critical piping competed on 26.05.18. Reliability Run completed on 03.01.19.</li> <li><b>TG:</b> TG deck casting completed on 25/06/16. TG erection started on 11/07/16. TG Box up is completed on 26/09/17. Second state lube oil flushing started on 27/09/17. seal oil system second stage flushing completed on 05/10/17. Third stage oil circulation completed on 25/12/2017. JOP trial and TG rotor lift check done on 26/12/2017. <b>TG Barring Gear operation achieved on 16/01/2018. Synchronization on oil achieved on 28/07/2018.</b></li> </ul> <p><b>ESP: Unit#5</b> ESP commissioned and Unit#6 ESP ready. Insulation completed. Commissioning completed.</p> <p><b>BoPs:</b></p> <ul style="list-style-type: none"> <li><b>Chimney:</b> Ready in all respect.</li> <li><b>CHP:</b> CHP ready in all respect except railway siding. Coal Feeding through Unit#6 reclaim path started from 03.12.18. No load trial of Reclaimer completed.</li> <li><b>AHP:</b> Ready except the Fly Ash Silo. Readiness of Silo will match the commissioning schedule.</li> <li><b>NDCT:</b> Both NDCT commissioned.</li> <li><b>DM Plant:</b> Commissioned.</li> <li><b>CW System:</b> Ready</li> <li><b>FO system:</b> Commissioned</li> <li><b>Switchyard:</b> Anta line charged on 22/04/16 and switch yard charged on 23/05/16.</li> </ul> |  |
|                         | U-5  | 660  | 06/16<br>09/16         | 09/16 | <u>02.10.16(A)</u><br><u>04.04.17(A)</u> | <u>09.08.18(A)</u> |   |  |
|                         | U-6  | 660  | 05/18                  | 06/18 | <u>28.07.18(A)</u><br><u>11.12.18(A)</u> | <u>02.04.19(A)</u> |   |  |
|                         | Original/Latest cost   | : Rs. 792000/955027/1091027 lakhs          |                        |       |  |                    |   |  |
|                         | Exp. During 2013-14  | Rs. 76315 lakhs                            |                        |       |  |                    |   |  |
|                         | 2014-15  | Rs. 85862 lakhs                            |                        |       |  |                    |   |  |
|                         | 2015-16  | Rs. 249612 lakhs                           |                        |       |  |                    |   |  |
|                         | 2016-17  | Rs. 279774 lakhs                           |                        |       |  |                    |   |  |
|                         | 2017-18  | Rs. 112385 lakhs                           |                        |       |  |                    |   |  |
|                         | 2018-19  | Rs. 88991 lakhs                            |                        |       |  |                    |   |  |
|                         | Total Exp  | Rs. 892939 Lakhs (up to 01/19.)            |                        |       |  |                    |   |  |
|                         | Zero Date of Project   | : 28/03/2013                               |                        |       |  |                    |   |  |
|                         | Financial Closure  | Pertains to TD                             |                        |       |  |                    |   |  |
|                         | Main Plant order Date  | EPC Order placed on M/s L&T on 28/03/2013. |                        |       |  |                    |   |  |
|                         | Type of Fuel   | Coal                                       |                        |       |  |                    |   |  |
| Fuel linkage            | Coal Blocks (Parsa East & Kante Basen) re-allocated by MoC, GoI on 24/03/15.               |  |                        |       |  |                    |   |  |
| PPA                     | Signed with Rajasthan Discom on 18/05/10   |  |                        |       |  |                    |   |  |
| Power evacuation system | Extension work of ANTA Line upto Chhabra STPP has been taken up by RVPN                    |  |                        |       |  |                    |   |  |
| Water:                  | 300 MCFT from Lhasi and 1270 MCFT from Parwan irrigation projects has been ensured by GOR. |  |                        |       |  |                    |   |  |
| Land:                   | Land is available for both the units.  |  |                        |       |  |                    |   |  |
| MOE&F clearance         | Unit-5: 23/05/2012<br>Unit-6: 02/02/2015   |  |                        |       |  |                    |   |  |
| Critical Issues         | 1. Rail Link<br>2. Raw Water   |  |                        |       |  |                    |   |  |
| Reasons for delay       |  |  |                        |       |  |                    |   |  |

SK-02/05/2019

| Sl. No   | PROJECT DETAILS  | Capacity (MW)  | Commissioning Schedule  |                |                              |       | Broad Status   |
|--|--|----------------|---|----------------|------------------------------|-------|--|
|  |  |                | Original  |                | Actual (A) / As now Expected |       |  |
|  |  |                | Syn. Comm   | COD            | Syn. Comm                    | COD   |  |
| <b>State Sector</b>  |  |                |   |                |                              |       |  |
| 2  | Suratgarh Super Critical TPP, RRVUNL, Suratgarh (Distt Sri Ganga Nagar | 1320           |   |                |                              |       | <p><b>Unit-7</b><br/> <b>Boiler:</b> Erection started on 26/03/14. Hydro test completed on 31/12/15. BLU completed on 24/02/17. Steam Blowing started on 09/06/18 and completed on 25/08/18. Unit synchronized on 18.12.18 at 1140 hrs with 205MW max load. <b>full load achieved at 16:08 hrs on 30.03.19.</b></p> <p><b>TG:</b> TG civil work started on 07/12/13. Condenser erection started on 29/04/15. TG erection started on 16/11/15. TG box up done on 21/01/17. TG put on barring gear on 10/11/17.</p> <p><b>ESP:</b> Erection completed. Insulation and cladding work also completed</p> <p><b>Unit-8</b><br/> <b>Boiler:</b> Erection started on 25/06/14 HT completed on 15/03/16. Boiler light up completed on 28/09/17. Boiler Hyd. Test (Non-Drainable) performed on 27/07/18.</p> <p><b>TG:</b> Condenser Erection started on 28/06/15 and TG erection on 05/11/15. TG box up done on 09/11/17. Turbine boxed up on 09.11.17. <b>Turbine oil Flushing completed on 18/08/2018.</b></p> <p><b>ESP:</b> Erection completed. Insulation work also completed.</p> <p><b>Availability of startup power made on 21/01/17.</b></p> <p><b>BoP's:</b></p> <p><b>Chimney:</b> Both the flue is ready.<br/> <b>CHP:</b> Stacker cum Reclaimer &amp; Reclaimer Unit 7&amp;8- Mechanical erection almost completed. Electrical work of SCR &amp;SR unit #8 is u/p. Commissioning work started on 12/03/18 and in progress. Supply of conveyor package has completed. Wagon tippler-2 erection work has been started.<br/> <b>AHP:</b> Bottom ash hopper of U-7 has completed with refractory work and equipment erection work. Erection and commissioning work of ADL pipe line (L1 &amp; L2) up to Ash dyke is completed. Bottom ash hopper of u-8 is u/p. Erection work of HP, LP and over flow piping around BAH is under progress.</p> <p><b>NDCT:</b> U-7: Commissioned 100%. U-8: Internal columns are 99% completed.<br/> U-8: For CT-8 raker columns and pond floor are completed. Shell is completed on 13/09/2017. Partition wall and hot water duct columns are in progress.<br/> <b>CW System:</b> Ready<br/> <b>DM Plant:</b> Commissioned.<br/> <b>FO system:</b> Shell erection/fabrication completed. HFO unloading discharge pipe line work on ash handling pipe rack is under progress.<br/> <b>Switchyard:</b> Back charging done from existing plant 400 KV switchyard on 21/1/2017. Progress of SSCTPS-BABAI Line-Erection-676/676, stringing-197.245/245 km. 400 KV, DC, SSCTPS- BIKANER transmission line is ready. SSCTPS- BIKANER transmission line charged on 28/07/18.</p> <p><b>FGD Plant: - Feasibility Report cum DPR for implementation of revised emission norms for the plant have received. Technical spec finalised.</b></p> |
|  | U-7  | 660            | 06/16<br>07/16  | 09/16          | 18.12.18(A)<br>30.03.19(A)   | 04/19 |  |
| U-8  | 660  | 09/16<br>10/16 | 12/16   | 06/19<br>06/19 | 07/19                        |       |  |
| Original Estimated cost  |  |                | Rs. 792000 lakh   |                |                              |       |  |
| Latest Estimated cost  |  |                | Rs. 916135 lakhs  |                |                              |       |  |
| Exp. during 2012-13  |  |                | Rs. 1736 lakhs  |                |                              |       |  |
| Exp. during 2013-14  |  |                | Rs. 55029 lakhs   |                |                              |       |  |
| Exp. during 2014-15  |  |                | Rs. 191874 lakhs  |                |                              |       |  |
| Exp. during 2015-16  |  |                | Rs. 252788 lakhs  |                |                              |       |  |
| Exp. during 2016-17  |  |                | Rs 165353 lakhs   |                |                              |       |  |
| Exp. during 2017-18  |  |                | Rs 39264.22 lakhs   |                |                              |       |  |
| Exp. during 2018-19  |  |                | Rs 55420.54 lakhs   |                |                              |       |  |
| Exp. during 2019-20  |  |                | Rs lakhs  |                |                              |       |  |
| Total Expenditure (up to 03/19)  |  |                | Rs 830356.41 Lakhs  |                |                              |       |  |
| Type of fuel   |  |                | Coal  |                |                              |       |  |
| Zero date  |  |                | 28/03/13  |                |                              |       |  |
| Main Plant Order   |  |                | Order placed on 23/05/13 on M/s BHEL on EPC basis. Blr-ALSTOM, TG-SIEMENS               |                |                              |       |  |
| <b>Type of Fuel</b>  |  |                | Coal  |                |                              |       |  |
| <b>Fuel linkage</b>  |  |                | Approval accorded by MOC on 03/02/12 from Parsa East & Kanta Basan coal blocks of RVUNL |                |                              |       |  |
| <b>Power purchase agreement:</b>   |  |                | PPA made between RVUN and Jaipur, Ajmer, Jodhpur Vidyut Vitran Nigam Ltd. on 18/05/10.  |                |                              |       |  |
| <b>Power evacuation system:</b>  |  |                | Through 4 x 400 kV transmission line of RVPN.   |                |                              |       |  |
| <p><b>Land:</b> Possession of 672.873 ha of land for water system, construction of main power plant, residential colony on approach road taken.<br/> <b>Water:</b> 60 cusec of water from Indira Gandhi Canal is allocated on 02/09/09.<br/> <b>MOEF:</b> Clearance obtained vide letter No. J-13012/14/2009 – IA. II (T) on 23/05/12<br/> <b>SPCBC:</b> Clearance accorded by Rajasthan SPCB on 04/06/13.<br/> <b>Civil Aviation :</b> NOC obtained from AAI on 26/4/10</p> |  |                |   |                |                              |       |  |
| <b>Critical Areas</b>  |  |                | <b>AHP, Marshalling Yard Extension</b>  |                |                              |       |  |
| <b>Reasons for delay</b>   |  |                | BHEL manpower; delay in supply and non-sequential supply by BHEL.                       |                |                              |       |  |

SK-02/05/2019

**BROAD STATUS OF THERMAL POWER PROJECTS IN UTTAR PRADESH**

| Sl. No.               | PROJECT DETAILS   | Capacity (MW)   | Commissioning Schedule |       |  |                       | Broad Status   |
|-----------------------|---|---|------------------------|-------|--|-----------------------|--|
|                       |   |   | Original               |       | Actual (A) / As now Anticipated.           |                       |  |
|                       |   |   | Syn. Comm              | COD   | Syn. Comm                                  | COD                   |  |
| <b>Private Sector</b> |   |   |                        |       |  |                       |  |
| 1                     | <b>PRAYAGRAJ TPP</b><br>M/s Prayagraj Power Generation Co. Ltd.<br>(Distt. Bara, Allahabad), U.P. | 1980  |                        |       |  |                       | <p><b>U-1: -</b><br/><b>Full load Achieved on 25.12.15. COD on 29.02.16</b></p> <ul style="list-style-type: none"> <li>Boiler erection started on 12/07/11. HT done on 24/10/13. BLU done on 31/03/15. TG erection started in 01/13 &amp; boxed up on 20/02/14. Oil flushing completed on 18/03/15.</li> </ul> <p><b>Unit Synchronised on 31.10.15.</b></p> <p><b>U-2: -</b><br/><b>Full load Achieved on 06.09.16. COD on 10.09.16.</b></p> <ul style="list-style-type: none"> <li><b>Boiler:</b> Boiler erection started on <b>12.09.2011</b>. Hydro test conducted on <b>29.01.15</b>. BLU completed on 03.03.16. SBO completion expected in 05/16</li> <li><b>ESP:</b> ESP work completed</li> <li><b>TG:</b> Condenser erection started on 10.06.13. TG erection started on 20.09.13. TG boxed up on 14.05.15. OF completed on 16.03.16. <b>Unit Sync. on 07.07.16.</b></li> </ul> <p><b>U-3: -</b><br/><b>Full load achieved on 22.05.17. COD on 26.05.17.</b></p> <ul style="list-style-type: none"> <li><b>Boiler:</b> Boiler erection started on <b>05.09.2011</b>. Hydro test conducted on <b>29.11.14</b>. BLU on 31.05.16. Acid cleaning completed. Temporary piping work for steam blowing is under progress. SBO completed on 06/02/17. Unit Syn. (on oil) on 26/03/17.</li> <li><b>ESP:</b> ESP work completed.</li> <li><b>TG:</b> Condenser erection started on 10.01.14. TG erection started on 11.11.14. TG box up completed in 05/02/17. TG Oil flushing done on 14/02/17.</li> </ul> <p><b>BOPS:</b></p> <ul style="list-style-type: none"> <li><b>FGD:</b> The order for FGD installation has been placed on M/S Tata Consultant Engineers (TCE) at the cost of @ 1000Cr. There is no space constraint for installation of FGD system in the plant.</li> <li><b>Chimney:</b> Awarded to Paharpur. 275 height achieved for both chimneys. Flue 1&amp;2 completed. Chimney 2 completed.</li> <li><b>CHP:</b> Package A awarded to L&amp;T and Package B awarded to HEW. For Package A, WT4 &amp; WT 3 commissioned. For U-1,2,3 bunker ready. Load trials carried out. For Package B, 1<sup>st</sup> stacker reclaimer commissioned.</li> <li><b>AHP:</b> Awarded to Macawber Beekay. System ready for U-1,2 &amp; 3 completed.</li> <li><b>NDCT:</b> CT-1,2 &amp;3 completed.</li> <li><b>PTP:</b> PT plant commissioned</li> <li><b>DM Plant:</b> DM plant commissioned</li> <li><b>FOS:</b> ALL HFO and LDO storage &amp; Day tanks completed. FOH pump house ready, LDO system commissioned.</li> <li><b>FPS:</b> Ready for U-1,2 &amp;3</li> <li><b>SWYRD:</b> Work in 400 KV switchyard completed and charged one 765 kV line</li> </ul> |
|                       | Unit-1  | 660   | 06/13                  | 10/13 | <b>31.10.15(A)</b><br><b>25.12.15(A)</b>   | <b>29.02.16 (A)</b>   |  |
|                       | Unit-2  | 660   | 11/13                  | 03/13 | <b>07.07.16 (A)</b><br><b>06.09.16 (A)</b> | <b>10.09.16 (A)</b>   |  |
|                       | Unit-3  | 660   | 04/14                  | 07/14 | <b>26.03.17(A)</b><br><b>22.05.17(A)</b>   | <b>26.05.2017 (A)</b> |  |
|                       | Date of clearance by State Govt.  | : Nov, 2006.  |                        |       |  |                       |  |
|                       | Original/Latest Est. Cost   | : Rs.1162227 Lakhs/ 1387000 lakhs   |                        |       |  |                       |  |
|                       | Date of Financial Closure   | : Achieved on 06.07.2010 with SBI   |                        |       |  |                       |  |
|                       | Exp. Upto 03/2011   | :Rs.124478 Lakhs  |                        |       |  |                       |  |
|                       | Exp. During 2011-12   | :Rs.137691 Lakhs  |                        |       |  |                       |  |
|                       | Exp. During 2012-13   | :Rs.296958 Lakhs  |                        |       |  |                       |  |
|                       | Exp. During 2013-14   | :Rs 308897 Lakhs  |                        |       |  |                       |  |
|                       | Exp. During 2014-15   | :Rs. 285952 Lakhs   |                        |       |  |                       |  |
|                       | Exp. During 2015-16   | : Rs. 171135 Lakhs  |                        |       |  |                       |  |
|                       | Exp. During 2016-17   | : Rs. 130126 Lakhs  |                        |       |  |                       |  |
|                       | Exp. During 2017-18   | :Rs.10097 Lakhs   |                        |       |  |                       |  |
|                       | <b>Cumulative Expd. (4/17)</b>  | :Rs. 1465334 Lakhs  |                        |       |  |                       |  |
|                       | Type of fuel  | : Coal  |                        |       |  |                       |  |
|                       | Date of Main Plant Order  | : 22.01.2009 (BTG) on M/s BHEL  |                        |       |  |                       |  |
|                       | <b>Boiler, TG &amp; Generator make.</b>   | Boiler U-1: Structure from BHEL, Pressure parts from Alstom, U- 2&3: From BHEL.<br>TG & Gen U-1&2: From Siemens, U-3: From BHEL Hardwar.  |                        |       |  |                       |  |
|                       | Zero date   | 23.02.2010.   |                        |       |  |                       |  |
|                       | PPA   | : PPA signed on 21.11.2008.   |                        |       |  |                       |  |
|                       | Fuel Linkage  | : Fuel supply agreement between PPGCL & NLC for 6.95 MTPA has been executed on 29.08.2013.  |                        |       |  |                       |  |
|                       | Associated Transmission System  | Power is proposed to be evacuated at 765 KV and 400 KV level for which 765KV and 400 KV switchyards are proposed. Responsibility of UPPCL & PPGCL. Work awarded to Isolux.  |                        |       |  |                       |  |
|                       | <b>Land:</b>  | :1468 acres of land for the project is in physical possession. Land for the facilities outside the plant area is being acquired. For land required for railway sliding about 32.71 Ha out of 35 Ha has been acquired. Lease deed executed and the process of taking physical possession of land is completed. |                        |       |  |                       |  |
|                       | <b>MOEF clearance:</b>  | Obtained on 08.09.2009  |                        |       |  |                       |  |
|                       | <b>Critical Area</b>  | <b>Power Evacuation System:</b> Responsibility of procurers as per the PPA and as per latest status, the work has been awarded to Ms. Isolux. Line is to be made ready for evacuation before synchronization date   |                        |       |  |                       |  |

| Sl. No.                  | PROJECT DETAILS  | Capacity (MW)  | Commissioning Schedule |       |                                  |       | Broad Status  |  |
|--------------------------|--|--|------------------------|-------|----------------------------------|-------|---|--|
|                          |  |  | Original               |       | Actual (A) / As now Anticipated. |       |   |  |
|                          |  |  | Syn. Comm              | COD   | Syn. Comm                        | COD   |   |  |
| 2                        | <b>Harduaganj Expn.,-II UPRVUNL Distt.: Aligarh, U.P</b>   | 660  |                        |       |                                  |       | <p><b>Unit-I</b><br/> <b>Boiler:</b> 1<sup>st</sup> Pass &amp; 2<sup>nd</sup> Pass pressure parts major erection work completed. Pressure parts joints 90% completed. Attachments welding under progress.<br/> <b>TG &amp; Aux:</b> LP condenser tube insertion in progress. HP condenser tube insertion completed &amp; expansion in progress. HP, IP &amp; LP Turbine Upper outer Casing erection is in progress. HP Heater, LP Heater, Deaerator erection completed &amp; further alignment &amp; Piping is under progress.<br/> <b>ESP:</b> Erection for Pass A, B, C, D, F is under progress. Pass C is erection in in advance stage for ATT. ESP to Chimney work in progress</p> <p><b>BOP areas : Civil works under progress :</b></p> <ul style="list-style-type: none"> <li><b>Chimney:</b> CHinney Shell construction completed. AR Brick received at site. Corbel civil work is in progress.</li> <li><b>Raw Water system:</b> Raw water Reservoir-A &amp; B completed, RWI Pump House, and RWPH Civil work is in progress.</li> <li><b>PT Plant:</b> Chemical House, Chlorination building, CWST &amp; PH works is in progress.</li> <li><b>CHP:</b> JT-01A base raft casting completed &amp; further civil works in progress. Wagon Tippler, Track Hopper, ERH, Stacker Reclaimer, JT and Conveyor and other civil work is in progress.</li> <li><b>AHP:</b> Ash Slurry Pump House, AHP Control Room, Compressor building, Ash Silo civil work for super structure is in progress. Ash Pond civil works in progress.</li> <li><b>IDCT:</b> 24/24 no fan deck casting completed &amp; other civil work is in progress. Mechanical pipe erection u/p. 40% erected.</li> <li><b>CWPH:</b> Control Room slab, Pump &amp; Motor Floor, Forebay works completed. Balance civil work is in progress. CW &amp; ACW Pipe erection &amp; encasement work in progress. 80 % work completed. Raw water reservoir A&amp;B completed. RWI pump house &amp; RWPH civil work is in progress.</li> <li><b>PT plant:</b> clarifies 1&amp;2 erection completed, balance piping and other work i/p.</li> <li><b>DM plant:</b> pump and piping ertion i/p for both strems A&amp;B.</li> <li><b>Switchyard:</b> 400 KV Switchyard Control Room- Cable Tray &amp; fixing, earthing, cabling 50% completd.LT control panel testing work is i/p. 220 kV switchyard cable laying,earthing and CRP panel erection work is i/p.</li> </ul> <p><b>FGD Plant:</b> FGD Package is being executed by M/S Doosan. Absorber &amp; GGH Area Civil Works completed. Building &amp; balance Civil in progress. Absorber Tower erection commenced &amp; in progress. Material receiving in progress.</p> |  |
|                          | Unit-1   | 660  | 09/19<br>11/19         | 01/20 | 10/19<br>01/20                   | 07/20 |   |  |
|                          | Original/Latest Cost   | : Rs.482649 lakhs. Revised cost of Project due inclusion of FGD SCR is Rs. 550098 lakhs.   |                        |       |                                  |       |   |  |
|                          | Exp. During 2015-16<br>Exp. During 2016-17<br>Exp. During 2017-18<br>Exp. During 2018-19   | : Rs. 30520 Lakhs<br>: Rs 11243 Lakhs<br>: Rs 45767 Lakhs<br>: Rs 126862 Lakhs   |                        |       |                                  |       |   |  |
|                          | Cumulative Expd. (03/19)   | :Rs 214392 Lakh  |                        |       |                                  |       |   |  |
|                          | Date of Financial Closure  | : Achieved on 14.03.2012 (80% PFC Loan & 20% government equity)  |                        |       |                                  |       |   |  |
|                          | Type of fuel   | : Coal   |                        |       |                                  |       |   |  |
|                          | Date of Main Plant Order/BoPs  | : M/s Toshiba JSW Systems Private Limited as a single EPC basis on 08.09.2015<br>Boiler: Doosan, India ; TG & Generator: Toshiba JSW Power Systems |                        |       |                                  |       |   |  |
|                          | Zero date  | : 08.09.2015   |                        |       |                                  |       |   |  |
|                          | NTP (Notice to proceed) date   | : 08.09.2015   |                        |       |                                  |       |   |  |
|                          | PPA  | : Signed on 16.01.13   |                        |       |                                  |       |   |  |
|                          | Fuel Linkage   | : From Saharpur-Jamarpani, Jharkhand coal Block allocated on 25.03.15.   |                        |       |                                  |       |   |  |
|                          | Power Evacuation System  | 400kV Switchyard   |                        |       |                                  |       |   |  |
|                          | <p><b>Land:</b> Not required being an Expansion Project.<br/> <b>MOEF clearance:</b> Change order from MOEF issued. The Govt.of UP has approved the Installation &amp; Construction of FDR &amp; SCR Syatems in December 2016 which will comply the MoEF circular dated 7/12/2015<br/> <b>Water:</b> Water Allocated on 03.12.11 from Upper Ganga Canal.<br/> <b>Civil Aviation Clearance:</b> Civil Aviation Clearance granted on 11.07.12 from Airports Authority of India.<br/> <b>Financial Closure:</b> 80% PFC Loan &amp; 20% Government Equity.<br/> <b>Note: -</b><br/> <b>The above dates are based on 58.7 months completion schedule.</b></p> <p>- All the other BoP packages have also been awarded to various contracting agencies for execution.</p> |  |                        |       |                                  |       |   |  |
|                          | <b>Critical Areas/ Assistance Required</b>   |  |                        |       |                                  |       |   |  |
| <b>Reasons for Delay</b> |  | Late receipt of the MOEF&CC revised order by UPRVUNL with inclusion of FGD & SCR System in the project i.e. in December'2016.                      |                        |       |                                  |       |   |  |

| Sl. No.   | PROJECT DETAILS  | Capacity (MW)  | Commissioning Schedule |       |                                  |       | Broad Status  |
|---|--|--|------------------------|-------|----------------------------------|-------|---|
|   |  |  | Original               |       | Actual (A) / As now Anticipated. |       |   |
|   |  |  | Syn. Comm              | COD   | Syn. Comm                        | COD   |   |
| 3   | <b>Obra-C TPP UPRVUNL (Obra, Dist. Sonebhadra), U.P.</b> | 1320   |                        |       |                                  |       | <p>SG Package by M/S DPSI &amp; STG Package by M/S Alstom Forge Power Ltd.</p> <p><b>Work in Progress</b><br/> Concrete Work (RCC) for 400kV GIS Building column Concrete Work (RCC) for 765kV AIS Building Column Concreting (PCC &amp; RCC) work for Switchyard Foundation &amp; Pedestal. Excavation and Concrete Work(PCC, RCC) for Stacker/Re-Claimer Excavation &amp; PCC Work for Track hopper Excavation Work for Wagon Tripler. Excavation Work for Raw Water Pump House. PCC work for Lime stone silo RCC work for HRSCC A Raft PCC work for Lime stone slurry silo PCC work for Sludge sump Excavation work for CW Pump House, ForeBay/Structure. RCC work for LDO day oil tank PCC Work for LDO Tank Stone column work for Switchyard Area PCC Work for CW pump house forebay PCC work for PA ,FD Fan unit#2 Excavation &amp; Concrete Work for Raw Water Pipe Line. RCC &amp; Rebar Work for CW Pump House/Structure Erection work of Cooling Water(CW) Pipe. Erection of ESP #1 , Pass C &amp; D Erection of Boiler#2, Steel Structure tier 2 Assembly works of Condenser #1 – Water Chamber Erection works of Air Duct#1. Erection of Main Steel Structure for TBN Building #1 Erection of Main Steel Structure for CCB Building. RCC &amp; PCC Work of JT#5 foundation Excavation work of JT#4 Excavation work of ER#2</p> <p><b>Purchase Order Placement Status:</b><br/> PO issued for Manual valves for SCR (Globe &amp; Check) (15-Mar-19) PO issued for Boiler Tube Leak Detection System (BTLD) (19-Mar-19)</p> |
|   | U-1  | 660  | 08/20<br>09/20         | 12/20 | 02/21<br>04/21                   | 06/21 |   |
|   | U-2  | 660  | 12/20<br>12/20         | 04/21 | 07/21<br>07/21                   | 11/21 |   |
|   | Original/Latest Cost                                     | : Rs.1041600 lakhs   |                        |       |                                  |       |   |
|   | Expenditure  |  |                        |       |                                  |       |   |
|   | 2016-17  | 42377 Lakha  |                        |       |                                  |       |   |
|   | 2017-18  | 28623 Lakhs  |                        |       |                                  |       |   |
|   | Cumulative Expenditure (up to 03/19)                     | : Rs. 161194 Lakhs   |                        |       |                                  |       |   |
|   | Date of Financial Closure                                | : 13.11.2013<br>70% debt loaned from REC and 30% equity to be borne by State Govt.   |                        |       |                                  |       |   |
|   | Type of fuel   | : Coal   |                        |       |                                  |       |   |
|   | Fuel Linkage   | : From Saharpur Jamrpani, Jharkhand Coal Block allocated to UPRVUNL with the project specified in the end use plants for the Block/ MoU with MMTC for imported Coal                    |                        |       |                                  |       |   |
|   | Date of Main Plant Order/BoPs                            | : Order for main Plant Equipment (BTG) awarded to M/s. Doosan Power Systems India Pvt. Ltd. On 22.12.2016<br>SG package by M/s DPSI& STG package by M/s Alstom Bharat Forge Power Ltd. |                        |       |                                  |       |   |
|   | Zero date  | : 22.12.2016   |                        |       |                                  |       |   |
|   | Land   | : Not required being an expansion Project  |                        |       |                                  |       |   |
| PPA   | : Signed with UPPCL. on 16.01..2013                      |  |                        |       |                                  |       |   |
| MoEF Clearance : :Forest clearance obtained on 30.06.2016 and Environmental clearance obtained on 21.06.2016<br>Power Evacuation System: By UPPTCL at 765 KV<br>Water : Allocation of 54 cusec water by Govt. of UP from Rihand Reservoir |  |  |                        |       |                                  |       |   |
| <b>Critical Areas/Assistance Required</b>   |  |  |                        |       |                                  |       |   |

| Sl. No.   | PROJECT DETAILS  | Capacity (MW)   | Commissioning Schedule |       |                                  |       | Broad Status  |
|---|--|---|------------------------|-------|----------------------------------|-------|---|
|   |  |   | Original               |       | Actual (A) / As now Anticipated. |       |   |
|   |  |   | Syn. Comm              | COD   | Syn. Comm                        | COD   |   |
| 4   | <b>Jawaharpur STPP JVUNL (100% subsidiary of UPRVUNL) Village: Malawan, Dist. Etah, U.P</b>  | 1320  |                        |       |                                  |       | <b>1. Status of Construction Activities</b><br><b>1.1 Completed activities</b><br>- Piling Work for Lime Stone silo Area<br>- Piling work for NDCT-B<br>- Piling work For Chimney<br>- Piling work Fly Ash Silo<br>- Excavation work for ESP control Room Building<br>- Excavation work for AHP Chemical House<br>- Excavation work for Mill Reject & Air Compressor House<br>- Piling work for Stacker & Re-claimer<br>- Foundation work for (PCC) Limestone Unloading House<br>- Excavation of DM Plant Building<br><b>1.2 Activities in Progress</b><br>- Foundation and erection of steel structure tier 1 & tier 2 for Boiler # 1<br>- Foundation work for Mill<br>- Excavation, Foundation and Pedestal work for ESP, Transformer, TG Pedestal & CEP/CW Pit #1 & ESP Control Building<br>- Foundation and structure work for TG Building #1, CCB<br>- Steel structure fabrication & erection work for TG building, CCB<br>- Pre-assembly work for pressure part # 1 and Air Duct # 1<br>- Erection of Temporary duct for Boiler # 1<br>- Pedestal, Grillage column Footing, Precast, Foundation Work for Basin (NDCT)<br>- Foundation & Pedestal Work for Boiler # 2<br>- Steel structure erection tier 1 Boiler # 2<br>- Piling work unit #1 for Duct support structure (BLR ~ ESP), GGH & absorber<br>- Piling work unit # 2 for ESP, ID Fan, Duct support structure (BLR ~ ESP, ESP ~ ID Fan)<br>- Piling Work common area for Service building & Lime stone crusher House building & Gypsum De-watering building<br>- CW pipe encasement work in block 4 area<br>- CW pipe fit up & welding work in block 4 area<br>- Column & Re-bar rafting for CW pump house electrical building & Lay down area<br>- Foundation & re-bar work for CW fore bay<br>- Preparation for Sand backfilling work for DM Tank.<br>- Sand back filling for CS Tank<br>- Foundation and RCC wall structure work of LDO Tank and potable tank and wall connecting drain work for LDO Dyke wall<br>- Foundation work (Re-bar and foam work bottom slab) for Clarified Structure<br>- Back filling work for Clarified water pump House<br>- Plinth beam PCC casting, Re-bar work & Roof Slab shuttering for DM pump House & Condensate Storage Transfer Pump House<br>- Foundation work for AHP Chemical house, Mill Reject compressor House ,Weigh bridge control Room, DM Building, LDO Supply loading & unloading house & Lime stone unloading house<br>- Excavation work for Reservoir -A & B<br>- Excavation work for Ash Dyke & ash Embankment<br>- Foundation & Back filling work for Crusher house & Junction Tower<br>- Foundation & wall structure work for Track hopper & MH-2 Hopper<br>- Foundation work (PCC) for Emergency Reclaimer Hopper & Wagon Tripler<br>- Foundation work for Under Ground Tunnel (JT-1 ~ PH)<br>- Steel structure fabrication work for Coal conveyor gallery<br>- Super structure work for 400KV GIS building, 765kV GIS Building for Zone -A<br>- Super structure & finishing work for 220kV GIS Building, storage yard building & Field quality control Lab<br>- Foundation & Sub structure work for 765kV GIS building & Interconnecting Auto Transformer (765kV / 400kV)<br>- Sub & super structure work for switchyard equipment, Main Gate & Security Complex<br>- Electrical Grounding work (MS Rod & GI Strip laying, Welding)<br><b>2. Payment Status to DPSI till 28.02.2019 (Advance)</b><br>- Payment made to DPSI approx. 1280.00 Crore<br><b>3. FGD; Order placed on M/S Doosan Power Systems India Pvt. Ltd. (EPC Project).</b> |
|   | U-1  | 660   | 08/20<br>09/20         | 12/20 | 03/21<br>03/21                   | 07/21 |   |
|   | U-2  | 660   | 12/20<br>01/21         | 04/21 | 07/21<br>07/21                   | 11/21 |   |
|   | Original/Latest Cost   | : Rs.1056627 lakhs  |                        |       |                                  |       |   |
|   | Cumulative Expenditure (up to 02/19)   | : Rs. 105000 Lakhs  |                        |       |                                  |       |   |
|   | Type of fuel   | : Coal  |                        |       |                                  |       |   |
|   | Date of Financial Closure  | : 80% debt loaned from PFC & REC and 20% equity to be borne by State Govt.                                |                        |       |                                  |       |   |
|   | Date of Main Plant Order/BoPs  | : Order for main Plant Equipment (BTG) awarded to M/s. Doosan Power Systems India Pvt. Ltd. On 22.12.2016 |                        |       |                                  |       |   |
|   | Zero date  | : 22.12.2016  |                        |       |                                  |       |   |
|   | PPA  | : Signed on 31.12..2016   |                        |       |                                  |       |   |
| <b>Land :</b> The land required is 865 acres and is in possession of JVUNL. No wildlife and no archeological monument exist at the proposed project site.<br><b>MoEF Clearance :</b> Received on date 26.10.2016<br><b>Fuel Linkage :</b> From Saharpur Jamrpani, Jharkhand Coal Block allocated. Bridge Linkage for the project allocated vide letter No.23014/2/2016-CPD dated 11.04.2016. MOU dated 25.03.2015<br><b>Water :</b> 53 cusecs water allocated from Lower Ganga Canal by irrigation Department for the Project on 09.11.2009 |  |   |                        |       |                                  |       |   |
| Critical Areas/Assistance required  | Delay in Unit 1 & 2 COF will be approx. 8.6 months as compared to the baseline schedule of 21st Dec. 2020. The efforts are being made to catch up the baseline schedule with below catch-up activities:<br>- Shorten the foundation work duration for TG pedestal.<br>- Parallel work of foundation and steel structure erection for Boiler.<br>- Acceleration effort for various work activities like<br>(a) day & night shift work for piling and steel structure fabrication (TG & CCB)<br>(b) working on Sundays and holidays<br>(c) Emphasis on maximizing pressure part pre-assembly at ground level<br>(d) Additional subcontractor for piling work |   |                        |       |                                  |       |   |

| Sl. No. | PROJECT DETAILS                              | Capacity (MW)                                | Commissioning Schedule |     |                             |          | Broad Status   |
|---------|--|--|------------------------|-----|-----------------------------|----------|--|
|         |  |  | Original               |     | Actual(A) / As now Expected |          |  |
|         |  |  | Svn. com.              | COD | Svn. com                    | COD      |  |
|         | State Sector                                 |  |                        |     |                             |          |  |
| 5.      | Panki TPS Ext, Distt. Kanpur, U.P. (UPRVUNL) | 660  |                        |     | 30.09.21                    | 31.01.22 | <b>Unit-1:</b><br><b>Boiler:</b><br><b>TG:</b><br><b>BOPs:</b><br><b>Chimney:</b><br><b>CHP:</b><br><b>AHP:</b><br><b>CWPs:</b><br><b>IDCTs:</b><br><b>FGD:</b> Installation of FGD executed by BHEL |
|         | U-1  | 660  |                        |     |                             |          |  |
|         | Original/Latest Cost                         | Rs / lakhs                                   |                        |     |                             |          |  |
|         | Exp.During 2018-19                           | Rs 1600 lakhs                                |                        |     |                             |          |  |
|         | Cumulative Exp.upto April,2018               | Rs 1600 Lakhs                                |                        |     |                             |          |  |
|         | Type of fuel                                 | Coal   |                        |     |                             |          |  |
|         | Zero Date                                    | 31.03.2018                                   |                        |     |                             |          |  |
|         | Date of Main Plant Order (BTG)               | EPC package to M/s BHEL. LOA date: 31.03.18. |                        |     |                             |          |  |
|         | MOE&F clearance:                             |  |                        |     |                             |          |  |
|         | Critical Areas                               |  |                        |     |                             |          |  |
|         | Reasons for Delay                            |  |                        |     |                             |          |  |



## BROAD STATUS OF THERMAL POWER PROJECTS IN UTTARAKHAND

| Sl. No.                          | Project Details   | Unit  | Capacity (MW)          | Commissioning Schedule           |                         |                        |     | Broad Status   |
|----------------------------------|---|---|------------------------|----------------------------------|-------------------------|------------------------|-----|--|
|                                  |   |   |                        | Original                         |                         | Actual(A)/ As Expected |     |  |
|                                  |   |   |                        | Synch/Comm                       | COD                     | Synch/Comm             | COD |  |
| <b>Private Sector</b>            |   |   |                        |                                  |                         |                        |     |  |
| 1.                               | Kashipur Gas Based CCPP, Ph-II<br>(M/s Sravanthi Energy Private Limited),<br>Udhamsingh Nagar<br><br>(2GT +1ST=225MW) | GT-1<br><br>GT-2<br><br>ST  | 75<br><br>75<br><br>75 | 11/11<br>11/11<br>12/11<br>12/11 | 11/11<br>11/11<br>12/11 | *<br>*<br>*            | *   | <p><b>OPEN CYCLE</b><br/><b>GT-I&amp;II</b><br/>All civil works are completed in 08/11. Both the gas turbines (6FA, GE France) &amp; generator erection already completed. Cranking of GT completed. Both the GTs are on turning Gear. Waiting for gas</p> <p><b>COMBINED CYCLE</b><br/><b>HRSG-I&amp;II:</b><br/>Erection of HRSG equipment supply completed. Erection of both the HRSG nearing completion. HT of both the HRSGs expected just after erection is completed.</p> <p><b>ST:</b><br/>ST&amp; STG supply received at site. STG erection completed. ACC erection is nearing completion. STG oil flushing completed. STG yet to be put on BG.</p> <p><b>BoPs:</b><br/> <ul style="list-style-type: none"> <li>All the BoPs are ready.</li> </ul> </p> |
| <b>Original / Latest Cost</b>    |   | Rs.89800 Lakhs / Rs. 130000 Lakhs   |                        |                                  |                         |                        |     |  |
| Expenditure during 2010-11       |   | Rs.70500Lakhs   |                        |                                  |                         |                        |     |  |
| Expenditure during 2011-12       |   | Rs. 11500 Lakhs   |                        |                                  |                         |                        |     |  |
| Expenditure during 2012-13       |   | Rs. 7100 Lakhs  |                        |                                  |                         |                        |     |  |
| Expenditure during 2013-14       |   | Rs. 1200 Lakhs  |                        |                                  |                         |                        |     |  |
| Expenditure during 2014-15       |   | Rs. 800 Lakhs (up to 06/14)   |                        |                                  |                         |                        |     |  |
| <b>Total Expenditure</b>         |   | : Rs.91100 Lakhs (Upto 06/14)   |                        |                                  |                         |                        |     |  |
| <b>Approval date:</b>            |   | : NA  |                        |                                  |                         |                        |     |  |
| <b>Zero date:</b>                |   | : 04/11/10  |                        |                                  |                         |                        |     |  |
| <b>Notice To Proceed (NTP)</b>   |   | : 04/11/10  |                        |                                  |                         |                        |     |  |
| <b>Financial closure</b>         |   | Achieved on 04/11/10  |                        |                                  |                         |                        |     |  |
| <b>Main Plant Order</b>          |   | : 04/11/10 on M/s Sravanthi Infratech Private Ltd (EPC Basis).  |                        |                                  |                         |                        |     |  |
| <b>BTG Make</b>                  |   | GTGs# GE, France(6FA), HRSGs#Greens Power Equipments(China) Co. Ltd.and STGs are from HTC China   |                        |                                  |                         |                        |     |  |
| <b>BOP Package</b>               |   | Common BoPs for Ph-I&II, Reputed Indian Vendors   |                        |                                  |                         |                        |     |  |
| <b>Type of fuel</b>              |   | : Natural Gas (1.2 mmscmd)  |                        |                                  |                         |                        |     |  |
| <b>PPA</b>                       |   | : PPa yet to be signed  |                        |                                  |                         |                        |     |  |
| <b>Source and supply of Fuel</b> |   | :Domestic Gas from D-6, KG Basin (Right now E-Bidding RLNG)   |                        |                                  |                         |                        |     |  |
| <b>Power Evacuation system</b>   |   | open access: Transmission with PGCIL for 450MW capacity power evacuations through 400 kV/220kV permission granted by NRLDC on 29/12/10. Readiness of ATS through nearby Grid sub-station is scheduled by 12/16.   |                        |                                  |                         |                        |     |  |
|                                  |   | <ul style="list-style-type: none"> <li>FSA yet to be signed.</li> <li>All statutory clearances are available.</li> <li>All the BOPs has already been commissioned.</li> <li>M/s TCE, Bangalore is the owner's consultant.</li> <li>Gas pipeline connectivity completed.</li> <li>All common utilities are ready.</li> </ul> |                        |                                  |                         |                        |     |  |
| <b>Critical issues</b>           |   | Availability of Gas & PPA   |                        |                                  |                         |                        |     |  |
| <b>Reasons for Delay</b>         |   | Non-availability of Domestic Gas.   |                        |                                  |                         |                        |     |  |

\*Schedule will be decided after availability of gas

| Sl. No.                          | Project Details   | Unit   | Capacity (MW)  | Commissioning Schedule           |                         |                        |     | Broad Status   |
|----------------------------------|---|--|----------------|----------------------------------|-------------------------|------------------------|-----|--|
|                                  |   |  |                | Original                         |                         | Actual(A)/ As Expected |     |  |
|                                  |   |  |                | Synch/ Comm                      | COD                     | Synch/ Comm            | COD |  |
| <b>Private Sector</b>            |   |  |                |                                  |                         |                        |     |  |
| 2.                               | BETA CAPP, Module-I, at Kashipur (M/s BETA INFRA TECH PRIVATE LTD.), Udham Singh Nagar<br><b>(2GT +1ST=225MW)</b> | GT-1<br>GT-2<br>ST   | 75<br>75<br>75 | 12/11<br>12/11<br>03/12<br>03/12 | 12/11<br>12/11<br>03/12 | *<br>*<br>*            | *   | <p><b>OPEN CYCLE GT &amp; GTG</b><br/>Both the gas turbines (6FA, GE France) &amp; generators supply reached at site. Erection of both the GTs and GTGs has completed. Oil flushing of both the GTs completed. Erection of GT exhaust duct completed. By pass stack erection completed. Erection of diverter and damper completed. GT is ready to put on turning gear. Commissioning in open cycle is possible within one month from availability of gas</p> <p><b>COMBINED CYCLE HRSG-I &amp; II</b><br/>Both the HRSGs order have placed on M/s Thermax (India) 23/10/10. HRSG erection completed. HT of both HRSGs completed. HRSG is ready for ABO.</p> <p><b>ST:</b><br/>ACC erection started on 01/05/12. ACC erection is under progress. ST order has placed on M/s G.E. on 04/12/10 and completed. TG erection started 26/04/12. TG Box Up completed. ST synchronization is expected within two and half month from availability of gas. Combined cycle commissioning is expected within 3month from availability of gas.</p> <p><b>BoPs:</b></p> <ul style="list-style-type: none"> <li>All the BoPs are either already completed or nearing completion.</li> </ul> |
| <b>Original /Latest Cost</b>     |   | : Rs. 93600 Lakhs / Rs. 125400 Lakhs   |                |                                  |                         |                        |     |  |
| Expenditure during 2010-11       |   | : Rs. 4649 Lakhs   |                |                                  |                         |                        |     |  |
| Expenditure during 2011-12       |   | : Rs. 74994 Lakhs  |                |                                  |                         |                        |     |  |
| Expenditure during 2012-13       |   | : Rs. 20008 Lakhs  |                |                                  |                         |                        |     |  |
| Expenditure during 2013-14       |   | : Rs. 16000 Lakhs  |                |                                  |                         |                        |     |  |
| Expenditure during 2014-15       |   | : Rs. 2913 Lakhs (upto 06/14)  |                |                                  |                         |                        |     |  |
| <b>Total Expenditure</b>         |   | : Rs. 118564 Lakhs (Upto 06/14)  |                |                                  |                         |                        |     |  |
| <b>Approval date:</b>            |   | : NA   |                |                                  |                         |                        |     |  |
| <b>Zero date:</b>                |   | : 04/12/10   |                |                                  |                         |                        |     |  |
| <b>Notice To Proceed (NTP)</b>   |   | : 04/12/10   |                |                                  |                         |                        |     |  |
| <b>Financial closure</b>         |   | : Achieved   |                |                                  |                         |                        |     |  |
| <b>Main Plant Order</b>          |   | : 20/09/10, 04/12/10 And 23/10/10 on M/s BETA Infraprop (P) Ltd (EPC Basis) through ICB route.   |                |                                  |                         |                        |     |  |
| <b>BTG Make</b>                  |   | GTGs# GE, France(6FA), HRSGs# Thermax (India).and STGs are from HTC China  |                |                                  |                         |                        |     |  |
| <b>BOP Package</b>               |   | : Reputed Indian Vendors   |                |                                  |                         |                        |     |  |
| <b>Type of fuel</b>              |   | : Natural Gas  |                |                                  |                         |                        |     |  |
| <b>PPA</b>                       |   | Yet to be signed   |                |                                  |                         |                        |     |  |
| <b>Source and supply of Fuel</b> |   | Domestic Gas from D-6, KG Basin (Right now E-Bidding RLNG)   |                |                                  |                         |                        |     |  |
| <b>Power Evacuation system</b>   |   | Connectivity of the plant with 220/132kV Mahua Khera Ganj substation has been approved. LILO of 220kV circuit from 400kV Kashipur to 220 kV Mahua Khera Ganj is nearing completion. Long Term Access (LTA) from 220kV/132kV Mahua Khera Ganj sub-station has been approved by PGCIL.   |                |                                  |                         |                        |     |  |
|                                  |   | <ul style="list-style-type: none"> <li>FSA yet to be signed</li> <li>All statutory clearances are available.</li> <li>All the BOPs are either already completed or nearing completion.</li> <li>Both the gas conditioning skids are yet to be made ready.</li> <li>Gas in gas pipeline charged upto GAIL skid inside the project.</li> <li>Switchyard with control room is ready.</li> </ul> |                |                                  |                         |                        |     |  |
| <b>Critical issues</b>           |   | Availability of Gas and PPA  |                |                                  |                         |                        |     |  |
| <b>Reasons for Delay</b>         |   | Non-availability of Gas.   |                |                                  |                         |                        |     |  |

\*Schedule will be decided after availability of gas

# **Western Region**

# BROAD STATUS OF THERMAL POWER PROJECTS IN CHHATTISGARH

| Sl. No.  | Project Details   | Unit   | Cap. (MW) | Commissioning Schedule |       |                              |             | Broad Status   |
|--|---|--|-----------|------------------------|-------|------------------------------|-------------|--|
|  |   |  |           | Original               |       | Actual(A)/ As Expected       |             |  |
|  |   |  |           | Synch/ Comm            | COD   | Synch. Comm                  | COD         |  |
| <b>Private Sector</b>  |   |  |           |                        |       |                              |             |  |
| 1  | Akaltara(Nariyara) TPP, (Distt: jangir-Champa) M/s KSK Mahanadi Power Company Ltd.(Formerly Wardha Power Company Ltd) | U-1 (U-3)  | 600       | 02/12<br>04/12         | 04/12 | 18/05/13 (A)<br>13/08/13 (A) | 14/08/13(A) | <p><b>Unit-1 (U-3)</b><br/> <b>COD achieved on 14/08/13. Commissioned on 13/08/13. Synchronised on 18/05/13.</b><br/> <b>Boiler:</b><br/>                     Boiler erection started on 01/09/10. Boiler Drum lifted on 29/04/11. Boiler HT (Non-Drainable) completed on 06/07/12. BLU completed on 10/04/13. SBO completed on 24/04/13 Oil synch. Completed on 18/05/13.<br/> <b>TG:</b><br/>                     TG Deck casting completed on 05/10/11. TG erection started on 16/04/12. TG boxed up on 06/11/12. TG oil flushing completed on 17/01/13.<br/> <b>FGD:</b> FGD plant expected in 6/22.<br/> <b>Unit-2 (U-4)</b><br/> <b>COD achieved on 26/08/14. Commissioned on 22/08/14. synchronized on 08/08/14.</b><br/> <b>Boiler.</b><br/>                     Boiler erection started on 01/12/10. Boiler Drum lifted 19/06/11. Boiler HT (Non-Drainable completed on 11/05/13.BLU completed on 17/05/14.SBO completed on 07/07/14.<br/> <b>TG:</b><br/>                     TG Deck casting completed on 20/02/12. TG erection started on 07/11/12. TG boxed up on 30/06/14. TG oil flushing completed. TG Barring gear completed in 07/14.<br/> <b>FGD:</b> FGD plant expected in 08/22.<br/> <b>Unit-3 (U-2)</b><br/> <b>COD achieved on 21/01/2018_ Commissioned on 18/01/18.</b><br/> <b>Boiler.</b><br/>                     Boiler erection started on 01/04/11. Boiler Drum lifted on 29/04/12. Boiler hydro Test(ND) is completed on 12/07/17. BLU completed on 18/11/17. SBO completed on 30/11/17.<br/> <b>TG:</b><br/>                     TG Deck casting completed. TG erection started on 05/01/17. TG Box Up is done on 25/10/17<br/> <b>FGD:</b> FGD plant expected in 10/22.<br/> <b>Unit-4 (U-5)</b><br/> <b>Boiler.</b><br/>                     Boiler erection started on 08/12/11. Boiler Drum lifted on 31/08/16. Pressure parts and joints erection is in progress. Duct erection work is in progress. Boiler Hydro Test yet to be happen.<br/> <b>TG:</b><br/>                     TG Deck casting completed on 06/10/12. Various level floor castingwork in progress.<br/> <b>FGD:</b> FGD plant expected in 12/22.<br/> <b>Unit-5 (U-1)</b><br/> <b>Boiler.</b><br/>                     Boiler erection started on 06/02/12. Foundation work is completed. Balance work in progress.<br/> <b>TG:</b><br/>                     TG Deck casting is yet to be completed.<br/> <b>FGD:</b> FGD plant expected in 02/23.<br/> <b>Presently order was placed for techno-commercial feasibility study with black and veatch for all six units.</b><br/> <b>Unit-6</b><br/> <b>Boiler:</b><br/>                     Boiler raft casting completed. Boiler erection yet to start. Foundation work is completed<br/> <b>TG:</b><br/>                     TG raft casting completed and column casting is in progress. Deck casting yet to be completed.<br/> <b>FGD:</b> FGD plant expected in 04/23.<br/> <b>FGD draft report under review</b><br/> <b>BoPs:</b><br/> <b>Chimney:-</b> Chimney 3,4 &amp; 2 are in service. Flue Cans Erection completed for all<br/> <b>CHP:</b> Ready in all respect<br/> <b>AHP:</b> Ready<br/> <b>Raw Water Supply System:</b> Water Resources Department, Govt., of Chhattisgarh has allocated 100 MCM of water /year from Mahanadi River<br/> <b>PT/ DM Plant:</b> Three streams are commissioned and in operation.<br/> <b>CW System:</b> majority of work has been completed. Only Connection between CW piping is pending for Unit #5 &amp;6.<br/> <b>IDCT:</b> IDCT for U-1(3), 2(4) &amp; U-3(2) are in service and for rest of unit's erection works are in progress.<br/> <b>FOPH:</b> Fuel oil distribution system commissioned<br/> <b>CCR Building</b> is ready for all units.<br/> <b>Switchyard:</b> Back charging of 400kV switchyard completed on 27/08/2012.<br/>                     Control building is in service.</p> |
| <b>(6x600MW=3600MW)</b>  |   | U-2 (U-4)  | 600       | 06/12<br>08/12         | 08/12 | 08/08/14(A)<br>22/08/14 (A)  | 26/08/14(A) |  |
|  |   | U-3 (U-2)  | 600       | 10/12<br>12/12         | 12/12 | 12/17(A)<br>18/01/18(A)      | 21/01/18(A) |  |
|  |   | U-4 (U-5)  | 600       | 02/13<br>04/13         | 04/13 | 06/19<br>06/19               | 06/19       |  |
|  |   | U-5 (U-1)  | 600       | 06/13<br>08/13         | 08/13 | 09/19<br>09/19               | 09/19       |  |
|  |   | U-6  | 600       | 10/13<br>12/13         | 12/13 | 12/19<br>12/19               | 12/19       |  |
| <b>Orginal Cost / Latest Cost</b>  |   | : Rs.1619000 Lakh / Rs. 2708000 lakhs  |           |                        |       |                              |             |  |
| <b>Exp. During 10-11</b>   |   | : Rs. 45529.8 Lakh   |           |                        |       |                              |             |  |
| <b>Exp. During 11-12</b>   |   | : Rs. 821600 Lakh  |           |                        |       |                              |             |  |
| <b>Exp. During 12-13</b>   |   | : Rs. 222416 lakhs   |           |                        |       |                              |             |  |
| <b>Exp. During 13-14</b>   |   | : Rs 209517 lakhs  |           |                        |       |                              |             |  |
| <b>Exp. During 14-15</b>   |   | : Rs.164917 lakhs  |           |                        |       |                              |             |  |
| <b>Exp. During 15-16</b>   |   | : Rs. 90320 lakhs  |           |                        |       |                              |             |  |
| <b>Exp. During 16-17</b>   |   | : Rs. 318700 lakhs   |           |                        |       |                              |             |  |
| <b>Exp. During 17-18</b>   |   |  |           |                        |       |                              |             |  |
| <b>Total Exp.( upto 12/16)</b>   |   | :Rs. 1873000 Lakhs   |           |                        |       |                              |             |  |
| <b>Approval date:</b>  |   | NA   |           |                        |       |                              |             |  |
| <b>Zero date:</b>  |   | 21/04/09   |           |                        |       |                              |             |  |
| <b>Financial closure</b>   |   | : Achieved on 30/03/10   |           |                        |       |                              |             |  |
| <b>EPC Order</b>   |   | : EPC ordered on 21/01/09 on SEPCO (China)   |           |                        |       |                              |             |  |
| <b>Package(BTG)</b>  |   | : (Boiler-Shanghai Boiler Works, China), (TG-Dongfang Electric Company, China)   |           |                        |       |                              |             |  |
| <b>Type of fuel</b>  |   | Coal   |           |                        |       |                              |             |  |
| <b>PPA</b>   |   | PPA: PPA signed with Gujarat Urja Vikas Nigam Ltd for 1010 MW on 03/06/10.<br>PPA signed with APCPDCL for 400 MW on 31/07/12.<br>PPA signed with CSP Trade Co for 225 MW on 18/10/13<br>PPA signed with TANGEDCO for 500 MW on 27/11/13<br>PPA signed with UPPCL for 1000 MW on 26/02/14 |           |                        |       |                              |             |  |
| <b>Power Evacuation system</b>   |   | Power is to be evacuated to PGCIL pooling station through 400kV transmission system. Final bulk power transmission agreement signed with PGCIL on 25/02/10.  |           |                        |       |                              |             |  |
| <ul style="list-style-type: none"> <li><b>Land:</b> Complete land for the project is under possession.</li> <li><b>MOE&amp;F:</b> Received on 19/10/09<br/>State Pollution Control Board: Chhattisgarh Environment Conservation Board (CECB) granted "consent for Establishment" for 6x600 MW on 16/02/10. State pollution Control Board Clearance: Chhattisgarh Environment Conservation Board (CECB) has granted "Consent for Establishment for 6x600 MW power plant of WPCLCG on 16/02/10.</li> <li><b>Civil Aviation:</b> NOC received on 12/05/09.</li> <li><b>Water:</b> Water Resources Department, Govt., of Chhattisgarh has allocated 100 MCM of water /year from Mahanadi River from proposed anicut at Basantpur.</li> <li><b>Coal linkage:</b> SECL (Tapering coal linkage to 3x600MW only) Letter of Assurance(LOA) for tapering coal linkage to 3x600 MW has been granted by SECL on 11/06/09. FSA has been executed with SECL on 19/03/14 for 2 units. Tapering FSA for U-3 has been executed with Eastern Coalfields Ltd on 12/08/14.</li> <li><b>As per the letter dated 18/10/16</b><br/>Coal blocks of Gujarat and Goa linked to the power project for cancelled by Supreme court. Tapering linkage granted for 1800 MW was also cancelled by the Ministry of Coal on 30/06/13. Long term coal linkage is required for the power project, for which policy is under formulation with GOI.</li> </ul> |   |  |           |                        |       |                              |             |  |
| <b>Critical issues</b>   |   | Coal Linkage to remaining 3 units.   |           |                        |       |                              |             |  |
| <b>Reasons for Delay</b>   |   | Delay due to shortage of manpower and agitations by Villagers. Supply of material due to shortage of funds.  |           |                        |       |                              |             |  |

\* Unit numbering is given as per order of commissioning. Unit numbering given in brackets is as per original nomenclature.

| Sl. No.  | Project Details  | Unit   | Capacity (MW) | Commissioning Schedule |     |                             |             | Broad Status  |
|--|--|--|---------------|------------------------|-----|-----------------------------|-------------|---|
|  |  |  |               | Original               |     | Actual(A)/ As Expected      |             |   |
|  |  |  |               | Synch/ Comm            | COD | Sync/ Comm                  | COD         |   |
| 2  | Uchpinda TPP<br>Unit-1(Ph-I)<br>Unit-2,3&4(Ph-II)<br>R.K.M Power, Janjgir<br>Champa District,<br>Chhattisgarh<br><br>(4x360MW=1440MW)  | U-1  | 360           | 03/12<br>05/12         | -   | 28.02.15 (A)<br>28.10.15(A) | 26.11.15(A) | <p><b>Unit-1 : COD achieved on 26.11.2015.<br/>Commissioneered on 28.10.2015.<br/>Synchronized on 28.02.15.</b></p> <p><b>Boiler:</b> Boiler erection started on 03/09/11. Boiler drum lifted on 22/04/12. HT test conducted on 07/09/13. BLU done on 08/11/14. SBO completed on 03/01/15. Unit. Consent to operate received on 17/07/15.</p> <p><b>TG:</b> TG erection started in 10/12. TG box up completed on 02/09/14. TG oil flushing completed 07/14. TG barring gear on 09/12/14.</p> <p><b>Unit-2 : COD achieved on 12.02.2016.<br/>Commissioneered on 28.01.2016.<br/>Synchronized on 07.01.2016.</b></p> <p><b>Boiler:</b> Boiler erection started on 12/12/11. Boiler drum lifted on 30/04/12. HT conducted on 07/11/13. Non drainable HT done on 27/03/14. BLU done on 17/04/15. SBO completed on 25/10/15. Unit. Coal fired on 07/01/16.</p> <p><b>TG:</b> TG erection started on 16/03/14. TG boxed up in 04/2015. TG Oil Flushing Completed in 07/15. TG on barring Gear in 07/15.</p> <p><b>Unit-3 : COD achieved on 14.11.2017.<br/>Commissioneered on 12.09.2017.<br/>Synchronization on 31.08.2017.</b></p> <p><b>Boiler:</b> Boiler erection started on 12/01/12. Boiler drum lifted on 19/05/12. HT (drainable) completed on 31/01/14. BLU achieved on 19/07/17. SBO completed on 16/08/17. Rolling done on 25/08/17. Coal firing done on 31/08/17.</p> <p><b>TG:</b> TG erection started on 11/10/14. HIP temporary box up completed and final box up completed on 26/07/17. TG put on BG on 01/08/17.</p> <p><b>Unit-4 : After getting CTO on 25.02.2019,<br/>COD achieved on 20.03.2019.<br/>Commissioneered on 06.03.2019.<br/>Synchronization on 06.03.2019.</b></p> <p><b>Boiler:</b> Boiler erection started on 30/04/12. Boiler drum lifted on 30/12/12. HT conducted on 20/01/15. ESP erection and commissioning completed.</p> <p><b>TG:</b> condenser erection started on 20/2/15. TG erection started on 25/11/14. TG box up completed in 3/18. TG Oil Flushing completed on 22/03/2018.</p> <p><b>BoPs:</b></p> <ul style="list-style-type: none"> <li><b>Chimney:</b> Chimney-1 Shell construction work completed (270m). Flue erection and insulation for U-1&amp;2 completed.</li> <li>Chimney-2: Shell construction work completed (270m). erection and insulation for U-3&amp;4 completed</li> <li><b>CHP:</b> Phase 1 &amp; 2 completed in all respect.</li> <li><b>AHP:</b> BAHS for U-1,2,3&amp;4 completed.</li> <li><b>PT/ DM Plant:</b> Three streams are commissioned and in operation. Forth stream commissioning to be done</li> <li><b>CW System:</b> CW pump house-1 civil work completed CW pump house-2 civil work completed and CW pumps erection is completed. CW piping for unit-1,2,3&amp;4 is completed</li> <li><b>Cooling Tower:</b> Aready Commissioned.</li> <li><b>FOPH:</b> HFO &amp; LDO storage tanks erected and insulation completed</li> <li><b>Switchyard:</b> Completed in all respects.</li> </ul> <p><b>FGD: Vendor identification under process.</b></p> |
|  |  | U-2  | 360           | 09/12<br>11/12         | -   | 07.01.16 (A)<br>28.01.16(A) | 12.02.16(A) |   |
|  |  | U-3  | 360           | 12/12<br>02/13         | -   | 31.08.17(A)<br>12.09.17(A)  | 14.11.17(A) |   |
|  |  | U-4  | 360           | 05/13<br>07/13         | -   | 06.03.19(A)<br>06.03.19(A)  | 20.03.19(A) |   |
| Org.Est. cost / latest cost (h-I-148750 lacs/ 263835 lacs Ph-II – 516611 lacs / 914616 lacs )  |  | : Rs. 665361 Lacs /1037733 lakhs/ 1178451  |               |                        |     |                             |             |   |
| Exp. During 07-08  |  | : Rs. 1270 Lacs  |               |                        |     |                             |             |   |
| Exp. During 08-09  |  | :Rs. 12311 Lacs  |               |                        |     |                             |             |   |
| Exp. During 09-10  |  | : Rs. 37363 Lacs   |               |                        |     |                             |             |   |
| Exp. During 10-11  |  | : Rs. 67641 lacs   |               |                        |     |                             |             |   |
| Exp. During 11-12  |  | : Rs. 153338 lacs  |               |                        |     |                             |             |   |
| Exp. During 12-13  |  | : Rs. 277291 lacs  |               |                        |     |                             |             |   |
| Exp. During 13-14  |  | : Rs. 255521 lacs  |               |                        |     |                             |             |   |
| Exp. During 14-15  |  | : Rs. 119057 lacs  |               |                        |     |                             |             |   |
| Exp. During 15-16  |  | : Rs 99890 lacs  |               |                        |     |                             |             |   |
| Exp. During 16-17  |  | : Rs 106584 lacs   |               |                        |     |                             |             |   |
| Exp. During 17-18  |  | : Rs 12476 lacs  |               |                        |     |                             |             |   |
| Cumm Exp. (Up to 10/17 )   |  | : Rs.1141842 lacs  |               |                        |     |                             |             |   |
| Zero date:   |  | : 01/06/09   |               |                        |     |                             |             |   |
| Financial closure  |  | : 07/06/10 (Ph-II)<br>02/01/09 (Ph-I)  |               |                        |     |                             |             |   |
| Main Plant Order   |  | 06/09. on M/s MIPP International.<br><b>Boiler:</b> China Western<br><b>TG:</b> Harbin   |               |                        |     |                             |             |   |
| BOP Package  |  | GM technical services, Ph-1 & 2 18/01/2011   |               |                        |     |                             |             |   |
| Type of fuel   |  | Coal   |               |                        |     |                             |             |   |
| PPA  |  | : Signed with CSEB for 37.5% on 29/09/06 and PTC for sale of 300 MW on 08/05/09. PPA for sale of 350 MW signed with UPPCL on 15/03/16.                           |               |                        |     |                             |             |   |
| Power Evacuation system  |  | BPTA signed with PGCL on 25/02/10. BG for Rs. 40.95 cr given to PGCL. Detail route survey completed Route alignments completed. TSA agreement signed on 06/08/12 |               |                        |     |                             |             |   |
| <ul style="list-style-type: none"> <li><b>Land:</b> Total 900 acres' land acquired. Govt. land: 104 acres &amp; private land 645.51 acres. 94.17 acres Govt. land allocated for green belt development.</li> <li><b>MOE&amp;F:</b> Obtained on 26/08/08.</li> <li><b>Civil Aviation:</b> AAI issued NOC on 05/09/2008.</li> <li><b>Water:</b> 44.83 MCM per annum.</li> <li><b>Coal linkage:</b> FSA signed with SECL for Phase-I on 03/09/13 and phase-II on 23/09/13.</li> </ul> |  |  |               |                        |     |                             |             |   |
| Critical issues  | Consent to Operate-Due to non availability of CTO, Developer is not able to commission the Unit 4. Tapering coal linkage has been cancelled by SECL. BG to be issued to release FDR amounts paid customs. PPA issue- CSPTCL has expressed inability to offtake power as per PPA. Working Capital required for starting operation of U-1 is 153 cr & for U-2,3, and 4 is 571 cr. Readiness of Railway siding(work delayed due to land acquisition because of new land acquisition policy and funds) |  |               |                        |     |                             |             |   |
| Reasons for Delay  | Work suffered due to agitation by villagers. Slow progress of work at site. Delay in readiness of BoPs. Delay in readiness of startup power. Delay due to financial problems. Balance land acquisition for Ash pond and railway line. Consent to operate for U-2,3&4.  |  |               |                        |     |                             |             |   |

SK-02/05/2019

| Sl. No.  | Project Details   | Unit   | Capacity (MW)  | Commissioning Schedule |     |                        |     | Broad Status  |  |
|--|---|--|--|------------------------|-----|------------------------|-----|---|--|
|  |   |  |  | Original               |     | Actual(A)/ As Expected |     |   |  |
|  |   |  |  | Synch/ Comm            | COD | Sync./ Comm            | COD |   |  |
| 3  | Lanco Amarkantak Mega TPS ( Pathadi ) (Distt. Korba ) M/s LAP Pvt. Ltd. Phase-II (2x660MW=1320MW) | 3  | 660  | 01/12<br>01/12         | -   | *                      | *   | <b>Unit-3</b><br><ul style="list-style-type: none"> <li>• <b>Boiler:</b> erection started on 09/10. HT completed on 22/07/16. BLU delayed due to non-availability of start-up power.</li> <li>• <b>TG:</b> Condenser erection started on 1/05/11 and completed &amp; partially tube leak test completed. TG erection started on 11/10/11. TG Box up completed on 26/11/16.</li> <li>• <b>ESP:</b> Pass B ATT completed. Pass C ATT is also completed.</li> </ul> <b>Work is held up at the site due to fund constraints since 07/17.</b><br><br><b>Unit-4</b><br><ul style="list-style-type: none"> <li>• <b>Boiler:</b> Boiler erection started on 1/12/10</li> <li>• <b>TG:</b> Condenser erection started on 11/11/11. TG Deck casting completed &amp; TG erection started on 15/05/13</li> <li>• <b>ESP:</b> All 4 passes are under progress.</li> </ul> <b>BoPs:</b><br><ul style="list-style-type: none"> <li>• <b>Chimney:</b> RCC shell completed. Flue can erection work completed for U-3. Flue can assembly work is u/p. Structure erection 76% completed. Stack elevator erection, alignment &amp; commissioning completed.</li> <li>• <b>CHP:</b> Track hopper work completed. Crucher house erection work is u/p. TP 11,7,8,9 structural erection completed. Equipment erection is u/p.</li> <li>• <b>AHP:</b> Ash slurry pump house; All civil work completed. Paving&amp; finishing are u/p. fly ash tower work completed.</li> <li>• <b>Cooling Tower:</b> 10985m3 RCC casting completed. All 24 nos deck slab completed in CU-3. 8979m3 RCC casting completed and 24 nos deck slab completed in CT U-4.</li> <li>• <b>Raw Water Supply System:</b> river water intake pump house slab casting completed. RCC work &amp; backfilling completed in forebay. Pump house MCC room- slab casting completed.</li> <li>• <b>PT/ DM Plant:</b> PT plant-RCC work is completed. Pumps erection is u/p. DM pant- DM plant building, erection, alignment and grouting of vessels are u/p. DM water storage tanks are also ready.</li> <li>• <b>FOPH:</b> LDO &amp; HFO tank erection &amp; NDT wok completed. Erection of all pumps completed. Piping work is u/p.</li> <li>• <b>Switchyard:</b> Switchyard building, switchyard tower, gentry erection SCADA commissioning &amp; testing of all equipment is completed</li> </ul> |  |
|  |   | 4  | 660  | 03/12<br>03/12         | -   | *                      | *   |   |  |
|  | <b>Original /Latest Cost</b>  |  | Rs.688600 Lakhs/ Rs770000 Lakhs/Rs. <b>1081524 lakhs</b> |                        |     |                        |     |   |  |
|  | Expenditure during 2007-08  |  | Rs. 189 lakhs  |                        |     |                        |     |   |  |
|  | Expenditure during 2008-09  |  | Rs. 209 lakhs  |                        |     |                        |     |   |  |
|  | Expenditure during 2009-10  |  | Rs. 9841 lakhs   |                        |     |                        |     |   |  |
|  | Expenditure during 2010-11  |  | Rs.206364 lakhs  |                        |     |                        |     |   |  |
|  | Expenditure during 2011-12  |  | Rs 262658 lakhs  |                        |     |                        |     |   |  |
|  | Expenditure during 2012-13  |  | Rs. 125739 Lakhs   |                        |     |                        |     |   |  |
|  | Expenditure during 2013-14  |  | Rs. 12500 Lakhs  |                        |     |                        |     |   |  |
|  | Expenditure during 2014-15  |  | Rs. 61445 Lakhs  |                        |     |                        |     |   |  |
|  | Expenditure during 2015-16  |  | Rs 165255 Lakhs  |                        |     |                        |     |   |  |
|  | Expenditure during 2016-17  |  | Rs 109579 Lakhs  |                        |     |                        |     |   |  |
| Expenditure during 2017-18   |   |  |  |                        |     |                        |     |   |  |
| <b>Total Expenditure</b>   |   | <b>Rs. 953779 lakhs ( up to 12/16)</b>   |  |                        |     |                        |     |   |  |
| <b>Zero date:</b>  |   | 17/11/09   |  |                        |     |                        |     |   |  |
| <b>Financial closure</b>   |   | Achieved in March,2011   |  |                        |     |                        |     |   |  |
| <b>Main Plant Order</b>  |   | Unit-3 &4: Main plant package (BTG) awarded on 17/11/09 to M/s DEC   |  |                        |     |                        |     |   |  |
| <b>BOP Package</b>   |   | Main plant package (BTG) awarded on 17/11/09 on M/s DEC as vendor and award of contracting agency on 12/11/09 on M/s HTC/HEC.  |  |                        |     |                        |     |   |  |
| <b>Type of fuel</b>  |   | Coal   |  |                        |     |                        |     |   |  |
| <b>PPA</b>   |   | PPA signed with CSP Tradeco for 35% home state share on 04/01/11   |  |                        |     |                        |     |   |  |
| <b>Power Evacuation system</b>   |   | LTOA approved and BPTA signed on 24/02/10. Pooling station location at Champa to be confirmed by PGCIL to start survey.  |  |                        |     |                        |     |   |  |
| <ul style="list-style-type: none"> <li>• <b>Land:</b> Total land requirement for U-1,2,3,&amp;4 is 1395 acres out of which 791 acres already acquired. For the entire balance land, section 4,6 &amp;9 completed. Lease deed is to be registered shortly. (Lease deed signed for 90% of total land with CSIDC, Raipur and balance is Under process).</li> <li>• <b>MOE&amp;F:</b> MOEF clearance for unit-3 received on 04/09/08 &amp; renewed on 19/02/14 up to 12/2017 and for Unit-4 on 26/05/10 &amp; renewed on 22/06/15 up to 12/2017.</li> <li>• <b>Civil Aviation:</b> NOC for 275 m. Twin flue chimney was obtained on 25/08/08 from AAI.</li> <li>• <b>Water:</b> Sanction of Water requirement of 54 MCM from Hasdeo river for U-3 &amp; U-4 received from Govt. of Chhattisgarh.</li> <li>• <b>Coal linkage:</b> U-3: LOA issued by SECL on 06/06/09. All milestones achieved. Letter submitted to SECL. FSA signed for U-3 on 27/08/13 U-4: LOA issued by SECL on 03/06/10. All milestones achieved. Letter submitted to SECL. FSA signed on 27/08/13.</li> </ul> |   |  |  |                        |     |                        |     |   |  |
| <b>Critical issues</b>   |   | Additional land acquisition is in progress.  |  |                        |     |                        |     |   |  |
| <b>Reasons for Delay</b>   |   | Delay in acquisition of land for water system. Post award change in specification like high density system in AHP and wagon tripler in CHP due to statutory compliance and other constrains like. Frequent stoppage of construction work by local people and land loser. <b>Presently work is held up at site due to financial constraints</b> |  |                        |     |                        |     |   |  |

\*Due to insolvency problem, project activities are on hold. The commissioning schedule will be decided after restart of work.

| Sl. No.  | Project Details  | Unit  | Capacity (MW) | Commissioning Schedule |     |                            |             | Broad Status   |
|--|--|---|---------------|------------------------|-----|----------------------------|-------------|--|
|  |  |   |               | Original               |     | Actual(A)/ As Expected     |             |  |
|  |  |   |               | Synch/Comm             | COD | Sync./Comm                 | COD         |  |
| 4  | Salora TPP<br>(Katghora Tal; Distt. Korba)<br>M/s Vandana Vidyut Ltd<br><br>(2x135=270MW)  | U-1   | 135           | 06/11<br>06/11         | -   | 04/09/13(A)<br>10/04/14(A) | 01/05/14(A) | <p><b>Unit-1</b><br/>COD achieved on 01/05/14. Commissioned on 10/04/14. Unit synchronized on 04/09/13.</p> <ul style="list-style-type: none"> <li><b>Boiler:</b><br/>Erection of Boiler-1 started in 11/10. Boiler Drum lifted on 23/02/11. HT completed on 28/01/12. BLU completed on 06/03/13. SBO completed. TG: TG erection started in 11/11 and TG box-up completed in 07/12.</li> </ul> <p><b>Unit-2</b></p> <ul style="list-style-type: none"> <li><b>Boiler:</b><br/>Boiler erection started in 11/10 and drum lifted in 04/11. HT completed in 10/12. BLU completed in 09/14 and steam blowing completed in 10/14. Delay due to supply of boiler material &amp; CHP material by M/s Cethar Vessels Ltd. and delay in getting of startup power. Delay due to agitation by the villagers at project site.</li> <li><b>TG:</b> erection started in 11/11 and TG boxed-up 09/14 and put on barring gear in 10/14.</li> </ul> <p><b>BoPs:</b></p> <ul style="list-style-type: none"> <li><b>Chimney:</b> Flue can erection completed.</li> <li><b>CHP:</b> Under progress.</li> <li><b>AHP:</b> Under progress.</li> <li><b>CW System:</b> Under progress.</li> </ul> |
|  |  | U-2   | 135           | 09/11<br>09/11         | -   | Uncertain                  | Uncertain   |  |
| <b>Original / Latest Cost</b>  |  | :Rs 1458.44 Cr./ Rs. 1458.44 Crs.   |               |                        |     |                            |             |  |
| Exp. During 2009-10  |  | :Rs 14441 lakhs   |               |                        |     |                            |             |  |
| Exp. During 2010-11  |  | : Rs . 43617 lakhs  |               |                        |     |                            |             |  |
| Exp. During 2011-12  |  | : Rs . 88942 lakhs  |               |                        |     |                            |             |  |
| Exp. During 2012-13  |  | : Rs . 38000 lakhs  |               |                        |     |                            |             |  |
| Exp. During 2013-14  |  | : Rs . 38657 lakhs  |               |                        |     |                            |             |  |
| Exp. During 2014-15  |  | : <b>Rs.15032 lakhs</b>   |               |                        |     |                            |             |  |
| <b>Cumm. Exp. ( up to 03/15)</b>   |  | : <b>Rs.238689 lakhs</b>  |               |                        |     |                            |             |  |
| <b>BOP Package</b>   |  | LOA has been issued on 21/11/08 on M/s Cethar Vessels Ltd , Thiruchirapalli on BTG basis , Boiler : Cethar Vessels Ltd, Turbine Genarator: M/s Harbine Turbine Co.Ltd, China      |               |                        |     |                            |             |  |
| <b>Type of fuel</b>  |  | Coal  |               |                        |     |                            |             |  |
| <b>PPA</b>   |  | 50 MW to TNEB through NVVN ( Short term basis) for one year. PPA was signed with CSPTCL on 05/01/11   |               |                        |     |                            |             |  |
| <b>Power Evacuation system</b>   |  | PGCIL granted LTOA & BPTA executed on 24/02/10. LILO line construction is completed. Elect. Inspectorate ,CEA (WR) has given approval for LILO and 400 kV switchyard on 04/08/12. |               |                        |     |                            |             |  |
| <ul style="list-style-type: none"> <li><b>Land:</b> Land : Required 261 Ha , Possession : 260.899 Ha.</li> <li><b>MOE&amp;F:</b> obtained on 09/06/09. and State pollution clearance obtained on 09/03/09</li> <li><b>Civil Aviation:</b> clearance obtained on 24/04/09</li> <li><b>Water:</b> 18 MCM Water allocated by WRD, Govt. of C.G from Hasdeo River</li> <li><b>Coal linkage:</b> Allocation of coal is from Fatehpur East Coal Block ( Jointly) allotted by MOC and tapering coal linkage granted for 2x135 MW on 29/01/10 from SLC, LT meeting of MOC, for 2<sup>nd</sup> phase of 1x270 MW under process with MoC. Carpet coal recommended for CEA for startup of 1<sup>st</sup> unit.</li> </ul> |  |   |               |                        |     |                            |             |  |
| <b>Critical issues</b>   | Start up / carpet coal MOU is pending with SECL. FSA execution is pending with SECL<br>Turbine -2 was ready from last 9 months ( as on 09/14), For commissioning HEC/HTC Engineers are required. AVR Feed back Card- pending from long time, LVDT replacement- All the LVDT are not working. Rotor stoppage alarm panel to be supplied, supply of Technical data sheet of TG instruments and ISCAN-2 for Unit-2 as per letter dated in 09/14 |   |               |                        |     |                            |             |  |
| <b>Reasons for Delay</b>   | Delay in commissioning of U-1. Agitation by villagers at site. Delay in supply of BTG and CHP material. Non corporation of BTG supplier in commissioning activities. Acquisition for railway siding and ash pond.  |   |               |                        |     |                            |             |  |

| Sl. No.                  | Project Details  | Unit   | Capacity (MW) | Commissioning Schedule |       |                        |           | Broad Status   |  |
|--------------------------|--|--|---------------|------------------------|-------|------------------------|-----------|--|--|
|                          |  |  |               | Original               |       | Actual(A)/ As Expected |           |  |  |
|                          |  |  |               | Synch                  | Comm  | Syn.                   | Comm COD  |  |  |
| 5                        | Deveri TPP Raigarh TPP (Visa)<br>(VISA Raigarh STPP, Ph-I)<br>(Distt: Jangir Champa)<br>M/s VISA Power Ltd.<br><br>(1x600+1x660=1260MW)  | U-1  | 600           | 06/13                  | 08/13 | Uncertain              | Uncertain | <p><b>Unit-1</b></p> <ul style="list-style-type: none"> <li><b>Boiler:</b><br/>Boiler erection started on 30/09/11. 8th tier erection completed. Ceiling girder A, B, C, D, E&amp; F erection completed. Work held up due to financial Problems.</li> <li><b>TG:</b><br/>TG deck raft completed and shuttering work final deck casting U/P. EOT crane erected and commissioned.</li> <li><b>ESP:</b> Pass A casing erection work completed. Suspensions for electrodes erection completed. Erection of collecting electrodes up to 10th field completed. Hopper top part erection completed in all 10 fields.<br/>Pass B: Column erection work completed.<br/>Pass-C- electrode erection completed in all 10 fields.<br/>Pass D: Casing erection completed. electrode erection</li> </ul> <p><b>BoPs:</b></p> <ul style="list-style-type: none"> <li>Chimney: Foundation works completed and shell casting work U/P. Chimney awarded to Bygging India Ltd on 15/01/15</li> <li>CHP: PCC in wagon tippler &amp; TP-2 area is U/P.<br/>Coal Mill &amp; Mill Bunker Building: All mill foundation &amp; bunker pedestal casting completed. Bunker structure and shell fabrication under progress.</li> <li>Raw Water Supply System: Raw Water pipe line awarded to TATA Projects Ltd. On 14/07/11</li> <li>CW System: Raw Water pipe line awarded to TATA Projects Ltd. On 14/07/11</li> <li>IDCT: CT awarded to Paharpur cooling Towers 25/01/12. IDCT-I &amp; 2 excavation work completed.</li> <li>Switchyard: Foundation works completed and shell casting work U/P.</li> </ul> |  |
|                          |  | U-2  | 660           |                        |       | Uncertain              | Uncertain |  |  |
|                          | Org. Est. cost for both the units  | Rs. 619000 Lakh  |               |                        |       |                        |           |  |  |
|                          | Unit-1 cost  | Rs. 261870 lakhs   |               |                        |       |                        |           |  |  |
|                          | Unit-1 Latest cost   | Rs. 393000 lakhs   |               |                        |       |                        |           |  |  |
|                          | Exp. During 10-11  | Rs. 51763 lakhs  |               |                        |       |                        |           |  |  |
|                          | Exp. During 11-12  | Rs. 53457 Lakh   |               |                        |       |                        |           |  |  |
|                          | Exp. During 12-13  | Rs. 15481 Lakh   |               |                        |       |                        |           |  |  |
|                          | Exp. During 13-14  | Rs. 47890 Lakh   |               |                        |       |                        |           |  |  |
|                          | Exp. During 14-15  | Rs. 36759 Lakh   |               |                        |       |                        |           |  |  |
|                          | Exp. During 15-16 ( Up to 11/15)   | Rs. 2373 Lakh  |               |                        |       |                        |           |  |  |
|                          | Cumm. Exp (11/15)  | Rs. 207723 lakhs   |               |                        |       |                        |           |  |  |
|                          | Approval date:   |  |               |                        |       |                        |           |  |  |
|                          | Zero date:   | 09/08/10   |               |                        |       |                        |           |  |  |
|                          | Financial closure  | Achieved for both the units  |               |                        |       |                        |           |  |  |
|                          | Main Plant Order   | BTG Contract awarded on 28/06/10 to M/s BHEL (Boiler-BHEL) (TG- BHEL)  |               |                        |       |                        |           |  |  |
|                          | BOP Package  | The order for all the BOPs on EPC basis including civil works have been placed on M/s L&T on 29/09/10. BHEL (Trichy) supplied 13031 MT for Boiler & BHEL(Ranipet) 7340MT for ESP up to 11/2014 out of which 5792 MT of Boiler & 3749 MT of ESP erected. BHEL (PSWR) supplied 3863 MT of bunker structure material, out of which 2261 MT bunker structure fabricated. BHEL piping center (Chennai) supplied 1235 MT |               |                        |       |                        |           |  |  |
| Type of fuel             | Coal   |  |               |                        |       |                        |           |  |  |
| PPA                      | PPA Signed with CSPTCL & WBSEDCL for 424 MW & 200 MW and WBSEDCL for 200MW.<br>As per letter dated 14/01/14<br>PPA signed with WBSDCo. Ltd on 04/01/11 for 510 MW for 20 years through MOU route with 3part tariff (Cap. Charges+ energy Charges+ transportation charges). CSPTCo.Ltd an authorised representative of GOCG to execute PPA with Developers on behalf of the GOCG. This PPA is in line with the implementation agreement executed with GOCG  |  |               |                        |       |                        |           |  |  |
| Power Evacuation system  | Awarded the contract for construction of 400kV D/C transmission line on M/s KEC on 24/06/11. From PGCIL S/S at New Kotra. 400/765 Kv Pooling station for power evacuation – bays construction given to Alstom T7D on 31/12/11.   |  |               |                        |       |                        |           |  |  |
| BTPA                     | 24/02/10   |  |               |                        |       |                        |           |  |  |
|                          | <ul style="list-style-type: none"> <li>Land: Delay in land acquisition &amp; delay in placement of orders for BoPs. Delay in supply of boiler drum by BHEL. Work is on hold due to Financial crunch.</li> <li>MOE&amp;F: MOEF clearance obtained on 23/08/11<br/>Amendment in MOEF clearance issued on 20/05/14 regarding the reduction in project area of 780 acres to 637 acres.<br/>Fatehpur coal block allocated to the Visa Power.</li> <li>Civil Aviation: clearance from AAI received on 25/05/10.</li> <li>Water: Water allocation received from WRD, Chhattisgarh for 35 MCM on 26/09/09</li> <li>Coal linkage: Fatehpur East Coal Block jointly allotted. Domestic coal linkage applied. FSA signed with Indonesian coal supplier (PT Kubara Bumi Lestari) for supply of imported coal.</li> </ul> |  |               |                        |       |                        |           |  |  |
| <b>Critical issues</b>   | Boiler Drum has not dispatched by the BHEL   |  |               |                        |       |                        |           |  |  |
| <b>Reasons for Delay</b> | Order of AHP, Fire protection system, AC & ventilation system, LT/Ht switchgear, cables, air compressor, LT transformers, station, GT & unit transformer not yet placed. Work is on hold due to financial crunch.  |  |               |                        |       |                        |           |  |  |



| SI.                            | Project Details  | Unit   | Capacity (MW) | Commissioning Schedule |     |                        |     | Broad Status  |  |
|--------------------------------|--|--|---------------|------------------------|-----|------------------------|-----|---|--|
|                                |  |  |               | Original               |     | Actual(A)/ As Expected |     |   |  |
|                                |  |  |               | Synch/Comm             | COD | Sync./Comm             | COD |   |  |
| 6                              | Singhitarai TPP (Dumatpalli TPP) Janjgir (Vill) Champa Distt. (M/s Athena Chhattisgarh Power Ltd) (2x600=1200MW)   | U-1  | 600           | 10/14<br>11/14         | -   | *                      | *   | <p><b>Unit-1:</b><br/><b>Boiler</b><br/>Boiler erection started in 29/07/12. Drum lifted on 07/04/13. Non-Drainable HT done on 08/10/15. <b>Work at site is on hold due to financial constraints.</b></p> <p><b>TG</b><br/>TG erection started on 04/07/13. Condenser erection started on 16/05/13. <b>Work at site is on hold due to financial constraints</b></p> <p><b>Unit-2:</b><br/><b>Boiler</b><br/>Boiler erection started on 24/12/12 Drum lifted on 30/10/13. <b>Work at site is on hold due to financial constraints</b></p> <p><b>TG</b><br/>TG erection started in 29/11/13. Condenser erection started on 01/01/14. <b>Work at site is on hold due to financial constraints</b></p> <p><b>BoPs:</b></p> <ul style="list-style-type: none"> <li>• <b>Chimney:</b> Erection of flue cans and stair case completed External painting completed.</li> <li>• <b>CHP:</b> Major Erection works completed.</li> <li>• <b>AHP:</b> Major Erection/construction works completed.</li> <li>• <b>Raw Water Supply System:</b> RWIS from river Mahanadi to ACPL-contract awarded on 16/05/11 Barrage construction completed &amp; finishing work in progress NoC received from WRD, GoC for laying of pipeline along the canal on 31/10/10. approval received for Nala crossing and road crossing. RWIPH construction completed.</li> <li>• <b>PT/ DM Plant:</b> First stream commissioning done in auto mode successfully &amp; commissioning of other streams are in progress.</li> <li>• <b>CW System:</b> Erection of motor &amp; pumps completed.</li> <li>• <b>CT:</b> all works completed.</li> <li>• <b>FOHS:</b> No load trail run of motors completed. Hydro test in progress for pipes.</li> <li>• <b>Switchyard:</b> commissioning works are Completed.</li> </ul> |  |
|                                |  | U-2  | 600           | 01/15<br>02/15         | -   | *                      | *   |   |  |
|                                | Original Cost/Latest cost  | : Rs. 620000 lakhs/ Rs. 811900 lakhs (844379 l lakh further revised) |               |                        |     |                        |     |   |  |
|                                | Exp up to 03/2008  | :Rs. 371 lakhs   |               |                        |     |                        |     |   |  |
|                                | Exp 2008-09  | :Rs. 3509 lakhs  |               |                        |     |                        |     |   |  |
|                                | Exp 2009-10  | :Rs. 6690 lakhs  |               |                        |     |                        |     |   |  |
|                                | Exp. 2010-11   | :Rs. 56343 lakhs   |               |                        |     |                        |     |   |  |
|                                | Exp. 2011-12   | :Rs. 50204 lakhs   |               |                        |     |                        |     |   |  |
|                                | Exp. 2012-13   | :Rs. 92116 lakhs   |               |                        |     |                        |     |   |  |
|                                | Exp. 2013-14   | :Rs. 129337 lakhs  |               |                        |     |                        |     |   |  |
| Exp. 2014-15                   | :Rs. 154090 lakhs  |  |               |                        |     |                        |     |   |  |
| Exp. 2015-16                   | :Rs. 62395 lakhs   |  |               |                        |     |                        |     |   |  |
| Exp. 2016-17                   | : Rs. 74611 lakhs  |  |               |                        |     |                        |     |   |  |
| Exp. 2017-18                   | : Rs. 11181 lakhs  |  |               |                        |     |                        |     |   |  |
| <b>Cum.Exp. up to 05/17</b>    | <b>:Rs. 640847 lakhs</b>   |  |               |                        |     |                        |     |   |  |
| <b>Zero date:</b>              | 01/06/11 (NIT issued)  |  |               |                        |     |                        |     |   |  |
| <b>Financial closure</b>       | : Achieved (Common loan agreement signed on 30/03/11)  |  |               |                        |     |                        |     |   |  |
| <b>Main Plant Order</b>        | : Awarded on 21/12/09 to M/s DECL.   |  |               |                        |     |                        |     |   |  |
| <b>BOP Package</b>             | M/s Abir infrastructure on 18/08/10  |  |               |                        |     |                        |     |   |  |
| <b>Type of fuel</b>            | Coal   |  |               |                        |     |                        |     |   |  |
| <b>PPA</b>                     | Long term and short term PPA signed with PTC. 444 MW signed with CSPT and 150 MW signed with Nepal electricity authority. For 300 MW- LOI received & for 200 MW participated in Case-I bidding in RRVPN and 107.5MW participated in the case-I bid invited by MP power mgmt. company ltd. For supply of 107.5MW power on the long term bases.  |  |               |                        |     |                        |     |   |  |
| <b>Power Evacuation system</b> | LTOA granted on 01/10/09. Signed BTPA with PGCIL for 683 MW 24/02/10. ISTS approval received from PGCIL on 14/06/11. Approval received form MoP for construction of 400kV D/c dedicted line from ACPL to New Kotra(PGCIL). NOC for tower height clearance received for double and multiple circuit tower from AAI. Test charging of 400kV transmission line-1 & 2 completed.   |  |               |                        |     |                        |     |   |  |
|                                | <ul style="list-style-type: none"> <li>• <b>Land:</b> 927.275 acres of land in possession, 25.96 Acres of Govt land leased to company..</li> <li>• <b>MOE&amp;F:</b> Obtained on 04/06/10. Amendment of EC received on 22/03/16</li> <li>• <b>Civil aviation:</b> Clearance received from AAi, Mumbai on 09/04/09</li> <li>• <b>Water:</b> 35 MCM per annum allocated from Mahanadi.</li> <li>• <b>Coal linkage:</b> FSA signed with SECL on 27/02/15 for supply of 2497242 Tonnes/annum.</li> </ul> |  |               |                        |     |                        |     |   |  |
| <b>Critical issues</b>         | Delay in BTG erection work. <b>Work at site is on hold due to financial constraints</b>  |  |               |                        |     |                        |     |   |  |
| <b>Reasons for Delay</b>       | Delay in Land Acquisition. Slow progress of boiler & TG erection. Delay due to financial problems  |  |               |                        |     |                        |     |   |  |

\*Work at site is on hold due to financial constraints. The commissioning schedule will be decided after restart of work.

| Sl. No.   | Project Details  | Unit   | Capacity (MW) | Commissioning Schedule |     |                            |             | Broad Status   |
|---|--|--|---------------|------------------------|-----|----------------------------|-------------|--|
|   |  |  |               | Original               |     | Actual(A)/ As Expected     |             |  |
|   |  |  |               | Sync/ Comm             | COD | Sync/ Comm                 | COD         |  |
| 7   | Binjkote TPP<br>SKS power Gen. (Chhattis.) Ltd<br>Vill-Binjkote, Distt.: Raigarh,<br>State-Chhattisgarh<br><br>(4x300=1200MW)  | U-1  | 300           | 08/13<br>09/13         | -   | 26/01/17(A)<br>25/04/17(A) | 06/10/17(A) | <b>Unit-1:</b><br><b>COD achieved on 06/10/17. Full load achieved on 25/04/17. Syn on 26/1/17.</b><br><b>Boiler:</b><br>Boiler erection started on 12/06/12. Boiler drum lifted on 02/05/13. HT conducted on 27/06/14. BLU completed on 09/07/16<br><b>TG :</b><br>Condenser erection started 04/14. TG erection started in 05/14. TG box up completed on 09/08/16.<br><b>Unit-2</b><br><b>COD achieved on 01/04/18. Full load achieved in 28/03/18. Syn is completed in 12/17.</b><br><b>Boiler :</b><br>Boiler erection started on 08/09/12. Boiler drum lifted on 30/05/13. Boiler light up has completed on 27/03/17. EDTA cleaning done on 03/05/17 Steam blowing completed in 11/17.<br><b>TG :</b><br>Condenser erection started in 01/15. TG erection Started in 09/14. TG put on barring gear on 30/08/17.<br><b>Unit-3:</b><br><b>Work yet to start</b><br><b>Unit-4:</b><br><b>Work yet to start</b><br><b>* The dates would be decided after start of Boiler erection start.</b><br><b>BoPs:</b><br>• <b>CHP:</b> Ready in all respect.<br>• <b>AHP:</b> Ready in all respect.<br>• <b>Raw Water Supply System:</b> raw water intake pump commissioned, raw water reservoir completed.<br>• <b>PT/ DM Plant:</b> already commissioned.<br>• <b>CW System:</b> Ready.<br>• <b>FOPH:</b> Ready<br>• <b>Switchyard:</b> 440kV trans line charged on 09/05/15. 20/6.6Kv line charged on 20/01/16 |
|   |  | U-2  | 300           | 11/13<br>12/13         | -   | 12/17(A)<br>28/03/18(A)    | 01/04/18(A) |  |
|   |  | U-3  | 300           | 02/14<br>03/14         | -   | *                          | *           |  |
|   |  | U-4  | 300           | 05/14<br>06/14         | -   | *                          | *           |  |
|   | Original Cost /Latest Cost: Ph-I: 3787.2 Cr& Ph-II : 3106.8 Cr /Latest Cost : Ph-I : 5240Cr & Ph-II: 3200 Cr less 500 Cr   | : Rs. 505800 lakhs / Rs. 689000 lakhs / Rs. 794000 lakhs   |               |                        |     |                            |             |  |
|   | Exp. During 2008-09<br>Exp. During 2009-10<br>Exp. During 2010-11<br>Exp. During 2011-12<br>Exp. During 2012-13<br>Exp. During 2013-14<br>Exp. During 2014-15<br>Exp. During 2015-16 | : Rs 4000 lakhs<br>: Rs. 5225 lakhs<br>: Rs. 21435 lakhs<br>: Rs. 55000 lakhs<br>: Rs. 126590 lakhs<br>: Rs. 46778 lakhs<br>: Rs.112677 lakhs<br>: <b>Rs. 11095 lakhs</b> ( up to 06/15) |               |                        |     |                            |             |  |
|   | <b>Cumm. Exp Up to 06/15.</b>  | : <b>Rs 382800 lakhs</b>   |               |                        |     |                            |             |  |
|   | <b>Approval date:</b>  | SKS signed an MOU with Govt. of Chhattisgarh on 07/01/08.for setting up coal based TPS.  |               |                        |     |                            |             |  |
|   | <b>Zero date:</b>  | : <b>12/05/11</b>  |               |                        |     |                            |             |  |
|   | <b>Financial closure</b>   | : completed  |               |                        |     |                            |             |  |
|   | <b>Main Plant Order</b>  | : M/s Cethar Ltd. On 02/03/11. Boiler- Cethar Ltd. trichy, India and TG - Harbin, China  |               |                        |     |                            |             |  |
|   | <b>BOP Package</b>   |  |               |                        |     |                            |             |  |
|   | <b>Type of fuel</b>  | Coal   |               |                        |     |                            |             |  |
|   | <b>PPA</b>   | 37.5% of 1200 MW with CSPTRADECO. 550 MW with TPTCL. Participated for 100 MW in Case-I bidding in RVPN.  |               |                        |     |                            |             |  |
| <b>Power Evacuation system</b>  | Signed BPTA with PGCIL on 24/02/10 for evacuation of entire power from kotra sub-station.  |  |               |                        |     |                            |             |  |
| <ul style="list-style-type: none"> <li><b>Land:</b> 568 acres of land acquired</li> <li><b>MOE&amp;F:</b> obtained on 05/10/10 EC extended till 04/10/17</li> <li><b>Civil Aviation:</b> AAI issued NOC on 09/04/2009</li> <li><b>Water:</b> 35 MCM from Mahanadi (44 Km pipeline).</li> <li><b>Coal linkage:</b> Granted coal linkage for entire 1200 MW by SECL. FSA signed for U-1 &amp;U-2 for 1.3 MTPA on 28/08/13 and 23/09/13 respectively.</li> </ul> |  |  |               |                        |     |                            |             |  |
| <b>Critical issues</b>  |  |  |               |                        |     |                            |             |  |
| <b>Reasons for Delay</b>  | U-3&4: Work yet to start. Balance land acquisition for ash dyke. Commissioning schedule would be assessed after restart of work.   |  |               |                        |     |                            |             |  |

| Sl. No.                 | Project Details  | Unit  | Capacity (MW) | Commissioning Schedule |     |                            |             | Broad Status  |  |
|-------------------------|--|---|---------------|------------------------|-----|----------------------------|-------------|---|--|
|                         |  |   |               | Original               |     | Actual(A)/ As Expected     |             |   |  |
|                         |  |   |               | Sync/ Comm             | COD | Sync/ Comm                 | COD         |   |  |
| 7                       | Nawapara TPP (TRN TPP),<br>(Distt: Raigarh)<br>M/s TRN Energy Pvt Ltd.,<br>Chhattisgarh<br><br>(2x300=600MW)   | U-1   | 300           | 11/13<br>12/13         | -   | 31/05/16(A)<br>14/08/16(A) | 19/08/16(A) | <b>Unit-1</b><br><b>COD achieved on 19/08/16. Commissioned on 14/08/16. Synchronized with coal on 31/05/16.</b><br><b>Boiler</b><br>Boiler erection started on 01/10/12.<br>Boiler Drum lifted on 30/03/13.<br>Boiler HT completed on 28/03/14<br>BLU completed on 25/12/15<br>Steam blowing completed on 07/01/16.<br>Synchronized on 31/05/16<br>Unit<br><b>TG</b><br>Condenser erection started on 04/14.<br>TG erection started in 01/06/14.<br>TG Boxed up on 08/ 12/15.<br>TG put on barring gear in 12/15 insulation & cladding work completed. Condenser charged. |  |
|                         |  | U-2   | 300           | 03/14<br>04/14         | -   | 20/12/16(A)<br>18/04/17(A) | 01/05/17(A) |   |  |
|                         | Org.Est. cost / Latest Cost  | :Rs. 284400 Lakhs/ 372597 lakhs   |               |                        |     |                            |             |   |  |
|                         | Exp. During 11-12  | : Rs. 27800 lakhs   |               |                        |     |                            |             |   |  |
|                         | Exp during 12-13   | : Rs. 40523 Lakhs   |               |                        |     |                            |             |   |  |
|                         | Exp during 13-14   | : Rs. 121353 Lakhs  |               |                        |     |                            |             |   |  |
|                         | Exp during 14-15   | :Rs. 78824 Lakhs  |               |                        |     |                            |             |   |  |
|                         | Exp during 15-16   | : Rs 35400 Lakhs  |               |                        |     |                            |             |   |  |
|                         | Exp during 16-17   | Rs. 42755 Lakhs   |               |                        |     |                            |             |   |  |
|                         | Cumm. Exp ( 11/16)   | : Rs <b>346655</b> lakhs  |               |                        |     |                            |             |   |  |
|                         | Approval date:   |   |               |                        |     |                            |             |   |  |
|                         | Zero date:   | 27/06/11  |               |                        |     |                            |             |   |  |
|                         | Financial closure  | Achieved on 18/12/09  |               |                        |     |                            |             |   |  |
|                         | Main Plant Order   | : BTG Contract awarded on 27/01/11 to M/s China Western Power Co.Ltd.   |               |                        |     |                            |             |   |  |
|                         | BOP Package  | The order for main plant civil & structural work and all the BOPs on EPC basis have already been placed on M/s BGR Energy Systems Ltd. on 09/06/11. The EPC contract covers all the onshore supplies, civil works, erection and commissioning of the project. |               |                        |     |                            |             |   |  |
| Type of fuel            | Coal   |   |               |                        |     |                            |             |   |  |
| PPA                     | Entered with Chhattisgarh State Power Trading Company Ltd. for 35% power in accordance with MOU with Govt. of Chhattisgarh. In case-1 bidding with UPPCL, TRN was in 2nd position.(L2) for 390 MW. PPA is with PTC on take or pay basis. As per Letter dated 13/01/14 Signed back to back PPA with PTC for supply of 390 MW to UPPCL on 25/07/13 and 5% of net power i.e 30 MW to be signed with CSPTCo. Ltd. As per Letter dated 28/04/16 Already signed PPA for sale of 5% of net power with C.S.P.T.Co on 26/05/15. Further, signed with UPPCL for sale of 390 MW . |   |               |                        |     |                            |             |   |  |
| Power Evacuation system | BPTA has signed with PGCIL for Raigarh Pooling Station (Tamnar) on 11/04/11 for 400 MW.  |   |               |                        |     |                            |             |   |  |
|                         | <ul style="list-style-type: none"> <li>• <b>Land:</b> Land is in possession.</li> <li>• <b>MOE&amp;F:</b> clearance has been received on 18/03/11</li> <li>• <b>Civil Aviation:</b> Clearance received on 24/02/12</li> <li>• <b>Water:</b> 19 MCM has been allocated by W.R. Dept., Chhattisgarh.</li> <li>• <b>Coal linkage:</b> FSA signed on 23/11/2013</li> </ul>   |   |               |                        |     |                            |             |   |  |
| Critical issues         |  |   |               |                        |     |                            |             |   |  |
| Reasons for Delay       | Delay in start of Civil works. Slow progress in erection works of Boiler and T.G. Manpower shortage.   |   |               |                        |     |                            |             |   |  |

## BROAD STATUS OF THERMAL POWER PROJECTS IN GUJARAT

| Sl. No.                                 | Project Details  | Unit   | Capacity (MW) | Commissioning Schedule |       |                             |       | Broad Status   |
|---|--|--|---------------|------------------------|-------|-----------------------------|-------|--|
|   |  |  |               | Original               |       | Actual(A)/ As Expected      |       |  |
|   |  |  |               | Synch/Comm             | COD   | Synch/Comm                  | COD   |  |
| <b>State Sector</b>                     |  |  |               |                        |       |                             |       |  |
| 1.                                      | Wanakbori TPS Extn. GSECL, Dist: Kheda Gujarat<br><b>(1x800=800MW)</b> | 8  | 800           | 07/18<br>10/18         | 10/18 | <b>03.03.19(A)</b><br>05/19 | 05/19 | <p><b>Unit-8 : Unit Synchronized on 03.03.2019</b></p> <p><b>Boiler :</b> Boiler civil works started on 17/10/15. Boiler erection started on 25/02/16. All the 7 ceiling Girders lifting completed on 17/01/17. Pressure parts erection is in progress. Drainable Hydro test completed on 12/01/2018. Boiler light up on 30/07/2018. <b>Steam Blow Off completed on 31.01. 2019.</b></p> <p><b>TG :</b> TG civil works started on 21/12/15. Condenser erection started on 22/12/16 (outside assembly). TG Deck casting completed on 01/08/17. TG erection started on 31/08/17. Main Turbine trial on barring gear carried out on 29.12.2018. TG Box Up is done on 28/12/18. <b>Main Turbine rolled on 02.03.2019. Unit Synchronized on 03.03.2019 and 200 MW achieved.</b></p> <p><b>BoPs:</b></p> <ul style="list-style-type: none"> <li>• <b>Chimney:</b> Chimney RCC works for Shell casting work completed. Beam erection completed. Flue erection completed. Outside chimney painting work completed.</li> <li>• <b>CHP:</b> In this package order for Civil works is with Bridge &amp; Roof (I) Pvt Ltd. The mechanical work is with M/s GMW. The contractors have mobilized the site and civil –mech works are in progress. Rail lying work under progress.</li> <li>• <b>AHP:</b> Order has been placed on M/s Macawber Beekay for Mechanical and M/s GMW for structural work. The order for civil works is with M/s Bridge &amp; Roof (I) Pvt. Ltd. and is in progress. <b>Equipment</b> supply started. All pumps erected. Piping work under progress.</li> <li>• <b>Raw Water Supply System:</b> Order placed to M/s Chembond Solenis Water Technologies Ltd for Erection &amp; Commissioning.</li> <li>• <b>Fire Protection System:</b> Fire water pump, jockey pump, hydrant <b>spray</b> pump and placed at site decouple trial taken. Foam system erected, trial pending.</li> <li>• <b>PT/ DM Plant:</b> Order for DM plant has been placed on M/s. Aqua Design India Pvt. Ltd for Erection &amp; Commissioning. PTP order is with M/s Pennar Enviro Ltd; DM building civil works are in progress. (initially treated water has to be arranged from existing plant) Filter backwash sump completed.</li> <li>• <b>CW System:</b> The order has been placed on M/s Chembond Solenis Water Technology. CW treatment plant inside civil work completed The work is progressing as per schedule.</li> <li>• <b>NDCT:</b> The order placed on M/s NBCC. Recker columns completed. Shell casting started and further work in progress.</li> <li>• <b>Switchyard:</b> Order placed on M/s Teknow Overseas Private Ltd. Civil work of Switch yard (400 KV Extn. &amp; 400 KV switch yard outside GIS) are in progress. AIS/GIS Switchyard Tie line -I and ST charged through BUS-I.</li> </ul> <p><b>FGD - Tender for EPC contract for FGD uploaded on 20/09/17; 3 FGD Plant - Corrigendum –XVI issued: Price Bid opened and further step under process.</b></p> |
| <b>Original /Latest Cost</b>            |  | : Rs.353651 Lakh / Rs 353651 Lakh  |               |                        |       |                             |       |  |
| Expenditure during 2014-15              |  | : Rs.12701 Lakh  |               |                        |       |                             |       |  |
| Expenditure during 2015-16              |  | : Rs.48760 Lakh  |               |                        |       |                             |       |  |
| Expenditure during 2016-17              |  | : Rs.150651 Lakh   |               |                        |       |                             |       |  |
| Expenditure during 2017-18              |  | : Rs.117495.59 Lakh  |               |                        |       |                             |       |  |
| Expenditure during 2018-19 (Upto 02/19) |  | : Rs 40188.61 Lakh   |               |                        |       |                             |       |  |
| <b>Total Expenditure</b>                |  | : Rs. 369796.20 Lakhs (Upto 02/19)   |               |                        |       |                             |       |  |
| <b>Approval date:</b>                   |  | :NA  |               |                        |       |                             |       |  |
| <b>Zero date:</b>                       |  | : 21/10/14   |               |                        |       |                             |       |  |
| <b>Notice To Proceed (NTP)</b>          |  | :  |               |                        |       |                             |       |  |
| <b>Financial closure</b>                |  | Completed  |               |                        |       |                             |       |  |
| <b>Main Plant Order</b>                 |  | : 21/10/14. on M/s BHEL, EPC basis<br><b>Boiler: Alstom Power INC</b><br><b>TG: Siemens AG Germany</b>   |               |                        |       |                             |       |  |
| <b>BOP Package</b>                      |  | : BHEL, EPC  |               |                        |       |                             |       |  |
| <b>Type of fuel</b>                     |  | : Coal   |               |                        |       |                             |       |  |
| <b>PPA</b>                              |  | :PPA signed on 01/01/2011 with GUVNL.  |               |                        |       |                             |       |  |
| <b>Source and supply of Fuel</b>        |  | : Gare Plasma Coal Block, Chhattisgarh   |               |                        |       |                             |       |  |
| <b>Power Evacuation system</b>          |  | <ul style="list-style-type: none"> <li>• All mandatory clearances are available.</li> <li>• Power evacuation system readiness is expected 6 months before COD.</li> <li>• Topographical &amp; Soil investigation work is completed.</li> <li>• LOI for RCC Chimney placed on M/s Bygging India Ltd.on 11/06/15.</li> <li>• BHEL issued order for civil work to M/s BJCL for Boiler to Chimney area.</li> </ul> <p><b>Water allocation:</b> 10.82MGD allocated from Mahi River.</p> |               |                        |       |                             |       |  |
| <b>Critical issues</b>                  |  | Delay on TG front by BHEL and their sub vendor   |               |                        |       |                             |       |  |
| <b>Reasons for Delay</b>                |  | During the site visit in 03/17 a delay of about 4-6 weeks was observed at TG front. Due to soil strata a lot of piling (4300numbers) has been done in BTG area.  |               |                        |       |                             |       |  |

SK-02/05/2019

## BROAD STATUS OF THERMAL POWER PROJECTS IN MADHYA PRADESH

| Sl. No.                               | Project Details   | Unit  | Capacity (MW) | Commissioning Schedule |       |  |                    | Broad Status   |
|---------------------------------------|---|---|---------------|------------------------|-------|--|--------------------|--|
|                                       |   |   |               | Original               |       | Actual(A)/ As Expected                   |                    |  |
|                                       |   |   |               | Synch/Comm             | COD   | Synch/Comm                               | COD                |  |
| <b>State Sector</b>                   |   |   |               |                        |       |  |                    |  |
| 1.                                    | <b>Shree Singaji TPP, Stage –II (At Dongalia Distt. Khandwa), MPPGCL (2x660=1320MW)</b> | 3   | 660           | 03/18<br>05/18         | 07/18 | <b>27.04.18(A)</b><br><b>14.08.18(A)</b> | <b>18.11.18(A)</b> | <p><b>Unit-3: COD achieved on 18/11/18. Commissioned on 14/08/18. Synchronisation done on 27/04/18.</b><br/> <b>Boiler:</b> Boiler erection started on 18/06/15. Pressure parts erection completed. Boiler HT completed on 31/03/17. BLU achieved on 24/01/18. Synchronisation done on 27/04/18. <b>Full load achieved on 14/08/2018.</b><br/> <b>TG:</b> TG deck casting completed on 30/04/16. Condenser erection started on 11/07/16. TG erection started on 24/11/16. <b>TG box up completed on 30/11/17. TG put on BG in 12/17.</b></p> <p><b>Unit-4: COD achieved on 27/03/2019. Commissioned on 26/02/2019. Full Load has been achieved on 26/02/19. Synchronisation done on 27/12/18.</b><br/> <b>Boiler:</b> Boiler erection started on 27/10/15. Boiler HT (D) completed on 27/07/17. Boiler light up achieved on 24/10/2018. Steam Blowing started on 27/10/18 and completed on 25/11/18. Test Synhronisation has been done on 27/12/18.<br/> <b>TG:</b> TG deck casting completed. Condenser erection started on 02/02/17. TG erection started on 30/05/17. TG boxed up on 30/03/18. Over Speed Test of Turbine has been done on 27/12/18. Safety Valve setting done successfully on 11.01.19.<br/> <b>Availability of start up power is done on 29/08/17.</b></p> <p><b>BOPs:</b></p> <ul style="list-style-type: none"> <li>• <b>Chimney:</b> Ready for both Units</li> <li>• <b>CHP:</b> Equipments commissioning and trial run is in progress.</li> <li>• <b>AHP:</b> Equipments erection and commissioning is in progress.</li> <li>• <b>Raw Water Supply System:</b> Functional.</li> <li>• <b>PT/ DM Plant:</b> Functional</li> <li>• <b>CW System:</b> Civil work completion is in final stage and laying of CW pipeline completed. Unit # 3 CW system already charged.</li> <li>• <b>NDCT:</b> Unit#3 Functional, Unit#4 50% Functional and 50% Ready.</li> <li>• <b>FOPH:</b> Ready.</li> <li>• <b>Switchyard:</b> Switchyard charged. Unit # 3 on load &amp; Unit # 4 Synchronized with grid on 27/12/18.</li> </ul> <p><b>FGD: Present Project Consultant to be continued. Site selection made. Tender is invited on ICB basis &amp; Published on 20th Jun'18. Pre bid conference held on 24th Sept. 2018. Due to closing of old E-Procurement Portal, a fresh tender is to be floated and under process. Date of Award expected by June 2019.</b></p> |
| <b>Original /Latest Cost</b>          |   | : Rs.650000 lakhs / Rs.773800 lakhs   |               |                        |       |  |                    |  |
| Expenditure during 2013-14            |   | : Rs 117 lakhs  |               |                        |       |  |                    |  |
| Expenditure during 2014-15            |   | : Rs 46488 lakhs  |               |                        |       |  |                    |  |
| Expenditure during 2015-16            |   | : Rs 56475 lakhs  |               |                        |       |  |                    |  |
| Expenditure during 2016-17            |   | : Rs 159878 lakhs   |               |                        |       |  |                    |  |
| Expenditure during 2017-18            |   | : Rs 206337 lakhs   |               |                        |       |  |                    |  |
| Expenditure during 2018-19            |   | : Rs 121656 lakhs   |               |                        |       |  |                    |  |
| <b>Total Expenditure (Upto 01/19)</b> |   | : Rs. 590951 lakhs  |               |                        |       |  |                    |  |
| <b>Approval date:</b>                 |   | : NA  |               |                        |       |  |                    |  |
| <b>Zero date:</b>                     |   | :31/12/14.  |               |                        |       |  |                    |  |
| <b>Notice To Proceed (NTP)</b>        |   | :31/12/14   |               |                        |       |  |                    |  |
| <b>Financial closure</b>              |   | : Achieved in 03/15   |               |                        |       |  |                    |  |
| <b>Main Plant Order</b>               |   | : EPC on M/s L&T on 31/12/14  |               |                        |       |  |                    |  |
| <b>BTG Make</b>                       |   | : L&T/MHI   |               |                        |       |  |                    |  |
| <b>BOP on EPC basis</b>               |   | :M/s L&T on 31/12/14  |               |                        |       |  |                    |  |
| <b>Type of fuel</b>                   |   | Coal  |               |                        |       |  |                    |  |
| <b>PPA</b>                            |   | :With MPTradco (now known as MPPMC) on 04/01/2011.  |               |                        |       |  |                    |  |
| <b>Source and supply of Fuel</b>      |   | : Gondbahera-Ujjaini coal block having 5.32 MT reserve to MPPGCL on 07/06/13.   |               |                        |       |  |                    |  |
| <b>Power Evacuation system</b>        |   |   |               |                        |       |  |                    |  |
|                                       |   | <ul style="list-style-type: none"> <li>• Land: Available.</li> <li>• Mega Power Status: : Obtained on 05/07/12.</li> <li>• MoEF: : Received on 27/08/14.</li> <li>• Project Consultant: M/s Lahmeyer International (I) Ltd, Gurgaon</li> <li>• Design and Engineering works under progress.</li> <li>• Consent to Operate U-3 granted by MPPCB, Bhopal on 14/04/2018</li> </ul> |               |                        |       |  |                    |  |
| <b>Critical issues</b>                |   | First stage Forestry clearance of Gonbahera Coal Block by MoE&F<br>Power evacuation is yet to be completed by MPPTCL.   |               |                        |       |  |                    |  |
| <b>Reasons for Delay</b>              |   |   |               |                        |       |  |                    |  |

SK-02/05/2019

| Sl. No.                          | Project Details   | Unit   | Capacity (MW) | Commissioning Schedule |       |                              |              | Broad Status   |
|----------------------------------|---|--|---------------|------------------------|-------|------------------------------|--------------|--|
|                                  |   |  |               | Original               |       | Actual(A)/ As Expected       |              |  |
|                                  |   |  |               | Synch/Comm             | COD   | Synch/Comm                   | COD          |  |
| <b>Private Sector</b>            |   |  |               |                        |       |                              |              |  |
| 1.                               | <b>Mahan TPP (Dist. Singrauli)</b><br><b>Essar Power MP Ltd. (2x600=1200MW)</b> | 1  | 600           | 07/11<br>09/11         | 09/11 | 24/12/12 (A)<br>25/02/13 (A) | 29/04/13 (A) | <b>Unit-1</b><br>COD achieved on 29/04/13. Commissioned on 25/02/13. Synchronized on 24/12/12.   |
|                                  |   | 2  | 600           | 10/11<br>12/11         | 12/11 | 07/17 (A)<br>26/09/18 (A)    | 07/10/18 (A) | <b>Boiler:</b> Boiler erection started in 09/09. Boiler drum lifted on 21/06/10. HT done in 08/11. BLU done in 31/3/12. SBO completion on 21/08/12.<br><b>TG:</b> TG erection started in 11/10. TG box up completed on 24/09/12. TG oil flushing completed in 11/12. TG on barring gear on 07/12/12. |
| <b>Original/Latest Cost</b>      |   | : Rs. 773800 Lakhs/ Rs. 773800 Lakhs   |               |                        |       |                              |              |  |
| Expenditure during 2006-07       |   | : Rs 155 Lakhs   |               |                        |       |                              |              |  |
| Expenditure during 2007-08       |   | : Rs 36609 Lakhs   |               |                        |       |                              |              |  |
| Expenditure during 2008-09       |   | : Rs 38189 Lakhs   |               |                        |       |                              |              |  |
| Expenditure during 2009-10       |   | : Rs 114755 Lakhs  |               |                        |       |                              |              |  |
| Expenditure during 2010-11       |   | : Rs 335735 Lakhs  |               |                        |       |                              |              |  |
| Expenditure during 2011-12       |   | : Rs 12807 Lakhs   |               |                        |       |                              |              |  |
| Expenditure during 2012-13       |   | : Rs 92434 Lakhs   |               |                        |       |                              |              |  |
| Expenditure during 2013-14       |   | : Rs 8953 Lakhs  |               |                        |       |                              |              |  |
| Expenditure during 2014-15       |   | : Rs 110285 Lakhs  |               |                        |       |                              |              |  |
| Expenditure during 2015-16       |   | : Rs 55987 Lakhs   |               |                        |       |                              |              |  |
| Expenditure during 2016-17       |   | :Rs 18654 Lakhs  |               |                        |       |                              |              |  |
| Expenditure during 2017-18       |   | :Rs - Lakhs  |               |                        |       |                              |              |  |
| <b>Total Expenditure</b>         |   | : Rs 815610 Lakhs (Upto 03/17)   |               |                        |       |                              |              |  |
| <b>Approval date:</b>            |   | :NA  |               |                        |       |                              |              |  |
| <b>Zero date:</b>                |   | :24/08/07  |               |                        |       |                              |              |  |
| <b>Notice To Proceed (NTP)</b>   |   | :24/08/07  |               |                        |       |                              |              |  |
| <b>Financial closure</b>         |   | : 21/01/2009   |               |                        |       |                              |              |  |
| <b>Main Plant Order</b>          |   | :BTG order placed on M/s Harbin Power Co. Ltd, China on 24/08/07.  |               |                        |       |                              |              |  |
| <b>BTG Make</b>                  |   | :Chinese   |               |                        |       |                              |              |  |
| <b>BOP Package</b>               |   | : Reputed Indian Vendors   |               |                        |       |                              |              |  |
| <b>Type of fuel</b>              |   | :Coal  |               |                        |       |                              |              |  |
| <b>PPA</b>                       |   | : Long Term PPA with ESIL for 200 MW and 55.5 MW with Govt. of MP (on variable charge basis). For tie up of balance capacity of 855 MW, company is participating in various competitive bids/merchant power.   |               |                        |       |                              |              |  |
| <b>Source and supply of Fuel</b> |   | : Mahan Coal Block allotted jointly to ESSAR and Hindalco had been cancelled on 24/09/14.<br><b>Essar has signed CMPDA with GOI on 2/3/2015 for Tokisud Coal Mine located in the State of Jharkhand post e-auction. Vesting order is awaited. As per present mining plan, peak capacity of production of the mine is 2.32 MTPA.</b>  |               |                        |       |                              |              |  |
| <b>Power Evacuation system</b>   |   | :1 <sup>st</sup> unit commissioned by LILO (Temp arrangement). Long term open access granted by PGCIL through Mahan-Sipat line.  |               |                        |       |                              |              |  |
|                                  |   | <ul style="list-style-type: none"> <li>• MOEF clearance: 20/04/07</li> <li>• Water: 0.058 MAF/year from Rihand Reservoir.</li> <li>• SPCB: Obtained on 03/03/09.</li> <li>• Civil Aviation Clearance: Obtained on 02/02/2007.</li> <li>• Land: Physical possession of 185.81 Ha. Govt. Land is available.167.32 Ha. Pvt. Land in Viil. Bandhora, 150.31 in Nagwa Vill. 79.08 Ha in Kharahi. For 4th viilage Karsualal(100.17 Ha.) compensation distribution is in progress.</li> </ul> |               |                        |       |                              |              |  |
| <b>Critical issues</b>           |   | In lieu of cancellation of captive coal block, Coal linkage (5.5 MTPA) or any other coal sourcing is essential to run the plant. Return of expenditure incurred on Mahan Coal Block.   |               |                        |       |                              |              |  |
| <b>Reasons for Delay</b>         |   | Delays primarily due to financial constraint with the developer.   |               |                        |       |                              |              |  |

| Sl. No.   | Project Details   | Unit   | Capacity (MW) | Commissioning Schedule |       |                        |   | Broad Status |
|---|---|--|---------------|------------------------|-------|------------------------|---|--------------|
|   |   |  |               | Original               |       | Actual(A)/ As Expected |   |              |
|   |   |  |               | Synch/Comm             | COD   | Synch/Comm             | COD   |              |
| <b>Private Sector</b>   |   |  |               |                        |       |                        |   |              |
| 2.  | <b>Gorgi TPP (Dist. Singrauli) DB Power (MP) Ltd. (1x660=660MW)</b> | 1  | 660           | 05/13<br>06/13         | 07/13 | <b>Uncertain</b>       | <p><b>Unit-1</b><br/>The site enabling activities like area grading etc has already completed. Construction of administrative building and hostel facility also completed. Excavation work in water reservoir area and chimney also started. Erection yet to be started. <b>Work is on hold at site due to Financial crunch being faced by the developer.</b></p> <p><b>BoPs:</b></p> <ul style="list-style-type: none"> <li><b>In BoPs work yet to start.</b></li> </ul> |              |
| <b>Original/ Latest Cost</b>  |   | : Rs.394100 Lakhs / Rs.394100 Lakhs  |               |                        |       |                        |   |              |
| Expenditure during 2008-09  |   | : Rs. 349 Lakhs  |               |                        |       |                        |   |              |
| Expenditure during 2009-10  |   | : Rs. 2303 Lakhs   |               |                        |       |                        |   |              |
| Expenditure during 2010-11  |   | : Rs. 13487 Lakhs  |               |                        |       |                        |   |              |
| Expenditure during 2011-12  |   | : Rs. 21157 Lakhs  |               |                        |       |                        |   |              |
| Expenditure during 2012-13  |   | : Rs. 4036 Lakhs   |               |                        |       |                        |   |              |
| Expenditure during 2013-14  |   | : Rs. 4712Lakhs  |               |                        |       |                        |   |              |
| Expenditure during 2014-15  |   | : Rs. 1614 Lakhs   |               |                        |       |                        |   |              |
| Expenditure during 2015-16  |   | : Rs. 78 Lakhs (upto 09/15)  |               |                        |       |                        |   |              |
| <b>Total Expenditure (Upto 09/15)</b>   |   | : Rs 47579 lakhs   |               |                        |       |                        |   |              |
| <b>Approval date:</b>   |   | : NA   |               |                        |       |                        |   |              |
| <b>Zero date:</b>   |   | : 03/11  |               |                        |       |                        |   |              |
| <b>Notice To Proceed (NTP)</b>  |   | :03/11   |               |                        |       |                        |   |              |
| <b>Financial closure</b>  |   | Achieved in 03/2011 for unit-1   |               |                        |       |                        |   |              |
| <b>Main Plant Order</b>   |   | BHEL on 03/11 (BTG).   |               |                        |       |                        |   |              |
| <b>BTG Make</b>   |   | BHEL   |               |                        |       |                        |   |              |
| <b>BOP Order</b>  |   | Indure Pvt. Limited.   |               |                        |       |                        |   |              |
| <b>Type of fuel</b>   |   | :Coal  |               |                        |       |                        |   |              |
| <b>PPA</b>  |   | 35% with MPPMC from 2x660 MW   |               |                        |       |                        |   |              |
| <b>Source and supply of Fuel</b>  |   | 2.1048 MTPA available for unit-1.  |               |                        |       |                        |   |              |
| <b>Power Evacuation system</b>  |   | PGCIL has granted LTA and connectivity. Power evacuation at vindhyachal pooling station. |               |                        |       |                        |   |              |
| <ul style="list-style-type: none"> <li>Consultant: Desein</li> <li>MOEF Clearance: Obtained in Sept.10 for 1<sup>st</sup> unit.</li> <li>Land : 735-acre land is acquired.</li> <li>Water: 25 MCM PA water from Gopad river for 2x660 MW.</li> <li>All the mandatory clearances are available for two units.</li> <li>The major part of total land acquired by the company in time but delay in granting government land which is significant stretches had affected the contiguity and due to which construction could not commence at desired time.</li> <li>PPA has been signed with MP Power Management Company (State Utility) for 35% capacity from both the 2x660 MW.</li> </ul> |   |  |               |                        |       |                        |   |              |
| <b>Critical issues</b>  |   | <b>Acquisition of balance land.</b>  |               |                        |       |                        |   |              |
| <b>Reasons for Delay</b>  |   | Financial Costraints   |               |                        |       |                        |   |              |

| Sl. No.                          | Project Details   | Unit   | Capacity (MW) | Commissioning Schedule |       |                        |  | Broad Status |
|----------------------------------|---|--|---------------|------------------------|-------|------------------------|--|--------------|
|                                  |   |  |               | Original               |       | Actual(A)/ As Expected |  |              |
|                                  |   |  |               | Synch/ Comm            | COD   | Synch/ Comm            | COD  |              |
| <b>Private Sector</b>            |   |  |               |                        |       |                        |  |              |
| 3.                               | <b>Niwari TPP (Dist. Narsinghpur) BLA Power Ltd. (2x45=90 MW)</b> | 2  | 45            | 04/14<br>05/14         | 05/14 | Uncertain              | <p><b>Unit-2</b><br/>Boiler erection started in <b>01/13</b>. Drum lifted in <b>08/13</b>. <b>Presently work at site is on hold.</b></p> <p>* Assessed after restart of work.</p> <p><b>BoPs:</b></p> <ul style="list-style-type: none"> <li>Presently work at site has been put on hold.</li> </ul> |              |
| <b>Original / Latest Cost</b>    |   | : Rs.23249 Lakhs / Rs.25049 Lakhs  |               |                        |       |                        |  |              |
| Expenditure during 2010-11       |   | : Rs. 5100 Lakhs   |               |                        |       |                        |  |              |
| Expenditure during 2011-12       |   | : Rs. 16880 Lakhs  |               |                        |       |                        |  |              |
| Expenditure during 2012-13       |   | : Rs. 5164 Lakhs   |               |                        |       |                        |  |              |
| Expenditure during 2013-14       |   | : Rs. 354 Lakhs  |               |                        |       |                        |  |              |
| Expenditure during 2014-15       |   | : Rs. 1503 Lakhs (upto 03/15)  |               |                        |       |                        |  |              |
| <b>Total Expenditure</b>         |   | : Rs. 29001 lakhs ( <b>Upto 03/15</b> )  |               |                        |       |                        |  |              |
| <b>Approval date:</b>            |   | : NA   |               |                        |       |                        |  |              |
| <b>Zero date:</b>                |   | : 04/11  |               |                        |       |                        |  |              |
| <b>Notice To Proceed (NTP)</b>   |   | :04/11   |               |                        |       |                        |  |              |
| <b>Financial closure</b>         |   | Achieved.  |               |                        |       |                        |  |              |
| <b>Main Plant Order</b>          |   | Boiler(ISGEC) in 02/11.Turbine and Generator (Siemens) in 04/11.   |               |                        |       |                        |  |              |
| <b>BTG Make</b>                  |   | Siemens  |               |                        |       |                        |  |              |
| <b>BOP Order</b>                 |   | -  |               |                        |       |                        |  |              |
| <b>Type of fuel</b>              |   | Coal   |               |                        |       |                        |  |              |
| <b>PPA</b>                       |   | 30% with MPPTCL and 5% with MP government on variable cost.  |               |                        |       |                        |  |              |
| <b>Source and supply of Fuel</b> |   | FSA signed with BLA industries Ltd. on 25/04/11 for 350000 tonnes per annum. Amendment to fuel supply agreement signed with BLA industries on 26/03/13 for the following quantities—<br>U-1x45 MW=187000 tonnes/annum,<br>U-2x45 MW=374000 tonnes/Annum. |               |                        |       |                        |  |              |
| <b>Power Evacuation system</b>   |   | PGCIL has granted LTA and connectivity. Power evacuation at vindhyachal pooling station.   |               |                        |       |                        |  |              |
|                                  |   | <ul style="list-style-type: none"> <li>MOEF Clearance: Obtained on 07/11/07.</li> <li>Land: 129.15 Acres of land is acquired for 3x45 MW.</li> <li>Water: 7 MCM PA water from Narmada river for 140 MW.</li> </ul>                                       |               |                        |       |                        |  |              |
| <b>Critical issues</b>           |   | Finance  |               |                        |       |                        |  |              |
| <b>Reasons for Delay</b>         |   | Work is on hold  |               |                        |       |                        |  |              |



## BROAD STATUS OF THERMAL POWER PROJECTS IN MAHARASHTRA

| Sl. No.   | Project Details   | Unit  | Capacity (MW)  | Commissioning Schedule |       |                        |   | Broad Status                           |
|---|---|---|----------------|------------------------|-------|------------------------|---|--|
|   |   |   |                | Original               |       | Actual(A)/ As Expected |   |  |
|   |   |   |                | Synch/ Comm            | COD   | Synch/ Comm            | COD   |  |
| <b>Private Sector</b>   |   |   |                |                        |       |                        |   |  |
| 1.  | <b>Amravati TPP , Ph-II, (Distt: Amravati)</b><br><b>M/s Rattan India Power Ltd.(Formerly known as Indiabulls Power Ltd.) (5x270=1350 MW)</b> | 1   | 270            | 05/14<br>07/14         | 08/14 | @                      | @   | @ : Work is on hold (since April,2012) |
| 2   |   | 270   | 07/14<br>09/14 | 10/14                  | @     | @                      | <b>Unit-1 Boiler</b>  |  |
| 3   |   | 270   | 09/14<br>11/14 | 12/14                  | @     | @                      | 1. Boiler erection started on 24/11/11.<br>2. <b>Work is on hold.</b> |  |
| 4   |   | 270   | 11/14<br>01/15 | 02/15                  | @     | @                      | <b>Unit-2 Boiler</b>  |  |
| 5   |   | 270   | 03/15          | 04/15                  | @     | @                      | 1. Boiler erection started in 01/12.<br>2. <b>Work is on hold</b>     |  |
| <b>Original/Latest Cost</b>   |   | : Rs.664600 Lakh/: Rs.664600 Lakh   |                |                        |       |                        |   |  |
| Expenditure during 2011-12  |   | : Rs. 49727 Lakhs   |                |                        |       |                        |   |  |
| Expenditure during 2012-13  |   | : Rs.20866 Lakhs  |                |                        |       |                        |   |  |
| Expenditure during 2013-14  |   | : Rs.3397 Lakhs   |                |                        |       |                        |   |  |
| Expenditure during 2014-15  |   | : Rs.2390 Lakhs   |                |                        |       |                        |   |  |
| <b>Total Expenditure</b>  |   | :Rs 76380 Lakhs(Upto 03/15)   |                |                        |       |                        |   |  |
| <b>Approval date:</b>   |   | :NA   |                |                        |       |                        |   |  |
| <b>Zero date:</b>   |   | 11/10/10  |                |                        |       |                        |   |  |
| <b>Notice To Proceed (NTP)</b>  |   | :11/10/10   |                |                        |       |                        |   |  |
| <b>Financial closure</b>  |   | : Achieved on 01/02/11  |                |                        |       |                        |   |  |
| <b>Main Plant Order</b>   |   | : BTG on EPC basis awarded to BHEL on 11/10/10.   |                |                        |       |                        |   |  |
| <b>BTG Make</b>   |   | BHEL  |                |                        |       |                        |   |  |
| <b>Type of fuel</b>   |   | Coal  |                |                        |       |                        |   |  |
| <b>PPA</b>  |   | No PPA  |                |                        |       |                        |   |  |
| <b>Source and supply of Fuel</b>  |   | :With MCL & WCL in 11/10(LOA) .   |                |                        |       |                        |   |  |
| <b>Power Evacuation system</b>  |   | : Through 400kV/765KV Akola and Wardha Substations of MSETCL through 400KV/765KV D/C transmission line. |                |                        |       |                        |   |  |
| <ul style="list-style-type: none"> <li>• FSA: Letter awaited.</li> <li>• All clearances are available.</li> </ul> |   |   |                |                        |       |                        |   |  |
| <b>Critical issues</b>  |   |   |                |                        |       |                        |   |  |
| <b>Reasons for Delay</b>  |   | Due to financial constraints project has been put on hold.  |                |                        |       |                        |   |  |

| Sl. No.                  | Project Details   | Unit   | Capacity (MW)   | Commissioning Schedule |       |                             |              | Broad Status  |
|--------------------------|---|--|---|------------------------|-------|-----------------------------|--------------|---|
|                          |   |  |   | Original               |       | Actual(A)/ As Expected      |              |   |
|                          |   |  |   | Synch/Comm             | COD   | Synch/Comm                  | COD          |   |
| <b>Private Sector</b>    |   |  |   |                        |       |                             |              |   |
|                          | Nasik TPP, Ph-I (Distt: Nasik)<br>M/s Sinnar Thermal Power Ltd. (Formerly known as Indiabulls Realtech Ltd.)<br>(5x270=1350 MW)   | 1  | 270   | 12/11<br>02/12         | 03/12 | 24/02/14(A)<br>25/02/14(A)  | 29/03/14 (A) | <b>Unit-1</b><br><b>COD achieved on 29/03/14. Commissioned on 25/02/14. synch. achieved on 24/02/14.</b><br><b>Boiler:</b><br>Boiler erection started on 03/11/10. Boiler drum lifting completed on 31/03/11. Boiler HT (D) completed on 28/03/12. BLU completed on 22/10/12. SBO completion achieved on 15/04/13. Unit normalization completed in 04/13.<br><b>TG:</b><br>TG civil works started on 01/06/10. TG erection started on 25/09/11. TG Box Up completed on 30/01/13. TG oil flushing completed on 15/04/13. TG on BG achieved on 31/05/13. Boiler lighted up for steam dumping on 22/12/13. Steam dumping started on 22/12/13. Rolling completed on 28/12/13. Oil synch. achieved on 05/02/14. Coal bunkering started on 10/02/14.<br><br><b>Unit-2</b><br><b>Commissioned on 15/02/17. synch. achieved on 21/03/16.</b><br><br><b>Boiler:</b><br>Boiler erection started on 08/12/10. Boiler drum lifting completed on 27/07/11. Boiler HT (D) completed on 03/07/12. BLU achieved on 27/11/13. EDTA completed in 02/14. SBO started on 28/02/14 and completed on 14/03/14.<br><b>TG</b><br>TG erection started on 25/12/11. TG Box Up completed on 08/10/13. TG oil flushing completed on 31/12/13. <b>TG put on BG on 10/03/14.</b> Rolling completed on 31/03/14. Readiness of Railway siding by 03/16. GIS clearance received in 01/16. Clearance given to BHEL to start the work on 10/01/16. BHEL re-started work at site on 30/01/16.<br><br><b>Unit-3</b><br><b>Commissioned on 14/04/17.</b><br><b>Boiler</b><br>Boiler erection started on 12/01/11. Boiler drum lifting completed on 12/12/11. Boiler HT completed on 30/10/13. BLU achieved on 03/10/16. SBO completed on 06/12/16.<br><b>TG</b><br>TG erection started on 19/01/12. TG boxed up in 10/16. TG put on BG on 27/01/17. TG rolling done on 04/03/17<br><br><b>Unit-4</b><br><b>Commissioned on 19/05/17.</b><br><b>Boiler</b><br>Boiler erection started on 16/05/11. Boiler drum lifting completed on 23/12/11. Boiler HT is completed in 11/16. BLU achieved on 30/12/16. SBO completed on 13/02/17..<br><b>TG</b><br>TG erection started in 05/12. TG box up completed on 24/01/17. TG oil flushing completed on 12/03/17. <b>TG put on BG on 29/03/17.</b><br><br><b>Unit-5</b><br><b>Commissioned on 30/05/17.</b><br><b>Boiler</b><br>Boiler erection started on 16/06/11. Boiler drum lifting completed on 06/03/12. BLU achieved on 15/02/17. EDTA completed on 06/03/17. SBO completed on 24/03/17.<br><b>TG</b><br>TG erection started on 30/04/16. TG Box Up completed on 13/02/17. TG oil flushing completed on 17/04/17. TG put on BG on 28/04/17.<br><br><b>BoPs:</b><br><br><ul style="list-style-type: none"> <li>The order was placed on reputed Indian vendors. BoPs were common for all the five units and completed except Railway siding.</li> </ul> |
|                          |   | 2  | 270   | 02/12<br>04/12         | 05/12 | 21/03/16 (A)<br>15/02/17(A) | -            |   |
|                          |   | 3  | 270   | 04/12<br>06/12         | 07/12 | 04/17(A)<br>14/04/17(A)     | -            |   |
|                          |   | 4  | 270   | 06/12<br>08/12         | 09/12 | 05/17(A)<br>19/05/17(A)     | -            |   |
|                          |   | 5  | 270   | 08/12<br>10/12         | 11/12 | 05/17(A)<br>30/05/17(A)     | -            |   |
|                          | <b>Original /Latest Cost</b>  |  | :Rs.678900 lakhs / Rs.784898 lakhs  |                        |       |                             |              |   |
|                          | Expenditure during 03/10  |  | :Rs. 30620 Lakhs  |                        |       |                             |              |   |
|                          | Expenditure during 2010-11  |  | :Rs. 100000Lakhs  |                        |       |                             |              |   |
|                          | Expenditure during 2011-12  |  | :Rs. 180309 Lakhs   |                        |       |                             |              |   |
|                          | Expenditure during 2012-13  |  | :Rs. 144526 Lakhs   |                        |       |                             |              |   |
|                          | Expenditure during 2013-14  |  | :Rs 107396 Lakhs  |                        |       |                             |              |   |
|                          | Expenditure during 2014-15  |  | :Rs 98461 Lakhs   |                        |       |                             |              |   |
|                          | Expenditure during 2015-16  |  | :Rs --  |                        |       |                             |              |   |
|                          | <b>Total Expenditure</b>  |  | :Rs. 661312 Lakhs (Upto 03/15)  |                        |       |                             |              |   |
|                          | <b>Approval date:</b>   |  | : NA  |                        |       |                             |              |   |
|                          | <b>Zero date:</b>   |  | : 24/11/09  |                        |       |                             |              |   |
|                          | <b>Notice To Proceed (NTP)</b>  |  | :21/1/09  |                        |       |                             |              |   |
|                          | <b>Financial closure</b>  |  | : Achieved on 30/06/10  |                        |       |                             |              |   |
|                          | <b>Main Plant Order</b>   |  | : BTG on EPC basis awarded to BHEL on 24/11/09.   |                        |       |                             |              |   |
|                          | <b>BTG Make</b>   |  | BHEL  |                        |       |                             |              |   |
|                          | <b>BOP on EPC basis</b>   |  | Reputed Indian Vendors  |                        |       |                             |              |   |
|                          | <b>Type of fuel</b>   |  | : Coal  |                        |       |                             |              |   |
|                          | <b>PPA</b>  |  | No PPA  |                        |       |                             |              |   |
|                          | <b>Source and supply of Fuel</b>  |  | : From SLC (LT) on 17/12/08.  |                        |       |                             |              |   |
|                          | <b>Power Evacuation system</b>  |  | : Through 400kV D/C quad Moose transmission line upto MSETCL sub-station at Bhubaneshwar. |                        |       |                             |              |   |
|                          | <ul style="list-style-type: none"> <li>FSA: With MCL, SECL &amp; WCL on 11/06/09. All clearances are available.</li> <li>Design &amp; Engineering completed.</li> <li>The BOPs are common for all the five units. All the BoPs are either already completed or nearing completion.</li> </ul> |  |   |                        |       |                             |              |   |
| <b>Critical issues</b>   |   | PPA, Completion of Railway Siding.   |   |                        |       |                             |              |   |
| <b>Reasons for Delay</b> |   | <ul style="list-style-type: none"> <li>Railway siding for coal transportation.</li> <li>Finalization of PPA.</li> <li>Rectification of defect in GIS switchyard by Siemens-Germany.</li> <li>Fault in HT panel</li> <li>Financial Constraints</li> </ul> |   |                        |       |                             |              |   |

| Sl. No.   | Project Details  | Unit  | Capacity (MW)  | Commissioning Schedule |       |                        |     | Broad Status   |
|---|--|---|----------------|------------------------|-------|------------------------|-----|--|
|   |  |   |                | Original               |       | Actual(A)/ As Expected |     |  |
|   |  |   |                | Synch/Comm             | COD   | Synch/Comm             | COD |  |
| <b>Private Sector</b>   |  |   |                |                        |       |                        |     |  |
|   | <b>Nasik TPP , Ph-II (Distt: Nasik) M/s Sinnar Thermal Power Ltd. (Formerly known as Indiabulls Realtech Ltd.) (5x270=1350 MW)</b> | 1   | 270            | 01/13<br>04/13         | 04/13 | @                      | @   | <p>@ : Work is on hold (May, 2012). Schedule will be decided after restart of work at site.</p> <p><b>Unit-1 Boiler</b><br/>Boiler erection started in 09/11. Work is on hold.</p> <p><b>Unit-2 Boiler</b><br/>Boiler erection started in 11/11. Work is on hold.</p> <p><b>Unit-3 Boiler</b><br/>Work is on hold</p> <p><b>Unit-4 Boiler</b><br/>Work is on hold</p> <p><b>Unit-5 Boiler</b><br/>Work is on hold</p> <p><b>BoPs:</b></p> <ul style="list-style-type: none"> <li>Work at site has been put on hold since long back.</li> </ul> |
| 2   |  | 270   | 03/13<br>06/13 | 06/13                  | @     | @                      |     |  |
| 3   |  | 270   | 05/13<br>08/13 | 08/13                  | @     | @                      |     |  |
| 4   |  | 270   | 07/13<br>10/13 | 10/13                  | @     | @                      |     |  |
| 5   |  | 270   | 09/13<br>12/13 | 12/13                  | @     | @                      |     |  |
| <b>Original /Latest Cost</b>  |  | : Rs.678900 lakhs / Rs.678900 lakhs   |                |                        |       |                        |     |  |
| Expenditure during 03/10  |  | :Rs.36805 Lakhs   |                |                        |       |                        |     |  |
| Expenditure during 2010-11  |  | : Rs. 10000 Lakhs   |                |                        |       |                        |     |  |
| Expenditure during 2011-12  |  | :Rs. 5339 Lakhs   |                |                        |       |                        |     |  |
| Expenditure during 2012-13  |  | :Rs. 9615 Lakhs   |                |                        |       |                        |     |  |
| Expenditure during 2013-14  |  | :Rs. 5022 Lakhs   |                |                        |       |                        |     |  |
| Expenditure during 2014-15  |  | :Rs. 4400 Lakhs   |                |                        |       |                        |     |  |
| <b>Total Expenditure (Upto 03/15)</b>   |  | :Rs. 71181Lakhs   |                |                        |       |                        |     |  |
| <b>Approval date:</b>   |  | : NA  |                |                        |       |                        |     |  |
| <b>Zero date:</b>   |  | : 24/11/09  |                |                        |       |                        |     |  |
| <b>Notice To Proceed (NTP)</b>  |  | : 24/11/09  |                |                        |       |                        |     |  |
| <b>Financial closure</b>  |  | : Achieved on 30/06/10  |                |                        |       |                        |     |  |
| <b>Main Plant Order</b>   |  | : BTG on EPC basis awarded to BHEL on 24/11/09  |                |                        |       |                        |     |  |
| <b>BTG Make</b>   |  | BHEL  |                |                        |       |                        |     |  |
| <b>BOP on EPC basis</b>   |  | Reputed Indian Vendors  |                |                        |       |                        |     |  |
| <b>Type of fuel</b>   |  | Coal  |                |                        |       |                        |     |  |
| <b>PPA</b>  |  | No PPA  |                |                        |       |                        |     |  |
| <b>Source and supply of Fuel</b>  |  | : From SLC (LT) on 17/12/08.  |                |                        |       |                        |     |  |
| <b>Power Evacuation system</b>  |  | : Through 400kV D/C quad Moose transmission line upto MSETCL sub-station at Bhabaleshwar. |                |                        |       |                        |     |  |
| <ul style="list-style-type: none"> <li>FSA: With MCL, SECL &amp; WCL on 11/06/09.</li> <li>All clearances are available.</li> </ul> |  |   |                |                        |       |                        |     |  |
| <b>Critical issues</b>  |  | Work at site is on hold.  |                |                        |       |                        |     |  |
| <b>Reasons for Delay</b>  |  | Work at site has been put on hold since long back.  |                |                        |       |                        |     |  |

| Sl. No.               | Project Details  | Unit   | Capacity (MW) | Commissioning Schedule |       |                        |     | Broad Status   |
|-----------------------|--|--|---------------|------------------------|-------|------------------------|-----|--|
|                       |  |  |               | Original               |       | Actual(A)/ As Expected |     |  |
|                       |  |  |               | Synch/ Comm            | COD   | Synch/ Comm            | COD |  |
| <b>Private Sector</b> |  |  |               |                        |       |                        |     |  |
|                       | <b>Lanco Vidarbha TPP (Distt: Wardha)</b>                    | 1  | 660           | 03/14<br>07/14         | 08/14 | *                      | *   | <p><b>Unit-1 Boiler</b><br/>Boiler erection started on 01/08/11. Main structure erection upto 6<sup>th</sup> tier completed in 10/15. All the (5) Ceiling Girder (CG) erection work completed. Pressure parts erection work started in 04/16.</p> <p><b>TG</b><br/>TG Deck casting completed. TG handed over to mechanical department for erection. TG erection started in 05/16. EOT Crane (2 nos.) already commissioned.</p> <p><b>Unit-2 Boiler</b><br/>Boiler erection started in 10/11. Main structure erection upto 6<sup>th</sup> tier completed. All the (5) Ceiling Girder (CG) erection work completed. Pressure parts erection work started in 08/16. HT is yet to be done.</p> <p><b>TG</b><br/>TG raft completed and Mezzanine Floor work completed. Top deck shuttering work also completed, final inspection work under progress. TG erection work yet to start.</p> <p><b>Presently work is on hold due to financial constraints.</b></p> <p><b>BoPs:</b></p> <ul style="list-style-type: none"> <li><b>Chimney:</b> Civil works for chimney are being done by M/s LITL. Chimney Raft completed. Chimney shell construction completed upto 30 mtr. upto 07/16.</li> <li><b>CHP:</b> (Elecon Engg. Co. Ltd): Wagon Tippler excavation work completed. Raft Completed in WT area and balance work is in progress. Civil works are being done by M/s LITL. In other parts of CHP such as Stacker reclaimers, Crusher House, TPs and conveyors civil works are in progress..</li> <li><b>AHP: (M/s LITL):</b> Civil works for BA hoppers, Fly ash silo's, AWP, ASPH and ash dyke are in progress.</li> <li><b>Raw Water Supply System:</b> Work is in progress.</li> <li><b>PT/ DM Plant (DOshion Veolia water solution):</b> Approx. 80% civil works completed upto 09/16.</li> <li><b>CW System:</b> Civil works are with M/s LITL and mechanical works are with M/s Singrauli Associates Pvt. Ltd.. Civil works in CW pump house, CW fore Bay and CW open channel are in progress. 85% CW pipeline erection work completed upto 09/16. Balance erection work is under progress.</li> <li><b>IDCT:</b> Being done by M/s LITL. For both the IDCT- I &amp; IDCT- II: PCC and basin raft concreting completed. Pedestal work is in progress.</li> <li><b>FOPH:</b> All civil works are in progress..</li> <li><b>Switchyard: 95% switchyard foundations completed so far.</b></li> </ul> |
|                       | <b>M/s Lanco Vidarbha Thermal Power Ltd. (2x660=1320 MW)</b> | 2  | 660           | 07/14<br>11/14         | 12/14 | *                      | *   |  |
|                       | <b>Original/Latest Cost</b>                                  | : Rs.693600 lakhs/ Rs.1043300 lakhs  |               |                        |       |                        |     |  |
|                       | Expenditure during 03/11                                     | : Rs 97600 lakh  |               |                        |       |                        |     |  |
|                       | Expenditure during 2011-12                                   | : Rs 181100 lakh   |               |                        |       |                        |     |  |
|                       | Expenditure during 2012-13                                   | : Rs 67200 lakh  |               |                        |       |                        |     |  |
|                       | Expenditure during 2013-14                                   | : Rs 15200 lakh  |               |                        |       |                        |     |  |
|                       | Expenditure during 2014-15                                   | : Rs - lakh  |               |                        |       |                        |     |  |
|                       | Expenditure during 2015-16                                   | : Rs 98900 lakh  |               |                        |       |                        |     |  |
|                       | Expenditure during 2016-17                                   | : Rs 73800 lakh  |               |                        |       |                        |     |  |
|                       | Expenditure during 2017-18                                   | : Rs - lakh  |               |                        |       |                        |     |  |
|                       | <b>Total Expenditure</b>                                     | : Rs 533800 lakhs (Upto 04/17)   |               |                        |       |                        |     |  |
|                       | <b>Approval date:</b>  | : NA   |               |                        |       |                        |     |  |
|                       | <b>Zero date:</b>  | : Achieved on 01/12/10.  |               |                        |       |                        |     |  |
|                       | <b>Notice To Proceed (NTP)</b>                               | : Achieved on 01/12/10.  |               |                        |       |                        |     |  |
|                       | <b>Financial closure</b>                                     | : Achieved on 01/12/10.  |               |                        |       |                        |     |  |
|                       | <b>Main Plant Order</b>                                      | : EPC Contract awarded to M/s Lanco Infra Tech Ltd. (LITL) through ICB Route in 11/09. <b>Boiler &amp; Aux.: Dongfang, China</b><br><b>TG &amp; Aux.: Harbin, China,</b>   |               |                        |       |                        |     |  |
|                       | <b>BTG Make</b>  | <b>Boiler &amp; Aux.: Dongfang, China</b><br><b>TG &amp; Aux.: Harbin, China,</b>  |               |                        |       |                        |     |  |
|                       | <b>Type of fuel</b>  | : Coal   |               |                        |       |                        |     |  |
|                       | <b>PPA</b>   | PPA for 680MW(Net) signed with MSEDCL.   |               |                        |       |                        |     |  |
|                       | <b>Source and supply of Fuel</b>                             | : SECL   |               |                        |       |                        |     |  |
|                       | <b>Power Evacuation system</b>                               | : Grant of connectivity letter received at 765 kV from Wardha-Seoni line from PGCIL. Connectivity agreement is in progress.  |               |                        |       |                        |     |  |
|                       |  | <ul style="list-style-type: none"> <li>All clearances are available. MOEF clearance received on 24/02/11.</li> <li>Design &amp; Engineering completed.</li> <li>Order for all BOPs have been placed and progressing as per schedule.</li> <li>FSA is in process.</li> <li>PPA with MSEDCL for 680MW signed on 25/09/08.</li> <li>Work was on hold since 01/2013.</li> <li>Work at site restarted since April, 2015.</li> <li>Work in all the BoPs is also progressing nicely.</li> </ul> |               |                        |       |                        |     |  |
|                       | <b>Critical issues</b>                                       | <b>Financial crunch.</b>   |               |                        |       |                        |     |  |
|                       | <b>Reasons for Delay</b>                                     | <b># Work was on hold due to financial crunch. Work has now restarted since 04/15. Work progress is slow due to Financial Constraint.</b>  |               |                        |       |                        |     |  |

\* Work on hold due to financial crunch. Schedule will be decided after restart of work.

| Sl. No.               | Project Details   | Unit   | Capacity (MW) | Commissioning Schedule |       |                        |  | Broad Status |
|-----------------------|---|--|---------------|------------------------|-------|------------------------|--|--------------|
|                       |   |  |               | Original               |       | Actual(A)/ As Expected |  |              |
|                       |   |  |               | Synch/Comm             | COD   | Synch/Comm             | COD  |              |
| <b>Private Sector</b> |   |  |               |                        |       |                        |  |              |
|                       | <b>Bijora Ghanmukh TPP,<br/>(Distt: Yavatmal)<br/>M/s Jinbhuvish Power Generations Pvt. Ltd. (JPGPL)<br/>(2x300=600 MW)</b> | 1  | 300           | 10/16<br>12/16         | 01/17 | Uncertain              | <b>Unit-1<br/>Boiler</b><br>Boiler Civil works started in 09/15. Work at site put on hold due to financial crunch. |              |
|                       |   | 2  | 300           | 01/17<br>03/17         | 03/17 | Uncertain              |  |              |
|                       | <b>Original/ Latest Cost</b>  | : Rs.318900 lakhs / Rs.345000 lakhs  |               |                        |       |                        |  |              |
|                       | Expenditure during 03/14  | : Rs 37475 lakh  |               |                        |       |                        |  |              |
|                       | Expenditure during 2014-15  | : Rs 4752 lakh   |               |                        |       |                        |  |              |
|                       | Expenditure during 2015-16  | : Rs - lakh  |               |                        |       |                        |  |              |
|                       | <b>Total Expenditure</b>  | : Rs 42227 lakh (Upto 03/15)   |               |                        |       |                        |  |              |
|                       | <b>Approval date:</b>   | :  |               |                        |       |                        |  |              |
|                       | <b>Zero date:</b>   | :  |               |                        |       |                        |  |              |
|                       | <b>Notice To Proceed (NTP)</b>  | :  |               |                        |       |                        |  |              |
|                       | <b>Financial closure</b>  | : Achieved (REC &PFC)  |               |                        |       |                        |  |              |
|                       | <b>Date of Main Plant Order (Boiler &amp;TG from CWPC, China)</b>   | : BTG on EPC basis Contract awarded to M/s CWPC (China Western Power Corporation) (through ICB Route) on 28/09/11.   |               |                        |       |                        |  |              |
|                       | <b>BTG Make</b>   |  |               |                        |       |                        |  |              |
|                       | <b>BOP on EPC basis</b>   |  |               |                        |       |                        |  |              |
|                       | <b>Type of fuel</b>   | : Coal   |               |                        |       |                        |  |              |
|                       | <b>PPA</b>  | : Signed with PTC India Ltd.   |               |                        |       |                        |  |              |
|                       | <b>Source and supply of Fuel</b>  | : WCL(1.851MMT)  |               |                        |       |                        |  |              |
|                       | <b>Power Evacuation system</b>  | : Final connectivity on LILO from PGCIL Wardha-Parli D/C transmission line.  |               |                        |       |                        |  |              |
|                       |   | <ul style="list-style-type: none"> <li>FSA: Coal Linkage LOA received from WCL, however FSA is yet to be signed</li> <li><b>Consent to Establish</b> : Obtained from MPCB.</li> <li>All statutory clearances are available. MOEF clearance received on 30/07/12.</li> <li>Design &amp; Engineering in progress.</li> <li>Order for all BOPs on EPC basis has already been placed on M/s AEMPL on 26/05/14. The process of subletting packagewise contract to reputed vendors was in progress.</li> <li>Site leveling and grading was in progress.</li> <li>Capacity revision from 2x250 MW to 2x300 MW accepted and issued letter on 19/03/14.</li> <li>FSA is in process. All the milestones required under the terms of LOA have been completed.</li> <li>PPA: MOA signed on 27/02/12 with PTC India Ltd. for sale of 430 MW (75%) on Long Term Basis and remaining 25% on merchant power basis.</li> <li>Various site enabling works were in progress.</li> </ul> |               |                        |       |                        |  |              |
|                       | <b>Critical issues</b>  | Financial Issue  |               |                        |       |                        |  |              |
|                       | <b>Reasons for Delay</b>  | The schedule of implementation got revised due to change in capacity from 2x250 MW to 2x300 MW. Formal approval received on 19/03/14. Signing of FSA with WCL has to be expedited.   |               |                        |       |                        |  |              |

| Sl. No.                  | Project Details  | Unit              | Capacity (MW)  | Commissioning Schedule |       |                         |     | Broad Status  |
|--------------------------|--|-------------------|--|------------------------|-------|-------------------------|-----|---|
|                          |  |                   |  | Original               |       | Actual(A)/ As Expected  |     |   |
|                          |  |                   |  | Synch/ Comm            | COD   | Synch/ Comm             | COD |   |
| <b>Private Sector</b>    |  |                   |  |                        |       |                         |     |   |
|                          | Shirpur Power Private Ltd. Distt. Dhule, Maharashtra<br><br>(2x150=300 MW)   | 1                 | 150  | 12/14                  | 02/15 | 09/17(A)<br>28/09/17(A) | -   | <b>Unit-1:</b><br>Commissioning achieved on 28/09/17.   |
|                          |  | 2                 | 150  | 02/15                  | 04/15 | *                       | *   | <b>Unit-1 &amp; 2:</b><br>Steam blowing of the units completed. Main plant structural work completed. |
|                          | <b>Original / Latest Cost</b>  |                   | :Rs.241300 lakhs / Rs. 241300 lakhs  |                        |       |                         |     |   |
|                          | Expenditure during 2011-12   |                   | : Rs 3368 lakh   |                        |       |                         |     | Project is 96.7% complete.  |
|                          | Expenditure during 2012-13   |                   | : Rs 15821 lakh  |                        |       |                         |     |   |
|                          | Expenditure during 2013-14   |                   | : Rs 74610 lakh  |                        |       |                         |     |   |
|                          | Expenditure during 2014-15   |                   | : Rs 72102 lakh  |                        |       |                         |     |   |
|                          | Expenditure during 2015-16   |                   | : Rs 34176 lakh  |                        |       |                         |     |   |
|                          | Expenditure during 2016-17   |                   | : Rs 27686 lakh  |                        |       |                         |     |   |
|                          | <b>Total Expenditure (Upto 11/17)</b>  |                   | :Rs 238385 lakhs   |                        |       |                         |     | <b>BoPs:</b><br>Almost all BoPs are completed.  |
|                          | <b>Approval date:</b>  |                   | :NA  |                        |       |                         |     |   |
|                          | <b>Zero date:</b>  |                   | :  |                        |       |                         |     |   |
|                          | <b>Notice To Proceed (NTP)</b>   |                   | :  |                        |       |                         |     |   |
|                          | <b>Financial closure</b>   |                   | : Achieved on 08/10/12   |                        |       |                         |     |   |
|                          | <b>Date of Main Plant Order (Boiler &amp;TG from BHEL)</b>   |                   | : BTG Contract awarded to BHEL on 22/11/2011.  |                        |       |                         |     |   |
|                          | <b>BTG Make</b>  |                   | <b>Boiler &amp;TG from BHEL</b>  |                        |       |                         |     |   |
|                          | <b>BOP on EPC basis</b>  |                   |  |                        |       |                         |     |   |
|                          | <b>Type of fuel</b>  |                   | : Coal   |                        |       |                         |     |   |
|                          | <b>PPA</b>   |                   | : 195 MW PPA done with private players in steel and textile sectors. For the rest, new customers like DISCOMs, Railways needs to be found out. |                        |       |                         |     |   |
|                          | <b>Source and supply of Fuel</b>   |                   | : SECL   |                        |       |                         |     |   |
|                          | <b>Power Evacuation system</b>   |                   | <ul style="list-style-type: none"> <li>Connectivity approval from MSETCL for 220 kV line at Amalner substation</li> </ul>                      |                        |       |                         |     |   |
|                          | <ul style="list-style-type: none"> <li>All clearances are available.</li> <li>Design &amp; Engineering completed.</li> <li>Order for BOPs on EPC basis have been placed M/s Punj Lloyd on 03/08/10. In all the BOPs work already completed.</li> </ul> |                   |  |                        |       |                         |     |   |
| <b>Critical issues</b>   |  | PPA, Coal Linkage |  |                        |       |                         |     |   |
| <b>Reasons for Delay</b> |  |                   |  |                        |       |                         |     |   |

\*Work is on hold. Schedule will be decided after restart of work.

| Sl. No.               | Project Details   | Unit   | Capacity (MW) | Commissioning Schedule |     |                        |     | Broad Status   |
|-----------------------|---|--|---------------|------------------------|-----|------------------------|-----|--|
|                       |   |  |               | Original               |     | Actual(A)/ As Expected |     |  |
|                       |   |  |               | Synch/ Comm            | COD | Synch/ Comm            | COD |  |
| <b>Private Sector</b> |   |  |               |                        |     |                        |     |  |
|                       | <b>Bhusawal Thermal Power Project, Distt. Jalgaon, Maharashtra (1x660 MW)</b>   | 6  | 660           | 11/21                  |     |                        |     | <b>Unit-6:</b> <ul style="list-style-type: none"> <li>LOA issued to M/s BHEL on single point responsibility EPC Contract basis.</li> <li>M/s BHEL has submitted Performance BG and Advance BG as per terms of LOA</li> <li>M/s BHEL has submitted the L1 schedule on 30.08.2018.</li> <li>LOA is issued to M/s DCPL for consultancy work for Design, Engineering, Implementation &amp; Monitoring purpose.</li> <li>Leveling &amp; area grading work of M/s BHEL storage yard has been commenced from 06.09.2018.</li> <li>Supply of structural steel material has been commenced during mid September 2018.</li> <li>Construction Power Supply Provided to M/s. BHEL as per requirement.</li> </ul> |
|                       | <b>Original / Latest Cost</b>   | : Rs.509700 lakhs  |               |                        |     |                        |     |  |
|                       | Expenditure during 2018-19  | : Rs lakh  |               |                        |     |                        |     |  |
|                       | <b>Total Expenditure (Upto 12/18)</b>   | :Rs lakhs  |               |                        |     |                        |     |  |
|                       | <b>Approval date:</b>   | :NA  |               |                        |     |                        |     |  |
|                       | <b>Zero date:</b>   | : 31/12/2018 (Revised)   |               |                        |     |                        |     |  |
|                       | <b>Notice To Proceed (NTP)</b>  | : 31/12/2018   |               |                        |     |                        |     |  |
|                       | <b>Financial closure</b>  | :  |               |                        |     |                        |     |  |
|                       | <b>Date of Main Plant Order</b>   | : LOA has been issued to M/s BHEL on single point responsibility EPC contract basis on 17.01.2018. Amendment to LOA issued to M/s BHEL dated 31/12/18 for additional work of FGD, SCR and other scope of work. |               |                        |     |                        |     |  |
|                       | <b>BTG Make</b>   |  |               |                        |     |                        |     |  |
|                       | <b>BOP on EPC basis</b>   |  |               |                        |     |                        |     |  |
|                       | <b>Type of fuel</b>   | Coal   |               |                        |     |                        |     |  |
|                       | <b>PPA</b>  |  |               |                        |     |                        |     |  |
|                       | <b>Source and supply of Fuel</b>  |  |               |                        |     |                        |     |  |
|                       | <b>Power Evacuation system</b>  |  |               |                        |     |                        |     |  |
|                       | AAI issued NOC having the validity till 23 Feb 2022<br>Water Allocation is already tied up with WRD<br>MoE&F Environment clearance (EC) was granted till 26 Nov 2019. |  |               |                        |     |                        |     |  |
|                       | <b>Critical issues</b>  |  |               |                        |     |                        |     |  |
|                       | <b>Reasons for Delay</b>  |  |               |                        |     |                        |     |  |

# **Southern Region**



## BROAD STATUS OF THERMAL POWER PROJECTS IN ANDHRA PRADESH

| Sl. No.   | Project Details   | Unit No.  | Capacity (MW) | Commissioning Schedule |     |                             |       | Broad Status  |
|---|---|---|---------------|------------------------|-----|-----------------------------|-------|---|
|   |   |   |               | Original               |     | Actual(A)/ As Expected      |       |   |
|   |   |   |               | Syn. Comm              | COD | Syn. Comm                   | COD   |   |
| <b>State Sector</b>   |   |   |               |                        |     |                             |       |   |
| 1   | Rayalaseema TPP St-IV (M/s. APGENCO)<br>Distt.Cuddapah, Andhra Pradesh  | 6   | 600           | 07/14<br>08/14         |     | 02.07.17(A)<br>29.03.18 (A) | 04/18 | <p><b>Unit Synchronized on 02.07.17. Full Load achieved on 29.03.2018.</b></p> <ul style="list-style-type: none"> <li>• <b>Boiler:</b> Erection started on 04/02/2013. Boiler Drum lifted on 30/11/13. 26952 MT/ 29730MT structural materials erected till 10/17. Boiler air leak test completed. BLU done on 29/12/16. EDTA cleaning completed on 26.02.17. Mill foundation on both sides completed. Bowl mill deck slabs completed for all mills.</li> <li>• <b>TG:</b> TG erection started on 04/03/16. TG box up done in 02/17.</li> <li>• <b>Chimney (M/s Gammon):</b> Shell concreting completed. A.R.Brick work completed up to (+) EL 135.30 M height.</li> <li>• <b>CHP:</b> Work awarded to M/s Thyssenkrup.</li> <li>• <b>AHP:</b> Vacuum pump house building, Silos, Bottom ash hopper, Buffer hopper, ASPH etc. area civil works completed</li> <li>• <b>RWR:</b> Trimming of slopes of reservoir bund is in progress. In the raw water pump house RCC structure completed.</li> <li>• <b>PTP:</b> clarifier works completed.</li> <li>• <b>DM Plant:</b> Roof slab work up to 183.10 ml completed. Vessels foundations ready. Vessels material available at site. Some vessels are placed in position.</li> <li>• <b>CWS:</b> raft work in CW pump house completed. All walls raised up to pump floor. PCC works of fore bay in progress. CW pipe line fabrication is almost complete.</li> <li>• <b>NDCT (M/s Gammon):</b> Shell erection 32 lifts completed &amp; 33rd in progress.</li> <li>• <b>FO System:</b> M/s Xicon is executing these works Civil work almost completed. Tanks fabrication &amp; erection in progress. Fuel oil transfer pump tank HFO and LDO day tank slab completed &amp; handed over for erection work.</li> <li>• <b>Switchyard:</b> Foundations of all equipment were completed and handed over for erection of equipment's.</li> </ul> |
| Original /Latest Cost   |   | : Rs. 302886 / 388043 Lakh  |               |                        |     |                             |       |   |
| Expenditure during 2009-10  |   | : Rs. 555.00 lakh   |               |                        |     |                             |       |   |
| Expenditure during 2010-11  |   | : Rs. 25833.00 lakh   |               |                        |     |                             |       |   |
| Expenditure during 2011-12  |   | : Rs. 8155.00 lakh  |               |                        |     |                             |       |   |
| Expenditure during 2012-13  |   | : Rs. 29331.00 lakh   |               |                        |     |                             |       |   |
| Expenditure during 2013-14  |   | : Rs. 80045.00 lakh   |               |                        |     |                             |       |   |
| Expenditure during 2014-15  |   | : Rs. 52429.00 lakh   |               |                        |     |                             |       |   |
| Expenditure during 2015-16  |   | : Rs. 62341.00 lakh   |               |                        |     |                             |       |   |
| Expenditure during 2016-17  |   | : Rs. 83576.96 lakh   |               |                        |     |                             |       |   |
| Expenditure during 2017-18  |   | : Rs 69776.04 lakh (12/17)  |               |                        |     |                             |       |   |
| <b>Total Expenditure</b>  |   | <b>: Rs 412042 lakh (up to 12/2017)</b>   |               |                        |     |                             |       |   |
| <b>Zero date</b>  |   | <b>: 10/02/2011.</b>  |               |                        |     |                             |       |   |
| Financial closure   |   | : Achieved on 19/03/10  |               |                        |     |                             |       |   |
| Type of Fuel  |   | : Coal  |               |                        |     |                             |       |   |
| <b>Main Plant Order</b>   |   | Placed on M/s BHEL for BTG on <b>18/11/10.</b>  |               |                        |     |                             |       |   |
| <b>BOP Package</b>  |   | Purchase order placed on the consortium led by M/s Tecpro Systems Ltd, including civil works on EPC basis on <b>15/12/10.</b> Now it is led by VA Tech. |               |                        |     |                             |       |   |
| <ul style="list-style-type: none"> <li>• MOEF clearance obtained on 21/10/2010.</li> <li>• PFC Sanctioned a loan of Rs. 2423 crores.</li> <li>• M/s Desein Pvt. Ltd is providing engineering consultancy services.</li> </ul> |   |   |               |                        |     |                             |       |   |
| <b>Critical issues</b>  | 1. Readiness of cooling tower, CHP & AHP.   |   |               |                        |     |                             |       |   |
| <b>Reasons for Delay</b>  | 1. Boiler erection start was delayed by 13 months due to initial land acquisition and civil works problems. Mill, ID, FD & PA fan foundation work delayed.<br>2. Slow progress of Civil works and BOP works by the consortium led by VA Tech, Techpro and Gammon.<br>3. Delay in award of CHP & AHP by the consortium leader VA Tech. |   |               |                        |     |                             |       |   |

| Sl. No.                      | Project Details  | Unit No.  | Capacity (MW) | Commissioning Schedule |       |                        |       | Broad Status   |
|------------------------------|--|---|---------------|------------------------|-------|------------------------|-------|--|
|                              |  |   |               | Original               |       | Actual(A)/ As Expected |       |  |
|                              |  |   |               | Syn. Comm              | COD   | Syn. Comm              | COD   |  |
| <b>State Sector</b>          |  |   |               |                        |       |                        |       |  |
| 2                            | Sri Damodaram Sanjeevaiah TPP St-II (Krishnapatnam) (APPDCL) Distt.Nellore, Andhra Pradesh | 1   | 800           | 03/19<br>04/19         | 06/19 | 09/19<br>11/19         | 11/19 | <ul style="list-style-type: none"> <li>Boiler:Boiler Erection started in 26.06.2017. 76% completed. Hydro Test expected in 07/19. ESP Erection Work done (Pass D 100%, Pass C 97 %, Pass B 95 %, &amp; Duct &amp; support structure 34 % ).</li> <li>TG : TG erection start 20.09.2018. TG raft, columns, deck casting and pedestal concreting completed. Condenser erection works started in 08/18. TG erection works started in 10/18. Works are in progress.</li> <li><b>BoPs.</b></li> <li>CHP: Structural Steel fabrication 5800/5820 T completed. Structural Steel erection 3790/5820 T completed. Structural steel erection for Conveyors and JNTs in progress.</li> </ul> <p>AHP: Works of Ash compressor house, Ash water sump and pump house, Ash slurry pump house, Hydrobins, Clarifier, MMC, Sludge pit, Vacuum pump house, Silo 1, Silo 2, Utility building, Ash slurry line pedestals &amp; Ash slurry line piping are in progress.</p> <ul style="list-style-type: none"> <li>Cooling Tower: 100% Racker columns completed. Shell up to 114 lift completed.</li> <li>Chimney: Brick work 247/274mtr completed. External platform works completed. Insulation works are in progress, Landing platform works completed. Inside shell BT painting is in progress.Level corbel casting completed (27/27).</li> </ul> <p>All othe BOP works are in progress.</p> <ul style="list-style-type: none"> <li><b>FGD : Order not yet placed.</b></li> </ul> |
| Original / Latest Estd. Cost |  | Rs. 4276.04 / 6034 Crs.   |               |                        |       |                        |       |  |
| Expenditure during 2015-16   |  | Rs. 199.20 Crs.   |               |                        |       |                        |       |  |
| <b>Total Expenditure</b>     |  | Rs. 4322 Crs. (22.3.2019)   |               |                        |       |                        |       |  |
| Approval date:               |  | 14.12.2017 for revised cost   |               |                        |       |                        |       |  |
| <b>Zero date:</b>            |  | 15.12.2015  |               |                        |       |                        |       |  |
| Financial closure            |  | Completed   |               |                        |       |                        |       |  |
| <b>Main Plant Order</b>      |  | BTG order placed on BHEL on 02.11.15.   |               |                        |       |                        |       |  |
| <b>Type of fuel/FSA</b>      |  | Coal. Available   |               |                        |       |                        |       |  |
| Power Evacuation system      |  | Already in place  |               |                        |       |                        |       |  |
| PPA                          |  | Available with 2 DISCOMS of A.P   |               |                        |       |                        |       |  |
|                              |  |   |               |                        |       |                        |       |  |
|                              |  | <p>Land Possession: Available.<br/> Water allocation: Available.<br/> MOE&amp;F clearance: Available<br/> State Pollution Control Board Clearance: Available<br/> Civil Aviation clearance: Available</p> |               |                        |       |                        |       |  |
| <b>Critical issues</b>       |  |   |               |                        |       |                        |       |  |
| <b>Reasons for Delay</b>     |  |   |               |                        |       |                        |       |  |

SB-24.04.2019

| Sl. No.  | Project Details  | Unit No.  | Capacity (MW) | Commissioning Schedule |       |                        |       | Broad Status  |
|--|--|---|---------------|------------------------|-------|------------------------|-------|---|
|  |  |   |               | Original               |       | Actual(A)/ As Expected |       |   |
|  |  |   |               | Syn. Comm              | COD   | Syn. Comm              | COD   |   |
| <b>State Sector</b>  |  |   |               |                        |       |                        |       |   |
| 3  | Dr. Narla Tata Rao<br>TPP<br>APGENCO<br>Distt. Vijayawada,<br>Andhra Pradesh | 1   | 800           | 03/19<br>06/19         | 07/19 | 03/19<br>06/19         | 07/19 | <p><b>Boiler</b> erection started on 22.05.2017. <b>Drainable Hydraulic Test completed on 05.03.2019</b></p> <p>Pass I erection and Pass II erection works under progress.<br/> <b>TG</b> deck casting completed. TG and condenser erection started.<br/> <b>ESP</b> erection started on 15.03.2017.</p> <p><b>BOPs.</b><br/> <b>CHP:</b> JT erection works under progress. WAGON TIPPLER : Wall raised upto RL 24.30 &amp; Floor slab completed. Walls above FS 109/109m 1st lift completed. Re bar tying &amp; shuttering for wall in progress. pedestal completed.<br/> Track Hopper : 1 to 8 walls , MB-2 wall side 10.9/12.4 completed.<br/> MBI wall through slip from under progress.</p> <p><b>AHP:</b> Ash slurry pump house roof beam completed, pump foundations under progress. Ash water pump house steel for roof beams is in progress. Ash slurry pump house columns final lift completed.<br/> Seal water sump walls final lift concrete completed. AHP &amp; MRS compressor house columns first lift above plinth beam under progress. Vacuum pump house concreting of all roof beams is completed. Hydrobins 1,2&amp;3 columns 3rd lift above plinth beam completed. Silo 1:columns 1st lift completed, silo 2 columns 3rd lift completed. Silo utility building roof slab completed. Ash water sump walls under progress. Ash slurry sump works under progress. Haunch AHP &amp; MRS compressor house : lintel beam &amp; columns lift under</p> <p><b>Cooling Towers:</b> 174 /180 mtrs shell concreting completed.</p> <p><b>Chimney:</b> AR lining 85% completed and chimney in all aspects will be ready by 31.05.2019</p> <p><b>PT Plant:</b> All the equipment pertaining to pre-treatment plant &amp;DM plant erection completed. Raw water line charged from RWPH to Aerator. DM water will be made available by 30.04.2019</p> <p><b>CW System:</b> 688/1100 mtrs CW pipeline erection completed. 219/400 ACW piping erection started. 40 T EOT crane mechanical erection completed in CWPH. Hydrotest for 200 mts A CW pumps erection completed .</p> <p><b>Switch Yard:</b> 400 KV extension Switchyard charged on 28.02.2019 and charging of Station Transformer will be completed by 30.04.2019</p> |
| Original / Latest Cost   |  | Rs. 5515 Crs.   |               |                        |       |                        |       |   |
| Total Expenditure incurred till date   |  | Rs. 4041.47 Crs   |               |                        |       |                        |       |   |
| Approval date:   |  |   |               |                        |       |                        |       |   |
| Zero date:   |  | 15/12/2015  |               |                        |       |                        |       |   |
| Financial closure  |  | Completed   |               |                        |       |                        |       |   |
| Main Plant Order   |  | BTG order placed on BHEL on 28.10.15.   |               |                        |       |                        |       |   |
| BOP Package  |  | Tendering for BOP packages completed and order placed on M/s. BGR energy Systems Ltd on 06/07/2016. (36 months for completion of BoP) |               |                        |       |                        |       |   |
| Type of fuel /FSA  |  | Coal / Available  |               |                        |       |                        |       |   |
| PPA  |  | Available with 4 DISCOMS before bifurcation of A.P. To be revised with 2 DISCOMS of A.P   |               |                        |       |                        |       |   |
| Power Evacuation system  |  | Under progress  |               |                        |       |                        |       |   |
| Land Possession: Available<br>Water allocation: Available<br>MOE & F clearance: Available<br>State Pollution Control Board Clearance: Available<br>Civil Aviation clearance: Available |  |   |               |                        |       |                        |       |   |
| <b>Critical issues</b>   |  |   |               |                        |       |                        |       |   |
| <b>Reasons for Delay</b>   |  |   |               |                        |       |                        |       |   |

SB-24.04.2019

| Sl. No.  | Project Details  | Unit No.  | Capacity (MW) | Commissioning Schedule           |                |  |              | Broad Status   |
|--|--|---|---------------|----------------------------------|----------------|--|--------------|--|
|  |  |   |               | Original                         |                | Actual(A)/ As Expected                       |              |  |
|  |  |   |               | Syn. Comm                        | COD            | Syn. Comm                                    | COD          |  |
| <b>Private Sector</b>  |  |   |               |                                  |                |  |              |  |
| 4  | Thamminapatnam TPP Ph-II (M/s Meenakshi Energy Pvt.Ltd.),<br>Thamminapatnam<br>Distt.: SPSR Nellore,<br>Andhra Pradesh | 3<br>4  | 350<br>350    | 01/12<br>05/12<br>03/12<br>08/12 | 06/12<br>09/12 | 10.02.18 (A)<br>15.04.18 (A)<br>6/19<br>7/19 | 6/19<br>7/19 | <p><b>Unit-3:</b></p> <ul style="list-style-type: none"> <li><b>Boiler:</b> erection started on 16/11/11. Drum lifted in 16/05/14. Hangers &amp; Headers erection almost completed. Panel and coil erection in progress. Roof, LHS, RHS, Burner Panel erection completed. Final SH and HTRH coils erection completed. Primary SH coil erection in progress Erection of flue gas duct between ESP to ID fab to Chimney almost completed. ESP to Boiler flue gas duct erection almost completed. Both sides RAPH erection nearing completion.ID fan #A &amp; #B completed. Both side PA &amp; FD fan erection completed. HT done on 31/10/15. <b>Non-drainable HT completed on 06.08.17. BLU Completed on 30.11.17. Steam Blowing completed on 20/12/17. Unit synchronized on 10.2.18. Full load achieved on 15.4.18.</b></li> <li><b>TG:</b> Condenser erection started in 15/03/15 &amp; TG erection started in 04/07/15. LP &amp; HP turbine final box up completed on 14.02.17. Condenser front and rear water box erection completed. <b>Final Boxed –up on 27.07.17 .TG oil flushing completed on 27.11.17 and TG on barring gear.</b></li> </ul> <p><b>Unit-4:</b></p> <ul style="list-style-type: none"> <li><b>Boiler:</b> erection started in 22/09/14. Drum lifted on 31.07.15. <b>HT (Non drainable) completed in 5/18.</b> SBO completed in 01/19. Full load expected in 04/19.</li> <li><b>TG:</b> Condenser erection started on 13/07/15. TG erection started on 29/10/15. <b>TG box up done in 3/18.</b> TG oil flushing done in 06/18.</li> <li><b>Chimney:</b> Ready for service.</li> <li><b>CHP:</b> Awarded to EDAC Engineering Ltd., Chennai on 18/06/10. Priority Stream-I trial run completed • Stream-II commissioning work in progress • Stacker &amp; Reclaimer – I &amp; II – in operation mode.</li> <li><b>AHP:</b> Awarded to EDAC Engineering Ltd., Chennai on 18/06/10. Unit#3 completed • Unit#4 Completed.</li> <li><b>IDCT:</b> Awarded to EDAC Engineering Ltd., Chennai on 18/06/10. CT#3 Completed • CT#4 completed.</li> <li><b>PTP:</b> PT plant erection completed and commissioned.</li> <li><b>DM Plant:</b> DM plant in operation mode.</li> <li><b>CW System:</b> Unit#3 CW and ACW commissioning completed. • Unit#4 CW and ACW commissioning completed.</li> <li><b>FO System:</b> LDO system completed and oil stored in tanks.</li> <li><b>SW Yard:</b> Switchyard charging completed on 31.05.17. Switchyard Automation System (SAS) panels, Control Relay Panel (CRP) panel charging completed.</li> </ul> |
| Original /Latest Est. Cost   |  | :Rs 312000 Lakhs ( 600 MW) / 500500 Lakhs ( 700 MW)   |               |                                  |                |  |              |  |
| Expenditure during 2008-09   |  | :Rs -NIL-   |               |                                  |                |  |              |  |
| Expenditure during 2009-10   |  | :Rs 1157.00 Lakhs   |               |                                  |                |  |              |  |
| Expenditure during 2010-11   |  | :Rs 42362.00 Lakhs  |               |                                  |                |  |              |  |
| Expenditure during 2011-12   |  | :Rs 53379.46 Lakhs  |               |                                  |                |  |              |  |
| Expenditure during 2012-13   |  | :Rs 21802.67 Lakhs  |               |                                  |                |  |              |  |
| Expenditure during 2013-14   |  | :Rs 47833.82 Lakhs  |               |                                  |                |  |              |  |
| Expenditure during 2014-15   |  | :Rs 81656.43 Lakhs  |               |                                  |                |  |              |  |
| Expenditure during 2015-16   |  | :Rs. 98832.77 Lakhs   |               |                                  |                |  |              |  |
| Expenditure during 2016-17   |  | :Rs. 86250.65 Lakhs   |               |                                  |                |  |              |  |
| Expenditure during 2017-18   |  | :Rs. 74715.67 Lakhs   |               |                                  |                |  |              |  |
| Expenditure during 2018-19   |  | :Rs 33450.49 Lakhs (2/19)   |               |                                  |                |  |              |  |
| <b>Total Expenditure(up to 2/19)</b>   |  | <b>: Rs. 541440.96 Lakhs</b>  |               |                                  |                |  |              |  |
| Approval date:   |  |   |               |                                  |                |  |              |  |
| <b>Zero date:</b>  |  |   |               |                                  |                |  |              |  |
| Financial closure  |  | <b>01/10/2010</b><br>Loan agreement signed with REC, IBDI & other Banks, REC as lead lender   |               |                                  |                |  |              |  |
| <b>Main Plant Order:</b>   |  | <b>10/12/2009</b><br><b>Boiler</b> –Cethar Vessels Ltd, Trichy, Tamil Nadu, India<br><b>TG</b> – China National Automotive International Corporation, China (Harbin)                            |               |                                  |                |  |              |  |
| <b>BOP Package</b>   |  |   |               |                                  |                |  |              |  |
| <b>Type of fuel</b>  |  |   |               |                                  |                |  |              |  |
| PPA  |  | :PPA signed with M/s PTC on 25/02/2010 for 600 MW.  |               |                                  |                |  |              |  |
| Power Evacuation system  |  | :400 KV MEPL – Manubolu (PGCIL) 27 km line is completed by M/s Sujana Towers Hyderabad and charged. Agreement for Long Term Open Access for 1000 MQ with PGCIL on 2 <sup>nd</sup> January 2012. |               |                                  |                |  |              |  |
| <ul style="list-style-type: none"> <li><b>Land: 563.90</b> Acres of land acquired for entire 1000 MW.</li> <li><b>MOE&amp;F:</b> Clearance obtained on 03/06/2009 &amp; 19/10/09. Further extended up to 18/10/19 on 25/10/13.</li> <li><b>SPCB:</b> Consent for Establishment received vide letter dated May 2011 for 1000MW. Extension granted to 2021</li> <li><b>Civil Aviation:</b> NOC obtained on 28/02/11from AAI for 281 m height of chimney.</li> <li><b>Water:</b>100 Cusec/day sea water from Kandaleru Creek accorded by Principal Secretary (FAC), Infrastructure &amp; Investment (Ports-I), AP on 18/02/10.</li> <li><b>Fuel Linkage:</b> Letter of Assurance (LOA) dated 11th June 2009 obtained from Mahanadi Coalfields Ltd (MCL) for the supply of 2.023 MMTPA Grade “F” Coal. Fuel Supply Agreement dated 31 August, 2013 executed with Mahanadi Coalfields Ltd(MCL) for the supply of 1.0115MMTPA Grade “F” coal for Unit 3 (350 MW). Imported Coal Supply Agreement: Coal Supply and Transportation Agreement dated 25 November, 2013 executed, with GDF Suez Energy Management Trading SCRL, 34, boulevard Simon Bolivar, 1000 Brussels, Belgium. Coal Quantity : 2.50MMT per annum</li> <li><b>BPTA:</b> BPTA signed with PGCIL for 300 MW on 24/02/2010 and for additional BPTA signed for 1000 MW on 02/01/12</li> <li><b>Mega Status:</b> Achieved in 02/12</li> </ul> |  |   |               |                                  |                |  |              |  |
| <b>Critical issues</b>   |  |   |               |                                  |                |  |              |  |
| <b>Reasons for Delay</b>   |  | Slow progress of Civil works. Due to financial problem, work at site remained closed for a long time. Change of stakeholders and subsequent change in the completion of various milestone.      |               |                                  |                |  |              |  |

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| Sl. No.   | Project Details  | Unit No.   | Capacity (MW) | Commissioning Schedule |       |                        |   | Broad Status |
|---|--|--|---------------|------------------------|-------|------------------------|---|--------------|
|   |  |  |               | Original               |       | Actual(A)/ As Expected |   |              |
|   |  |  |               | Syn. Comm              | COD   | Syn. Comm              | COD   |              |
| <b>Private Sector</b>   |  |  |               |                        |       |                        |   |              |
| 5   | Bhavanapadu TPP Ph-I<br>(M/s East Coast Energy Pvt. Ltd.)<br>Distt.: Srikakulam,<br>Andhra Pradesh   | 1  | 660           | 08/13                  | 12/13 | Uncertain              | <b>Unit-1</b> <ul style="list-style-type: none"> <li>• <b>Boiler:</b> Boiler erection is started on 27/03/2014. 5<sup>th</sup> tier erection completed. Girders are to be placed which are available at site.</li> <li>• <b>ESP:</b> Structures, hoppers erection is in progress.</li> <li>• <b>TG:</b> Deck casting completed on 28/05/15. Power house erection (2<sup>nd</sup> tier) is in progress. EOT crane to be erected</li> </ul> <b>Unit-2</b> <ul style="list-style-type: none"> <li>• <b>Boiler:</b> Boiler erection started in 02/15. 2<sup>nd</sup> tier erection completed.</li> <li>• <b>ESP:</b> Piling completed.</li> <li>• <b>TG:</b> Raft casted on 29/05/15. TG columns scaffolding work is in progress. Condenser erection yet to start.</li> </ul> <b>BoP's</b> <ul style="list-style-type: none"> <li>• <b>Chimney:</b> Order placed on M/s. R S Pabla in Oct, 10. Shell casting completed. Flue can erection is in progress.</li> <li>• <b>CHP:</b> Awarded to M/s BSBK. Piling completed. Dewall works in track hopper area completed.</li> <li>• <b>AHP:</b> Order placement is in progress.</li> <li>• <b>WTP:</b> Engineering is in progress.</li> <li>• <b>DM Plant:</b> Engineering is in progress.</li> <li>• <b>CW System:</b> Engineering is in progress.</li> <li>• <b>NDCT:</b> Order placed on M/s Paharpur Cooling Towers.</li> <li>• <b>FPS:</b> Engineering is in progress.</li> <li>• <b>FOS:</b> Order placed on Delta P.D. Pumps on 14/05/12. Tank fabrication work completed.</li> </ul> <b>Switchyard:</b> Engineering is in progress.<br><b>ATS:</b> Award of contract to be done by ECEPL. <ul style="list-style-type: none"> <li>• <b>Presently work held up at site due to financial issues.</b></li> </ul> <b>PPA details are as follows: Having PPA for 100 MW with Kerala. Having LOI for 300 MW but in dispute due to formation of Telangana. For 500 MW PPA with Andhra Pradesh, developer is L1.</b> |              |
| Original /Latest Est. Cost  |  | :Rs 657194.00 lakh (Equity:debt::25:75) / 934315.00 lakh (09/07/14)  |               |                        |       |                        |   |              |
| Expenditure during 2007-08  |  | :Rs 1674.00 lakh   |               |                        |       |                        |   |              |
| Expenditure during 2008-09  |  | :Rs 7018.00 lakh   |               |                        |       |                        |   |              |
| Expenditure during 2009-10  |  | :Rs 27800.00 lakh  |               |                        |       |                        |   |              |
| Expenditure during 2010-11  |  | :Rs 72100.00 lakh  |               |                        |       |                        |   |              |
| Expenditure during 2011-12  |  | :Rs 22900.00 lakh  |               |                        |       |                        |   |              |
| Expenditure during 2012-13  |  | :Rs 29208.00 lakh  |               |                        |       |                        |   |              |
| Expenditure during 2013-14  |  | :Rs 76300.00 lakh  |               |                        |       |                        |   |              |
| Expenditure during 2014-15  |  | :Rs 82210.00 lakh  |               |                        |       |                        |   |              |
| Expenditure during 2015-16  |  | :Rs. 53006.00 lakh   |               |                        |       |                        |   |              |
| <b>Total Expenditure (till 01/16)</b>   |  | :Rs 3785. 60 Crores  |               |                        |       |                        |   |              |
| Approval date:  |  |  |               |                        |       |                        |   |              |
| <b>Zero date:</b>   |  | <b>15/09/2010</b>  |               |                        |       |                        |   |              |
| Financial closure   |  | : Achieved on <b>08/09/2010. Lead Financier - PFC</b>  |               |                        |       |                        |   |              |
| <b>Main Plant Order:</b>  |  | : Order placed on <b>03/09/2009</b> on DEC China ( <b>BTG</b> )  |               |                        |       |                        |   |              |
| <b>BOP Package</b>  |  | : EPC of BOP & Main plant Civil works contract awarded to consortium of M/s NEC and M/s Abir Infrastructure Pvt Ltd on 30/01/10. |               |                        |       |                        |   |              |
| <b>Type of fuel</b>   |  |  |               |                        |       |                        |   |              |
| PPA   |  | : Long term PPA signed with PTC India Ltd on 25/06/10 as an amendment of 06/05/09  |               |                        |       |                        |   |              |
| Power Evacuation system   |  |  |               |                        |       |                        |   |              |
| <ul style="list-style-type: none"> <li>• <b>Land:</b> Total land of (2050 + 36.94 Colony) Acres is acquired.</li> <li>• <b>MoE&amp;F:</b> Clearance obtained on <b>09/04/2009</b> &amp; revalidated on <b>20/08/14</b>.</li> <li>• <b>Water:</b> Permission for drawl of 168 cusec sea water from Govt. of AP is obtained on 10/06/2008.</li> <li>• <b>SPCB:</b> clearance obtained from APPCB on 15/06/2009 revalidated on <b>30/12/14</b>.</li> <li>• <b>Civil Aviation:</b> AAI clearance obtained vide Ir. Dt. 04/03/08 &amp; revalidated up to 3<sup>rd</sup> March 2020.</li> <li>• <b>Coal Linkage / FSA:</b> LOA received from MCL for 4.273 MTPA on 11/06/2009. FSA to be signed. FSA signed with Global Fuels pvt Ltd Singapore for balance quantity of coal on 23/04/09</li> <li>• <b>BPTA:</b> BPTA signed with PGCIL on 21/09/12.</li> </ul> |  |  |               |                        |       |                        |   |              |
| <b>Critical issues</b>  | Signing of FSA. SLC to decide.<br>Readiness of ATS from Plant to power grid pooling station at Palasa (42 km) by M/s East Coast.<br>Allotment of land for railway siding, sea water intake pipelines and pump house by Govt. of A.P. |  |               |                        |       |                        |   |              |
| <b>Reasons for Delay</b>  | Law & Order problem, Financial problem of the company, acquisition of balance land for sea water intake & railway siding.  |  |               |                        |       |                        |   |              |

## BROAD STATUS OF THERMAL POWER PROJECTS IN TELANGANA

| Sl. No.   | Project Details  | Unit No.  | Capa-city (MW) | Commissioning Schedule |       |   |                 | Broad Status   |
|---|--|---|----------------|------------------------|-------|---|-----------------|--|
|   |  |   |                | Original               |       | Actual(A)/ As Expected                            |                 |  |
|   |  |   |                | Syn. Comm              | COD   | Syn. Comm   | COD             |  |
| State Sector  |  |   |                |                        |       |   |                 |  |
| 1   | <b>Kothagudem TPS –VII (TSGENCO) Distt. Kammam, Telagana</b> | 12  | 800            | 09/17<br>11/17         | 12/17 | <del>30.06.18</del><br><del>05.10.18</del><br>(A) | 26.12.18<br>(A) | <p><b>Unit Synchronised on 30.06.18. Full load achieved on 05.10.18. COD on 26/12/18.</b></p> <ul style="list-style-type: none"> <li>Boiler: Civil work started on 12/06/15 and erection commenced on 24/01/2016 and is in progress 98.4% completed. HT (Drainable) completed on 22.09.17. BLU completed on 31.01.18. TG Deck: TG civil work started in 23/08/15. TG erection started on 28.02.17. TG Boxed up in 06/18.</li> </ul> <p><b>BOPs</b></p> <ul style="list-style-type: none"> <li>CHP: Civil work awarded to M/s. SNC on 12/02/16. 94% completed. Wagon tippler side arm charger works completed. Stacker cum reclaimers awarded to M/s TRF on 12/08/15 commissioning of SCR-I completed. Conveyor system awarded to M/s. BEVCON on 22/08/15: Material received and erection work under progress. Crusher, vibrating screens/peddle feeder awarded to M/s Elecon on 23.02.16- Material received Erection works in progress.</li> <li>AHP: Civil work Awarded M/s SNC on 12.02.16. 93% completed. Supply &amp; Erection work awarded to M/s OSM : 95% material supplied.</li> <li>Cooling Tower: Awarded to M/s. Paharpur cooling towers ltd. on 04/03/16, work started on 12/07/16 and 99.8% completed.</li> <li>Chimney: Awarded to M/s. BIL on 16/05/15.Chimney is completed.</li> <li>PT Plant: Civil work Awarded to M/s. Punj Lloyd Ltd (PLL) and 95% completed. Supply &amp; erection awarded to M/s Clear water: 98% material supplied &amp; 80% work completed.</li> <li>DM Plant: 98.5% completed.</li> <li>CW System: 98% civil works completed.</li> <li>Fuel Oil Handling System: 97% civil works completed.</li> <li>FGD: LOI issued to M/s BHEL for providing wet lime based FGD with completion period of 30 months. Works yet to start.</li> </ul> |
| Original Estd. Cost/Latest Cost   |  | : Rs. 554844 lakhs / Rs. 554844 lakhs                                     |                |                        |       |   |                 |  |
| Expenditure during 2014-15  |  | : Rs. 199.60 lakhs  |                |                        |       |   |                 |  |
| Expenditure during 2015-16  |  | : Rs. 54654.50 lakhs  |                |                        |       |   |                 |  |
| Expenditure during 2016-17  |  | : Rs. 170310.10 lakhs   |                |                        |       |   |                 |  |
| Expenditure during 2017-18  |  | : Rs. 107615.42 lakhs   |                |                        |       |   |                 |  |
| Expenditure during 2018-19  |  | : Rs. 130783.19 lakhs (12/18)   |                |                        |       |   |                 |  |
| Total Expenditure(Up to 12/18)  |  | : Rs. 466995.13 lakhs   |                |                        |       |   |                 |  |
| Approval date:  |  |   |                |                        |       |   |                 |  |
| Zero date:  |  | 01/01/2015  |                |                        |       |   |                 |  |
| Financial closure   |  | Tied up with REC on 17/01/2014  |                |                        |       |   |                 |  |
| Main Plant Order  |  | (BTG on M/s BHEL)- LOI issued on 27/12/14.                                |                |                        |       |   |                 |  |
| BOP Package   |  |   |                |                        |       |   |                 |  |
| Type of fuel  |  | Coal, FSA: M/s Singareni Collieries Co. Ltd, Kothagudem.                  |                |                        |       |   |                 |  |
| PPA   |  | PPA signed on 22/01/2013 and power evacuation system 400 Kv by TSTRANSCO. |                |                        |       |   |                 |  |
| Power Evacuation system   |  | 400kV by TSTRANSCO  |                |                        |       |   |                 |  |
| <ul style="list-style-type: none"> <li>LOI was issued to BHEL on 27/12/2014 (i.e Main plant equipment Boiler, Turbine &amp; Generator-BTG)</li> <li>MOEF clearance obtained on 16/07/15.</li> <li>SPCB clearance obtained on 12.11.15</li> <li>SPCB: Applied for consent for establishment and approval awaited.</li> <li>REC has sanctioned a loan vide letter dated 17/01/14.</li> <li>Water allocation available vide G.O.MS No.47, dated 24/12/14.</li> <li>AAI clearance obtained vide letter no. AAI/SR/NOC/RHQ dt.15/10/12.</li> </ul> |  |   |                |                        |       |   |                 |  |
| Critical issues   |  |   |                |                        |       |   |                 |  |
| Reasons for Delay   |  |   |                |                        |       |   |                 |  |

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| Sl. No.                  | Project Details  | Capa-city (MW)  | Commissioning Schedule |       |                        |       | Broad Status  |
|--------------------------|--|---|------------------------|-------|------------------------|-------|---|
|                          |  |   | Original               |       | Actual(A)/ As Expected |       |   |
|                          |  |   | Syn. Comm              | COD   | Syn. Comm              | COD   |   |
| <b>State Sector</b>      |  |   |                        |       |                        |       |   |
| 2                        | Bhadradi TPP (TSGENCO)<br>Distt. Khammam,<br>Telangan  | 1080  |                        |       |                        |       | <p><b>Unit 1:</b><br/><b>Boiler:</b> Boiler erection started on 15.09.17. Boiler drum lifted on 06.01.18.Boiler hydro test completed on 17.08.18. BLU 25.03.2019.<br/><b>TG:</b> TG civil work started on 06.11.15. Condenser erection started on 01.06.18.TG erection started on 01.09.18. TG box up 13.02.2019</p> <p><b>Unit 2:</b><br/><b>Boiler:</b> Boiler erection started on 12.01.18.. Boiler drumlifted on 28.03.18. Boiler hydro test completed on 04.11.18.<br/><b>TG:</b> TG civil work started on 06.11.15. Condenser erection started on 29.11.18. TG erection started on 10.01.19.</p> <p><b>Unit 3:</b><br/><b>Boiler:</b> Boiler erection started on 11.01.18.. Boiler drumlifted on 28.03.18. Boiler hydro test completed on 26.11.18.<br/><b>TG:</b> TG civil work started on 04.12.15..</p> <p><b>Unit 4:</b><br/><b>Boiler:</b> Boiler erection started on 08.03.18.. Boiler drumlifted on 21.08.18.<br/><b>TG:</b> TG civil work started on 04.12.15.</p> <p><b>BoPs:</b></p> <ul style="list-style-type: none"> <li>• <b>CHP:</b> conveyer package-10% completed. Stacker Reclaimer-10% completed. <b>Wagon Tripler work yet to start.</b></li> <li>• <b>AHP:</b> 12% completed.</li> <li>• <b>Cooling Tower:</b> 80% completed.</li> <li>• <b>Chimney:</b> 75% completed.</li> <li>• <b>DM Plant – 15% completed</b></li> <li>• <b>PT Plant, CW treatment plant:</b> Works not started.</li> <li>• <b>Switchyard – 70 % completed.</b></li> <li>• <b>FGD:</b> Agency not finalized yet.</li> </ul> |
|                          | U-1  | 270   | 01/17<br>03/17         | 03/17 | 06/19<br>07/19         | 07/19 |   |
|                          | U-2  | 270   | 03/17<br>05/17         | 05/17 | 08/19<br>08/19         | 08/19 |   |
|                          | U-3  | 270   | 05/17<br>07/17         | 07/17 | 11/19<br>11/19         | 11/19 |   |
|                          | U-4  | 270   | 07/17<br>09/17         | 09/17 | 09/19<br>12/19         | 12/19 |   |
|                          | Original Estd. Cost /Latest Cost   | Rs. 7290.60 Crs./ Rs.8536.98 Crs (including FGD system)   |                        |       |                        |       |   |
|                          | Expenditure during 2015-16   | Rs. 1000 Crs.   |                        |       |                        |       |   |
|                          | Expenditure during 2016-17   | Rs.   |                        |       |                        |       |   |
|                          | Expenditure during 2017-18   | Rs.   |                        |       |                        |       |   |
|                          | Expenditure during 2018-19   | Rs.   |                        |       |                        |       |   |
|                          | <b>Total Expenditure</b>   | <b>Rs. 4974.11 Crs. ( 3/19)</b>   |                        |       |                        |       |   |
|                          | Approval date:   |   |                        |       |                        |       |   |
|                          | <b>Zero date:</b>  | : 21.03.15  |                        |       |                        |       |   |
|                          | Financial closure  | Power Finance Corporation Ltd sanctioned loan for an amount of Rs.5832.34 Cr. vide Letter dated- 03.06.2015 |                        |       |                        |       |   |
|                          | <b>Main Plant Order</b>  | EPC order placed on BHEL on 21.03.15.   |                        |       |                        |       |   |
|                          | <b>BOP Package</b>   |   |                        |       |                        |       |   |
|                          | <b>Type of fuel</b>  | Coal Ministry of Coal sanctioned 4.2 MTPA for BTPS  |                        |       |                        |       |   |
|                          | PPA  | Yet to be entered and under process.  |                        |       |                        |       |   |
|                          | Power Evacuation system  | Commissioned in February 2019.  |                        |       |                        |       |   |
|                          | 1. State Government Permission: As directed by Govt. of Telangana State vide letter from Chief Minister Office, i.e. Lr No. 177/PrISCM/2014, Dt-1.12.2014<br>2. Water Allocation: State Govt. has allotted for drawl of 1.4 TMC of water per year@ 45 cusec from Godavari river vide G.O.Ms.No. 03, dt-07.01.2015<br>3. Civil Aviation Clearance for Chimney: NOC issued by AAI vide Ref.No. AAI/SR/NOC/RHQ dt:11.12.2015<br>4. Environmental Clearance from MoE&F& CC, Gol.: EC obtained on Dt: 15.03.2017.<br>5. State PCB Pollution Clearance for water & Air (Consent for Establishment): Obtained on 30.03.2017 |   |                        |       |                        |       |   |
| <b>Critical issues</b>   | Readiness of DM plant is subjected to availability of Raw water at Reservoir.<br>Rediness of FO System subjected to availability of fuel, oil.   |   |                        |       |                        |       |   |
| <b>Reasons for Delay</b> | Work held up due to order from National Green Tribunal (NGT) and non-availability of MoE&F clearance.  |   |                        |       |                        |       |   |

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| Sl. No.                  | Project Details   | Capa-city (MW)  | Commissioning Schedule |       |                        |       | Broad Status  |
|--------------------------|---|---|------------------------|-------|------------------------|-------|---|
|                          |   |   | Original               |       | Actual(A)/ As Expected |       |   |
|                          |   |   | Syn. Comm              | COD   | Syn. Comm              | COD   |   |
| <b>State Sector</b>      |   |   |                        |       |                        |       |   |
| 3                        | Yadadri TPP (TSGENCO)<br>Distt. Nalgonda,<br>Telangan   | 4000  |                        |       |                        |       | Civil Works in progress. U #1 & 2 Boiler erection expected to start by 03/19.   |
|                          | U-1   | 800   | 07/20<br>09/20         | 10/20 | 07/20<br>09/20         | 10/20 | FGD: Included in the revised LOA placed on M/s. BHEL. Scheduled completion of Unit with the new norms is as follows: U-1 & 2 – 08/20<br>U-3,4 – 04/21 and U-5 – 08/21 |
|                          | U-2   | 800   | 07/20<br>09/20         | 10/20 | 07/20<br>09/20         | 10/20 |   |
|                          | U-3   | 800   | 03/21<br>05/21         | 6/21  | 03/21<br>05/21         | 6/21  |   |
|                          | U-4   | 800   | 03/21<br>05/21         | 6/21  | 03/21<br>05/21         | 6/21  |   |
|                          | U-5   | 800   | 07/21<br>09/21         | 10/21 | 07/21<br>09/21         | 10/21 |   |
|                          | Original Estd. Cost /Latest Cost  | Rs. 29965.48 Crs.   |                        |       |                        |       |   |
|                          | Expenditure during 2015-16  | Rs. 486 Crs   |                        |       |                        |       |   |
|                          | Expenditure during 2016-17  | Rs.   |                        |       |                        |       |   |
|                          | Expenditure during 2017-18  | Rs.   |                        |       |                        |       |   |
|                          | <b>Total Expenditure</b>  | <b>Rs. 4252.43 Crs. ( 3/19)</b>   |                        |       |                        |       |   |
|                          | Approval date:  |   |                        |       |                        |       |   |
|                          | <b>Zero date:</b>   | 17.10.2017  |                        |       |                        |       |   |
|                          | Financial closure   | : M/s. REC (Rs.16070.5 Cr vide letter dated 11.8.15) and M/s PFC (Rs.4009 Cr vide letter dated 19.7.15)   |                        |       |                        |       |   |
|                          | <b>Main Plant Order</b>   | LOI has been issued to M/s BHEL on 17.10.2017. Three Purchase Orders were issued to M/s. BHEL on Single EPC basis vide dt: 29-03-2018 towards Supply, Erection & Commissioning and Civilworks |                        |       |                        |       |   |
|                          | <b>Type of fuel</b>   | Coal. MOU with M/s SCCL for supply of 14 million MTPA of G9 grade domestic coal.  |                        |       |                        |       |   |
|                          | PPA   | Yet to be finalised.  |                        |       |                        |       |   |
|                          | Power Evacuation system   | 400 KV Jangaon, Maheshwram, Choutuppal and Dindi  |                        |       |                        |       |   |
|                          | 1. Water Allocation: State Govt. has allotted for drawl of 208 CUSECS ( 6.60) TMC of water per year from Krishna river vide G.O.Ms.No. 13, dt-30.01.2015.<br>2. Power Purchase Agreement:- Govt. of Telangana issued Permission vide letter Dt: 21.08.2017 to avail entire 4000 MW Power from YTPS through TSDISCOMS Power purchase Agreement is yet to be entered.<br>3. Forest Clearance: Stage II clearance was accorded by Central Govt. MOEF &CC for diversion of forest land of 1892.35 Ha vide Lr. No. F.No. 8.07/2015-FC dtd 7.7.15. Subsequent Govt order was issued by Govt. of Telangan vide G.O.Ms. No.38, dtd 30.7.15<br>4. Environmental Clearance from MoE&F& CC: TOR granted vide Lr. No. J-L13012/18/2015-IA.I(T) GolMOEF &CC Dt: 16.02.2016.<br>5. Land : 5459.39 Gts<br>6. Coal Linkage/ Fuel SCCL/ 14MMTPA OF G9 grade coal<br>7. Power Evacuation : 400KV Janagaon, Maheswaram, Choutuppal and Dindi |   |                        |       |                        |       |   |
| <b>Critical issues</b>   |   |   |                        |       |                        |       |   |
| <b>Reasons for Delay</b> |   | Work held up due to order from National Green Tribunal (NGT) and non-availability of MoE&F clearance  |                        |       |                        |       |   |

SB-22.4.2019



## BROAD STATUS OF THERMAL POWER PROJECTS IN KARNATAKA

| Sl. No.  | Project Details  | Unit  | Capacity (MW)       | Commissioning Schedule |       |                        |     | Broad Status |
|--|--|---|---------------------|------------------------|-------|------------------------|-----|--------------|
|  |  |   |                     | Original               |       | Actual(A)/ As Expected |     |              |
|  |  |   |                     | Syn. Comm              | COD   | Syn. Comm              | COD |              |
| <b>State Sector</b>  |  |   |                     |                        |       |                        |     |              |
| 1.   | <b>Yelahanka Combined Cycle Power plant. Karnataka</b> | 1   | 370<br>GT<br><br>ST | 10/17<br><br>02/18     | 03/18 | 08/19<br><br>09/19     |     |              |
| Original Cost / Latest Cost  |  | :Rs 1571.18 Crs / Rs. 1571.18 Crs   |                     |                        |       |                        |     |              |
| Exp. during 2016-17  |  | : Rs 215.668 Crs  |                     |                        |       |                        |     |              |
| Exp. during 2017-18  |  | : Rs 932.1737 Crs   |                     |                        |       |                        |     |              |
| Exp. during 2018-19  |  | : Rs 114.38 Crs ( 2/19)   |                     |                        |       |                        |     |              |
| <b>Total Expenditure</b>   |  | <b>:Rs 1281.656,Crs (up to 3/19)</b>  |                     |                        |       |                        |     |              |
| Approval date:   |  |   |                     |                        |       |                        |     |              |
| Zero date:   |  | : 09.11.2015  |                     |                        |       |                        |     |              |
| Financial closure  |  | : 12.01.2017  |                     |                        |       |                        |     |              |
| Main Plant Order   |  | : M/s BHEL  |                     |                        |       |                        |     |              |
| HRSG Civil Work  |  | : M/s BHEL  |                     |                        |       |                        |     |              |
| Type of fuel   |  | : Gas   |                     |                        |       |                        |     |              |
| PPA  |  | : PPA agreement is under review.  |                     |                        |       |                        |     |              |
| Power Evacuation system  |  | : Power evacuation work is entrusted to M/s.KPTCL and work start up power charged on 25.01.2019   |                     |                        |       |                        |     |              |
| <ul style="list-style-type: none"> <li>Land: 102.33 acres of land possessed by KPCL.</li> <li>MOE&amp;F: NOC obtained on 01/09/2015.</li> <li>SPCBC: NOC obtained on 02/12/2015.</li> <li>Gas allocation/FSA: KPCL &amp; GAIL entered Gas Transport &amp; Supply agreement on 24.06.2017. M/s. GAIL have early Supply line and ready for Supplying the gas Generation.</li> <li>Civil Aviation: NOC obtained from Airports Authority of India on 05/05/2015.</li> <li>Water: 15 MLD from Jakkur tertiary treated water plant.</li> </ul> |  | <ul style="list-style-type: none"> <li>Main Plant: GT erection started on 3.04.2017. GT and Generator erected, GTG Aux. erection is in progress (90%). GT Aux. erection is in progress (50%). STG HIP module, Generator erected. LP turbine erection under progress. ST Aux. erection is in progress (45%). HRSG: Leak test completed, box up completed and insulation work in progress. Cranking expected in 3/19. Syn expected in 4/19.</li> <li>STG building structural erection 92% completed. GTG building 92% completed. BFP/GBC – EOT Crane girder and EOT erection works completed.</li> <li><b>BOPs:</b></li> <li>Chimney: 23/23 Chimney shells erected up to 58.5-meter height (Full Height).</li> <li>CT: Civil work is in progress. 95% completed.</li> <li>CW system: CW piping pre assembly works is in progress (joint welding) of 139/139 joints and CW pipe laying work is in progress(379/379mtr).</li> <li>PTP: Civil works in progress.</li> <li>DM Plant: Commissioning of Equipments is in progress.</li> <li>Switch Yard: Bay 1,2 &amp; 3 Tower / Equipment erection work completed. Bay 1 &amp; 2 equipment testing, commissioning &amp; civil works completed. Bay 3 equipment erected, testing, commissioning &amp; civil works is in progress.</li> <li>FPS: 1590/1700 mtrs fire hydrant pipes laid underground. 20 mtrs hydraulic test under progress. HVWS piping for seal oil pit completed, erection of deluge valve &amp; hydro test pending.</li> <li>Air Conditioning &amp; Ventilation: Duct fabrication work in progress. Supplies in progress.</li> <li>Control &amp; Instrumentation: Control panel erected and cable laying work in progress.</li> <li>LT Switch gears: panel erection work completed and cable laying work in progress.</li> <li>Cables(Power/Control): Cable tray erection works is in progress.</li> <li>Generator Transformers: GT/ST transformer received and erection completed and testing in progress..</li> <li>Unit Transformers: UATs erected and testing of UAT – completed. Testing of UAT-2 is in progress.</li> </ul> |                     |                        |       |                        |     |              |
| Critical issues  |  | ----  |                     |                        |       |                        |     |              |
| Reasons for Delay  |  | Delay in Civil Works  |                     |                        |       |                        |     |              |

SB-15.04.2019

## BROAD STATUS OF THERMAL POWER PROJECTS IN TAMIL NADU

| Sl. No.                  | Project Details   | Unit No.  | Capacity (MW) | Commissioning Schedule  |       |                         |       | Broad Status  |
|--------------------------|---|---|---------------|-------------------------|-------|-------------------------|-------|---|
|                          |   |   |               | Original                |       | Actual(A)/ As Expected  |       |   |
|                          |   |   |               | Syn. Comm               | COD   | Syn. Comm               | COD   |   |
| <b>State Sector</b>      |   |   |               |                         |       |                         |       |   |
| 1                        | <b>Ennore SEZ SCTPP<br/>TANGEDCO (Distt. Thiruvallur)<br/>Tamil Nadu</b>  | 1   | 660           | 01/18                   | 03/18 | 06/21                   | 08/21 | <p><b>Boiler</b> (M/s BHEL): Design &amp; Engineering work, site leveling and site office work are in progress.</p> <p>Tripartite agreement between TANGEDCO, PFC ( Lender) &amp; M/s BHEL ( EPC contractor) signed on 21.11.16 and Loan agreement between PFC and TANGEDCO signed on 18.01.17.</p> <ul style="list-style-type: none"> <li>Construction water supply available at site.</li> <li>Compaction Piling work for Chimney, Boiler Unit-I,II, T.G.Unit I,II, CT-I, II etc. completed.</li> <li>Material supply in progress</li> </ul> <p><b>Unit-I</b><br/><b>Boiler:</b> Boiler erection started on 15.09.17. HT expected by 11/19. 12879 MT out of 31000 MT received. Ceiling Girder erection completed on 30.11.2018. 8600 / 43000 Joint Welding completed.</p> <p><b>TG Civil</b> works started in 17.05.2017.</p> <p><b>ESP:</b> 5114 out of 9400 MT completed. A – Pass / B-Pass / C-Pass collecting electrode loading completed.</p> <p><b>Unit-II</b><br/><b>Boiler:</b> Boiler erection started on 08.06.18. HT expected by 01/20. 7630 MT out of 31000 MT received. Ceiling Girder preassemble / erection under progress. Steam water separator Vessels erection completed.</p> <p><b>TG Civil</b> works started in 17.05.2017.</p> <p><b>ESP:</b> 3367 out of 9400 MT completed. A, B and C pass sidewall erection completed. D-apss sidewall erection under progress, Collecting electrode loading under progress in C pass.</p> <p><b>BOP:</b><br/><b>Chimney:</b> Shell construction – 225.650 / 269 m completed.</p> <p><b>AHP / CHP :</b> Around 1100 MT cutting completed and fabrication under progress.</p> |
|                          |   | 2   | 660           | 01/18<br>03/18<br>03/18 | 05/18 | 07/21<br>09/21<br>10/21 | 11/21 |   |
|                          | Original Cost/ Latest Cost  | : Rs. 9800 Crores (Includes cost of FGD, ECHS and IDC)  |               |                         |       |                         |       |   |
|                          | <b>Total Expenditure</b> (up to 1/19)   | <b>: Rs 3102.96 Cr.</b>   |               |                         |       |                         |       |   |
|                          | Approval date:  | : 12/12/2005  |               |                         |       |                         |       |   |
|                          | <b>Zero date:</b>   | : 27/09/2014  |               |                         |       |                         |       |   |
|                          | Financial closure   | Six months from the date of Award.  |               |                         |       |                         |       |   |
|                          | <b>Main Plant Order</b>   | : Order placed on M/s. BHEL (EPC- Rs. 7688 Crores) on 27/09/14.   |               |                         |       |                         |       |   |
|                          | <b>BOP Package</b>  |   |               |                         |       |                         |       |   |
|                          | <b>Type of fuel</b>   | : Long term Coal Linkage application submitted on 26.02.2010 to Ministry of Coal/GoI/New Delhi for supply of coal. Coal allocation is yet to be received. However, MoU has already been signed between MMTC & TANGEDCO on 25.06.2012 for the supply of 100% imported coal.  |               |                         |       |                         |       |   |
|                          | PPA   | N.A. State sector project. Entire power will be utilised by Tamil nadu  |               |                         |       |                         |       |   |
|                          | Power Evacuation system   | Power will be evacuated from the proposed thermal power station through double circuit 400 KV transmission lines i.e, through 2 Nos. Of 400 KV line to 765 KV Pooling Station and 2 Nos. 400 KKV lines to ETPS Expansion STPP.  |               |                         |       |                         |       |   |
|                          | <ul style="list-style-type: none"> <li>Land: Aquisition of land does not arise since own land of TANGEDCO ( Out of 1100 acres available at Ash dyke of NCTPS, only 500 acres utilised for project development).</li> <li>MOE&amp;F: NOC obtained on 07/01/2014.</li> <li>SPCBC: NOC obtained on 11/03/2014.</li> <li>Civil Aviation: NOC obtained from Airports Authority of India</li> <li>Due to Court case/ High Court order work held up at site from 10/15 onwards. M/s TANGEDCO filed Special Leave Petition (SLP) in the Supreme Court of India, hearing/arguments completed on 08/02/16. However, judgment in favour of TANGEDCO came on 18/10/16 only and work at site commenced with effect from 02/11/16.</li> </ul> |   |               |                         |       |                         |       |   |
| <b>Critical issues</b>   |   |   |               |                         |       |                         |       |   |
| <b>Reasons for Delay</b> |   | <ul style="list-style-type: none"> <li>408 days and 185 days (on account of delay in handling over of land and remobilization)</li> <li>Comapcting Piling : At this site is located in Ash Pond, around 120000 compaction piling is being done in addition to the conventional design of power plant.</li> <li>ECHP: Coal linkage is from NCTPS Stage II which is around 6 km away from project site. And around 4000 piles to be done in the areas including PWD land, Kamaraj Port land, Buckingham Canal, Railway line overhead crossing and pilling in water bodies with mangroves and considerable time has taken in finalization of touting.</li> <li>NDCT : Project being in the vicinity of seashore and being built on ashpond needed special attention during design vis-à-vis water reatingn structure. As such has taken connsiderable time and is finalized recently.</li> </ul> |               |                         |       |                         |       |   |

SB-17.04.2019

| Sl. No.  | Project Details  | Unit No.  | Capacity (MW)                        | Commissioning Schedule  |       |                        |       | Broad Status  |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
|--|--|---|--------------------------------------|-------------------------|-------|------------------------|-------|---|--------|----------|-------------------|--------------------------------------|-------------------------|----|------------|-----|-----|---|----|---------------|-----|-----|---|----|-------------|-----|-----|---|----|----------------|-----|-----|----|----|----------------|-----|-----|----|---|-----------------|-----|-----|----|---|--------------------|----|----|----|---|---------------------|----|----|---|---|----------------|-----|-----|----|----|-----------------|-----|-----|-----|
|  |  |   |                                      | Original                |       | Actual(A)/ As Expected |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
|  |  |   |                                      | Syn. Comm               | COD   | Syn. Comm              | COD   |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| <b>State Sector</b>  |  |   |                                      |                         |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| 2  | <b>Uppur SCTPP TANGEDCO at Distt. Ramnad, Tamil Nadu</b> | 1   | 800                                  | 02/19                   | 04/19 | 02/20                  | 09/20 | <ul style="list-style-type: none"> <li>• BTG &amp; allied civil work related to BTG as one EPC package, order placed on BHEL on 27.02.16.</li> <li>• Boiler Civil Works started on 20.05.16. Boiler erection started in 01/17.</li> <li>• BOP Packages (CHP/AHP/CT/Chimney/PT Plant/DM Plant/CW system/Switchyard/FPS/ACV &amp; FO system) awarded to M/s. Reliance Infra Structure Ltd, Mumbai on 21.2.2018.</li> </ul> <p><b>BTG package by M/s BHEL</b><br/>Geo Technical Investigation work completed on 05.12.2017.<br/>Casting of test piling work commenced on 16.01.2017 and completed on 19.07.2018.</p> <ul style="list-style-type: none"> <li>• Design, Engineering, documents approval in progress.</li> <li>• Unit-I Structural fabrication for about 3125 tonnes in progress.</li> <li>• BTG Materials – 92839 tonnes ; Structural and reinforcement materials – 26762 tonnes received at site.</li> <li>• Storage yard Developed 1,80,000 sq.m. Closed Store Shed 4 Nos. each 900 Sq.m</li> </ul> <table border="1"> <thead> <tr> <th>Sl. No</th> <th>Location</th> <th>Total No of piles</th> <th>No. of piles completed as on 31.1.19</th> <th>Balance to be completed</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Unit-I ESP</td> <td>665</td> <td>665</td> <td>-</td> </tr> <tr> <td>2.</td> <td>Unit-I Boiler</td> <td>778</td> <td>770</td> <td>8</td> </tr> <tr> <td>3.</td> <td>Unit-II ESP</td> <td>665</td> <td>665</td> <td>-</td> </tr> <tr> <td>4.</td> <td>Unit-II Boiler</td> <td>778</td> <td>692</td> <td>86</td> </tr> <tr> <td>5.</td> <td>Unit-I ID Duct</td> <td>382</td> <td>303</td> <td>79</td> </tr> <tr> <td>6</td> <td>Unit-II ID Duct</td> <td>382</td> <td>313</td> <td>69</td> </tr> <tr> <td>7</td> <td>ESP I Control Room</td> <td>96</td> <td>60</td> <td>36</td> </tr> <tr> <td>8</td> <td>ESP II Control Room</td> <td>96</td> <td>91</td> <td>5</td> </tr> <tr> <td>9</td> <td>Power House -I</td> <td>411</td> <td>393</td> <td>18</td> </tr> <tr> <td>10</td> <td>Power House -II</td> <td>387</td> <td>269</td> <td>118</td> </tr> </tbody> </table> <p><b>Balance of Plant by M/s Reliance Infrastructure Ltd.</b>,<br/>Topographical survey work commenced on 10.09.2018 and in progress.<br/>Soil investigation bore holes 30 Nos. completed.<br/>Balance 27 Nos. in litigation land.<br/>HT application for availing 1000 kVA construction supply submitted by RIL and payment made on 13.12.2018. Sanction awaited from HQrs.<br/><b>Land Litigation – Judgement awaited from Hon'ble High Court, Chennai.</b><br/><b>Sea water Intake &amp; Outfall system by M/s. L &amp; T</b><br/>Pre-cast works and rolling of MS pipes in progress.<br/>Enabling works – gantry rail fixing works under progress.<br/>Forest clearance for 0.57 Hectares awaited from MoEF regional office.</p> | Sl. No | Location | Total No of piles | No. of piles completed as on 31.1.19 | Balance to be completed | 1. | Unit-I ESP | 665 | 665 | - | 2. | Unit-I Boiler | 778 | 770 | 8 | 3. | Unit-II ESP | 665 | 665 | - | 4. | Unit-II Boiler | 778 | 692 | 86 | 5. | Unit-I ID Duct | 382 | 303 | 79 | 6 | Unit-II ID Duct | 382 | 313 | 69 | 7 | ESP I Control Room | 96 | 60 | 36 | 8 | ESP II Control Room | 96 | 91 | 5 | 9 | Power House -I | 411 | 393 | 18 | 10 | Power House -II | 387 | 269 | 118 |
| Sl. No   | Location   | Total No of piles   | No. of piles completed as on 31.1.19 | Balance to be completed |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| 1.   | Unit-I ESP   | 665   | 665                                  | -                       |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| 2.   | Unit-I Boiler  | 778   | 770                                  | 8                       |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| 3.   | Unit-II ESP  | 665   | 665                                  | -                       |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| 4.   | Unit-II Boiler   | 778   | 692                                  | 86                      |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| 5.   | Unit-I ID Duct   | 382   | 303                                  | 79                      |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| 6  | Unit-II ID Duct  | 382   | 313                                  | 69                      |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| 7  | ESP I Control Room                                       | 96  | 60                                   | 36                      |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| 8  | ESP II Control Room                                      | 96  | 91                                   | 5                       |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| 9  | Power House -I   | 411   | 393                                  | 18                      |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| 10   | Power House -II  | 387   | 269                                  | 118                     |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| Original Cost /Latest Cost   |  | : Rs. 12778 Crs. (BTG cost –Rs. 5580 Crs.)  |                                      |                         |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| Expenditure during 2016-17   |  | :Rs. 1674 Lakhs   |                                      |                         |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| Expenditure during 2017-18   |  | :Rs. 20971 Lakhs  |                                      |                         |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| Expenditure during 2018-19   |  | :Rs. 161261 Lakhs   |                                      |                         |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| <b>Total Expenditure</b> (up to 2/19)  |  | :Rs. 183906 Lakhs (up to 3/19)  |                                      |                         |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| Approval date:   |  |   |                                      |                         |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| <b>Zero date:</b>  |  | 20.05.2016  |                                      |                         |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| Financial closure  |  | Financial tie-up is proposed with M/s PFC.  |                                      |                         |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| <b>Main Plant Order</b>  |  | : <b>Order placed on M/s. BHEL (BTG- Rs. 5580Crores) on 27/02/16.</b>                       |                                      |                         |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| <b>BOP Package</b>   |  | : Awarded to M/s. Reliance Infra Structure Ltd, Mumbai on 21.2.2018.                        |                                      |                         |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| <b>Type of fuel</b>  |  | : <b>COAL MoU entered with MMTC for supply of imported coal of 5.02 MTPA on 25.05.2015.</b> |                                      |                         |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| PPA  |  | State owned project.  |                                      |                         |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| Power Evacuation system  |  | 765 KVA   |                                      |                         |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| <ul style="list-style-type: none"> <li>• Land: Out of 995.16 acres of land, Government Poromboke Land for 227.36 acres and private patta lands of 767.80 acres. Around 192.36 acres of Govt. land in BTG area has been handed over by TANGEDCO to M/s BHEL on 21.07.2016 for project preparatory works. The District Collector/ Ramnad has accorded enter upon permission to the patta land not covered under litigation for an extent of 407.74 acres to TANGEDCO on 03.08.2017. Out of this, around 63 acres of patta land in BTG area has been handed over by TANGEDCO to M/s BHEL on 03.08.2017. 552 Acres of land handed over to M/s RIL, BOP contractor on 17.03.18. Balance land pending for enter upon due to litigation is around 354 acres.</li> <li>• MOE&amp;F: Ministry of Environment and Forest has accorded clearance for the above Project on 18.05.2016.</li> <li>• SPCBC: CRZ committee of MOEF recommended the Project on 28.1.16 and MOM published in web site on 8.2.16.</li> <li>• Civil Aviation: NOC obtained from Airports Authority of India on 22.11.2012 valid up to 21.11.2019.</li> <li>• Water: Tamil Nadu Maritime Board has issued NOC for construction of Jetty for drawal and discharge of cooling water, vide 27.4.2015.</li> </ul> |  |   |                                      |                         |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |
| <b>Critical issues</b>   |  |   |                                      |                         |       |                        |       |   |        |          |                   |                                      |                         |    |            |     |     |   |    |               |     |     |   |    |             |     |     |   |    |                |     |     |    |    |                |     |     |    |   |                 |     |     |    |   |                    |    |    |    |   |                     |    |    |   |   |                |     |     |    |    |                 |     |     |     |

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| Sl. No.  | Project Details  | Unit No.  | Capacity (MW) | Commissioning Schedule |       |                        |       | Broad Status  |
|--|--|---|---------------|------------------------|-------|------------------------|-------|---|
|  |  |   |               | Original               |       | Actual(A)/ As Expected |       |   |
|  |  |   |               | Syn. Comm              | COD   | Syn. Comm              | COD   |   |
| <b>State Sector</b>  |  |   |               |                        |       |                        |       |   |
| 3  | <b>North Chennai TPP St-III by TANGEDCO (Distt. Thiruvallur), Tamil Nadu</b> | 1   | 800           | 02/19<br>03/19         | 04/19 | 11/19<br>12/19         | 12/19 | <ul style="list-style-type: none"> <li>• <b>Boiler:</b> Boiler erection works started on 30.08.2017 All Ceiling girders and Silencer were erected. All Wall beams erected. Air preheater Structural erection work is in progress. So far 17060 MT erected. Pressure part erection started on 26.10.2018 and so far 2660 MT,(23.5) erected. Bunker(LHS)&amp;(RHS)- 4th tier erection completed. Bunker shell fabrication is in progress. Boiler goods cum passenger lift erection upto 5th tier erected. <b>ESP:</b> erection works commenced on 15.07.2017. So far 9270 MT erected (80.20% ). ESP outlet flue gas duct guillotine gates erected.. HT expected in 07/19.</li> <li><b>TG:</b> Erection start at 25.02.2019. TG civil work completed. Deck cast completed on 27.08.2018. Condenser A &amp; B - Hot well erection and side wall joint welding is in progress. Condenser B -front side tube sheet erected in position. Turbine component pre-assembly/checking is in progress. Bearing Pedestal centering &amp; leveling under progress. TG hall EOT cranes (2Nos.) load test completed on 19.12.2018. Cranes are in operation. Generator stator reached site on 25.07.2018. Generator anchor plate matching under progress. CW pipe at condenser end- Return lines erected and encasing completed..</li> <li><b>BOPs</b></li> <li>• BOP package was awarded to M/s.BGRESL, Chennai under EPC basis on 28.10.2016 at a total value of Rs.2600.02 Crs.</li> <li>• CHP: External Towerss (5 Nos) – All civil works completed. Structural erection is in progress for ET 3 to 5. External Conveyor-1C/1D,2A/2B,4A/4B, 5A/5B,6A/6B-foundation work under progress. Column works upto plinth beam 10/10nos completed. Slab shuttering work in progress. Coal setting basin: Raft completed on 8.2.2019 and wall 43mtrs 1st lift completed. CHP- Stock yard paving &amp; Drain work in progress. ICHS-Internal Tower-9Nos.: All civil work completed. Internal Conveyor 1A/1B, 2A/2B,3A/B- Civil work completed. Mechanical erection work under progress. For other ICHS conveyors-Civil works are in progress.</li> <li>• AHP: Fly ash silo-1&amp;2: Shell construction completed upto 38.55 m level. Bottom Ash silo : Slab@14.8 m level completed. Dry Bottom Ash system : Civil foundation work completed..Pedestal final lift works under progress.</li> <li>• Cooling Tower: NDCT -Pond wall -100% completed. NDCT Shell Concrete work and pray cast beam erection is in progress (64 lifts completed)</li> <li>• Chimney: Chimney shell 269 Mtr completed. 100% completed as on 7.7.2018. Platform &amp; flue can fabrication erection work under progress.</li> <li>• Switch Yard: 765KV GT bay Tower pedestal completed. 765KV GIS side wall brick work under progress. 230KV brick work completed &amp; painting under progress. GIS rooms-Column cast work under progress.</li> <li>• Considering the revised emission norms, In principle approval was given to M/s.BHEL for making in boiler modification to achieve the NOx reduction from 510 mg/Nm3 to 300 mg/ Nm3 on 18.08.2016 and commercial acceptance was given on 31.03.2017.</li> <li>•</li> <li>• <b>FGD is not included in the scope of both BTG and BOP package. Opinion of consultant sought for regarding the type of technology to be adopted for FGD and allied issues like water availability, disposal of gypsum etc.</b></li> </ul> |
| Original Estd. Cost  |  | : Rs. 637600 Lakhs  |               |                        |       |                        |       |   |
| Expenditure during 2009-10   |  | : Rs 2.206 Lakhs  |               |                        |       |                        |       |   |
| Expenditure during 2010-11   |  | : Nil.  |               |                        |       |                        |       |   |
| Expenditure during 2011-12   |  | : Nil.  |               |                        |       |                        |       |   |
| Expenditure during 2012-13   |  | : Rs 20.59 Lakhs  |               |                        |       |                        |       |   |
| Expenditure during 2013-14   |  | : Rs 39.56 Lakhs  |               |                        |       |                        |       |   |
| Expenditure during 2014-15   |  | : Rs 12.94 Lakhs  |               |                        |       |                        |       |   |
| Expenditure during 2015-16   |  | : Rs 25.30 Lakhs  |               |                        |       |                        |       |   |
| Expenditure during 2016-17   |  | : Rs 19808.75 Lakhs   |               |                        |       |                        |       |   |
| Expenditure during 2017-18   |  | : Rs 92975.44 Lakhs   |               |                        |       |                        |       |   |
| Expenditure during 2018-19   |  | : Rs 224352.00 Lakhs ( 3/19)  |               |                        |       |                        |       |   |
| <b>Total Expenditure (up to 3/19)</b>  |  | <b>: Rs 337236.00 Lakhs</b>   |               |                        |       |                        |       |   |
| <b>Zero date:</b>  |  | <b>: 29/01/2016</b>   |               |                        |       |                        |       |   |
| <b>Main Plant Order</b>  |  | <b>: 29/01/16 (EPC) on M/s. BHEL- Rs.2759 Crores. Boiler: Alstom, TG &amp; generator: Siemens &amp; BHEL</b>  |               |                        |       |                        |       |   |
| <b>BOP Package</b>   |  | <b>28.10.2016 (EPC) on M/s BGRESL- Rs.2600 Crores.</b>  |               |                        |       |                        |       |   |
| <b>Type of fuel</b>  |  | <b>: COAL</b>   |               |                        |       |                        |       |   |
| PPA  |  | :Entire power is to be utilized by TANGEDCO.  |               |                        |       |                        |       |   |
| Power Evacuation system  |  | : The power generated from this plant is proposed to be evacuated through a 765 KV DC feeder to the proposed North Chennai Pooling Station and 765KV DC link line feeder to the proposed Ennore Replacement Power Plant which will be established by TANTRANSCO |               |                        |       |                        |       |   |
| <ul style="list-style-type: none"> <li>• <b>MOE&amp;F</b> Clearances obtained on <b>20/01/2016</b>.</li> <li>• <b>SPCB</b> clearance obtained on 13.04.2017</li> <li>• <b>Civil Aviation:</b> clearance obtained on <b>15/05/2013</b>, valid for 7 years</li> <li>• Water allocation: Water requirement for the project will be met from existing fore bay of NCTPS stage-II. The make-up water for cooling tower, boiler make-up &amp; other sweet water requirements are to be met from proposed desalination plant for this project. Construction water from M/s.CMWSSB available to the contractor from 07.01.2017</li> <li>• FSA: MOU has been entered with M/s. MMTC for supply of imported Coal of 2.51 MTPA on 25.05.2015. Action is also being initiated for getting indigenous coal also.</li> </ul> |  |   |               |                        |       |                        |       |   |
| <b>Critical issues</b>   |  |   |               |                        |       |                        |       |   |
| <b>Reasons for Delay</b>   |  |   |               |                        |       |                        |       |   |

SB-15.04.2019

| Sl. No.  | Project Details   | Unit No.   | Capacity (MW) | Commissioning Schedule |       |                        |     | Broad Status   |
|--|---|--|---------------|------------------------|-------|------------------------|-----|--|
|  |   |  |               | Original               |       | Actual(A)/ As Expected |     |  |
|  |   |  |               | Syn. Comm              | COD   | Syn. Comm              | COD |  |
| <b>State Sector</b>  |   |  |               |                        |       |                        |     |  |
| 4  | <b>Ennore SCTPP<br/>TANGEDCO (Distt. Thiruvallur),<br/>Tamil Nadu</b> | 1  | <b>660</b>    | 10/17<br>01/18         | 01/18 | 05/19<br>06/19         | -   | <ul style="list-style-type: none"> <li>• <b>Boiler</b> (M/s Lanco): Civil work commenced on 16/02/15. Boiler erection started on 01/02/16</li> <li>• <b>TG &amp; Condenser</b>: Civil work commenced on 18/06/15. Condenser erection started on 20/07/16 &amp; TG erection started on 11/08/16.</li> </ul> |
| Original /Latest Cost (03/2016)  |   | :Rs 495600 / 542138 Lakh   |               |                        |       |                        |     |  |
| Expenditure during 2014-15   |   | :Rs. 23970 Lakh  |               |                        |       |                        |     |  |
| Expenditure during 2015-16   |   | :Rs. 288.91 Lakh   |               |                        |       |                        |     |  |
| Expenditure during 2016-17   |   | :Rs. 8656.09 Lakh  |               |                        |       |                        |     |  |
| Expenditure during 2017-18   |   | : Rs.46225.0 Lakh  |               |                        |       |                        |     |  |
| <b>Total Expenditure</b> (up to 12/2017)   |   | :Rs. 79140 Lakh  |               |                        |       |                        |     |  |
| Approval date:   |   |  |               |                        |       |                        |     |  |
| <b>Zero date:</b>  |   | : <b>14/07/2014</b>  |               |                        |       |                        |     |  |
| Financial closure  |   |  |               |                        |       |                        |     |  |
| <b>Main Plant Order</b>  |   | : <b>30/05/2014 (EPC) on M/s LANCO and lanco in turn awarded the BTG to Dong Fang electric corporation, China on 18/02/15. EPC cost Rs.3921.55crs. (revised)</b>   |               |                        |       |                        |     |  |
| <b>BOP Package</b>   |   |  |               |                        |       |                        |     |  |
| <b>Type of fuel</b>  |   | : <b>COAL (70:30 Imported: Domestic Coal)</b>  |               |                        |       |                        |     |  |
| PPA  |   | PPA does not arise as the entire power is to be utilized by TANGEDCO.  |               |                        |       |                        |     |  |
| Power Evacuation system  |   | Regarding Power Evacuation system is under TANRANSCO scope.  |               |                        |       |                        |     |  |
| <ul style="list-style-type: none"> <li>• Letter of Acceptance for Main Plant Order (EPC) issued to M/s LANCO on <b>05/14 (27/02/14 as per Ir dt 22/12/16)</b>. LANCO in turn placed order on Dong Fang Electric Corporation., China on 18/02/15.</li> <li>• <b>MOE&amp;F</b> Clearances obtained on <b>18/09/2014</b>.</li> <li>• <b>SPCB</b> clearance obtained on 18/02/13.</li> <li>• <b>Civil Aviation:</b> clearance obtained on 16/05/2008</li> <li>• Water allocation: Sea water is available near the project. Cooling water consumption to be drawn from Sea is 1,33,896 m3/day.</li> </ul> <p><b>Corporate Insolvency &amp; Bankruptcy Process (CIRP) initiated against LITL(the EPC Contractor) by IDBI Bank from 07.08.2017 and interim resolution professional appointed on 10.08.2017 and hence the project has been stalled rom 07.08.2017. The CIRP process extended up to 04.05.2018.</b></p> |   |  |               |                        |       |                        |     |  |
| <b>Critical issues</b>   |   | <b>Corporate Insolvency &amp; Bankruptcy Process (CIRP) initiated against LITL(the EPC Contractor) by IDBI Bank from 07.08.2017 and interim resolution professional appointed on 10.08.2017 and hence the project has been stalled rom 07.08.2017.</b> |               |                        |       |                        |     |  |
| <b>Reasons for Delay</b>   |   |  |               |                        |       |                        |     |  |

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| Sl. No.   | Project Details   | Unit No.  | Capacity (MW) | Commissioning Schedule |       |                        |       | Broad Status   |
|---|---|---|---------------|------------------------|-------|------------------------|-------|--|
|   |   |   |               | Original               |       | Actual(A)/ As Expected |       |  |
|   |   |   |               | Syn. Comm              | COD   | Syn. Comm              | COD   |  |
| <b>Private Sector</b>   |   |   |               |                        |       |                        |       |  |
| 5   | <b>Tuticorin TPP St-IV / M/s SEPC Power Pvt. Ltd. (Distt. Tuticorin), in Tamil Nadu</b> | 1   | 525           | 07/18<br>09/18         | 10/18 | 11/19<br>12/19         | 12/19 | <ul style="list-style-type: none"> <li>• <b>Boiler:</b> EPC contractor is M/s MEIL, in turn they awarded the BTG package to M/s BHEL on 30/10/15 and main plant civil work to M/s L&amp;T Geo Structures Ltd. Boiler civil work started on 15/12/15 &amp; erection started on 15/12/16. Boiler Drum lifted on 13.8.17. Hydro Test (drainable) done on 28.12.18. Boiler hydro Test (non drainable) completed on 31.01.2019.</li> <li>• <b>TG</b> civil work started on 01/06/016. TG erection started on 8.9.17</li> </ul> <p><b>BOPs:</b></p> <ul style="list-style-type: none"> <li>• <b>CHP, AHP, CT, Chimney, PT and DM Plant, CW system, Fuel oil system</b> and all other systems related to power evacuation, switchyard including C&amp;I, Fire protection system, air-conditioning &amp; ventilation etc. are all awarded to M/s MEIL on 18/01/14. It is all the part of EPC package.</li> <li>• <b>CHP:</b> Awarded to M/s Lepton for Engineering consultant &amp; Monitoring agency for ICHS. Civil foundation work is nearing completion. Mechanical structural fabrication &amp; erection under progress.</li> <li>• <b>AHP:</b> Awarded to M/s Macwalber Beckay Civil foundation work is in progress. Mechanical structural fabrication erection under progress.</li> <li>• <b>Cooling Tower:</b> M/s MEIL awarded the IDCT works to M/s Paharpur, civil works are nearing completion.</li> <li>• <b>Chimney:</b> M/s MEIL awarded the chimney works to M/s Paharpur. Foundation works completed. Shell concreting completed up to 275 mtrs. Inside brick wall work under progress.</li> <li>• <b>PT Plant:</b> Civil works completed, Equipments erection under progress.</li> <li>• <b>DM Plant:</b> Civil works are nearing completion. Equipments erection under progress.</li> <li>• <b>Fire Protection System:</b> Work under progress.</li> <li>• <b>Fuel Oil System :</b> Civil works underway.</li> <li>• <b>CW System:</b> CW packages awarded to M/s Flowserve. Civil works are nearing completion.</li> <li>• <b>Switchyard:</b> Civil work are nearing completion.</li> <li>• <b>LT / HT / Cables (Power) / Control :</b> Civil works of LT / HT are nearing completion. Ordering under progress.</li> </ul> |
| Original /Latest Cost   |   | : Rs. 351400 Lakh / Rs. 351400 Lakh   |               |                        |       |                        |       |  |
| Expenditure up to 2015-16   |   | :: Rs.48079 Lakh  |               |                        |       |                        |       |  |
| Expenditure during 2016-17  |   | : Rs.24870 Lakh   |               |                        |       |                        |       |  |
| Expenditure during 2017-18  |   | : Rs.82294 Lakh   |               |                        |       |                        |       |  |
| Expenditure during 2018-19  |   | : Rs.50891 Lakh (up to 03/ 2019)  |               |                        |       |                        |       |  |
| <b>Total Expenditure (up to 2/ 2019)</b>  |   | <b>:Rs. 206134 Lakhs</b>  |               |                        |       |                        |       |  |
| <b>Zero date</b>  |   | : 30/10/2015  |               |                        |       |                        |       |  |
| <b>Main Plant Order</b>   |   | : 18/01/2014 (EPC) on M/s MEIL & in turn BHEL for BTG.  |               |                        |       |                        |       |  |
| <b>Type of fuel</b>   |   | : COAL Imported coal to be tied up in 6 months.   |               |                        |       |                        |       |  |
| PPA   |   | : PPA signed with TANGEDCO and approved by TNERC  |               |                        |       |                        |       |  |
| Power Evacuation system   |   | <ul style="list-style-type: none"> <li>• For power evacuation 2x400 Kv line has been approved by TANGEDCO and is to be implemented by TANGEDCO/ TANTRANSCO.</li> </ul>  |               |                        |       |                        |       |  |
| <ul style="list-style-type: none"> <li>• Main Plant Package Awarded on EPC basis to M/s MEGHA Engg. and Infrastructures Ltd. ("MEIL") on 18/01/14. M/s MEIL in turn awarded the BTG package to M/s BHEL on 30/10/2015.</li> <li>• <b>CPCB &amp; MOE&amp;F</b> Clearances obtained and valid up to 10/11/18 and 03/11/17 respectively. MOE &amp; F clearance extended up to 3.11.2020</li> <li>• <b>Civil Aviation:</b> Clearances obtained and valid up to 17.12.2021</li> <li>• <b>Land Possession:</b> Land Lease Agreement &amp; Concession Agreement signed with VOC port Trust.</li> <li>• <b>Water Allocation:</b> Sea Water Desalination Plant is envisaged for meeting water requirement of the power plant. Permission to draw Sea Water from Sheltered Basin obtained from Port.</li> </ul> |   |   |               |                        |       |                        |       |  |
| <b>Critical issues</b>  |   | <ol style="list-style-type: none"> <li>1) Inter-connection &amp; Transmission facilities are by TANGEDCO which is yet to be awarded. The COD is linked to the availability of Start up Power.</li> <li>(2) Approval/NOC from Department of Forests, GoTN for pipeline and conveyor crossing.</li> <li>(3) Fixation of revised date of availability of start up Power and accordingly the SCOD at TNERC.</li> <li>(4) Approval of Coal Supply, Transport and Handling Agreements by TANGEDCO and TNERC.</li> </ol> |               |                        |       |                        |       |  |
| <b>Reasons for Delay</b>  |   |   |               |                        |       |                        |       |  |

SB-18.04.2019

| Sl. No.   | Project Details  | Unit No.  | Capacity (MW) | Commissioning Schedule |       |                        |       | Broad Status   |
|---|--|---|---------------|------------------------|-------|------------------------|-------|--|
|   |  |   |               | Original               |       | Actual(A)/ As Expected |       |  |
|   |  |   |               | Syn. Comm              | COD   | Syn. Comm              | COD   |  |
| <b>Private Sector</b>   |  |   |               |                        |       |                        |       |  |
| 6   | <b>Tuticorin TPP in Tamil Nadu (Ind. Barath Power Limited)</b> | 1   | 660           | 03/12<br>05/12         | 05/12 | 06/19<br>19-20         | 19-20 | <ul style="list-style-type: none"> <li>• <b>Boiler:</b> All civil work completed &amp; Boiler erection started.</li> <li>• <b>ESP:</b> All civil foundation work completed. Erection started.</li> <li>• <b>TG:</b> All civil foundation work completed. Condenser &amp; TG erection works yet to start.</li> </ul> <p><b>BOPs</b></p> <ul style="list-style-type: none"> <li>• <b>Chimney:</b> Awarded to simplex Infrastructure. Foundation raft concreting is in progress.</li> <li>• <b>CHP:</b> Order placed on Sokeo Power.</li> <li>• <b>AHP:</b> Order placed on Sokeo Power. Drawings under finalization.</li> <li>• <b>ACC:</b> Order placed on HAC China. Drawings under finalization. ACC foundation works in progress.</li> <li>• M/s Consolidated Construction Consortium Limited have been awarded main plant civil &amp; structural work on 14/12/10. Civil work started</li> <li>• <b>WTP:</b> Order placed on Sokeo Power. Engineering works in progress.</li> <li>• <b>DM Plant:</b> Technical discussions are in progress.</li> <li>• <b>CW system:</b> Order placed on Sokeo Power. Technical specification verification is in progress.</li> <li>• <b>FO system:</b> Engineering is under progress.</li> <li>• <b>FPS:</b> Foundation works completed. Erection works to start from 01/16.</li> <li>• <b>Switchyard:</b> Engineering in progress.</li> </ul> |
| Original /Latest Cost   |  | : Rs.359500 Lakh / Rs.359500 Lakh   |               |                        |       |                        |       |  |
| Expenditure during 2010-11  |  | : Rs. 17000 Lakh  |               |                        |       |                        |       |  |
| Expenditure during 2011-12  |  | : Rs. 2000 Lakh   |               |                        |       |                        |       |  |
| Expenditure during 2012-13  |  | : Rs. 31000 Lakh  |               |                        |       |                        |       |  |
| Expenditure during 2013-14  |  | : Rs. 9000 Lakh   |               |                        |       |                        |       |  |
| Expenditure during 2014-15  |  | : Rs. 91000 Lakh  |               |                        |       |                        |       |  |
| Expenditure during 2015-16  |  | : Rs. 500 Lakh  |               |                        |       |                        |       |  |
| <b>Total Expenditure(Up to 05/2015)</b>   |  | : Rs. <b>2000.00 Crores</b>   |               |                        |       |                        |       |  |
| Approval date:  |  | : 10/09/2007  |               |                        |       |                        |       |  |
| <b>Zero date:</b>   |  | : 25/03/2010 / April 2012   |               |                        |       |                        |       |  |
| Financial closure   |  | : Achieved on 24/02/2011  |               |                        |       |                        |       |  |
| <b>Main Plant Order</b>   |  | : 28/05/2010 (BTG) on M/s Shandong Runch Power Plant Engg and Technology Limited. |               |                        |       |                        |       |  |
| <b>Type of fuel</b>   |  | : <b>COAL</b>   |               |                        |       |                        |       |  |
| PPA   |  | : Participating in the Bids   |               |                        |       |                        |       |  |
| Power Evacuation system   |  | : BPTA signed with PGCIL on 24/02/2010. LTOA signed with PGCIL on 12/06/2013.     |               |                        |       |                        |       |  |
| <ul style="list-style-type: none"> <li>• <b>Land:</b> Total land of 880 acre acquired</li> <li>• <b>Water:</b> Agreement between IBPML and South Ganga was signed on 03/04/10.</li> <li>• <b>MOEF:</b> clearance obtained on 12/07/2010.</li> <li>• <b>SPCB:</b> Consent obtained on 17/10/2013.</li> <li>• <b>Civil Aviation:</b> clearance obtained on 24/08/10</li> <li>• <b>PPA:</b> To be executed through case –I bidding.</li> <li>• <b>BPTA:</b> signed with PGCIL on 24/02/2010</li> </ul> |  |   |               |                        |       |                        |       |  |
| <b>Critical issues</b>  |  | <b>Work held up due to no PPA in the market.</b>                                  |               |                        |       |                        |       |  |
| <b>Reasons for Delay</b>  |  |   |               |                        |       |                        |       |  |

| Project Details          | Unit No.  | Cap-acity (MW)   | Commissioning Schedule |                |                        |                | Broad Status |  |
|--------------------------|---|--|------------------------|----------------|------------------------|----------------|--------------|--|
|                          |   |  | Original               |                | Actual(A)/ As Expected |                |              |  |
|                          |   |  | Syn. Comm              | COD            | Syn. Comm              | COD            |              |  |
| <b>State Sector</b>      |   |  |                        |                |                        |                |              |  |
| 7                        | <b>Udangudi STPP<br/>TANGEDCO (Distt. Thoothukudi)<br/>Tamil Nadu</b> | 1  | 660                    | 12/20<br>02/21 | 03/21                  | 12/20<br>02/21 | 03/21        | <p>Preliminary works Engineering activities, Geo Technical works, Approach road works, Topographical survey , Jungle clearances and Temporary weigh Bridge Construction are completed.</p> <p>*Site levelling and Grading work under progress.</p> <p>*Boiler foundation earthwork excavation started and base concreting under progress.</p> <p>*Chimney earthwork excavation under progress.</p> <p><b>Captive Coal Jetty for Udangudi Power Project</b></p> <p>*Topographical Survey, Land investigation, Bathymetry Survey, Marine investigation and Construction enabling activities completed.</p> <p>*Approach Pile and Pile cap construction activities are under progress in the off shore for about 1 Km from shore are completed.</p> <p>*Approach Pile and Pile cap construction activities are started in the off shore from 4 Km from shore as a next reach.</p> <p>*Casting of PSC Girders and Accropode Pre casting are under progress.</p> <p>*Pre casting of deck slab are under progress.</p> <p>*Brake water construction and Construction of compound wall work under progress</p> <p>Unit-2 has a phase difference of 2 months</p> <p>Appointment of Consultants (For Plant) - Project Management Consultancy LOA was issued to M/s.TATA Consulting Engineers Ltd., on 19.02.2019 for engaging Project Management Consultancy services in the post award of EPC contracts till completion of entire project and consultancy services for preparation of tender specification, analysis of bid, award and post award PMC services until completion of the FGD &amp; SCR.</p> <p>For Captive Coal Jetty - TANGEDCO Board has approved the proposed of consultancy services through IIT Madras on nomination basis and the same was approved by GOTN on 07.02.2019.</p> |
|                          |   | 2  | 660                    | 12/20<br>02/21 | 03/21                  | 02/21<br>04/21 | 05/21        |  |
|                          | Original Cost/ Latest Cost  | : Rs. 13076.70 Crores (Includes cost of Pollution Control Equipments & IDC)<br>{ a. Plant RS. 7894.169 Crores & b. Coal Jetty Rs. 1902.87 Crores}  |                        |                |                        |                |              |  |
|                          |   | Upto 31.03.2014 by UPCL : 10284 Lakhs<br>2012-13 : 63.375 Lakhs<br>2013-14 : 39.802 Lakhs<br>2014-15 : 1406.281 Lakhs<br>2015-16 : 54.035 Lakhs<br>2016-17 : 14.855 Lakhs<br>2017-18 : 29.594 Lakhs<br>2018-19 : 33643.42 Lakhs  |                        |                |                        |                |              |  |
|                          | <b>Total Expenditure (up to 3/19)</b>                                 | <b>: Rs 455.3636 Cr.</b>   |                        |                |                        |                |              |  |
|                          | Approval date:  | :  |                        |                |                        |                |              |  |
|                          | <b>Zero date:</b>   | : 07.12.2017   |                        |                |                        |                |              |  |
|                          | Financial closure   | . Financial tie up with REC  |                        |                |                        |                |              |  |
|                          | <b>Main Plant Order &amp; BOP</b>                                     | : EPC Contract was awarded to M/s. BHEL of Rs. 7359.00 Crores on 07.12.2017.   |                        |                |                        |                |              |  |
|                          | <b>Captive Coal Jetty</b>   | EPC Contract was awarded to M/s ITD Cementation India Ltd for Coal Jetty to the Power Project for an amount of Rs. 1902.87 Crores (Post GST)   |                        |                |                        |                |              |  |
|                          | <b>Type of fuel</b>   | : COAL. MMTC clearance obtained on 19.11.2012 (Import coal)  |                        |                |                        |                |              |  |
|                          | PPA   | N.A. State sector project. Entire power will be utilised by Tamil nadu   |                        |                |                        |                |              |  |
|                          | Power Evacuation system   | 400 KV   |                        |                |                        |                |              |  |
|                          |   | <ul style="list-style-type: none"> <li>Land: Out of 1040 acres of land, Government Poromboke Land is of 760 acres and private patta lands of 280 acres. Around 760 acres of Govt. land and 135 acres of private land had been handed over by TANGEDCO to M/s. BHEL on 15.12.2017 for project preparatory works. Almost all 280 acres of private land are inpossession of TANGEDCO except 11 acres which are under court case. 66 acres of land has been handed over to M/s. ITD cementation India Ltd. EPC contractor for Captive Coal Jetty.</li> <li>MOE&amp;F: Ministry of Environment and forest has accorded clearence for the above project on 14.10.13 and valid up to 13.10.2020. CRZ clearence awarded for coal jetty on 06.06.2011 and valid up to 05.06.2021.</li> <li>SPCB Clearance: TNPCB has given the consent for extension up to 31.03.2020.</li> <li>Civil Aviation Clearance: Obtained on 19.07.2016 valid till 18.07.2023.</li> <li>Water: Intake of 21000 m<sup>3</sup>/hr and outfall discharge of 13500 m<sup>3</sup>/hr as perCRZ clearance dt.6.6.2011</li> </ul> |                        |                |                        |                |              |  |
| <b>Critical issues</b>   |   |  |                        |                |                        |                |              |  |
| <b>Reasons for Delay</b> |   |  |                        |                |                        |                |              |  |

SB-17.04.2019



# **Eastern Region**

## BROAD STATUS OF THERMAL POWER PROJECTS IN BIHAR

| Sl. No.  | Project Details  | Unit   | Capacity (MW) | Commissioning Schedule |     |                            |       | Broad Status  |
|--|--|--|---------------|------------------------|-----|----------------------------|-------|---|
|  |  |  |               | Original               |     | Actual(A)/ As Expected     |       |   |
|  |  |  |               | Synch Comm             | COD | Syn. Comm                  | COD   |   |
| <b>State Sector</b>  |  |  |               |                        |     |                            |       |   |
| 1.   | <b>Barauni Extn TPS</b><br>P.O.: Barauni,<br>Dist: Begusarai Bihar<br>(BSPGCL)<br><br>(2x250 = 500 MW) | 8  | 250           | 02/14<br>05/14         |     | 14.11.17(A)<br>11.01.18(A) | 05/18 | <p><b>Unit-8</b><br/>Full load achieved on 11.01.18.</p> <p><b>Boiler:</b> Boiler erection started on 10.12.12. Drum lifted on 05/09/13. Erection of pressure part, ID/FD/PA Fans, APH, piping completed. HT done on 21/08/14. Non drainable Hydro Test completed. Boiler Light Up with LDO on 18.06.2017, SBO completed on 04.09.17. Synchronized on 14.11.17</p> <p><b>ESP:</b> Mechanical erection completed and one stream is ready for use. Another stream of ESP is in progress. Insulation &amp; cladding is under progress</p> <p><b>TG:</b> Erection of Condenser &amp; TG started on 26/08/14 and 25/08/14 respectively. TG Boxed up on 31/12/15 .TG oil flushing completed in 12/16.</p> |
|  |  | 9  | 250           | 04/14<br>07/14         |     | 31.03.18(A)<br>31.03.18(A) | 06/18 |   |
| <b>Original /Latest Cost</b>   |  | :Rs 3666.06 Cr. / Rs. 5308.07 Cr   |               |                        |     |                            |       |   |
| Expenditure during 2008-09   |  | :Rs 25.00 lakhs  |               |                        |     |                            |       |   |
| Expenditure during 2009-10   |  | :Rs 00.00 lakhs  |               |                        |     |                            |       |   |
| Expenditure during 2010-11   |  | :Rs 12500.00 lakhs   |               |                        |     |                            |       |   |
| Expenditure during 2011-12   |  | :Rs 25958.00 lakhs   |               |                        |     |                            |       |   |
| Expenditure during 2012-13   |  | :Rs 67706.00 lakhs   |               |                        |     |                            |       |   |
| Expenditure during 2013-14   |  | :Rs 145630.00 lakhs  |               |                        |     |                            |       |   |
| Expenditure during 2014-15   |  | :Rs 77058.00 lakhs   |               |                        |     |                            |       |   |
| Expenditure during 2015-16   |  | :Rs 87030.00 lakhs   |               |                        |     |                            |       |   |
| Expenditure during 2016-17   |  | :Rs 64041.00 lakhs   |               |                        |     |                            |       |   |
| <b>Total Expenditure</b>   |  | :Rs 479951 Lakhs (up to 03/17)   |               |                        |     |                            |       |   |
| <b>Approval date:</b>  |  |  |               |                        |     |                            |       |   |
| <b>Zero date:</b>  |  | : 11.03.2011   |               |                        |     |                            |       |   |
| <b>Financial closure</b>   |  | : Achieved in 2015 with PFC  |               |                        |     |                            |       |   |
| <b>Main Plant Order</b>  |  | The order for EPC was awarded to M/s BHEL on nomination basis on 11.03.2011  |               |                        |     |                            |       |   |
| <b>BOP Package</b>   |  | Order for BOP's placed on <ul style="list-style-type: none"> <li>• M/s Mc Nally Bharat Engg. Co. Ltd. for CHP on 15.05.12.</li> <li>• M/s Mc Nally Bharat Engg. Co. Ltd. for AHP on 15.05.12.</li> <li>• M/s Gannon Dunkerley &amp; Co. Ltd. for Chimney on 19.04.12</li> <li>• M/s Paharpur Cooling tower for CT on 10.08.13.</li> </ul>  |               |                        |     |                            |       |   |
| <b>Type of fuel</b>  |  | Coal   |               |                        |     |                            |       |   |
| <b>PPA</b>   |  | Dt 31.12.2010  |               |                        |     |                            |       |   |
| <b>Power Evacuation system</b>   |  | <ul style="list-style-type: none"> <li>• LILLO at Barauni of Begusarai-Biharsarif 220KV D/C done. Power evacuation system expected to be ready by Dec-2015.</li> </ul>   |               |                        |     |                            |       |   |
| <ul style="list-style-type: none"> <li>• <b>Land:</b> Land acquired. except land required for ash dyke and intake water system</li> <li>• <b>Water Allocation:</b> Approval for 60 cusec water from River Ganga has been obtained from Irrigation Department, Govt. of Bihar. Approval for 45 cusec water from River Ganga has also been received from Central Water Commission.</li> <li>• <b>MOE&amp;F Clearance:</b> MoE&amp;F clearance obtained on 08.05.14.</li> <li>• <b>Civil Aviation Clearance:</b> Aviation clearance obtained from AAI on 03-08-09.</li> </ul> |  | <ul style="list-style-type: none"> <li>• <b>Boiler:</b> Erection started on 02-12-12, Drum lifted on 15.09.13. HT(D) done on 21.09.14. Boiler stage-1 hydro test of unit 9 was successfully completed on 21.09.2014. Non Drainable Hydro Test completed on 10.08.17. BLU done on 29.08.2017,</li> <li>• <b>ESP:</b> Mechanical erection completed. Other works are in progress.</li> <li>• <b>TG:</b> Condenser &amp; TG erection started on 26/08/14. TG Boxup completed 30.06.2016.</li> </ul> <p><b>BoPs:</b></p> <ul style="list-style-type: none"> <li>• <b>Chimney:</b> Completed in all respect including aviation light.</li> <li>• <b>CT:</b> Erection of water distribution system, drift eliminators and equipment completed for IDCT of unit#8 and unit#9.</li> <li>• <b>CW System:</b> EOT crane erected. Erection of pumps and motors completed. Trail run is also under progress.</li> <li>• <b>CHP: The work of WT is on hold.</b> WT civil work 60% completed. Geo-Teck survey completed in wagon tipler, M/s BHEL started the isolation of affected structure by cutting through M/s HILTI. Cutting work completed. Revised layout drawing is under approval of railway authority.</li> <li>• <b>AHP:</b> Order for civil work placed on M/s McNally Bharat. Vacuum pump house equipment erection completed. ASPH building is ready and Ash slurry pumps erection completed. Erection of ash silo under progress. Land for ash dyke acquired and possession of the same is u/p. Erection of ash pipe rack work is in progress. Contingency arrangement made for ash disposal in HFCL Pond (Ash Dyke) completed.</li> <li>• <b>PT Plant:</b> Ready in service. Intake water system ready with temporary arrangement at Ganga.</li> <li>• <b>DM plant:</b> Ready in service.</li> <li>• <b>FOS:</b> HFO &amp; LDO tanks erection completed. Insulation is pending.</li> <li>• <b>Switchyard:</b> 220 kv switchyard charged on 03.03.2016. Station transformer of unit 8 &amp; 9 erection, testing completed and got charged. 132Kv switchyard ICT -1&amp;2 testing work u/p. GT of U8 erection completed and for U9 erection is u/p.</li> <li>• <b>FGD: Revised estimate for tender towards appointment of Project Management Consultant for "Feasibility study, selection of implementing agency and supervision of installation , commissioning, testing &amp; inspection till completion of project for installation of FGD ,SCR etc at 2X250MW extension project of Barauni TPS, Begusarai as per revised emission norms declared by MoEF&amp;CC is under consideration</b></li> </ul> |               |                        |     |                            |       |   |
| <b>Critical issues</b>   |  | <ol style="list-style-type: none"> <li>1. Construction of Ash dyke, Railway siding, Readiness of CHP, Intake Water System.</li> <li>2. Heavy water percolation in WT pit so work is on hold.</li> </ol>  |               |                        |     |                            |       |   |
| <b>Reasons for Delay</b>   |  | <ol style="list-style-type: none"> <li>1. Acquisition of land for laying water pipeline from river Ganga to power plant and Ash Dyke area</li> <li>2. Drainage facility for seepage water from Wagon Tippler area</li> <li>3. Readiness of Raw Water System and DM plant</li> </ol>  |               |                        |     |                            |       |   |

| Sl. No.                  | Project Details   | Unit  | Capacity (MW) | Commissioning Schedule |     |                        |     | Broad Status  |
|--------------------------|---|---|---------------|------------------------|-----|------------------------|-----|---|
|                          |   |   |               | Original               |     | Actual(A)/ As Expected |     |   |
|                          |   |   |               | Synch Comm             | COD | Syn. Comm              | COD |   |
| <b>Private Sector</b>    |   |   |               |                        |     |                        |     |   |
| 2.                       | <b>Siriya TPP (JAS INFRA)</b><br><b>Village.: Siriya,</b><br><b>Dist.: Banka Bihar</b><br><b>(4x 660 = 2640 MW)</b>   | U-1   | 660           | 08/14                  |     | Uncertain              |     | <b>Unit-1:</b><br>Boiler: Civil foundation of boiler, ESP & Chimney completed. Civil foundation of PHB & Mill-Bunker building under progress. 2730 MT Structural Steel in PHB erected. Fabrication of 9000MT Structural steel completed.<br><br><b>Unit-2:</b><br><b>Boiler:</b> Boiler foundation work was started.<br><br><b>Unit-3:</b> Civil works yet to start.<br><br><b>Unit-4:</b> Civil works yet to start<br><br><b>Presently no work is in progress at site.</b> |
|                          |   | U-2   | 660           | 12/14                  |     | Uncertain              |     |   |
|                          |   | U-3   | 660           | 04/15                  |     | Uncertain              |     |   |
|                          |   | U-4   | 660           | 08/15                  |     | Uncertain              |     |   |
|                          | <b>Original Estd. Cost</b>  | :Rs 11,120.00 Cr.                             |               |                        |     |                        |     |   |
|                          | <b>Latest Est. Cost</b>   | : Not Avialable                               |               |                        |     |                        |     |   |
|                          | Expenditure during 2013-14  | Not Avialable                                 |               |                        |     |                        |     |   |
|                          | Expenditure during 2014-15  |   |               |                        |     |                        |     |   |
|                          | Expenditure during 2015-16  |   |               |                        |     |                        |     |   |
|                          | <b>Total Expenditure</b>  | : Not Avialable                               |               |                        |     |                        |     |   |
|                          | <b>Approval date:</b>   |   |               |                        |     |                        |     |   |
|                          | <b>Zero date:</b>   | : 30.03.2011                                  |               |                        |     |                        |     |   |
|                          | <b>Financial closure</b>  | :   |               |                        |     |                        |     |   |
|                          | <b>Main Plant Order</b>   | M/s Dongfang Electric Corporation Ltd., China |               |                        |     |                        |     |   |
|                          | <b>BOP Package</b>  |   |               |                        |     |                        |     |   |
|                          | <b>Type of fuel</b>   | Coal  |               |                        |     |                        |     |   |
|                          | <b>PPA</b>  |   |               |                        |     |                        |     |   |
|                          | <b>Power Evacuation system</b>  |   |               |                        |     |                        |     |   |
|                          | <ul style="list-style-type: none"> <li><b>MOE&amp;F Clearance:</b> MOE&amp;F Clearance received vide letter NO. J-13012/89/2008-IA. II(T) dated 29.06.2011</li> <li><b>SPCB Clearance:</b> NOC for consent to establishment obtained from BSPCB.</li> <li><b>Civil Aviation Clearance:</b> Aviation Clearance has been obtained from Airport Authority of India.</li> </ul> |   |               |                        |     |                        |     |   |
| <b>Critical issues</b>   |   |   |               |                        |     |                        |     |   |
| <b>Reasons for Delay</b> |   |   |               |                        |     |                        |     |   |

**BROAD STATUS OF THERMAL POWER PROJECTS IN JHARKHAND**

| Sl. No.  | Project Details  | Unit  | Capacity (MW) | Commissioning Schedule |       |                        |  | Broad Status |
|--|--|---|---------------|------------------------|-------|------------------------|--|--------------|
|  |  |   |               | Original               |       | Actual(A)/ As Expected |  |              |
|  |  |   |               | Synch Comm             | COD   | Svl. Comm              | COD  |              |
| <b>Private Sector</b>  |  |   |               |                        |       |                        |  |              |
| 1.   | <b>Matri Shri Usha TPP</b><br>M/s Corporate Power Ltd.<br>Distt. Latehar<br>Jharkhand<br><br>(4 x 270 = 1080 MW) | U-1   | 270           | 03/12<br>04/12         | 05/12 | Uncertain              | <p><b>Phase-I</b></p> <p><b>Unit-1:</b></p> <ul style="list-style-type: none"> <li>• <b>Boiler:</b> Erection started on 05/10/10. Boiler drum lifted on 31/03/11. HT done on 28/12/11. Erection of 3/6 bunker completed.</li> <li>• <b>ESP:</b> ESP is ready</li> <li>• <b>TG:</b> condenser erection started on 25/05/11, Turbine erection started 15/6/11. TG boxed up in 10/12.</li> </ul> <p><b>Unit-2:</b></p> <ul style="list-style-type: none"> <li>• <b>Boiler:</b> Erection started on 19/12/10. Boiler drum lifted on 19/07/11. HT completed on 10/12.</li> <li>• <b>ESP:</b> ESP is ready</li> <li>• <b>TG:</b> condenser erection started on 24/08/11, Tube insertion is under progress Turbine erection started 13/10/11. HPT &amp; IPT placed on the deck.</li> </ul> <p><b>Phase-II</b></p> <p><b>Unit-3:</b></p> <ul style="list-style-type: none"> <li>• <b>Boiler:</b> Erection started on 06/11. Boiler drum lifted on 12/11</li> <li>• <b>ESP</b></li> <li>• <b>TG:</b> TG erection started in 10/12.</li> </ul> <p><b>Unit-4:</b></p> <ul style="list-style-type: none"> <li>• <b>Boiler:</b> Erection started on 07/11. Boiler drum lifted on 04/12</li> <li>• <b>ESP:</b></li> <li>• <b>TG:</b> TG deck is ready.</li> </ul> <p><b>BoPs:</b></p> <ul style="list-style-type: none"> <li>• <b>Chimney:</b> Completed in all respect</li> <li>• <b>CHP-</b> 98% structure erection completed</li> <li>• <b>AHP-</b> FA silo completed. Erection of Bottom Ash Hopper completed.</li> <li>• Station transformer &amp; Unit Transformers and associated systems is in ready. Generator Transformer is placed on foundation.</li> <li>• <b>ATS</b> balance work is to be taken up after stage – II Forests clearance is obtained.</li> <li>• PT plant, DM plant, CW system, Fire protection system Fuel oil system &amp; Switch yard completed.</li> </ul> |              |
| <b>Original Cost /Latest Cost</b>  |  | Ph.-I: Rs. 2900.00 Cr, Ph.-II: Rs.3182.00 Cr  |               |                        |       |                        |  |              |
| Expenditure during 2008-09<br>Expenditure during 2009-10<br>Expenditure during 2010-11<br>Expenditure during 2011-12<br>Expenditure during 2012-13 |  | Ph-I - .312000 Lakh Rs ( upto 11/12)<br>Ph-II – 220700 Lakh Rs. ( upto 9/12)  |               |                        |       |                        |  |              |
| <b>Total Expenditure</b>   |  | Ph-I - Rs. 3120 Crores<br>Ph-II - Rs. 2207 Crores   |               |                        |       |                        |  |              |
| <b>Approval date:</b>  |  |   |               |                        |       |                        |  |              |
| <b>Zero date:</b>  |  | 09/2009 for Phase-I<br>12/2009 for Phase-II   |               |                        |       |                        |  |              |
| <b>Financial closure</b>   |  | 05/12/2009 for Phase-I with REC<br>28/03/2011 for Phase-II.   |               |                        |       |                        |  |              |
| <b>Main Plant Order</b>  |  | Letter of Acceptance for Main Plant Order (EPC) issued to M/s BHEL on 09/2009.  |               |                        |       |                        |  |              |
| <b>BOP Package</b>   |  | Order for BOP's placed on<br>• M/s Energo Engg. Projects. Ltd. for CHP on 06.05.10.<br>• M/s DCIPS. for AHP on 08.10.10.<br>• M/s Simplex Infrastructure Ltd. for Chimney on 03.05.10<br>• M/s Paharpur Cooling tower for CT on 04.05.10. |               |                        |       |                        |  |              |
| <b>Type of fuel</b>  |  | Coal  |               |                        |       |                        |  |              |
| <b>PPA</b>   |  | PPA executed with Lanco Trading Co. in April 2010   |               |                        |       |                        |  |              |
| <b>Power Evacuation system</b>   |  | LILO at Barauni of Begusarai-Biharsarif 220KV D/C done. Power evacuation system expected to be ready by Dec-2015.   |               |                        |       |                        |  |              |
| <b>Critical issues</b>   |  | 1.Associated Transmission System for a short distance is to be taken up after Stage-II forest clearance is obtained.  |               |                        |       |                        |  |              |
| <b>Reasons for Delay</b>   |  | <b>Work held up due to payment issue with BHEL since 11/12. Commissioning Schedule will be assessed after restart of work.</b>  |               |                        |       |                        |  |              |

| Sl. No.                        | Project Details   | Unit   | Capacity (MW) | Commissioning Schedule                 |       |                        |   | Broad Status |
|--------------------------------|---|--|---------------|--|-------|------------------------|---|--------------|
|                                |   |  |               | Original                               |       | Actual(A)/ As Expected |   |              |
|                                |   |  |               | Synch Comm                             | COD   | Syn. Comm              | COD   |              |
| <b>Private Sector</b>          |   |  |               |  |       |                        |   |              |
| 2                              | <b>Tori TPP Essar Power (Jharkhand) Ltd. Distt. Angarha Latehar Jharkhand (3x660=1980 MW)</b> | Ph-I<br>1  | 600           | 05/12<br>07/12                         | 07/12 | Uncertain              | <p><b>Phase-I</b><br/><b>Unit-1:</b></p> <ul style="list-style-type: none"> <li>Boiler: Boiler erection started in 04/12.</li> <li>ESP: Foundation work completed.</li> <li>TG Civil work started in 15.12.11; hall foundation completed. TG building structural fabrication completed.</li> </ul> <p><b>Unit-2</b></p> <ul style="list-style-type: none"> <li>Boiler: Erection started in 15/12/13</li> <li>ESP: Foundation work completed.</li> <li>TG: TG civil work started on 15/12/13.</li> </ul> <p><b>Phase-II</b><br/><b>Unit-3</b> –Work not yet started.</p> <p><b>BoPs:</b></p> <ul style="list-style-type: none"> <li>Chimney: Order placed on M/s Essar Projects India Ltd.. Windshield work completed. Flue can fabrication 60% completed.</li> <li>CHP: Order placed on M/s Elecon engg &amp; McNally Bharat Engg.Co</li> <li>AHP: Basic engineering completed.</li> <li>CT: Order placed on M/s SPIG Cooling Tower India Pvt. Ltd.</li> <li>PT &amp; DM Plant: 40% material received.</li> <li>FPS: Order placed on M/s Brijbasi Hi-tech Udyog Ltd on 15.11.10.</li> <li>Switchyard: Order placed on M/s Alstom T&amp;D on 22/12/10</li> </ul> <p><b>Presently no work is in progress due to financial constraints</b></p> |              |
| <b>Original /Latest Cost</b>   |   | : Rs.570000 Lakh   |               | Rs. 250000 Lakh                        |       |                        |   |              |
| Expenditure during 2009-10     |   | Phase-I : Rs 10641 Lakh  |               | Phase-II : Rs. Nil                     |       |                        |   |              |
| Expenditure during 2010-11     |   | : Rs. 42437 Lakh   |               | Rs. 2825 Lakh                          |       |                        |   |              |
| Expenditure during 2011-12     |   | :Rs.162489 Lakh  |               | Rs. 13845 Lakh                         |       |                        |   |              |
| Expenditure during 2012-13     |   | : Rs. 32446 Lakh   |               | Rs. 3172 Lakh                          |       |                        |   |              |
| Expenditure during 2013-14     |   | : Rs. 96502 Lakh   |               | Rs. 4760 Lakh                          |       |                        |   |              |
| Expenditure during 2014-15     |   | : Rs. 37649 Lakh   |               | Rs. 63 Lakh                            |       |                        |   |              |
| Expenditure during 2015-16     |   | Rs. 66430 Lakh   |               | Rs. ---                                |       |                        |   |              |
| Expenditure during 2016-17     |   | Rs. 23265 Lakh   |               | Rs. ---                                |       |                        |   |              |
| <b>Total Expenditure</b>       |   | <b>Ph-I: Rs.4718.59 Cr. (till 12/16)</b>   |               | <b>Ph II: Rs.246.65 Cr.(till 3/15)</b> |       |                        |   |              |
| <b>Approval date:</b>          |   |  |               |  |       |                        |   |              |
| <b>Zero date:</b>              |   |  |               |  |       |                        |   |              |
| <b>Financial closure</b>       |   | Achieved   |               |  |       |                        |   |              |
| <b>Main Plant Order</b>        |   | Ph-I:<br>18/08/2008 - Main plant Civil & Structural work on Essar Projects (I) Ltd.<br>BTG on M/s Harbin Power (HPE) Engineering, China in 11/ 2008<br>Ph-II:<br>Main plant Civil works on EPI Ltd on 26/02/2010 BTG on HPE  |               |  |       |                        |   |              |
| <b>BOP Package</b>             |   | Order for BOP's placed on <ul style="list-style-type: none"> <li>M/s Mc Nally Bharat Engg. Co. Ltd. And Elecon Engg. For CHP on 22.09.10 &amp; 31.08.10.</li> <li>M/s Mc Nally Bharat Engg. Co. Ltd. for AHP on 15.09.11.</li> <li>M/s Essar Projects India Ltd. for Chimney on 18.08.10</li> <li>M/s SPIG Cooling tower India Pvt. Ltd for CT on 19.11.10.</li> </ul>   |               |  |       |                        |   |              |
| <b>Type of fuel</b>            |   | COAL   |               |  |       |                        |   |              |
| <b>PPA</b>                     |   | 1.450MW+300MW with BSEB<br>2.PPA signed with JSEB for 12% of the total power generated at variable cost under MoU route<br>3. Draft PPA submitted to JUVNL for 13% of the total power generated at JSERC rates under MoU route.  |               |  |       |                        |   |              |
| <b>Power Evacuation system</b> |   | BPTA signed with PGCIL and bay agreement executed. PGCIL is setting up 400KV substation near the project.  |               |  |       |                        |   |              |
|                                |   | <ul style="list-style-type: none"> <li>Land 1210 acres of land required for both the Phases 1&amp;II of (2x600 +1x600 MW) is available.</li> <li>BOPs are common for both units.</li> <li>MOEF clearance already available for U-I of Phase-I. Clearance for U-2 of Phase-I and U-3 Phase received vide MOEF letter dated 14.11.2013.</li> <li>Civil Aviation Clearance: NOC for height of chimney is valid till 21.07.2020</li> <li>SPCB: Clearance obtained from JSPCB is valid till 31.03.2016</li> <li>Coal: Due non availability of MOEF clearance for the Chakla &amp; Ashok Karkatta coal block allotted to this project it is proposed to import coal from Indonesia &amp; Australia for the time being.</li> <li>Water Source of water is from Damodar and Amanat rivers which are 20 &amp;30 KMs from the site.</li> </ul> |               |  |       |                        |   |              |
| <b>Critical issues</b>         |   | Mega Power Project status is yet being issued from MoP due to which 97% imported main plant equipment are lying at site/ Port. Tapering coal linkage.  |               |  |       |                        |   |              |
| <b>Reasons for Delay</b>       |   | Reasons for Delay:- Delay in MoE&F Clearance` (14.11.2013 for U2 & U3), Change of design in water cooled condenser to cooled condenser due to water availability issue, Law & order issue, delay in grant of Mega power project status, cancellation of block and non-availability of tapering / long term coal linkage etc.   |               |  |       |                        |   |              |

## BROAD STATUS OF THERMAL POWER PROJECTS IN ODISHA

| Sl. No.  | Project Details1   | Unit   | Capacity (MW) | Commissioning Schedule |       |                        |       | Broad Status   |
|--|--|--|---------------|------------------------|-------|------------------------|-------|--|
|  |  |  |               | Original               |       | Actual(A)/ As Expected |       |  |
|  |  |  |               | Synch Comm             | COD   | Syn. Comm              | COD   |  |
| <b>State Sector</b>  |  |  |               |                        |       |                        |       |  |
| 1.   | <b>Ib Valley TPP</b><br><b>Village : Banaharpalli, Dist: Jharsaguda (OPGC)</b><br><br><b>(2x660 = 1320 MW)</b> | 3  | 660           | 08/17<br>08/17         | 09/17 | 30.03.2019(A)<br>04/19 | 05/19 | <p><b>Unit-3:</b></p> <ul style="list-style-type: none"> <li>• <b>Boiler:</b> All major work completed. Synchronization achieved 30.03.2019</li> <li>Boiler civil works start on 26.11.2014 and erection start at 20.01.2015, Hydro Test - Drainable on 26.12.2017 and Non-drainable – 13.08.2018, Boiler Light Up on 18.11.2018, SBO – 23.02.2019. Coal firing on 31.03.2019</li> <li>• <b>ESP 3:</b> Mechanical Erection completed, Commissioning completed.</li> <li>• <b>TG Unit-3:</b> Unit synchronization on 30.03.2019 and coal firing on 31.03.2019, Coal commissioning in progress for full load.</li> </ul> <p>• <b>Unit-4:</b></p> <ul style="list-style-type: none"> <li>• <b>Boiler:</b> All major work completed. Synchronization achieved on 23.01.2019</li> <li>Boiler civil works start on 26.12.2014 and erection start at 29.05.2015, Hydro Test - Drainable on 01.12.2017 and Non-drainable – 17.07.2018, Boiler Light Up on 11.08.2018, SBO – 08.12.2018. Coal firing on 13.02.2019</li> <li>• <b>ESP4:</b> All field charged, commissioning completed.</li> <li>• <b>TG Unit-4:</b> Oil synchronization achieved.</li> </ul> <p><b>There is an incident occurred where LP Turbine blade failed at 3000 RPM before synchronization (on coal) so there is anticipation that COD Unit 4 might shift from Feb 19 to mar 19.</b></p> <p><b>Auxiliary Equipment:</b> All major drives commissioning completed.</p> <ul style="list-style-type: none"> <li>• <b>Main Plant Civil &amp; Structural Work:</b> All major civil work completed.</li> </ul> <p><b>BoPs:</b></p> <ul style="list-style-type: none"> <li>• <b>Chimney:</b> Work completed.</li> <li>• <b>CHP:</b> commissioning completed for both units.</li> <li>• <b>AHP:</b> Unit 3 : Commissioning completed; <b>Unit 4:</b> Commissioning completed; Ash Pond : Phase 1 about to complete. Phase 2 – work in progress.</li> <li>• <b>Cooling Towers:</b> IDCT 3 – commissioning completed. IDCT 4 - Commissioning completed;</li> <li>• <b>PT Plant: Raw water and PT Plant both steam Commissioned</b></li> <li>• <b>DM Plant:</b> DM plant commissioned.</li> <li>• <b>CW System:</b> All CW pumps commissioning completed. CW chlorination commissioning completed.</li> <li>• <b>F P System:</b> Pump House Commissioning work is Completed. Fire hydrant and spray pipe laying completed.</li> <li>• <b>FO System:</b> LDO &amp; HFO system Commissioning Completed.</li> <li>• <b>Switchyard:</b> Unit#3 and Unit#4. Switchyard back charged and under operation.</li> </ul> <p><b>FGD Plant: Consultant finalized, Techno – commercial bid evaluation in progress.</b></p> |
| <b>Original / Latest Cost</b>  |  | :Rs 1196500 Lakhs  |               |                        |       |                        |       |  |
| Expenditure during 2013-14   |  | : Rs 68690 lakhs   |               |                        |       |                        |       |  |
| Expenditure during 2014-15   |  | : Rs. 56887 lakhs  |               |                        |       |                        |       |  |
| Expenditure during 2015-16   |  | : Rs. 108659 lakhs   |               |                        |       |                        |       |  |
| Expenditure during 2016-17   |  | : Rs. 208889 lakhs   |               |                        |       |                        |       |  |
| Expenditure during 2017-18   |  | : Rs. 63758 lakhs  |               |                        |       |                        |       |  |
| Expenditure during 2018-19   |  | : Rs.  |               |                        |       |                        |       |  |
| Expenditure during 2019-20   |  | : Rs.  |               |                        |       |                        |       |  |
| <b>Total Expenditure</b> (up to 06/17)   |  | : Rs 506883 lakhs  |               |                        |       |                        |       |  |
| <b>Approval date:</b>  |  |  |               |                        |       |                        |       |  |
| <b>Zero date:</b>  |  | : 26.03.2014   |               |                        |       |                        |       |  |
| <b>Financial closure</b>   |  | : Achieved on 23.11.2012 (PFC and REC)   |               |                        |       |                        |       |  |
| <b>Main Plant Order</b>  |  | : NTP issued in 03/2014  |               |                        |       |                        |       |  |
| <b>BOP Package</b>   |  | : BTG order placed on M/s BHEL   |               |                        |       |                        |       |  |
| <b>Type of fuel</b>  |  | : Coal   |               |                        |       |                        |       |  |
| <b>PPA</b>   |  | : PPA: 50% of the power generated shall be sold to GRIDCO through a long term PPA based on CERC norms and balance 50% will be sold through mix of long term PPA (Case-1 bids) and short / medium term sales. |               |                        |       |                        |       |  |
| <b>Power Evacuation system</b>   |  | : Power evacuation through 2xD/C 400KV transmission lines, one going to OPTCL's 400kV substation at Lapang and other to PGCIL's 400KV pooling station. Signed on 11.09.2013                                  |               |                        |       |                        |       |  |
| <ul style="list-style-type: none"> <li>• <b>LAND:</b> Required land is in possession of OPGC except the 97 acre of land for MGR work.</li> <li>• <b>MOEF:</b> EC was granted on 04.02.2010, amended on 22.01.2014 and validity extended on 16.1.2015.</li> <li>• <b>Coal linkage:</b> Coal will be sourced from Manoharpur &amp; Dip side Manoharpur allocated to OCPL, A JV subsidiary company of OPGC.</li> <li>• <b>WATER:</b> Agreement signed with water resource department on 26.08.2013</li> <li>• <b>SPCB:</b> Consent to establish was granted from OSPCB on 04.02.2010 and revalidation was done on 27.11.15</li> <li>• <b>CIVIL Aviation:</b> Clearance obtained from AAI on 15.03.2010</li> </ul> |  |  |               |                        |       |                        |       |  |
| <b>Critical issues</b>   |  |  |               |                        |       |                        |       |  |
| <b>Reasons for Delay</b>   |  |  |               |                        |       |                        |       |  |

SB-17.04.2019

| Sl. No.  | Project Details  | Unit  | Capacity (MW)            | Commissioning Schedule |       |                            |             | Broad Status  |
|--|--|---|--------------------------|------------------------|-------|----------------------------|-------------|---|
|  |  |   |                          | Original               |       | Actual(A)/ As Expected     |             |   |
|  |  |   |                          | Synch Com m            | COD   | Syn. Comm                  | COD         |   |
| <b>Private Sector</b>  |  |   |                          |                        |       |                            |             |   |
| 2.   | <b>Ind Barath TPP</b><br>M/s Ind-Barath Energy (Utkal) Ltd.<br>(Distt-Jharsuguda)<br><br>(2x350 700 MW)  | 1   | 350                      | 07/11<br>09/11         | 10/11 | 18.06.15(A)<br>25.02.16(A) | 20.07.16(A) | <p><b>Unit-1:</b><br/>Full load achieved on 25.02.16. COD declared on 20.07.2016.</p> <ul style="list-style-type: none"> <li>Boiler: Boiler erection started in 01/11, Erection of feeders &amp; tripper, all bunkers &amp; Liners erection and mills completed. SBO completed on 15.12.14. Drum lifted on 30.5.11, HT completed on 24.05.12. BLU completed on 9.01.15.</li> <li>ESP: work completed</li> <li>TG: TG erection commenced in 5/12. TG boxed up on 23.05.14, Oil flushing completed on 10.10.14. Unit synchronized on 18.06.15</li> </ul> <p><b>Unit-2:</b></p> <ul style="list-style-type: none"> <li><b>Boiler:</b> Boiler erection started in 05/11, Drum lifted on 26.12.11. <b>HT(D)</b> completed on 20.05.14.</li> <li><b>ESP:</b> Erection completed insulation &amp; cladding of ESP and hot gas ducts is in progress.</li> <li><b>TG:</b> TG erection started in 09/12. Erection of TG &amp; condenser completed. TG boxed up to be re-inspected and final Box up is in progress.</li> </ul> <p><b>BoPs:</b></p> <ul style="list-style-type: none"> <li><b>Chimney:</b> Completed for both the units.</li> <li><b>CHP:</b> structural erection completed and electrical work in progress, Track hopper completed, Bunker, coal feeder and mills erection completed. Tripper erection completed</li> <li><b>AHP:</b> U-2 BAH expected in 12/17 and F/A system work is in progress.</li> <li><b>CT:</b> completed for U-1 and that for U-2 is in progress.</li> <li><b>PT Plant:</b> completed</li> <li><b>DM plant:</b> Ready to use., already functional for U-1.</li> <li><b>CW system:</b> Already functioning for U-1.</li> <li><b>FO System:</b> for U-1 &amp; U-2 completed.</li> <li><b>Switchyard:</b> completed in all respect and is being used for evacuation of power for U-I.</li> </ul> |
| <b>Original / Latest Cost</b>  |  | :Rs   | 3150.00 Cr. /            | 4001.00 Cr             |       |                            |             |   |
| Expenditure during 2010-11   |  | Rs  | 100000 lakhs             |                        |       |                            |             |   |
| Expenditure during 2011-12   |  | Rs  | 85000 lakhs              |                        |       |                            |             |   |
| Expenditure during 2012-13   |  | Rs  | 110000 lakhs             |                        |       |                            |             |   |
| Expenditure during 2013-14   |  | Rs  | 47000 lakhs              |                        |       |                            |             |   |
| Expenditure during 2014-15   |  | Rs  | 54800 lakhs              |                        |       |                            |             |   |
| Expenditure during 2015-16   |  | Rs  | 26200 lakhs              |                        |       |                            |             |   |
| Expenditure during 2016-17   |  | Rs  | 2300 lakhs               |                        |       |                            |             |   |
| Expenditure during 2017-18   |  | Rs  | 100 lakhs                |                        |       |                            |             |   |
| <b>Total Expenditure</b>   |  | Rs  | 4254.00 Cr (up to 04/17) |                        |       |                            |             |   |
| <b>Approval date:</b>  |  | 29.03.2010  |                          |                        |       |                            |             |   |
| <b>Zero date:</b>  |  | 16.05.2009  |                          |                        |       |                            |             |   |
| <b>Financial closure</b>   |  | FC achieved on 14.05.2008 with M/s Axis Bank Ltd.                 |                          |                        |       |                            |             |   |
| <b>Main Plant Order</b>  |  | Cethar Vessel(16.05.2009) Chinese                                 |                          |                        |       |                            |             |   |
| <b>BOP Package</b>   |  | Awarded to punj Lloyd on 07.01.2010                               |                          |                        |       |                            |             |   |
| <b>Type of fuel</b>  |  | Coal and Fuel Linkage MCL   |                          |                        |       |                            |             |   |
| <b>PPA</b>   |  | PPA signed with GRIDCO on 14.9.09 & TNEB on 8.8.13.               |                          |                        |       |                            |             |   |
| <b>Power Evacuation system</b>   |  | Bulk Power Transmission Agreement (BPTA) with PGCIL in 24.02.2010 |                          |                        |       |                            |             |   |
| <ul style="list-style-type: none"> <li><b>Land:</b> Required land acquired</li> <li><b>MOEF:</b> Clearance of MOEF has been obtained on 30.11.2009</li> <li><b>Water:</b> Approval to draw water from Mahanadi river obtained on 23.02.2008</li> <li><b>SPCB:</b> Clearance obtained from Orissa SPCB on 13.08.2010</li> <li><b>Civil Aviation:</b> Clearance obtained from AAI on 14.07.09</li> </ul> |  |   |                          |                        |       |                            |             |   |
| <b>Critical issues</b>   | 1.Non readiness of CHP & AHP and ATS for Unit-2<br>2. Completion of bottom ash hopper  |   |                          |                        |       |                            |             |   |
| <b>Reasons for Delay</b>   | 1. Very slow progress of civil work<br>2. Supply of main Plant material<br>3. Readiness of power evacuation system<br>4. Completion of firing guns/burners due to technical problem in design.<br>5. Mainly financial constraints due to non-disbursement of funds by financier. |   |                          |                        |       |                            |             |   |

| Sl. No.                  | Project Details   | Unit  | Capacity (MW)           | Commissioning Schedule |          |                        |  | Broad Status |
|--------------------------|---|---|-------------------------|------------------------|----------|------------------------|--|--------------|
|                          |   |   |                         | Original               |          | Actual(A)/ As Expected |  |              |
|                          |   |   |                         | Synch Comm             | COD      | Syn. Comm              | COD  |              |
| <b>Private Sector</b>    |   |   |                         |                        |          |                        |  |              |
| 3.                       | <b>Lanco Babandh TPP (Distt-Dhenkanal) (M/s Lanco Babandh Power Ltd.) (2x660 = 1320 MW)</b>   | 1   | 660                     | 02/13<br>04/13         | 05/13    | Stressed               | <b>Unit-1</b><br><b>Boiler:</b> Boiler erection started in 05/11. Main structural erection completed. Boiler Pressure parts erection, Enclosure wall erection are in progress. Burner erection completed.<br><b>ESP:</b> 58% structural erection completed. All hoppers erected. Pass-A collecting electrode erection completed and Pass B electrode erection was in progress. Pass-A outlet and Inlet funnel erection completed.<br><b>TG:</b> Deck casting completed. Both EOT cranes commissioned.TG erection started in 11/15. HPT, IPT & LPT are not received at site. HPH & LPH erection completed. Foundations of MDBFP#1 & CEP#1 completed.<br><b>Unit-2</b><br><b>Boiler:</b> Erection started in 9/11. All ceiling girders erected. Handrails and Platforms work completed at various levels. Burner erection was in progress. Preparatory work for Pressure part erection yet to complete.<br><b>ESP:</b> 41% of structural erection completed. Hopper erection is in progress. Pass A-2/9 Collecting electrode erection completed. Pass C- hopper assembly erection and casing wall assembly work completed.<br><b>TG:</b> EOT crane commissioned. Columns upto deck bottom completed, MDBFP#2 foundation completed. CEP & CW Pit #2 raft completed. MDBFP#2 foundation completed.<br><b>BoPs:</b><br>• <b>Chimney:</b> 252/270m shell construction completed. Flue can fabrication was in progress.<br>• <b>CT:</b> FRP Cooling tower awarded to Paharpur. <b>IDCT#1</b> 305/454 raft footing work completed. 275/481 nos column completed. Excavation upto 70% completed for IDCT#2 and raft footing work was in progress.<br>• <b>CHP:</b> Track hopper raft and both side walls completed. Crusher house foundation work completed. Stacker reclaiming footing raft completed. JTs foundation work completed. Crusher house civil work completed.<br>• <b>AHP:</b> RCC of BAH#1 completed. Raft footing completed and wall final lift is in progress for ASPH. Ash silo raft#1 completed. 8/26 nos. footing completed for Ash compressor house building<br>• <b>PT/DM plant:</b> Foundation work completed. DM building structure erection completed and equipment erection in progress. Clarifloculator ring wall in progress. DM tank-1 erection completed.<br>• <b>FO system:</b> 2LDO + 2HFO fuel oil tanks erection completed. LDO-2 water fill test completed.<br>• <b>Switch yard:</b> Erection of 23 nos. towers & 18 nos. of beam completed. S/Y equipment received at site. Control room building brick work completed and preparation for slab casting has started.<br><br><b>Presently work at site almost held up due to financial constraint</b> |              |
|                          | 2   | 660   | 06/13<br>08/13          | 09/13                  | Stressed |                        |  |              |
|                          | <b>Original / Latest Cost</b>   | :Rs 6930.00 Cr. / Rs. 10430.00 Cr   |                         |                        |          |                        |  |              |
|                          | Expenditure during 2010-11  | Rs  | 135000 lakhs            |                        |          |                        |  |              |
|                          | Expenditure during 2011-12  | Rs  | 214100 lakhs            |                        |          |                        |  |              |
|                          | Expenditure during 2012-13  | Rs  | 78400 lakhs             |                        |          |                        |  |              |
|                          | Expenditure during 2013-14  | Rs  | 54700 lakhs             |                        |          |                        |  |              |
|                          | Expenditure during 2014-15  | Rs  | 62200 lakhs             |                        |          |                        |  |              |
|                          | Expenditure during 2015-16  | Rs  | 128000 lakhs            |                        |          |                        |  |              |
|                          | Expenditure during 2016-17  | Rs  | 89100 lakhs             |                        |          |                        |  |              |
|                          | <b>Total Expenditure</b>  | Rs  | 7615.00 Cr(up to 03/17) |                        |          |                        |  |              |
|                          | <b>Approval date:</b>   |   |                         |                        |          |                        |  |              |
|                          | <b>Zero date:</b>   | 17.11.2009  |                         |                        |          |                        |  |              |
|                          | <b>Financial closure</b>  | Achieved on 08.09.2010  |                         |                        |          |                        |  |              |
|                          | <b>Main Plant Order</b>   | Main plant order placed on Lanco Infaratec Ltd. On 17/11/2009, Boiler: DEC China, TG: HEC China.  |                         |                        |          |                        |  |              |
|                          | <b>BOP Package</b>  | BOPs to LTTL  |                         |                        |          |                        |  |              |
|                          | <b>Type of fuel</b>   | Coal  |                         |                        |          |                        |  |              |
|                          | <b>PPA</b>  | Revised PPA signed with GRIDCO, Odisha for 25% power sale on 4.01.11. LBPL signed PPA with UPPCL for 454MW on 08.08.13 & with RVPNL for 374MW on 01.11.13.  |                         |                        |          |                        |  |              |
|                          | <b>Power Evacuation system</b>  | BPTA signed with PGCIL for 1600 MW on 24.02.10(Revised to 800MW as per CERC order). 25KM of transmission line is planned for power evacuation from LBPL project to PGCIL Angul pooling station. The power shall be evacuated at 400KV level through 1 D/C quad Moose transmission conductor. Section 68 and Section 164 approval received from MoP.   |                         |                        |          |                        |  |              |
|                          |   | <ul style="list-style-type: none"> <li>• <b>Land:</b> 889 acres out of 933 acres land acquired. (95%)</li> <li>• <b>MoE&amp;F:</b> Clearances obtained on 17.02.10 and is valid upto 31<sup>st</sup> Mar 2017</li> <li>• <b>Forest:</b> II-Stage clearance received on 31.12.13 from MoEF</li> <li>• <b>Water:</b> Principle approval received for 40 cusecs water for U-1 &amp;U-2 on 07.02.09. Renewal received on 18<sup>th</sup> Jan'16</li> <li>• <b>Coal linkage:</b> Coal linkage for U-1 received on 29.12.08 for 2.83MTPA. FSA has been executed with MCL on 26.04.16.</li> <li>• <b>SPCB:</b> NOC obtained on 20.05.09 from Odisha SPCB and it is valid till 19.05.19</li> <li>• <b>Civil Aviation:</b> NOC obtained on 03.09.08 and valid till 02.09.2020</li> </ul> |                         |                        |          |                        |  |              |
| <b>Critical issues</b>   | 1. Work was held up due to financial constraints, now the work restarted.<br>2.Acquisition of Ash pond and corridor land.<br>3. Transfer of Govt. land to the project.4.LBPL has requested MoC/MoP to grant normal Linkage in lieu of cancellation of Rampia Coal Mine for Unit#2 |   |                         |                        |          |                        |  |              |
| <b>Reasons for Delay</b> | Work almost held up due to financial constraint presently.  |   |                         |                        |          |                        |  |              |



| Sl. No.                  | Project Details  | Unit  | Capacity (MW) | Commissioning Schedule |       |                        |      | Broad Status  |
|--------------------------|--|---|---------------|------------------------|-------|------------------------|------|---|
|                          |  |   |               | Original               |       | Actual(A)/ As Expected |      |   |
|                          |  |   |               | Synch Comm             | COD   | Syn. Comm              | COD  |   |
| <b>Private Sector</b>    |  |   |               |                        |       |                        |      |   |
| 4.                       | <b>Malibrahmani TPP</b><br><b>M/s Monnet Ispat (Distt-Angul)</b><br><b>(2x525 = 1050 MW)</b>   | 1   | 525           | 10/12<br>12/12         | 01/13 | Uncertain*             | ---- | <b>Unit-1:</b><br><br><ul style="list-style-type: none"> <li><b>Boiler:</b> Erection started on 18.08.11. Erection of pressure part is in progress, welding of HP joints is in progress. Feeder floor casted, 4 mills installed and 4 mills are yet to be installed.</li> <li>Drum lifted on 21.03.12., HT completed on 3.4.13 Boiler light up expected after restart of work.</li> <li><b>ESP:</b> All 4 passes completed and air test done. Control room completed, panel erection and cabling done.</li> <li><b>TG:</b> Condenser erection started on 01.08.12, Turbine erection started on 28.01.13. Generator stator erected, TG box up yet to be done.</li> </ul> |
|                          |  | 2   | 525           | 12/12<br>02/13         | 03/13 | Uncertain*             | ---- |   |
|                          | <b>Original /Latest Cost</b>   | :Rs 5093.00 Cr./ Rs. 6330.00 Cr   |               |                        |       |                        |      |   |
|                          | Expenditure during 2010-11   | Rs 63300 lakhs  |               |                        |       |                        |      |   |
|                          | Expenditure during 2011-12   | Rs 78292 lakhs  |               |                        |       |                        |      |   |
|                          | Expenditure during 2012-13   | Rs 143681 lakhs   |               |                        |       |                        |      |   |
|                          | Expenditure during 2013-14   | Rs 126817 lakhs   |               |                        |       |                        |      |   |
|                          | Expenditure during 2014-15   | Rs 120885 lakhs   |               |                        |       |                        |      |   |
|                          | <b>Total Expenditure</b>   | Rs 5329.75 Cr (up to 12/2014)   |               |                        |       |                        |      |   |
|                          | <b>Approval date:</b>  |   |               |                        |       |                        |      |   |
|                          | <b>Zero date:</b>  | 12.06.2009  |               |                        |       |                        |      |   |
|                          | <b>Financial closure</b>   | Achieved on 23.08.2010  |               |                        |       |                        |      |   |
|                          | <b>Main Plant Order</b>  | Main plant order placed on M/s BHEL   |               |                        |       |                        |      |   |
|                          | <b>BOP Package</b>   |   |               |                        |       |                        |      |   |
|                          | <b>Type of fuel</b>  | Coal  |               |                        |       |                        |      |   |
|                          | <b>PPA</b>   | PPA signed with GRIDCO for 117MW for 400 MW with West Bengal through PTC.   |               |                        |       |                        |      |   |
|                          | <b>Power Evacuation system</b>   | 400KV double circuit transmission line up to proposed PGCIL pooling station, which is 31km away from power plant.   |               |                        |       |                        |      |   |
|                          | <ul style="list-style-type: none"> <li><b>Land:</b> 770 acre acquired out of 995 acre required.</li> <li><b>MOEF:</b> Clearance of MOEF has been obtained</li> <li><b>Water:</b> Water allocation done</li> <li><b>Coal linkage:</b> Mandakini captive coal mines.</li> <li><b>SPCB:</b> Clearance obtained from Orissa SPCB.</li> <li><b>Civil Aviation:</b> Clearance obtained from AAI</li> </ul> |   |               |                        |       |                        |      |   |
|                          |  | <b>Unit-2:</b><br><ul style="list-style-type: none"> <li><b>Boiler:</b> Erection started on 10.10.11, 4 out of 8 mills are installed, foundation of PA and ED fans completed. Drum lifted 21.07.12. HT &amp; BLU may be assessed after start of work.</li> <li><b>ESP:</b> Erection of pass B, C &amp; D done and pass A yet to be done.</li> <li><b>TG:</b> Condenser erection started on 7.02.13 and TG erection started in 08/2015, TG box up may be assessed after restart of work.</li> </ul>  |               |                        |       |                        |      |   |
|                          |  | <b>BoPs:</b><br><ul style="list-style-type: none"> <li><b>Chimney:</b> Chimney shell casting completed flue can erection for U-I completed, for U-II two top segments erected.</li> <li><b>CHP:</b> Fabrication and erection of CHP structure are in progress along with equipment erection could be completed after restart of work.</li> <li><b>AHP:</b> Civil work for ash slurry sump, pump house, ash water pump house and silos completed. Pipe erection was in progress.</li> <li><b>IDCT:</b> Orders placed to M/s Indure On 22.02.2010. Construction of cooling tower for both the units are completed in all respect, mechanical and electrical erection work not completed.</li> <li><b>DM Plant:</b> Civil &amp; structural work is completed mechanical and electrical erection not completed.</li> <li><b>PT Plant:</b> Civil work completed, mechanical and electrical erection to be done.</li> <li><b>CW System:</b> Pump house completed. Pumps and associated pipe lines erection are to be erected.</li> <li><b>FO System:</b> Pump house, tank erection, pipe rack work is yet to be completed.</li> <li><b>Fire Protection:</b> Fire water pump house civil construction is completed and mechanical &amp; electrical erection yet to be done.</li> <li><b>Switchyard:</b> Construction completed. Commissioning and testing work not completed.</li> </ul> |               |                        |       |                        |      |   |
|                          |  | *Work held up due to financial constraints  |               |                        |       |                        |      |   |
| <b>Critical issues</b>   |  |   |               |                        |       |                        |      |   |
| <b>Reasons for Delay</b> |  | <b>Paucity of fund.</b>   |               |                        |       |                        |      |   |

| Sl. No.  | Project Details   | Unit   | Capacity (MW) | Commissioning Schedule |       |                        |       | Broad Status |
|--|---|--|---------------|------------------------|-------|------------------------|-------|--------------|
|  |   |  |               | Original               |       | Actual(A)/ As Expected |       |              |
|  |   |  |               | Synch Comm             | COD   | Syn. Comm              | COD   |              |
| <b>Private Sector</b>  |   |  |               |                        |       |                        |       |              |
| 5.   | <b>KVK Nilachal TPP, Ph-I Kandarei, Odisha (Distt-Dhenkanal) M/s KVK Nilanchal Ltd. (3x350 = 1050 MW)</b> | 1  | 350           | 10/11<br>12/11         | 01/13 | Uncertain              | ..... |              |
|  |   | 2  | 350           | 01/12<br>02/12         | 03/13 | Uncertain              | ----- |              |
|  |   | 3  | 350           | 01/12<br>02/12         | 03/13 | Uncertain              | ----- |              |
| <b>Original / Latest Cost</b>  |   | :Rs 4990.00 Cr./ Rs. 6000.00 Cr  |               |                        |       |                        |       |              |
| Expenditure during 2008-09   |   | Rs 11974.41 lakhs  |               |                        |       |                        |       |              |
| Expenditure during 2009-10   |   | Rs 20861.15 lakhs  |               |                        |       |                        |       |              |
| Expenditure during 2010-11   |   | Rs 35187.00 lakhs  |               |                        |       |                        |       |              |
| Expenditure during 2011-12   |   | Rs 75226.00lakhs   |               |                        |       |                        |       |              |
| Expenditure during 2012-13   |   | Rs 15740.00lakhs   |               |                        |       |                        |       |              |
| Expenditure during 2013-14   |   | Rs 5847.00 lakhs   |               |                        |       |                        |       |              |
| Expenditure during 2014-15   |   | Rs 6000.00 lakhs   |               |                        |       |                        |       |              |
| <b>Total Expenditure</b>   |   | :Rs 1708.36 Cr (up to 03/15)   |               |                        |       |                        |       |              |
| <b>Approval date:</b>  |   |  |               |                        |       |                        |       |              |
| <b>Zero date:</b>  |   | : 09.11.2009   |               |                        |       |                        |       |              |
| <b>Financial closure</b>   |   | : Achieved for Ph-I(1X350MW) in 07/08 and Ph-II (2X3501MW) in 08/10  |               |                        |       |                        |       |              |
| <b>Main Plant Order</b>  |   | BTG-Harbin, China, 09.11.09  |               |                        |       |                        |       |              |
| <b>BOP Package</b>   |   |  |               |                        |       |                        |       |              |
| <b>Type of fuel</b>  |   | Coal   |               |                        |       |                        |       |              |
| <b>PPA</b>   |   | PPA signed for (1000MW)  |               |                        |       |                        |       |              |
| <b>Power Evacuation system</b>   |   | Bulk Power Transmission Agreement (BTPA) with PGCIL  |               |                        |       |                        |       |              |
| <ul style="list-style-type: none"> <li>• <b>Land:</b> Required land acquired.</li> <li>• <b>MOEF:</b> Clearance obtained vide letter no.J-13011/51/20008-IA.II(T) DT.18/02/2009</li> <li>• <b>Water:</b> Allocated by GoO vide letter irr-ii-wrc-73/08/15032 dt. 15..04.20008 for 48 cusecs from Mahanadi.</li> <li>• <b>SPCB:</b> Clearance obtained for SPCB Orissa vide letter no..26748/Ind-II-NOC-5065 dt.19.12.2008</li> <li>• <b>Civil Aviation:</b> Received AAI vide letter No. AAI/20012/131/2007-AR(NOC)</li> </ul> |   |  |               |                        |       |                        |       |              |
| <b>Critical issues</b>   |   |  |               |                        |       |                        |       |              |
| <b>Reasons for Delay</b>   |   | 1.Law and order problem<br>2. Work held-up due to stay by honorable HC of Odisha. From 18.05.12 to 05/2015 |               |                        |       |                        |       |              |

**Unit-1:**

- **Boiler:** Boiler erection started on 20.06.11, structural erection started. Drum lifting may be completed after restart of work.
- **ESP:** Foundation work completed, structural erection completed upto hopper level.
- **TG:** Deck casting partially completed, Foundation of all three MDBFPs completed.

**BoPs:**

- **Chimney:** 90 mtr. Chimney shell completed.

**Note: No work is under progress presently.**

## BROAD STATUS OF THERMAL POWER PROJECTS IN WEST BENGAL

| Sl. No.                        | Project Details  | Unit  | Capacity (MW) | Commissioning Schedule |       |                              |             | Broad Status   |
|--------------------------------|--|---|---------------|------------------------|-------|------------------------------|-------------|--|
|                                |  |   |               | Original               |       | Actual(A)/ As Expected       |             |  |
|                                |  |   |               | Synch Comm             | COD   | Syn. Comm                    | COD         |  |
| <b>Private Sector</b>          |  |   |               |                        |       |                              |             |  |
| 1.                             | <b>Hiranmaye Energy TPP (3x150MW)</b><br><b>Hiranmaye Energy Limited</b><br><br><b>PO-Shibramnagar, Haldia, Dist.-Purba Medinipur-721635, West Bengal</b><br><br><b>(3 x 150 = 450 MW)</b> | 1   | 150           | 10/15<br>11/15         | 11/15 | 19/03/17 (A)<br>07/06/17 (A) | 13/08/17(A) | <p><b>Unit-1</b><br/> <b>COD achieved on 13/08/17. Full load achieved on 07/06/2017. Unit Synchronized on 19/03/17.</b></p> <ul style="list-style-type: none"> <li>• <b>Boiler:</b> Boiler erection started on 25.03.14. Drum lifted on 04.12.14. HT completed on 16/09/2015. BLU completed on 21.08.16. SBO completed 10.12.16. Unit synchronized on 19-03-17.</li> <li>• <b>TG:</b> TG erection started on 16.08.15 Box up completed on 20/05/16. TG oil flushing completed on 14.10.16. Unit synchronized on 19-03-17.</li> </ul> <p><b>Unit-2</b><br/> <b>COD achieved on 31/12/17. Full load achieved on 31/12/17. Unit Synchronized on 31/12/17.</b></p> <ul style="list-style-type: none"> <li>• <b>Boiler:</b> Boiler erection started on 25.06.14, Drum lifted in 23.02.15. 2218/2526 MT structural erection completed. HT(D) done on 16.09.16. BLU done on 10.07.17.</li> <li>• <b>ESP:</b> 2153/2158 MT structural erection completed. Hopper erection is in progress.</li> <li>• <b>TG:</b> Deck casting completed. TG erection started on 05/05/16. TG box up done 15.10.17, TG Oil Flushing done on 18.10.17.</li> </ul> <p><b>Unit-3</b></p> <ul style="list-style-type: none"> <li>• <b>Boiler:</b> Boiler erection started on 15.05.15. 1320/3274MT structural erection completed. Drum lifted on 14.01.16. Piling of 2/4 mill completed. Excavation for ID/FD/PA has completed.</li> <li>• <b>ESP:</b> Foundation completed. 567/2158 MT structural erection completed.</li> <li>• <b>TG:</b> TG deck raft casting completed. Water has logged in this area. Presently no work is going on in this site.</li> </ul> <p><b>BoPs:</b></p> <ul style="list-style-type: none"> <li>• <b>Chimney:</b> Civil work for chimney completed. Flue can erection for U#1, 2 &amp; 3 completed. Platform erection completed</li> <li>• <b>CT: IDCT-1&amp;2</b> has completed in all respect. CT#3: Pile work was in progress. Presently no work is going on in this site</li> <li>• <b>CW System:</b> CWPH building completed. All Four CW pump commissioned. Laying of CW pipe completed for all the three units. Forebay and cold water channels completed.</li> <li>• <b>CHP:</b> Structural erection and floor casting of crusher house is completed. Stacker cum reclaimers has installed. Erection of galleries from coal stack yard to TP-1&amp;2 is completed. Gallery from TP-2 to bunkers of U-1 is completed. Conveyor belt laid upto U-1 bunkers for one stream. MCC room completed.</li> <li>• <b>AHP:</b> Civil work of Ash Silo, Dewatering Bin, Ash slurry pump house, ash water pump house and control room building are completed. Construction of Slurry sump is completed. Erection of Ash water pumps and transport air compressors completed. MCC room is completed. Control room is ready.</li> <li>• <b>PT Plant:</b> Raw water reservoir completed. RGF commissioned and system is operational.</li> <li>• <b>DM plant:</b> DM plant is RO type. Erection of 2nos DM tank and 3nos. CST completed. DM plant commissioned.</li> <li>• <b>FO system:</b> 2 LDO tanks and necessary pumping system ready.</li> <li>• <b>Switch yard:</b> Structural erection of 220KV equipment in switchyard is completed in all respect.</li> <li>• <b>FGD:</b> detailing of feasibility report is under process.</li> </ul> <p><b>*Unit-3 work is totally on hold.</b></p> |
| <b>Original /Latest Cost</b>   |  | :Rs 2656.00 Cr./ Rs. 3307.00 Cr   |               |                        |       |                              |             |  |
| <b>Latest Est. Cost</b>        |  |   |               |                        |       |                              |             |  |
| Expenditure up to 2010-11      |  | Rs 107 lakh   |               |                        |       |                              |             |  |
| Expenditure during 2013-14     |  | Rs 111527 lakh  |               |                        |       |                              |             |  |
| Expenditure during 2014-15     |  | Rs 46764 lakh   |               |                        |       |                              |             |  |
| Expenditure during 2015-16     |  | Rs 86968 lakh   |               |                        |       |                              |             |  |
| Expenditure during 2016-17     |  | Rs 76130 lakh   |               |                        |       |                              |             |  |
| Expenditure during 2017-18     |  | Rs 4809 lakh  |               |                        |       |                              |             |  |
| <b>Total Expenditure</b>       |  | Rs 326305 lakhs (up to 10/17)   |               |                        |       |                              |             |  |
| <b>Approval date:</b>          |  |   |               |                        |       |                              |             |  |
| <b>Zero date:</b>              |  | 28-11-2013  |               |                        |       |                              |             |  |
| <b>Financial closure</b>       |  | Achieved on 22.12.2011 with REC   |               |                        |       |                              |             |  |
| <b>Main Plant Order</b>        |  | Placed to BHEL <b>29.09.2010</b>  |               |                        |       |                              |             |  |
| <b>BOP Package</b>             |  | Order for BOP's placed on<br>• M/s Shristi Infrastructural Development Corp. Ltd & Scorpio Engg Pvt. Ltd. for CHP on 20.12.13.<br>• M/s Shristi Infrastructural Development Corp. Ltd & Energo Engg. Project. Ltd. For AHP on 10.01.14.<br>• M/s Simplex Infrastructural Ltd. for Chimney on 09.05.12<br>• M/s Paharpur Cooling tower for CT on 24.03.14.   |               |                        |       |                              |             |  |
| <b>Type of fuel</b>            |  | Coal  |               |                        |       |                              |             |  |
| <b>PPA</b>                     |  | For 300MW with WBSEDCL  |               |                        |       |                              |             |  |
| <b>Power Evacuation system</b> |  | 220KV Transmission line of length from plant to new haldia sub-station of WBSETCL.  |               |                        |       |                              |             |  |
|                                |  | <ul style="list-style-type: none"> <li>• <b>Land:</b> Complete land acquired 213.71 acre, 198 from Haldia Development authority and rest from private.</li> <li>• <b>MoE&amp;F:</b> Clearances extended on 30.08.15 upto 12.04.2017 vide letter No. J-13213/16/2014-IA. I(T)</li> <li>• <b>Water:</b> 15 MGD water is available from Haldia Development authority.</li> <li>• <b>SPCB:</b> NOC received from GoWB.</li> <li>• <b>Coal linkage:</b> Long term coal supply agreement No: SNRL/IPC(H)L/FSA 2015-16 between M/s Swaymbhu natural resources private limited and M/s India Power Corporation (Haldia) Ltd.</li> <li>• <b>Civil Aviation:</b> NOC vide letter No.AAI/20012/82/2010-ARI(NOC) date 23.10.2010 for construction of chimney extended upto 22.06.2022.</li> </ul> |               |                        |       |                              |             |  |
| <b>Critical issues</b>         |  |   |               |                        |       |                              |             |  |
| <b>Reasons for Delay</b>       |  | Construction activity was stalled from beginning of 2011 to Sept 2014 due to following reasons:<br>1. Fresh clearance from Pollution Control Board for 3x150MW (Earlier it was acquired for 3x135MW)<br>2. MOEF moratorium for no construction activity in Haldia & Asansol industrial area in West Bengal  |               |                        |       |                              |             |  |

# North – Eastern Region

**BROAD STATUS OF THERMAL POWER PROJECTS IN ASSAM**

| Sl. No.                        | PROJECT DETAILS  | Cap (MW)      | Commissioning Schedule  |     |                             |                 | Broad Status   |
|--------------------------------|--|---------------|---|-----|-----------------------------|-----------------|--|
|                                |  |               | Original  |     | Actual(A) / As now Expected |                 |  |
|                                |  |               | Syn. comm   | COD | Syn. comm                   | COD             |  |
| <b>I COMMISSIONED PROJECTS</b> |  |               |   |     |                             |                 |  |
| <b>State Sector</b>            |  |               |   |     |                             |                 |  |
| 1.                             | <b>Lakwa Replacement Power Project Distt:Dibrugarh (Assam) APGCL</b> | <b>69.755</b> |   |     |                             |                 | <p><b><u>Gas Engine-1 &amp;GTG:</u></b><br/>Cranking and FSNL test conducted on 05.02.18 and synchronized on 10.02.18.</p> <p><b><u>Gas Engine-2 &amp;GTG:</u></b><br/>Cranking and FSNL test conducted on 05.02.18 and synchronized on 06.02.18.</p> <p><b><u>Gas Engine-3 &amp;GTG:</u></b><br/>Cranking and FSNL test conducted on 06.02.18 and synchronized on 08.02.18</p> <p><b><u>Gas Engine-4 &amp;GTG:</u></b><br/>Cranking and FSNL test conducted on 05.02.18 and synchronized on 09.02.18</p> <p><b><u>Gas Engine-5 &amp;GTG:</u></b><br/>Cranking and FSNL test conducted on 06.02.18 and synchronized on 11.02.18</p> <p><b><u>Gas Engine-6 &amp;GTG:</u></b><br/>Cranking and FSNL test conducted on 5.2.18 and synchronized on 13.02.18</p> <p><b><u>Gas Engine-7 &amp;GTG:</u></b><br/>Cranking and FSNL test conducted on 05.02.18 and synchronized on 14.02.18</p> <ul style="list-style-type: none"> <li>• 2.099 Acres of land was available with the project.</li> <li>• EPC contract was awarded to Consortium of Wartsila India Pvt Ltd and Wartsila Finland OY on 15.12.2015.</li> </ul> |
|                                | Gas Engine-1   | 9.965         |   |     | 10.02.18                    | <b>26.04.18</b> |  |
|                                | Gas Engine-2   | 9.965         |   |     | 06.02.18                    |                 |  |
|                                | Gas Engine-3   | 9.965         |   |     | 08.02.18                    |                 |  |
|                                | Gas Engine-4   | 9.965         |   |     | 09.02.18                    |                 |  |
|                                | Gas Engine-5   | 9.965         |   |     | 11.02.18                    |                 |  |
|                                | Gas Engine-6   | 9.965         |   |     | 13.02.18                    |                 |  |
|                                | Gas Engine-7   | 9.965         |   |     | 14.02.18                    |                 |  |
|                                | Date of sanction of the project                                      |               |   |     |                             |                 |  |
|                                | Project sanctioning Authority  |               | Govt of Assam   |     |                             |                 |  |
|                                | Date of Investment Approval  |               |   |     |                             |                 |  |
|                                | <b>Org. Est. cost</b>  |               | <b>Rs 26750 Lakhs</b>   |     |                             |                 |  |
|                                | <b>Latest cost</b>   |               | <b>Rs 26750 Lakhs</b>   |     |                             |                 |  |
|                                | <b>Exp. During 2015-16</b>   |               | <b>Rs 2461 Lakhs</b>  |     |                             |                 |  |
|                                | <b>Exp. During 2016-17</b>   |               | <b>Rs 10571 Lakhs</b>   |     |                             |                 |  |
|                                | <b>Exp. During 2017-18</b>   |               | <b>Rs 10109 Lakhs</b>   |     |                             |                 |  |
|                                | <b>Exp. During 2018-19 (06/18)</b>                                   |               | <b>Rs 1473 Lakhs</b>  |     |                             |                 |  |
|                                | <b>Cumulative exp. up to(06/18)</b>                                  |               | <b>Rs 24614 Lakhs</b>   |     |                             |                 |  |
|                                | Date of Main Plant Order (LOI)                                       |               | : Consortium of Wartsila India Pvt Ltd and Wartsila Finland OY ( EPC ) on M/s |     |                             |                 |  |
|                                | Zero date of the project   |               | : 15.12.2015.   |     |                             |                 |  |
|                                | Type of fuel   |               | Natural Gas   |     |                             |                 |  |
|                                | Fuel Source  |               | NA  |     |                             |                 |  |
|                                | Power Evacuation   |               | NA  |     |                             |                 |  |
|                                | <b><u>Reason for Delay:</u> NIL</b>                                  |               |   |     |                             |                 |  |
|                                | <b><u>Critical Issue:</u> NIL</b>                                    |               |   |     |                             |                 |  |

Ak-31.04.2019

| Sl. No.  | PROJECT DETAILS   | Cap (MW)     | Commissioning Schedule  |       |                                      |         | Broad Status  |
|----------|---|--------------|---|-------|--------------------------------------|---------|---|
|          |   |              | Original  |       | Actual(A) / As now Expected          |         |   |
|          |   |              | Syn. comm   | COD   | Syn. comm                            | COD     |   |
| <b>I</b> | <b>PROJECT UNDER CONSTRUCTION</b>   |              |   |       |                                      |         |   |
|          | <b>State Sector</b>   |              |   |       |                                      |         |   |
| 1.       | <b>Namrup Replacement Power Project<br/>Distt:Dibrugarh (Assam) APGCL</b> | <b>98.40</b> |   |       |                                      |         | <p><b>GT&amp;GTG:</b><br/> <b>GT synchronized on 03.01.17 and Commissioned on 11.01.17 (open cycle).</b><br/>           GT was put on barring gear on 01.03.2016 and cranking was completed on 05.08.16. FSNL achieved on 3.1.17.</p> <p><b>ST:</b><br/> <b>TG Hall roof collapsed 09.07.2018. Roof structure restoration work started. Assessment of damage to STG is being done at site. ST synchronization is likely to be delayed.</b><br/>           TG erection started in October'16. Oil Flushing was STG in progress. ST synchronization and commissioning is expected in 10/19 (Combined cycle). COD is expected in 03/19.</p> <p><b>HRSG:</b> HRSG work started in 01/12 and insulation work nearing completion. LP/IP/HP Hydro test completed. BFP no load test completed. Chemical cleaning was in progress at the time of accident</p> <ul style="list-style-type: none"> <li>• 30 Acres of land required for the project.</li> <li>• Work for erection, commissioning, PG Test and all BOPs (ordering and execution) has been allotted to M/s NBPPL (Joint venture of NTPC &amp; BHEL) on nomination basis with approval of APGCL.</li> <li>• Earlier BHEL requested for provisional time extension up to Dec., 2013. APGCL approved formal extension up to Aug., 12 and provisional extension up to 2013.</li> <li>• Main plant civil works was awarded to M/s. Ramky and work was started in 4/10.</li> <li>• BHEL/NBPPL terminated the civil contractor M/s. Ramky on 05/09/13 &amp; BHEL terminated M/s. NBPPL on 22.11.13 for their poor performance.</li> <li>• Tender for new civil contractor for balance civil work floated by BHEL on 18.12.13. Civil contract awarded on 13.03.14 to M/s Power Mech Projects &amp; work was started on 05.05.14.</li> </ul> |
|          | GT  | 62.25        | 08/11<br>09/11  | 01/12 | 03.01.17(A)<br>)<br>11.01.17(A)<br>) |         |   |
|          | ST  | 36.15        | 11/11<br>01/12  | 01/12 | 09/19<br>10/19                       | 2019-20 |   |
|          | Date of sanction of the project   |              | 17.03.2007  |       |                                      |         |   |
|          | Project sanctioning Authority   |              | Govt of Assam   |       |                                      |         |   |
|          | Date of Investment Approval   |              | 17.03.2007  |       |                                      |         |   |
|          | Org. Est. cost  |              | Rs 41100 Lakhs  |       |                                      |         |   |
|          | Latest cost   |              | Rs 69373 Lakhs  |       |                                      |         |   |
|          | Exp. During 2007-08   |              | Rs 23 Lakhs   |       |                                      |         |   |
|          | Exp. During 2008-09   |              | Rs 1816 Lakhs   |       |                                      |         |   |
|          | Exp. During 2009-10   |              | Rs 1799 Lakhs   |       |                                      |         |   |
|          | Exp. During 2010-11   |              | Rs 2159 Lakhs   |       |                                      |         |   |
|          | Exp. During 2011-12   |              | Rs 12363 Lakhs  |       |                                      |         |   |
|          | Exp. During 2012-13   |              | Rs 10640 Lakhs  |       |                                      |         |   |
|          | Exp. During 2013-14   |              | Rs 2105 Lakhs   |       |                                      |         |   |
|          | Exp. During 2014-15   |              | Rs 2005 Lakhs   |       |                                      |         |   |
|          | Exp. During 2015-16   |              | Rs 12870 Lakhs  |       |                                      |         |   |
|          | Exp. During 2016-17   |              | Rs 2950 Lakhs   |       |                                      |         |   |
|          | Exp. During 2017-18   |              | Rs 2450 Lakhs   |       |                                      |         |   |
|          | Exp. During 2018-19 (06/18)   |              | Rs 4727 Lakhs   |       |                                      |         |   |
|          | Cumulative exp. up to(06/18)  |              | Rs 58148 Lakhs  |       |                                      |         |   |
|          | Date of Main Plant Order (LOA)  |              | : 31.12.2008 ( EPC ) on M/s BHEL  |       |                                      |         |   |
|          | Zero date of the project  |              | : 09.02.2009  |       |                                      |         |   |
|          | Type of fuel  |              | Natural Gas   |       |                                      |         |   |
|          | Fuel Source   |              | Gas supply agreement made with Oil India Limited for 0.66 MMSCMD of natural gas. Gas Transportation agreement with Assam Gas Company Ltd. through existing Gas supply line to NTPS.   |       |                                      |         |   |
|          | Power Evacuation  |              | LILO to connect with the existing Namrup – Tinsukia 220 kV D/C line.  |       |                                      |         |   |
|          | <b>Critical Issue</b>   |              | - Readiness of firefighting system.<br>- TG hall roof and TG restoration.   |       |                                      |         |   |
|          | <b>Reason for Delay:</b>  |              | - Delay in start of civil work by 7 months and delay in civil work by another 7 months.<br>- Termination of civil & BoP contracts due to poor performance and re-awarded to new contractors by BHEL, failure of SFC and Power module cards.<br>- Gas Turbine & Generator bearing and Load Gear Box damaged due to power failure and DC motor failure.<br>- TG hall roof collapse. |       |                                      |         |   |

AK-31.04.2019

**LIST OF ABBREVIATIONS**

| Sl.No | Abbreviation | Description                          |
|-------|--------------|--------------------------------------|
| 1     | AHP          | Ash Handling Plant                   |
| 2     | BAH          | Bottom Ash Hopper                    |
| 3     | BFP          | Boiler Feed Pump                     |
| 4     | BG           | Barring Gear                         |
| 5     | BLU          | Boiler Lightup                       |
| 6     | BOP          | Balance of Plant                     |
| 7     | BTG          | Boiler Turbine Generator             |
| 8     | C&I          | Control & Instrumentation            |
| 9     | CF           | Coal Fire                            |
| 10    | CHP          | Coal Handling Plant                  |
| 11    | COD          | Commercial Operation Date            |
| 12    | CRH          | Cold Re Heat                         |
| 13    | CW System    | Cooling Water System                 |
| 14    | DM Plant     | De Mineralisation Plant              |
| 15    | EDTA         | Ethyle Diamine Tetraacetic Acid      |
| 16    | EPC          | Erection Procurement & Commissioning |
| 17    | ESP          | Electro Static Precipitator          |
| 18    | FC           | Financial Closure                    |
| 19    | FD Fan       | Forced Draft Fan                     |
| 20    | FGD          | Flue Gas De-sulphurisation           |
| 21    | FL           | Full Load                            |
| 22    | FO System    | Fuel Oil System                      |
| 23    | FSA          | Fuel Supply Agreement                |
| 24    | GCB          | Generator Circuit Breaker            |
| 25    | GT           | Generator Transformer                |
| 26    | HCSD         | High Concentrated Slurry Disposal    |
| 27    | HPT          | High Pressure Turbine                |
| 28    | HRH          | Hot Re Heat                          |
| 29    | HT           | Hydraulic Test                       |
| 30    | ID Fan       | Induced Draft Fan                    |
| 31    | IDCT         | Induced Draft Cooling Tower          |
| 32    | IPT          | Intermediate Pressure Turbine        |
| 33    | LOA          | Letter of Award                      |
| 34    | LPT          | Low Pressure Turbine                 |
| 35    | MDBFP        | Motor Driven Boiler Feed Pump        |
| 36    | MGR          | Merry Go Round                       |
| 37    | MOE&F        | Ministry of Environment & Forests    |
| 38    | MSL          | Main Steam Line                      |
| 39    | NDCT         | Natural Draft Cooling Tower          |
| 40    | NTP          | Notice To Proceed                    |
| 41    | PA Fan       | Primary Air Fan                      |
| 42    | PHB          | Power House Building                 |
| 43    | PPA          | Power Purchase Agreement             |
| 44    | PTP          | Pre Treatment Plant                  |
| 45    | ROW          | Right Of Way                         |
| 46    | SBO          | Steam Blowing Operation              |
| 47    | SCR          | Selective Catalytic Reduction        |
| 48    | SG           | Steam Generator                      |
| 49    | ST           | Station Transformer                  |
| 50    | SVF          | Safety Valve Floating                |
| 51    | Synch.       | Synchronisation                      |
| 52    | TDBFP        | Turbine Driven Boiler Feed Pump      |
| 53    | TG           | Turbine Generator                    |
| 54    | WT           | Wagon Tippler                        |
| 55    | WT Plant     | Water Treatment Plant                |