



देश में कार्यान्वित ताप विद्युत परियोजनाओं  
की प्रगति का पुनर्वलोकन



REVIEW OF PROGRESS OF THERMAL POWER PROJECTS  
UNDER EXECUTION IN THE COUNTRY

१६१ वाँ त्रैमासिक पुनर्वलोकन  
(अक्टूबर - दिसम्बर, २०१७)

**161<sup>th</sup> QUARTERLY REVIEW**  
(October-December, 2017)

केन्द्रीय विद्युत प्राधिकरण  
विद्युत मंत्रालय  
भारत सरकार  
नई दिल्ली

**CENTRAL ELECTRICITY AUTHORITY  
MINISTRY OF POWER  
GOVERNMENT OF INDIA  
NEW DELHI**

**जनवरी-२०१८**

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(विद्युत अधिनियम, २००३ की धारा ७३ (एफ) के तहत के.वि.प्रा. के दायित्व की पूर्णता के लिये संकलित)  
(In fulfillment of CEA's obligation under section 73(f) of Electricity)

## **FOREWORD**

Central Electricity Authority (CEA) has been bringing out Quarterly Review of the progress of works on various sanctioned thermal power projects under implementation in the country. The present Quarterly Review, 160<sup>th</sup> in the series (for the period July – September, 2017) gives the details of thermal power projects commissioned during 12<sup>th</sup> plan and quarterwise details of the Projects for the year 2017-18. This review also provides information in respect of thermal power projects under construction for commissioning beyond 2017-18.

The Quarterly Review has been brought out by CEA on the basis of data received from various project authorities, visits made by the CEA officers to various power projects and discussions held with the executing agencies and suppliers of equipment from time to time. Project authorities are requested to intimate the latest status of their projects in case the status indicated in this review has changed in any manner so that the same could be incorporated in the subsequent issue.

CEA whole-heartedly welcomes suggestions/feed back from various stake holders for further improvement in the Quarterly Review.

*done*  
*23.01.2018*  
**(Vandana Singhal)**  
**Chief Engineer (TPM-II)**

# Index

| SI.NO | CONTENTS                                                                                                                                                              | PAGE NO |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 1     | Executive Summary                                                                                                                                                     | 1-2     |
| 2     | Generation capacity addition target((RFD) /achievement for the year 2017-18<br>Bar Chart showing Thermal Capacity Addition Target/Achievement during the year 2017-18 | 3-5     |
| 3     | Year wise Thermal Capacity Addition in the Country during 12 <sup>th</sup> Plan                                                                                       | 6-14    |
| 3.1   | Thermal Projects commissioned during the year 2012-13                                                                                                                 | 6-7     |
| 3.2   | Thermal Projects commissioned during the year 2013-14                                                                                                                 | 8-9     |
| 3.3   | Thermal Projects commissioned during the year 2014-15                                                                                                                 | 10-11   |
| 3.4   | Thermal Projects commissioned during the year 2015-16                                                                                                                 | 12-13   |
| 3.5   | Thermal Projects commissioned during the year 2016-17                                                                                                                 | 14      |
| 4     | Details of Thermal Power Projects under construction in the country                                                                                                   | 15-19   |
| 5     | Thermal Power Projects visited during the quarter (October-December, 17)                                                                                              | 20      |
| 6     | Supercritical Units commissioned during 11 <sup>th</sup> Plan and beyond                                                                                              | 20-22   |
| 7     | Trend of Capacity addition as % of Total (Thermal, Hydro and Nuclear mix)                                                                                             | 23      |
| 8     | Plan/Year wise Thermal Capacity Targets / Achievements                                                                                                                | 24-25   |
| 9     | Power Generating Capacity of Thermal Units in the country since inception of 1st five year plan                                                                       | 26      |
| 9.1   | Bar Chart representing Plan wise Growth of Thermal Installed Capacity in MW                                                                                           | 26      |

## 1. Executive Summary

### 1.1 Original Targeted Capacity Addition Programme during 12<sup>th</sup> 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> |

### 1.2 Actual Achievement against Targeted Capacity Addition during 12<sup>th</sup> Plan

| Year         | Thermal Capacity Addition (Yearwise/Sectorwise) during 12th Plan (MW) |                |             |                |                |             |              |                |            |                |                 | Revised Target | % Ach          |
|--------------|-----------------------------------------------------------------------|----------------|-------------|----------------|----------------|-------------|--------------|----------------|------------|----------------|-----------------|----------------|----------------|
|              | Central                                                               |                |             |                | State          |             |              | Private        |            |                |                 |                |                |
| Year         | Thermal                                                               | Hydro          | Nuclear     | Total          | Thermal        | Hydro       | Total        | Thermal        | Hydro      | Total          | Grand Total     |                |                |
| 2012-13      | 5023.3                                                                | 374            |             | 5397.3         | 3911           | 66          | 3977         | 11187.5        | 70         | 11257.5        | 20631.8         | 15154.3        | 136.14%        |
| 2013-14      | 1660                                                                  | 914            |             | 2574           | 3322           | 45          | 3367         | 11785          | 99         | 11884          | 17825           | 15234.3        | 117.01%        |
| 2014-15      | 2659.2                                                                | 736.01         | 1000        | 4395.21        | 4886.1         | 0           | 4886.1       | 13285          | 0          | 13285          | 22566.31        | 14988.3        | 150.56%        |
| 2015-16      | 3295.6                                                                | 480            |             | 3775.6         | 6460           | 610         | 7070         | 12705          | 426        | 13131          | 23976.6         | 17346.1        | 138.22%        |
| 2016-17      | 3230.5                                                                | 80             | 1000        | 4310.5         | 3622.25        | 1555        | 5177.25      | 4698           | 24         | 4722           | 14209.75        | 13440.5        | 105.72%        |
| <b>Total</b> | <b>15868.6</b>                                                        | <b>2584.01</b> | <b>2000</b> | <b>20452.6</b> | <b>22201.4</b> | <b>2276</b> | <b>24477</b> | <b>53660.5</b> | <b>619</b> | <b>54279.5</b> | <b>99209.46</b> | <b>76163.5</b> | <b>130.26%</b> |

### 1.3 Thermal Capacity addition during 2017-18 (MW)

*As on end of Quarter-3 (31<sup>st</sup> December 2017)*

| Thermal capacity addition achieved during 2017-18 (MW) |                 |                          |
|--------------------------------------------------------|-----------------|--------------------------|
| Sector                                                 | Target (MW)     | Achievement(MW)<br>Total |
| Central                                                | 4880            | 910                      |
| State                                                  | 3546.15         | 660                      |
| Private                                                | 2940            | 1680                     |
| <b>Total</b>                                           | <b>11366.15</b> | <b>3250</b>              |
| Additional Capacity Achieved during Quarter 1          |                 |                          |
| Private                                                |                 | 540                      |
| Additional Capacity Achieved during Quarter 2          |                 |                          |
| Private                                                |                 | 510                      |
| Additional Capacity Achieved during Quarter 3          |                 |                          |
| Nil                                                    |                 |                          |
| <b>Grand Total</b>                                     |                 | <b>4300</b>              |

### 1.4 Summary of Super Critical and Sub Critical Units under construction in the country

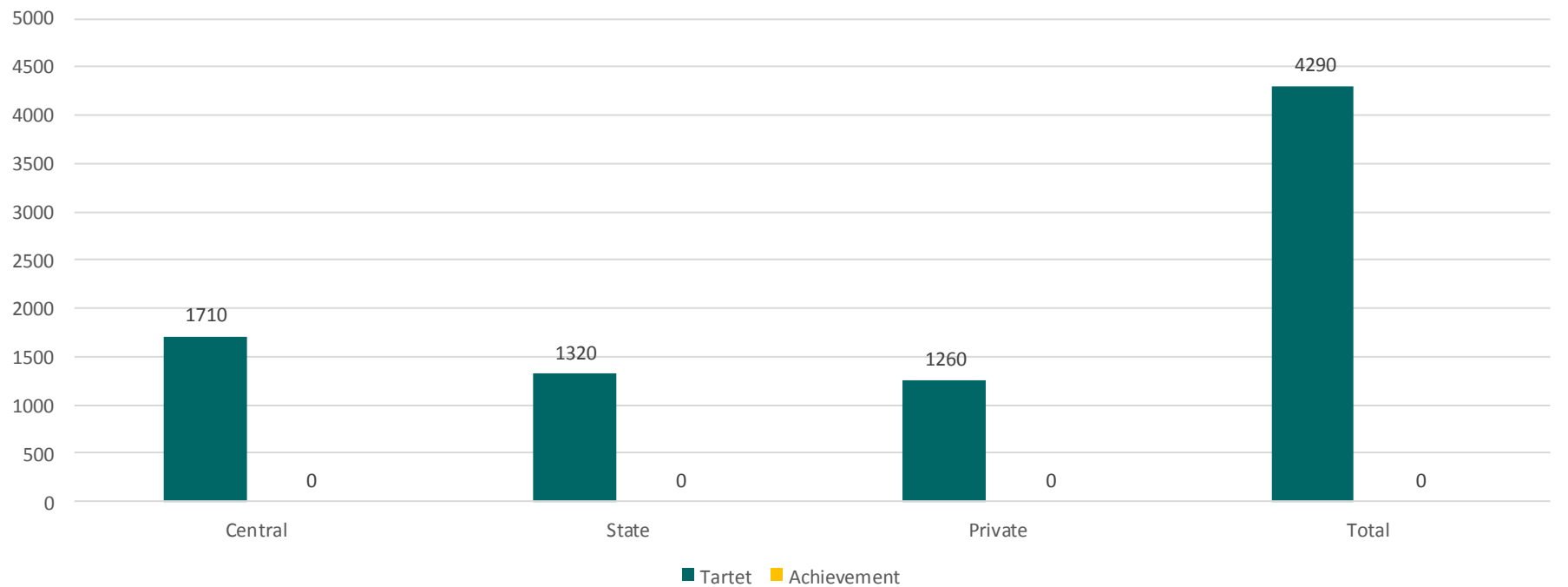
|              | Super Critical(MW) | Sub-Critical(MW) | Total(MW)       | Super Critical<br>Units | Sub Critical<br>Units |
|--------------|--------------------|------------------|-----------------|-------------------------|-----------------------|
| Central      | 19740              | 2250             | 21990           | 28                      | 7                     |
| State        | 15500              | 2586.15          | 18086.15        | 22                      | 9                     |
| Private      | 9240               | 16545            | 25785           | 14                      | 45                    |
| <b>Total</b> | <b>44480</b>       | <b>21381.15</b>  | <b>65871.15</b> | <b>64</b>               | <b>61</b>             |

## 2. GENERATION CAPACITY ADDITION TARGET (RFD) /ACHEIVEMENT FOR THE YEAR 2017-18

|   | State                 | Project Name                | Impl Agency                   | Unit No. | Targeted Cap. (MW) | Q1         |            | Q2          |          | Q3          |   | Q4            |   | Anti. Comm Date at beginning of year | Anti. Comm Date (At present) | Actual Date of Comm | Capacity Achieved (MW) |
|---|-----------------------|-----------------------------|-------------------------------|----------|--------------------|------------|------------|-------------|----------|-------------|---|---------------|---|--------------------------------------|------------------------------|---------------------|------------------------|
|   |                       |                             |                               |          |                    | T          | A          | T           | A        | T           | A | T             | A |                                      |                              |                     |                        |
|   | <b>CENTRAL SECTOR</b> |                             |                               |          |                    |            |            |             |          |             |   |               |   |                                      |                              |                     |                        |
| 1 | Assam                 | Bongaigaon TPP              | NTPC                          | 3        | 250                |            |            |             |          | 250         |   |               |   | Dec-17                               | Mar-18                       |                     |                        |
| 2 | Bihar                 | Nabi Nagar TPP              | JV of NTPC & Rly              | 2        | 250                | 250        | 250        |             |          |             |   |               |   | Apr-17                               | -                            | 03.04.17            | 250.00                 |
| 3 | Bihar                 | New Nabi Nagar TPP          | JV of NTPC & BSPGCL           | 1        | 660                |            |            | 660         |          |             |   |               |   | Aug-17                               | Mar-18                       |                     |                        |
| 4 | Chhattisgarh          | Lara TPP                    | NTPC                          | 1        | 800                |            |            |             |          | 800         |   |               |   | Oct-17                               | Mar-18                       |                     |                        |
| 5 | Karnataka             | Kudgi STPP Ph-I             | NTPC                          | 3        | 800                |            |            | 800         |          |             |   |               |   | Aug-17                               | Feb-18                       |                     |                        |
| 6 | MP                    | Gadarwara STPP, St-I        | NTPC                          | 1        | 800                |            |            |             |          |             |   | 800           |   | Jan-18                               | Jan-18                       |                     |                        |
| 7 | Maharashtra           | Solapur STPP                | NTPC                          | 1        | 660                | 660        | 660        |             |          |             |   |               |   | Apr-17                               | -                            | 07.04.17            | 660.00                 |
| 8 | UP                    | Meja STPP                   | JV of NTPC & UPRVUNL          | 1        | 660                |            |            |             |          | 660         |   |               |   | Oct-17                               | Jun-18                       |                     |                        |
|   |                       | <b>TOTAL CENTRAL SECTOR</b> |                               |          | <b>4880</b>        | <b>910</b> | <b>910</b> | <b>1460</b> | <b>0</b> | <b>1710</b> |   | <b>800</b>    |   |                                      |                              |                     | <b>910.00</b>          |
|   | <b>STATE SECTOR</b>   |                             |                               |          |                    |            |            |             |          |             |   |               |   |                                      |                              |                     |                        |
| 1 | AP                    | Royal seema TPP             | APGENCO                       | 6        | 600                |            |            | 600         |          |             |   |               |   | Aug-17                               | Feb-18                       |                     |                        |
| 2 | Assam                 | Namrup                      | APGCL                         | ST       | 36.15              |            |            |             |          |             |   | 36.15         |   | Feb-18                               | Mar-18                       |                     |                        |
| 3 | MP                    | Shree Singaji TPP, St-II    | MPPGCL                        | 3        | 660                |            |            |             |          | 660         |   |               |   | Dec-17                               | Jun-18                       |                     |                        |
| 4 | Rajasthan             | Suratgarh TPS               | RRVUNL                        | 7        | 660                |            |            |             |          | 660         |   |               |   | Nov-17                               | Feb-18                       |                     |                        |
| 5 | Rajasthan             | Chhabra SCTPP               | RRVUNL                        | 5        | 660                | 660        | 660        |             |          |             |   |               |   | Apr-17                               | -                            | 04.04.17            | 660.00                 |
| 6 | Rajasthan             | Chhabra SCTPP               | RRVUNL                        | 6        | 660                |            |            |             |          |             |   | 660           |   | Jan-18                               | Feb-18                       |                     |                        |
| 7 | Telangana             | Bhadradi TPP                | TGENCO                        | 1        | 270                |            |            |             |          |             |   | 270           |   | Mar-18                               | May-18                       |                     |                        |
|   |                       | <b>TOTAL STATE SECTOR</b>   |                               |          | <b>3546.15</b>     | <b>660</b> | <b>660</b> | <b>600</b>  | <b>0</b> | <b>1320</b> |   | <b>966.15</b> |   |                                      |                              |                     | <b>660.00</b>          |
|   | <b>PRIVATE SECTOR</b> |                             |                               |          |                    |            |            |             |          |             |   |               |   |                                      |                              |                     |                        |
| 1 | Chhattisgarh          | Akaltara (Naiyara) TPP      | KSK Mahandi Power Company Ltd | 3        | 600                |            |            |             |          | 600         |   |               |   | Nov-17                               | Jan-18                       |                     |                        |

|   | State                            | Project Name                    | Impl Agency                              | Unit No. | Targeted Cap. (MW) | Q1       |      | Q2   |      | Q3  |      | Q4 |        | Anti. Comm Date at beginning of year | Anti. Comm Date (At present) | Actual Date of Comm | Capacity Achieved (MW) |
|---|----------------------------------|---------------------------------|------------------------------------------|----------|--------------------|----------|------|------|------|-----|------|----|--------|--------------------------------------|------------------------------|---------------------|------------------------|
|   |                                  |                                 |                                          |          |                    | T        | A    | T    | A    | T   | A    | T  | A      |                                      |                              |                     |                        |
| 2 | Chhattisgarh                     | Binjkote TPP                    | SKS Power Generation ( Chhattisgarh) Ltd | 1        | 300                | 300      | 300  |      |      |     |      |    |        | May-17                               | -                            | 25.04.17            | 300.00                 |
| 3 | Chhattisgarh                     | Nawapara TPP                    | TRN Energy                               | 2        | 300                | 300      | 300  |      |      |     |      |    |        | May-17                               | -                            | 18.04.17            | 300.00                 |
| 4 | Chhattisgarh                     | Lanco Amarkantak TPS-II         | LAP Pvt. Ltd.                            | 3        | 660                |          |      |      |      | 660 |      |    |        | Nov-17                               | Mar-18                       |                     |                        |
| 5 | Maharashtra                      | Nasik TPP Ph-I                  | RattanIndia Nasik Power Ltd              | 3        | 270                | 270      | 270  |      |      |     |      |    |        | May-17                               | -                            | 14.04.17            | 270.00                 |
| 6 | UP                               | Bara TPP                        | Prayagraj Power Generation Co.Ltd.       | 3        | 660                |          | 660  | 660  |      |     |      |    |        | Aug-17                               | -                            | 22.05.17            | 660.00                 |
| 7 | WB                               | India Power TPP ( Haldia),      | Indian Energy Ltd ( Haldia)              | 1        | 150                | 150      | 150  |      |      |     |      |    |        | Apr-17                               | -                            | 07.06.17            | 150.00                 |
|   |                                  | TOTAL PRIVATE SECTOR            |                                          |          |                    | 2940     | 1020 | 1680 | 660  | 0   | 1260 |    | 0      |                                      |                              |                     | 1680.00                |
|   | ADDITIONAL PROJECTS COMMISSIONED |                                 |                                          |          |                    |          |      |      |      |     |      |    |        |                                      |                              |                     |                        |
|   | PRIVATE SECTOR                   |                                 |                                          |          |                    |          |      |      |      |     |      |    |        |                                      |                              |                     |                        |
| 1 | Maharashtra                      | Nasik TPP Ph-I                  | RattanIndia Nasik Power Ltd              | 4        |                    |          | 270  |      |      |     |      |    |        |                                      |                              | 19.05.17            | 270.00                 |
| 2 | Maharashtra                      | Nasik TPP Ph-I                  | RattanIndia Nasik Power Ltd              | 5        |                    |          | 270  |      |      |     |      |    |        |                                      |                              | 30.05.17            | 270.00                 |
| 3 | Chhattisgarh                     | Uchpinda TPP                    | RKM Powergen Pvt.Ltd.                    | 3        |                    |          |      |      | 360  |     |      |    |        |                                      |                              | 12.09.17            | 360.00                 |
| 4 | Maharashtra                      | Shirpur TPP                     | Shirpur Power Pvt. Ltd.                  | 1        |                    |          |      |      | 150  |     |      |    |        |                                      |                              | 28.09.17            | 150.00                 |
|   |                                  | TOTAL ADDITIONAL PRIVATE SECTOR |                                          |          |                    |          | 0    | 540  | 0    | 510 | 0    |    | 0      |                                      |                              |                     | 1050.00                |
|   |                                  | TOTAL THERMAL CAPACITY          |                                          |          |                    | 11366.15 | 2590 | 3790 | 2720 | 510 | 4290 |    | 1766.2 |                                      |                              |                     | 4300.00                |

**(MW) THERMAL GENERATION CAPACITY ADDITION TARGET/ACHIEVMENT FOR THE YEAR  
2017-18  
(Q 3)**



### 3. Year wise details of Thermal Projects commissioned during 12<sup>th</sup> Plan

#### 3.1 Thermal Projects commissioned during 2012-13

| S.No                  | Project Name & Unit No./<br>Implementing Agency | Capacity<br>( MW) | Date of<br>Commissioning |
|-----------------------|-------------------------------------------------|-------------------|--------------------------|
| <b>Central Sector</b> |                                                 |                   |                          |
| 1                     | Mouda TPP, U-1, NTPC                            | 500               | 19.04.12                 |
| 2                     | Rihand STPS-III, U-5, NTPC                      | 500               | 25.05.12                 |
| 3                     | Sipat TPP, U-3, NTPC                            | 660               | 02.06.12                 |
| 4                     | Vindhyachal U – 11, NTPC                        | 500               | 14.06.12                 |
| 5                     | Indira Gandhi TPP, U-3, NTPC                    | 500               | 07.11.12                 |
| 6                     | Koderma U-2, DVC                                | 500               | 15.02.13                 |
| 7                     | Tripura Gas Model-1, ONGC                       | 363.3             | 03.01.13                 |
| 8                     | Vallur TPP Ph-I, U-2, NTECL                     | 500               | 28.02.13                 |
| 9                     | Vindhyachal U – 12, NTPC                        | 500               | 22.03.13                 |
| 10                    | Mouda TPP, U-2, NTPC                            | 500               | 29.03.13                 |
|                       | <b>Total Central Sector</b>                     | <b>5023.3</b>     |                          |
| <b>State Sector</b>   |                                                 |                   |                          |
| 11                    | Parichha Extn., U-5, UPRVUNL                    | 250               | 24.05.12                 |
| 12                    | Harduaganj, U-9, UPRVUNL                        | 250               | 25.05.12                 |
| 13                    | Pragati CCGT - III , GT-3, PPCL                 | 250               | 27.06.12                 |
| 14                    | Mettur TPP Extn. U-1                            | 600               | 11.10.12                 |
| 15                    | Ukai TPP, U-6, GSECL                            | 500               | 05.03.13                 |
| 16                    | North Chennai Extn., U-2, TNEB                  | 600               | 09.03.13                 |
| 17                    | Parichha Extn., U-6, UPRVUNL                    | 250               | 11.03.13                 |
| 18                    | Ramgarh GT, RRVUNL                              | 110               | 20.03.13                 |
| 19                    | Korba West Extn., St.III TPP, CSEB              | 500               | 22.03.13                 |
| 20                    | Satpura TPS Extn., U-10, MPPGCL                 | 250               | 22.03.13                 |
| 21                    | Pipavav CCPP, Block-2, GSECL                    | 351               | 27.03.13                 |
|                       | <b>Total State Sector</b>                       | <b>3911</b>       |                          |

| <b>Private Sector</b> |                                                             |                           |                                  |
|-----------------------|-------------------------------------------------------------|---------------------------|----------------------------------|
| <b>S.No</b>           | <b>Project Name &amp; Unit No./<br/>Implementing Agency</b> | <b>Capacity<br/>( MW)</b> | <b>Date of<br/>Commissioning</b> |
| 22                    | Jhajjar TPS(Mahatma Gandhi TPP), U-2, CLP Power             | 660                       | 11.04.12                         |
| 23                    | Sterlite TPP, U-4, Sterlite Energy                          | 600                       | 25.04.12                         |
| 24                    | GEPL TPP, U-2, GEPL                                         | 60                        | 28.04.12                         |
| 25                    | Salaya TPP, U-2, Essar Power                                | 600                       | 13.06.12                         |
| 26                    | Kasaipalli TPS, U-2, ACB India                              | 135                       | 21.06.12                         |
| 27                    | Simhadri TPP Ph-I, U-2 Madhucon                             | 150                       | 02.07.12                         |
| 28                    | Mundra UMPP, U-2, Tata Power Co.                            | 800                       | 25.07.12                         |
| 29                    | Bina TPP, U-1, Bina Power Ltd,                              | 250                       | 12.08.12                         |
| 30                    | Butibori TPP, U-1, Vidharba Ind. Ltd                        | 300                       | 17.08.12                         |
| 31                    | Thamminapatnam TPP, U-1, MEPL                               | 150                       | 09.09.12                         |
| 32                    | Tirora TPP, U-1, Adani Power Ltd.                           | 660                       | 11.09.11                         |
| 33                    | GEPL TPP, U-1, GEPL                                         | 60                        | 08.09.12                         |
| 34                    | Mundra UMTTP, U-3, Tata Power Co.                           | 800                       | 16.10.12                         |
| 35                    | Mahadev Pd. TPP U-1, Adhunik Power Co. Ltd.                 | 270                       | 19.11.12                         |
| 36                    | Mundra UMTTP, U-4, Tata Power Co.                           | 800                       | 16.01.13                         |
| 37                    | Uno Sugan CCPP, Mod-1,Torrent Power Ltd                     | 382.5                     | 20.01.13                         |
| 38                    | Ratija TPP, U-1, SCPL                                       | 50                        | 04.02.13                         |
| 39                    | Jallip-Kapurdi TPP, U-5, Raj West Power Ltd.                | 135                       | 05.02.13                         |
| 40                    | EMCO Warora TPP, U-1, EMCO Energy Ltd,<br>(GMR)             | 300                       | 07.02.13                         |
| 41                    | Mahan TPP, U-1, Essar Power Ltd.                            | 600                       | 24.02.13                         |
| 42                    | Jallip-Kapurdi TPP, U-8, Raj West Power Ltd.                | 135                       | 28.02.13                         |
| 43                    | Jallip-Kapurdi TPP, U-6, Raj West Power Ltd.                | 135                       | 03.03.13                         |
| 44                    | Tuticorin TPP, U-1. Ind Barath                              | 150                       | 10.03.13                         |
| 45                    | Jallip-Kapurdi TPP, U-7, Raj West Power Ltd.                | 135                       | 16.03.13                         |
| 46                    | Mundra UMTTP, U-5, Tata Power Co.                           | 800                       | 18.03.13                         |
| 47                    | Bela TPP-I, U-1, IEPL                                       | 270                       | 20.03.13                         |
| 48                    | Tirora TPP, U-2, Adani Power Ltd.                           | 660                       | 25.03.13                         |
| 49                    | Amravathi TPP, U-1,Indiabulls                               | 270                       | 25.03.13                         |
| 50                    | Kamalanga TPP, U-1, GMR                                     | 350                       | 28.03.13                         |
| 51                    | Mahadev Pd. TPP U-2, Adhunik Power Co. Ltd.                 | 270                       | 29.03.13                         |
| 52                    | Bina TPP, U-2, Bina Power Ltd,                              | 250                       | 31.03.13                         |
|                       | <b>Total Private Sector</b>                                 | <b>11187.5</b>            |                                  |
|                       | <b>Total Thermal Capacity Addition in 2012-13</b>           | <b>20121.8</b>            |                                  |

### 3.2 . Thermal Projects Commissioned during 2013-14

| S.No                  | Project Name & Unit No./<br>Implementing Agency                     | Capacity<br>( MW) | Date of<br>Commissioning | Remarks    |
|-----------------------|---------------------------------------------------------------------|-------------------|--------------------------|------------|
| <b>Central Sector</b> |                                                                     |                   |                          |            |
| 1                     | Rihand STPP St-III, U-6, NTPC                                       | 500               | 07.10.13                 | RFD        |
| 2                     | Barh STPP St-II, U-4, NTPC                                          | 660               | 30.11.13                 | RFD        |
| 3                     | Vallur TPP Ph-I, NTPC                                               | 500               | 28.02.14                 | RFD        |
|                       | <b>Total Central Sector</b>                                         | <b>1660</b>       |                          |            |
| <b>State Sector</b>   |                                                                     |                   |                          |            |
| 4                     | Pragati CCGT - III , GT-4, PPCL                                     | 250               | 07.05.13                 | RFD        |
| 5                     | Rokhia CCPP, GT-9, Govt. Of Tripura                                 | 21                | 13.08.13                 | Additional |
| 6                     | North Chennai TPP Extn U-1, TNEB                                    | 600               | 13.09.13                 | RFD        |
| 7                     | Chhabra TPP Ext U-3, RRVUNL                                         | 250               | 14.09.13                 | RFD        |
| 8                     | Shree Singhaji (Malwa) TPP, U-1, MPPGCL                             | 600               | 18.11.13                 | RFD        |
| 9                     | Satpura TPS Ext, U-11, MPPGCL                                       | 250               | 25.12.13                 | RFD        |
| 10                    | Pipavav JV CCGT, Block-I, GSECL                                     | 351               | 05.02.14                 | RFD        |
| 11                    | Pragati CCGT-III, ST-2, PPCL                                        | 250               | 26.02.14                 | RFD        |
| 12                    | Marwa TPP, Unit-1, CSEB                                             | 500               | 30.03.14                 | RFD        |
| 13                    | Durgapur TPS Extn., U – 8, DPL                                      | 250               | 31.03.14                 | Additional |
|                       | <b>Total State Sector</b>                                           | <b>3322</b>       |                          |            |
| <b>Private Sector</b> |                                                                     |                   |                          |            |
| 14                    | Thaminapatnam TPP Phase-I, U-2, Meenakshi Energy Pvt. Ltd           | 150               | 17.04.13                 | RFD        |
| 15                    | Kawai TPP, U-1, Adani Power                                         | 660               | 30.05.13                 | Additional |
| 16                    | Sasan UMPP, U-3, Reliance Power                                     | 660               | 25.05.13                 | RFD        |
| 17                    | Tirora TPP, Phase-II, U-1, Adani Power                              | 660               | 10.06.13                 | RFD        |
| 18                    | Akaltara TPP, U-1, Wardha PCL(KSK)                                  | 600               | 13.08.13                 | RFD        |
| 19                    | EMCO Warora TPP U-2, GMR EMCO Energy Ltd                            | 300               | 27.08.13                 | RFD        |
| 20                    | Kamalanga TPP, U-2, GMR                                             | 350               | 28.09.13                 | RFD        |
| 21                    | Dhariwal Infrastructure TPP, U-1, Dhariwal Infrastructure (P), Ltd. | 300               | 03.11.13                 | RFD        |
| 22                    | Niwati TPP, U-1, BLA Power LTD                                      | 45                | 01.12.13                 | Additional |
| 23                    | Sasan UMPP, U-2, Reliance Power                                     | 660               | 20.12.13                 | RFD        |
| 24                    | Kawai TPP, U-2, Adani Power Rajasthan Ltd                           | 660               | 24.12.13                 | Additional |

| S.No | Project Name & Unit No./<br>Implementing Agency        | Capacity<br>( MW) | Date of<br>Commissioning | Remarks    |
|------|--------------------------------------------------------|-------------------|--------------------------|------------|
| 25   | Tuticorin TPP, U-2. Ind Barath                         | 150               | 30.12.13                 | Additional |
| 26   | Degen CCPP, Block-I, Torrent Power                     | 400               | 12.01.14                 | Additional |
| 27   | Rajpura TPP, U-1, Nabha Power                          | 700               | 24.01.13                 | Additional |
| 28   | Amravati TPP Ph-I, U-2, India Bulls Power Ltd          | 270               | 17.02.14                 | Additional |
| 29   | Simhapuri TPS Ph-II, U-3, Simhapuri Energy Pvt Ltd     | 150               | 21.02.14                 | Additional |
| 30   | DB Power TPP, Unit-1, DB Power Ltd                     | 600               | 23.02.14                 | RFD        |
| 31   | Nasik TPP Ph-I, U-1, India Bulls Power Ltd             | 270               | 25.02.14                 | RFD        |
| 32   | Degan CCPP, Block-3, Torrent Power                     | 400               | 09.03.14                 | Additional |
| 33   | Tamnar TPP, U-1, Jindal Power                          | 600               | 10.03.14                 | RFD        |
| 34   | Kamalang TPP, U-3, GMR Energy                          | 350               | 21.03.14                 | Additional |
| 35   | Tirora TPP Ph-II, U-2, Adani Power                     | 660               | 23.03.14                 | Additional |
| 36   | Sasn UMPP, U-4, reliance Power                         | 660               | 25.03.14                 | Additional |
| 37   | Chakabura TPP, U-1, ACBIL                              | 30                | 28.03.14                 | Additional |
| 38   | Tamnar TPP, U-2, Jindal Power                          | 600               | 30.03.14                 | Additional |
| 39   | Avantha Bhandar TPP, U-1, KWPCCL                       | 600               | 31.03.14                 | Additional |
| 40   | Butibori TPP Ph-I, U-2, Vidarbha Industries Power Ltd. | 300               | 31.03.14                 | Additional |
|      | <b>Total Private Sector</b>                            | <b>11785</b>      |                          |            |
|      | <b>Total Thermal Capacity Addition in 2013-14</b>      | <b>16767</b>      |                          |            |

### 3.3 Thermal Projects Commissioned during 2014-15

| S. No                 | Project Name & Unit No./<br>Implementing Agency                 | Capacity<br>( MW) | Date of<br>Commissioning | Remarks    |
|-----------------------|-----------------------------------------------------------------|-------------------|--------------------------|------------|
| <b>Central Sector</b> |                                                                 |                   |                          |            |
| 1                     | Raghunathpur TPP Phase-I, Unit-1, DVC                           | 600               | 24.08.14                 | RFD        |
| 2                     | Palatana CCPP, Block-2, OTPC (JV of ILFS, ONGC & Tripura Govt.) | 363.3             | 16.11.14                 | RFD        |
| 3                     | Neyveli TPS-II Exp. , U-2, NLC                                  | 250               | 24.01.15                 | Additional |
| 4                     | Barh STPP-II, Unit-5, NTPC                                      | 660               | 04.03.15                 | RFD        |
| 5                     | Tuticorin JV, U-1, NTPL ( JV- NLC & TANGEDCO)                   | 500               | 10.03.15                 | RFD        |
| 6                     | Agartala CCPP, ST-1, NEEPCO                                     | 25,5              | 22.03.15                 | Additional |
| 7                     | Monarchak CCPP, GT, NEEPCO                                      | 65,4              | 30.03.15                 | Additional |
| 8                     | Muzaffarpur TPP Exp ,U-3, JV - NTPC & BSEB                      | 195               | 31.03.15                 | RFD        |
|                       | <b>Total Central Sector</b>                                     | <b>2659.2</b>     |                          |            |
| <b>State Sector</b>   |                                                                 |                   |                          |            |
| 9                     | Ramgarh CCPP, ST, RRVUNL                                        | 50                | 01.05.14                 | RFD        |
| 10                    | Kalisindh TPP, Unit-1, RRVUNL                                   | 600               | 02.05.14                 | RFD        |
| 11                    | Dhuvraan CCPP, Unit – 1, GSECL                                  | 376.1             | 21.05.14                 | Additional |
| 12                    | Chhabra TPP, U-4, RRVUNL                                        | 250               | 30.06.14                 | RFD        |
| 13                    | Damodaran Sanjeevaiah TPP, U-1, APPDCL                          | 800               | 28.08.14                 | RFD        |
| 14                    | Malwa (Shree Singaji) TPP, Unit-2, MPPGCL                       | 600               | 15.10.14                 | RFD        |
| 15                    | Damodaran Sanjeevaiah TPP, U-2, APPDCL                          | 800               | 17.03.15                 | RFD        |
| 16                    | Sikka TPP Extn. (SS), U-3, GSECL                                | 250               | 29.03.15                 | Additional |
| 17                    | Chandrapur TPS , U-8, MSPGCL                                    | 500               | 29.03.15                 | RFD        |
| 18                    | Koradi TPP Expn., U-8, MSPGCL                                   | 660               | 30.03.15                 | RFD        |
|                       | <b>Total of State Sector</b>                                    | <b>4886.1</b>     |                          |            |
| <b>Private Sector</b> |                                                                 |                   |                          |            |
| 19                    | SaloraTPP, U-1, Vandana Vidyut Ltd                              | 135               | 10.04.14                 | RFD        |
| 20                    | D gen CCPP, Block - 2, Torrent Power                            | 400               | 23.04.14                 | Additional |
| 21                    | Derang TPP, U- 1, JPL                                           | 600               | 10.05.14                 | RFD        |

| S. No | Project Name & Unit No./<br>Implementing Agency   | Capacity<br>( MW) | Date of<br>Commissioning | Remarks    |
|-------|---------------------------------------------------|-------------------|--------------------------|------------|
| 22    | Sasan UMPP, U-1, SPL                              | 660               | 21.05.14                 | Additional |
| 23    | Dhariwal TPP, U-2, Dhariwal Industries Ltd        | 300               | 28.05.14                 | RFD        |
| 24    | Talwandi Sabo TPP U - 1, Sterlite                 | 660               | 17.06.14                 | RFD        |
| 25    | Rajpura TPP, U-2, Nabha Power Ltd.                | 700               | 06.07.14 `               | RFD        |
| 26    | Akaltara TPP, U-2, ASK                            | 600               | 22.08.14                 | Additional |
| 27    | Sasan UMPP, U-5, SPL                              | 660               | 24.08.14                 | Additional |
| 28    | Nigrie TPP, U-1, JPVL                             | 660               | 29.08.14                 | Additional |
| 29    | Tirora TPP Phase-II, APMPL                        | 660               | 25.09.14                 | Additional |
| 30    | Mutiara TPP, U-1, Coastal Energen                 | 600               | 02.12.14                 | Additional |
| 31    | Tamnar (TPP) Raigarh, U-3, Jindal Power           | 600               | 07.01.15                 | Additional |
| 32    | Haldia TPP-I, Unit-1, M/s Haldia Energy Ltd.      | 300               | 14.01.15                 | RFD        |
| 33    | Derang TPP, U- 2, JPL                             | 600               | 24.01.15                 | Additional |
| 34    | Amravati TPP Ph-I, Unit-3, India Bulls            | 270               | 29.01.15                 | RFD        |
| 35    | Painampuram TPP, U-1, Thermal Power Tech Corp.Ltd | 660               | 07.02.15                 | RFD        |
| 36    | Haldia TPP-I, Unit-2, M/s Haldia Energy Ltd.      | 300               | 16.02.15                 | Additional |
| 37    | Nigrie TPP, U-2, JPVL                             | 660               | 17.02.15                 | Additional |
| 38    | Raikheda TPP, U-1, GMR Chhattisgarh               | 685               | 27.02.15                 | Additional |
| 39    | Amravati TPP Ph-I, Unit-4, India Bulls            | 270               | 04.03.15                 | Additional |
| 40    | Simhapuri Ph-II,U-4, Simhapuri Energy Power Ltd   | 150               | 06.03.15                 | Additional |
| 41    | Amravati TPP Ph-I, Unit-5, India Bulls            | 270               | 12.03.15                 | Additional |
| 42    | Sasan UMPP, U-6, SPL                              | 660               | 19.03.15                 | Additional |
| 43    | Badadarha TPP, U-2, D.B.Power Ltd.                | 600               | 24.03.15                 | Additional |
| 44    | Tamnar (TPP) Raigarh, U-4, Jindal Power           | 600               | 26.03.15                 | Additional |
| 45    | Swastic Korba, Unit-1, ACB India Ltd.             | 25                | 31.03.15                 | RFD        |
|       | <b>Total Private Sector</b>                       | <b>13285</b>      |                          |            |
|       | <b>Total Thermal Capacity Addition in 2014-15</b> | <b>20830.3</b>    |                          |            |

### 3.4 Thermal Projects Commissioned during 2015-16

| S.No                  | Project Name & Unit No./<br>Implementing Agency                | Capacity<br>( MW) | Date of<br>Commissioning | Remarks    |
|-----------------------|----------------------------------------------------------------|-------------------|--------------------------|------------|
| <b>Central Sector</b> |                                                                |                   |                          |            |
| 1                     | Bongaigaon TPP, Unit-1, NTPC                                   | 250               | 22.06.15                 | RFD        |
| 2                     | Tuticorin TPP, Unit-2, NLC                                     | 500               | 09.07.15                 | RFD        |
| 3                     | Vindhyachal TPP-V, Unit-13, NTPC                               | 500               | 06.08.15                 | RFD        |
| 4                     | Monarchak CCPP, ST, NEEPCO                                     | 35.6              | 14.01.16                 | RFD        |
| 5                     | Raghunathpur TPP-I, Unit-2, DVC                                | 600               | 18.01.16                 | RFD        |
| 6                     | Nabi Nagar TPP, Unit-1, NTPC                                   | 250               | 20.03.16                 | Additional |
| 7                     | Bokaro TPS 'A' Extn., Unit-1, DVC                              | 500               | 22.03.16                 | Additional |
| 8                     | Mouda STPP-II, Unit-3, NTPC                                    | 660               | 28.03.16                 | Additional |
|                       | <b>Total Central Sector</b>                                    | <b>3295.6</b>     |                          |            |
| <b>State Sector</b>   |                                                                |                   |                          |            |
| 9                     | Kalisindh TPP, Unit-1, RRVUNL                                  | 600               | 06.06.15                 | RFD        |
| 10                    | Anpara-D TPS, Unit- 6, UPRVUNL                                 | 500               | 06.06.15                 | RFD        |
| 11                    | Sikka TPS, Unit-4, GSECL                                       | 250               | 25.09.15                 | RFD        |
| 12                    | Sagardighi TPS Ext., Unit-3, WBPDC                             | 500               | 14.12.15                 | RFD        |
| 13                    | Kakatia TPS Extn., Unit-1, TGENCO                              | 600               | 31.12.15                 | RFD        |
| 14                    | Bellary TPS St-III, Unit-1, KPCL                               | 700               | 01.03.16                 | RFD        |
| 15                    | Anpara-D TPS, Unit- 7, UPRVUNL                                 | 500               | 06.03.16                 | RFD        |
| 16                    | Singareni TPP, Unit-1, Singareni Collieries                    | 600               | 13.03.16                 | RFD        |
| 17                    | Koradi TPS Extn, Unit-9, MSPGL                                 | 660               | 15.03.16                 | RFD        |
| 18                    | Chandrapur TPS, Unit-9, MSPGL                                  | 500               | 21.03.16                 | RFD        |
| 19                    | Yermarus TPP, Unit-1, KPCL                                     | 800               | 29.03.16                 | RFD        |
| 20                    | Parli TPS, Unit-8, MSPGL                                       | 250               | 30.03.16                 | RFD        |
|                       | <b>Total of State Sector</b>                                   | <b>6460</b>       |                          |            |
| <b>Private Sector</b> |                                                                |                   |                          |            |
| 21                    | Anuppur TPP Ph-I, Unit-1, MB Power(MP)                         | 600               | 20.04.15                 | RFD        |
| 22                    | BALCO TPP, Unit-1, BALCO Pvt Ltd                               | 300               | 05.06.15                 | RFD        |
| 23                    | Bandakhar TPP, Unit-1, M/s Maruti Clean<br>(Chhattisgarh) Ltd. | 300               | 19.06.15                 | RFD        |

| S.No | Project Name & Unit No./<br>Implementing Agency                                          | Capacity<br>( MW) | Date of<br>Commissioning | Remarks    |
|------|------------------------------------------------------------------------------------------|-------------------|--------------------------|------------|
| 24   | Lanco Kondapalli Extn., Ph-III(PS), Block-I,<br>Lanco Kondapalli Power Co. Ltd. (LKPCL). | 371               | 07.08.15                 | Additional |
| 25   | Painampuram TPP, Unit-2, M/s. Thermal<br>Power Tech Corporation Ltd.                     | 660               | 03.09.15                 | RFD        |
| 26   | Lanco Kondapalli Extn., Ph-III(PS), Block-II,<br>LKPCL                                   | 371               | 05.09.15                 | Additional |
| 27   | Vemagiri CCPP-II (PS), Block-I, GMR<br>Rajamundry Energy Ltd.                            | 384               | 12.09.15                 | Additional |
| 28   | ITPCL TPP, Unit-1, IL&FS TNPC Ltd.                                                       | 600               | 19.09.15                 | Additional |
| 29   | Vemagiri CCPP-II (PS), Block-I, GMR<br>Rajamundry Energy Ltd.                            | 384               | 05.10.15                 | Additional |
| 30   | Uchpinda TPP, Unit-1, RKM Powergen Co                                                    | 360               | 28.10.15                 | RFD        |
| 31   | Talwandi Sabo TPP, Unit-2, Tal. Sabo Power                                               | 660               | 30.10.15                 | RFD        |
| 32   | Prayagraj(Bara) TPP, Unit – 1, Prayagraj<br>PGCL                                         | 660               | 25.12.15                 | RFD        |
| 33   | Vizag TPP, Unit-1, Hinduja National Power Co<br>Ltd                                      | 520               | 27.12.15                 | RFD        |
| 34   | Melamaruthur(Mutiara) TPP, Unit-2, Coastal<br>Energen                                    | 600               | 02.01.16                 | Additional |
| 35   | Lalitpur TPP, Unit-2, Lalitpur Power Gen. Co.<br>Ltd                                     | 660               | 08.01.16                 | RFD        |
| 36   | Uchpinda TPP, Unit-2, RKM Powergen Co                                                    | 360               | 28.01.16                 | Additional |
| 37   | Goindwal Sahib TPP, Unit-1, GVK Power                                                    | 270               | 14.02.16                 | Additional |
| 38   | Ind Bharat TPP(Odisha), Unit-1, Ind Barat                                                | 350               | 25.02.16                 | RFD        |
| 39   | Goindwal Sahib TPP, Unit-2, GVK Power                                                    | 270               | 15.03.16                 | Additional |
| 40   | Seioni TPP Ph-I, Unit-1, Jhabua Power Ltd.                                               | 600               | 22.03.16                 | Additional |
| 41   | BALCO TPP, Unit-2, BALCO Pvt Ltd                                                         | 300               | 24.03.16                 | RFD        |
| 42   | Lalitpur TPP, Unit-1, Lalitpur Power Gen. Co.<br>Ltd                                     | 660               | 26.03.16                 | Additional |
| 43   | Raikheda TPP, Unit-2, GMR Chhattisgarh                                                   | 685               | 28.03.16                 | RFD        |
| 44   | Talwandi Sabo TPP, Unit-3, Tal. Sabo Power                                               | 660               | 29.03.16                 | RFD        |
| 45   | Vizag TPP, Unit-2, Hinduja National Power Co<br>Ltd                                      | 520               | 30.03.16                 | Additional |
| 46   | Anuppur TPP Ph-I, Unit-2, MB Power(MP)                                                   | 600               | 30.03.16                 | Additional |
|      | <b>Total Private Sector</b>                                                              | <b>12705</b>      |                          |            |
|      | <b>Total Thermal Capacity Addition in 2015-16</b>                                        | <b>22460.6</b>    |                          |            |

### 3.5 Thermal Projects Commissioned during 2016-17

| S.No           | Project Name                               | Implementing Agency         | Unit No.  | Capacity ( MW) | Date of Commissioning | Remarks |
|----------------|--------------------------------------------|-----------------------------|-----------|----------------|-----------------------|---------|
| Central Sector |                                            |                             |           |                |                       |         |
| 1              | Agartalla Gas Based Power Project          | NEEPCO                      | ST-1      | 25.5           | 23.08.2016            | RFD     |
| 2              | Kudgi STPP Ph-I                            | NTPC                        | Unit-1    | 800            | 25-12-2016            | RFD     |
| 3              | Bongaigaon TPP                             | NTPC                        | Unit-2    | 250            | 22.03.2017            |         |
| 4              | Kanti TPS St-II (Muzzafarpur)              | NTPC                        | Unit-4    | 195            | 24.03.2017            |         |
| 5              | Mauda STPP-II                              | NTPC                        | Unit-4    | 660            | 18.03.2017            | RFD     |
| 6              | Kudgi TPP                                  | NTPC                        | Unit-2    | 800            | 23.03.2017            |         |
| 7              | Unchahar TPS St-IV                         | NTPC                        | Unit-6    | 500            | 31.03.2017            |         |
|                | Total Central Sector                       |                             |           | 3230.5         |                       |         |
| State Sector   |                                            |                             |           |                |                       |         |
| 1              | BhavnagarTPP                               | BECL                        | Unit-1    | 250            | 16.05.16              | RFD     |
| 2              | Marwa TPS                                  | CSPGCL                      | Unit-2    | 500            | 15.07.16              | RFD     |
| 3              | Singareni TPP                              | SECL                        | Unit-2    | 600            | 25.11.16              | RFD     |
| 4              | Koradi TPS Expn                            | MAHAGENCO                   | Unit-10   | 660            | 28.12.16              | RFD     |
| 5              | Sagardighi TPS-II                          | WPDCL                       | Unit-4    | 500            | 15.12.16              | RFD     |
| 6              | Namrup CCGT                                | APGCL                       | CCGT      | 62.25          | 11.01.17              | RFD     |
| 7              | Bhavnagar TPP                              | BECL                        | Unit-2    | 250            | 27.03.17              | RFD     |
| 8              | Yermarus TPP                               | KPCL                        | Unit-2    | 800            | 29.03.17              | RFD     |
|                | Total State Sector                         |                             |           | 3622.25        |                       |         |
| Private Sector |                                            |                             |           |                |                       |         |
| 1              | Lalitpur TPP                               | Lalitpur Power Gen. Co. Ltd | Unit-3    | 660            | 01.04.16              | RFD     |
| 2              | GAMA CCPP Module-1                         | M/s. GAMA Infraprop Ltd     | GT 1&2+ST | 225            | 25.04.16              | Addl    |
| 3              | ITPCL TPP                                  | ILFS                        | Unit-2    | 600            | 18.04.16              | RFD     |
| 4              | Mangaon CCPP                               | PGPL                        | Block-1   | 388            | 14.07.16              | Addl    |
| 5              | Nawpara TPP                                | TRN                         | Unit-1    | 300            | 14.08.16              | RFD     |
| 6              | Bara TPP                                   | J.P. Power Ventures         | Unit-2    | 660            | 06.09.16              | RFD     |
| 7              | Sembcorp Gayatri Pvt. Ltd                  | SGPL                        | Unit-1    | 660            | 12.11.2016            | RFD     |
| 8              | Ratiza TPS-II Ltd                          | Spectrum Coal & Power Ltd   | Unit-2    | 50             | 10.11.16              | RFD     |
| 9              | Kashipur CCPP                              | Sravanthi energy Pvt        | Block-1   | 225            | 20.11.16              | RFD     |
| 10             | NCC TPP (Sembcorp)                         | Sembcorp Gayatri Pvt. Ltd   | Unit-2    | 660            | 15.02.17              | RFD     |
| 11             | Nashik TPP, Ph-I                           | Rattan Power                | Unit-2    | 270            | 15.02.17              | RFD     |
|                | Total Private Sector                       |                             |           | 4698           |                       |         |
|                | Total Thermal Capacity Addition in 2016-17 |                             |           | 11550.75       |                       |         |

#### 4. Details of Under Construction Thermal Power Projects in the country (for commissioning during 2017-18 and beyond)

| S.No.                 | State       | Project Name / Impl. Agency/ EPC or BTG                                   | LOA Date/ | Unit No | Cap. (MW) | Org. Comm. Sched. | Ant. Comm. Sched. | Exp. In crores. (Till Date) | Remarks     | Fuel    | Original Cost | Latest Cost | Cost Overrun | Time Overrun (Months) |
|-----------------------|-------------|---------------------------------------------------------------------------|-----------|---------|-----------|-------------------|-------------------|-----------------------------|-------------|---------|---------------|-------------|--------------|-----------------------|
| <b>CENTRAL SECTOR</b> |             |                                                                           |           |         |           |                   |                   |                             |             |         |               |             |              |                       |
| 1                     | Assam       | Bongaigaon TPP/ NTPC/ BHEL                                                | Feb-08    | U-3     | 250       | Sep-11            | Mar-18            | 6762 (Sep-17)               | For 3 Units | Coal    | 4375.35       | 6749.18     | 54.25%       | 78                    |
| 2                     | Bihar       | Barh STPP-I /NTPC/Others                                                  | Mar-05    | U-1     | 660       | May-17            | Mar-19            | 13944.44 (Sep-17)           |             | Coal    | 8693          | 15095.67    | 73.65%       | 22                    |
|                       |             |                                                                           | Mar-05    | U-2     | 660       | Nov-17            | Dec-19            |                             |             |         |               |             |              | 25                    |
|                       |             |                                                                           | Mar-05    | U-3     | 660       | May-18            | Jun-20            |                             |             |         |               |             |              | 25                    |
| 3                     | Bihar       | Nabi Nagar TPP / JV of NTPC & Rlys/BHEL                                   | Jan-08    | U-3     | 250       | Aug-13            | Feb-18            | 6833.46 (Oct-17)            | For 4 Units | Coal    | 5352.51       | 7998        | 49.43%       | 54                    |
|                       |             |                                                                           | Jan-08    | U-4     | 250       | Nov-13            | Aug-18            |                             |             |         |               |             |              | 57                    |
| 4                     | Bihar       | New Nabi Nagar TPP /JV of NTPC & BSPGCL TG-Alstom & Bharat Forge, SG-BHEL | Jan-13    | U-1     | 660       | Jan-17            | Mar-18            | 105156.2 (Oct-17)           |             | Coal    | 13624.02      | 15131.67    | 11.07%       | 14                    |
|                       |             |                                                                           | Jan-13    | U-2     | 660       | Jul-17            | Jun-18            |                             |             |         |               |             |              | 11                    |
|                       |             |                                                                           | Jan-13    | U-3     | 660       | Jan-18            | Dec-18            |                             |             |         |               |             |              | 12                    |
| 5                     | Chhatisgarh | Lara TPP/NTPC / SG-Doosan TG-BGR Hitachi                                  | Dec-12    | U-1     | 800       | Dec-16            | Jan-18            | 8580 (Sep-17)               |             | Coal    | 11846         | 11846       | 0.00%        | 13                    |
|                       |             |                                                                           | Dec-12    | U-2     | 800       | Jun-17            | Dec-18            |                             |             |         |               |             |              | 18                    |
| 6                     | Jharkhand   | North Karanpura TPP/ NTPC / BHEL                                          | Feb-14    | U-1     | 660       | Feb-18            | Sep-19            | 5447 (Sep-17)               |             | Coal    | 14367         | 14367       | 0.00%        | 19                    |
|                       |             |                                                                           | Feb-14    | U-2     | 660       | Aug-18            | Mar-20            |                             |             |         |               |             |              | 19                    |
|                       |             |                                                                           | Feb-14    | U-3     | 660       | Feb-19            | Sep-20            |                             |             |         |               |             |              | 19                    |
| 7                     | Karnataka   | Kudgi STPP Ph-I/ NTPC/ SG -Doosan TG-Toshiba                              | Feb-12    | U-3     | 800       | Jan-17            | Dec-17            | 14016 (Sep-17)              | For 3 Units | Coal    | 15166.19      | 15166.19    | 0.00%        | 11                    |
| 8                     | Maharashtra | Solapur STPP/ NTPC/ SG-BGR & Hitachi TG-Alstom & Bharat Forge             | Apr-12    | U-2     | 660       | Nov-16            | Dec-18            | 7988 (Aug-17)               | For 2 Units | Coal    | 9395.18       | 9395.18     | 0.00%        | 25                    |
| 9                     | MP          | Gadarwara TPP/ NTPC /BTG-BHEL                                             | Mar-13    | U-1     | 800       | Mar-17            | Jan-18            | 8192 (Sep-17)               |             | Coal    | 11638.55      | 11638.55    | 0.00%        | 10                    |
|                       |             |                                                                           | Mar-13    | U-2     | 800       | Sep-17            | Sep-18            |                             |             |         |               |             |              | 12                    |
| 10                    | MP          | Khargone TPP/ NTPC/ EPC - L&T                                             | Mar-15    | U-1     | 660       | Mar-19            | Mar-19            | 3429 (Oct-17)               |             | Coal    | 9870.51       | 11148.86    | 12.95%       | 0                     |
|                       |             |                                                                           | Mar-15    | U-2     | 660       | Sep-19            | Sep-19            |                             |             |         |               |             |              | 0                     |
| 11                    | Odisha      | Darlipalli STPP/ NTPC / SG- BHEL TG-JSW & Toshiba                         | Feb-14    | U-1     | 800       | Feb-18            | May-18            | 7010 (Sep-17)               |             | Coal    | 12532.44      | 12532.44    | 0.00%        | 3                     |
|                       |             |                                                                           | Feb-14    | U-2     | 800       | Jun-18            | Oct-18            |                             |             |         |               |             |              | 4                     |
| 12                    | Rajasthan   | Barsingsar TPP ext/NLC/Reliance Infra                                     | Nov-16    | U-1     | 250       | May-20            | May-20            | 154.44 (Oct-17)             |             | Coal    | 2112.59       | 2112.59     | 0.00%        |                       |
| 13                    | Rajasthan   | Bithnok TPP /NLC/Reliance Infra                                           | Nov-16    | U-1     | 250       | May-20            | May-20            | 168.26 (Oct-17)             |             | Coal    | 2196.3        | 2196.3      | 0.00%        |                       |
| 14                    | Telangana   | Telangana Ph- I/ NTPC/SG- BHEL TG- Alstom & Bharatforge                   | Feb-16    | U-1     | 800       | Jan-20            | Oct-20            | 1018 (Jun-17)               |             | Coal    | 10599         | 10599       | 0.00%        | 9                     |
|                       |             |                                                                           | Feb-16    | U-2     | 800       | Jul-20            | Nov-20            |                             |             |         |               |             |              | 4                     |
| 15                    | TN          | Neyveli New TPP/ NLC/BHEL                                                 | Dec-13    | U-1     | 500       | Sep-17            | Jul-18            | 4315.46 (Sep-17)            |             | Lignite | 5907.11       | 5907.11     | 0.00%        | 10                    |
|                       |             |                                                                           | Dec-13    | U-2     | 500       | Mar-18            | Aug-18            |                             |             |         |               |             |              | 5                     |
| 16                    | UP          | Meja STPP/ JV of NTPC & UPRVUNL/ SG-BGR TG-Toshiba                        | Apr-12    | U-1     | 660       | Jun-16            | Dec-17            | 7164 (Apr-17)               |             | Coal    | 10821         | 10821       | 0.00%        | 18                    |
|                       |             |                                                                           | Apr-12    | U-2     | 660       | Dec-16            | Jun-18            |                             |             |         |               |             |              | 18                    |

| S.No. | State                | Project Name / Impl. Agency/ EPC or BTG                   | LOA Date/ | Unit No | Cap. (MW) | Org. Comm. Sched. | Ant. Comm. Sched. | Exp. In crores. (Till Date) | Remarks     | Fuel | Original Cost | Latest Cost | Cost Overrun | Time Overrun (Months) |
|-------|----------------------|-----------------------------------------------------------|-----------|---------|-----------|-------------------|-------------------|-----------------------------|-------------|------|---------------|-------------|--------------|-----------------------|
| 17    | UP                   | Ghatampur TPP/ JV of NLC & UPRVUNL/ MHPS Boiler Pvt. Ltd. | Aug-16    | U-1     | 660       | Nov-20            | Nov-20            | 1104.98 (Oct-17)            |             | Coal | 17237.8       | 17237.8     | 0.00%        | 0                     |
|       |                      |                                                           | Aug-16    | U-2     | 660       | May-21            | May-21            |                             |             |      |               |             |              | 0                     |
|       |                      |                                                           | Aug-16    | U-3     | 660       | Nov-21            | Sep-21            |                             |             |      |               |             |              | -2                    |
| 18    | UP                   | Tanda TPP/ NTPC/ SG: L&T/ TG: Alstom                      | Sep-14    | U-1     | 660       | Sep-18            | Dec-18            | 3127 (Sep-17)               |             | Coal | 9188.98       | 9188.98     | 0.00%        | 3                     |
|       |                      |                                                           | Sep-14    | U-2     | 660       | Mar-19            | Jun-19            |                             |             |      |               |             |              | 3                     |
|       | TOTAL CENTRAL SECTOR |                                                           |           |         | 21990     |                   |                   | 204410.3                    | 0           | 0    | 174923.53     | 189131.52   | #DIV/0!      | 519                   |
|       | STATE SECTOR         |                                                           |           |         |           |                   |                   |                             |             |      |               |             |              |                       |
| 1     | A.P                  | Dr.Narla Tata Rao TPS St-V/APGENCO/BTG- BHEL              | Oct-15    | U-1     | 800       | Jun-19            | Jun-19            | 978 (Jun-17)                |             | Coal | 5286.54       | 5286.54     | 0.00%        | 0                     |
| 2     | A.P                  | Sri Damodaran Sanjeevaiah TPP St-II / APGENCO /BTG- BHEL  | Nov-15    | U-1     | 800       | Mar-19            | Mar-19            | 199.2 (Apr-16)              |             | Coal | 4276.04       | 4276.04     | 0.00%        | 0                     |
| 3     | AP                   | Rayalaseema TPP St-IV / APGENCO/ BTG-BHEL                 | Oct-10    | U-6     | 600       | Aug-14            | Jan-18            | 4079.73 (Oct-17)            |             | Coal | 3028.86       | 3880.43     | 28.12%       | 41                    |
| 4     | Assam                | Namrup CCGT / APGCL / BHEL                                | Feb-09    | ST      | 36.15     | Jan-12            | Mar-18            | 579.4 (Dec-16)              |             | Gas  | 411           | 693.73      | 68.79%       | 74                    |
| 5     | Bihar                | Barauni TPS Extn./ BSEB/ EPC - BHEL                       | Mar-11    | U-8     | 250       | May-14            | Jan-18            | 4799.51 (Mar-17)            |             | Coal | 3666.06       | 5308.07     | 44.79%       | 44                    |
|       |                      |                                                           | Mar-11    | U-9     | 250       | Jul-14            | Mar-18            |                             |             |      |               |             |              | 44                    |
| 6     | Gujarat              | Wanakbori TPS Extn. / GSECL SG-Alstom TG-Siemens          | Oct-14    | U-8     | 800       | Oct-18            | Oct-18            | 2121.38 (May-17)            |             | Coal | 3536.51       | 3536.51     | 0.00%        | 0                     |
| 7     | Karnataka            | Yelahanka CCPP BY KPCL                                    | Nov-15    | GT+ST   | 370       | Mar-18            | Mar-18            | 652.77 (Oct-17)             |             | Gas  | 1571.18       | 1571.18     | 0.00%        | 0                     |
| 8     | MP                   | Shri Singhaji TPP St-II / MPGENCO EPC-L&T                 | Sep-14    | U-3     | 660       | May-18            | Jun-18            | 3881.49 (Oct-17)            |             | Coal | 6500          | 6500        | 0.00%        | -                     |
|       |                      |                                                           | Sep-14    | U-4     | 660       | Jul-18            | Oct-18            |                             |             |      |               |             |              | 3                     |
| 9     | Odisha               | Ib valley TPP / OPGCL BTG-BHEL                            | Mar-14    | U-3     | 660       | Sep-17            | Aug-18            | 5068.83 (Jun-17)            |             | Coal | 11965         | 11965       | 0.00%        | 11                    |
|       |                      |                                                           | Mar-14    | U-4     | 660       | Jan-18            | Oct-18            |                             |             |      |               |             |              | 9                     |
| 10    | Rajasthan            | Chhabra TPP Extn./ RRVUNL / L&T-MHPS                      | Mar-13    | U-6     | 660       | Jun-18            | Mar-18            | 7896.7 (Oct-17)             | For 2 Units | Coal | 7920          | 9550        | 20.58%       | -                     |
| 11    | Rajasthan            | Suratgarh SCTPP/ RRVUNL / BHEL                            | May-13    | U-7     | 660       | Sep-16            | Feb-18            | 6972.58 (Nov-17)            |             | Coal | 7920          | 7920        | 0.00%        | 17                    |
|       |                      |                                                           | May-13    | U-8     | 660       | Dec-16            | Mar-18            |                             |             |      |               |             |              | 15                    |
| 12    | Telangana            | Kothagudem TPS St-VII/ TSGENCO BTG-BHEL                   | Jan-15    | U-1     | 800       | Nov-17            | Jul-18            | 3041.047 (Oct-17)           |             | Coal | 5548.44       | 5548.44     | 0.00%        | 8                     |
| 13    | Telangana            | Bhadradri TPP / TSGENCO/ BHEL                             | Mar-15    | U-1     | 270       | Mar-17            | Jan-19            | 2302.66 (Oct-17)            |             | Coal | 5044          | 7290.6      | 44.54%       | 22                    |
|       |                      |                                                           | Mar-15    | U-2     | 270       | May-17            | Feb-19            |                             |             |      |               |             |              | 21                    |
|       |                      |                                                           | Mar-15    | U-3     | 270       | Jul-17            | Mar-19            |                             |             |      |               |             |              | 20                    |
|       |                      |                                                           | Mar-15    | U-4     | 270       | Sep-17            | Apr-19            |                             |             |      |               |             |              | 19                    |
| 14    | TN                   | Ennore exp. SCTPP (Lanco) / TANGEDCO BTG-LANCO            | May-14    | U-1     | 660       | Jan-18            | Sep-18            | 791.4 (Jan-17)              |             | Coal | 5421.38       | 5421.38     | 0.00%        | 8                     |
| 15    | TN                   | Ennore SCTPP / TANGEDCO/ BHEL                             | Sep-14    | U-1     | 660       | Jan-18            | Sep-18            | 599.92 (Sep-17)             |             | Coal | 9800          | 9800        | 0.00%        | 8                     |
|       |                      |                                                           | Sep-14    | U-2     | 660       | Mar-18            | Mar-19            |                             |             |      |               |             |              | 12                    |
| 16    | TN                   | North Chennai TPP St-III TANGEDCO / BHEL                  | Jan-16    | U-1     | 800       | Mar-19            | Jul-19            | 471.95 (Oct-17)             |             | Coal | 6376          | 6376        | 0.00%        | 4                     |
| 17    | TN                   | Uppur Super Critical TPP TANGEDCO /BHEL                   | Feb-16    | U-1     | 800       | Mar-19            | NA                | 10.01 (May-17)              |             | Coal | 12778         | 12778       | 0.00%        |                       |
|       |                      |                                                           | Feb-16    | U-2     | 800       | Oct-19            | NA                |                             |             |      |               |             |              |                       |

| S.No. | State                     | Project Name / Impl. Agency/ EPC or BTG                                                  | LOA Date/ | Unit No | Cap. (MW)      | Org. Comm. Sched. | Ant. Comm. Sched. | Exp. In crores. (Till Date) | Remarks     | Fuel     | Original Cost              | Latest Cost      | Cost Overrun   | Time Overrun (Months) |
|-------|---------------------------|------------------------------------------------------------------------------------------|-----------|---------|----------------|-------------------|-------------------|-----------------------------|-------------|----------|----------------------------|------------------|----------------|-----------------------|
| 18    | UP                        | Harduaganj TPS Exp-II / UPRVUNL/Toshiba JSW                                              | Sep-15    | U-1     | 660            | Jun-19            | Jun-19            | 291.73 (Feb-17)             |             | Coal     | 4826.49                    | 4826.49          | 0.00%          | 0                     |
| 19    | UP                        | Jawaharpur STPP/ UPRVUNL/ Doosan                                                         | Dec-16    | U-1     | 660            | Sep-20            | Nov-20            | 642 (Aug-17)                |             | Coal     | 10556.27                   | 10556.27         | 0.00%          | 2                     |
|       |                           |                                                                                          | Dec-16    | U-2     | 660            | Jan-21            | Mar-21            |                             |             |          |                            |                  |                | 2                     |
| 20    | UP                        | Obra-C STPP/ UPRVUNL/ Doosan                                                             | Dec-16    | U-1     | 660            | Sep-20            | Sep-20            | 649.55 (Sep-17)             |             | Coal     | 10416                      | 10416            | 0.00%          | 0                     |
|       |                           |                                                                                          | Dec-16    | U-2     | 660            | Dec-20            | Dec-20            |                             |             |          |                            |                  |                | 0                     |
|       | <b>Total State Sector</b> |                                                                                          |           |         | <b>18086.2</b> | <b>1336040</b>    | <b>1260399</b>    | <b>46029.86</b>             | <b>0</b>    | <b>0</b> | <b>126847.77</b>           | <b>133500.68</b> | <b>#DIV/0!</b> | <b>384</b>            |
|       |                           | <b>PRIVATE SECTOR</b>                                                                    |           |         |                |                   |                   |                             |             |          |                            |                  |                | 0                     |
| 1     | AP                        | Bhavanapadu TPP Ph-I / East Coast Energy Ltd. BTG-Chinese                                | Sep-09    | U-1     | 660            | Oct-13            | Uncertain*        | 3785.6 (Jan-16)             |             | Coal     | 6571.94                    | 9343.15          | 42.17%         | #VALUE!               |
|       |                           |                                                                                          | Sep-09    | U-2     | 660            | Mar-14            | Uncertain*        |                             |             |          |                            |                  |                | #VALUE!               |
| 2     | AP                        | Thamminapatnam TPP stage -II / Meenakshi Energy Pvt. Ltd. SG-Cether vessels TG-Chinese   | Dec-09    | U-3     | 350            | May-12            | Jan-18            | 4777.703 (Oct-17)           |             | Coal     | 3120 (600MW)/ 5005 (700MW) |                  |                | 68                    |
|       |                           |                                                                                          | Dec-09    | U-4     | 350            | Aug-12            | Mar-18            |                             |             |          |                            |                  |                | 67                    |
| 3     | Bihar                     | Siriya TPP (Jas Infra. TPP) / JICPL BTG-Chinese                                          | Mar-11    | U-1     | 660            | Aug-14            | Uncertain*        | NA                          |             | Coal     | 11120                      | 11120            | 0.00%          | *                     |
|       |                           |                                                                                          | Mar-11    | U-2     | 660            | Dec-14            | Uncertain*        |                             |             |          |                            |                  |                | *                     |
|       |                           |                                                                                          | Mar-11    | U-3     | 660            | Apr-15            | Uncertain*        |                             |             |          |                            |                  |                | *                     |
|       |                           |                                                                                          | Mar-11    | U-4     | 660            | Aug-15            | Uncertain*        |                             |             |          |                            |                  |                | *                     |
| 4     | Chhattisgarh              | Akaltara TPP (Naiyara) / KSK Mahandi Power Company Ltd./ Chinese                         | Apr-09    | U-3     | 600            | Dec-12            | Jan-18            | 18730.00 (Dec-16)           | for 6 units | Coal     | 16190                      | 27080            | 67.26%         | 61                    |
|       |                           |                                                                                          | Apr-09    | U-4     | 600            | Apr-13            | Jul-18            |                             |             |          |                            |                  |                | 63                    |
|       |                           |                                                                                          | Apr-09    | U-5     | 600            | Aug-13            | Sep-18            |                             |             |          |                            |                  |                | 61                    |
|       |                           |                                                                                          | Apr-09    | U-6     | 600            | Dec-13            | Dec-18            |                             |             |          |                            |                  |                | 60                    |
| 5     | Chhattisgarh              | Binjkote TPP/ SKS Power Generation (Chhattisgarh) Ltd. SG-Cethar Vessels TG-Harbin China | Mar-11    | U-2     | 300            | Dec-13            | Jan-18            | 3828 (Jun-15)               | For 4 Units | Coal     | 5058                       | 7940             | 56.98%         | 49                    |
|       |                           |                                                                                          | Mar-11    | U-3     | 300            | Mar-14            | Uncertain         |                             |             |          |                            |                  |                | *                     |
|       |                           |                                                                                          | Mar-11    | U-4     | 300            | Jun-14            | Uncertain         |                             |             |          |                            |                  |                | *                     |
| 6     | Chhattisgarh              | Lanco Amarkantak TPP-II/ LAP Pvt. Ltd. BTG-DEC                                           | Nov-09    | U-3     | 660            | Jan-12            | Uncertain         | 9537.79 (Dec-16)            |             | Coal     | 6886                       | 10815.24         | 57.06%         | #VALUE!               |
|       |                           |                                                                                          | Nov-09    | U-4     | 660            | Mar-12            | Uncertain         |                             |             |          |                            |                  |                | #VALUE!               |
| 7     | Chhattisgarh              | Singhitarai TPP / Athena Chhattisgarh Power Ltd. BTG -DECL                               | Dec-09    | U-1     | 600            | Nov-14            | Uncertain (02/18) | 6408.47 (May-17)            |             | Coal     | 6200                       | 8443.79          | 36.19%         | *                     |
|       |                           |                                                                                          | Dec-09    | U-2     | 600            | Feb-15            | Uncertain (08/18) |                             |             |          |                            |                  |                | *                     |
| 8     | Chhattisgarh              | Uchpinda TPP/ RKM Powergen. Pvt. Ltd. / SG-China Western TG-Habin Chaina                 | Jul-07    | U-4     | 360            | Jul-13            | Mar-18            | 11418.42 (Oct-17)           | For 4 Units | Coal     | 6653.61                    | 11784.51         | 77.11%         | 56                    |
| 9     | Chhattisgarh              | Salora TPP / Vandana Vidyut/ BTG-Cether Vessles                                          | Sep-09    | U-2     | 135            | Sep-11            | Uncertain*        | 2386.89 (Mar-15)            | For 2 Units | Coal     | 1458.44                    | 1458.44          | 0.00%          | *                     |
| 10    | Chhattisgarh              | Deveri (Visa) TPP / Visa Power Ltd. BTG-BHEL                                             | Jun-10    | U-1     | 600            | Aug-13            | Uncertain*        | 2077.23 (Nov-15)            |             | Coal     | 2618.7                     | 3930             | 50.07%         | *                     |
| 11    | Jharkhand                 | Matrishri Usha TPP Ph-I / Corporate Power Ltd. EPC-BHEL                                  | Dec-09    | U-1     | 270            | Apr-12            | Uncertain*        | 3120 (Nov-12)               |             | Coal     | 2900                       | 2900             | 0.00%          | *                     |
|       |                           |                                                                                          | Dec-09    | U-2     | 270            | May-12            | Uncertain*        |                             |             |          |                            |                  |                | *                     |

| S.No. | State       | Project Name / Impl. Agency/ EPC or BTG                                   | LOA Date/ | Unit No | Cap. (MW) | Org. Comm. Sched. | Ant. Comm. Sched. | Exp. In crores. (Till Date) | Remarks     | Fuel | Original Cost | Latest Cost | Cost Overrun | Time Overrun (Months) |
|-------|-------------|---------------------------------------------------------------------------|-----------|---------|-----------|-------------------|-------------------|-----------------------------|-------------|------|---------------|-------------|--------------|-----------------------|
| 12    | Jharkhand   | Matrishri Usha TPP Ph-II / Corporate Power Ltd. EPC-BHEL                  | Mar-11    | U-3     | 270       | Oct-12            | Uncertain*        | 2207 (Sept-12)              |             | Coal | 3182          | 3182        | 0.00%        | *                     |
|       |             |                                                                           | Mar-11    | U-4     | 270       | Jan-13            | Uncertain*        |                             |             |      |               |             |              | *                     |
| 13    | Jharkhand   | Tori TPP Ph-I / Essar Power Ltd. BTG-China                                | Aug-08    | U-1     | 600       | Jul-12            | Uncertain*        | 4757.92 (Jun-17)            |             | Coal | 5700          | 5700        | 0.00%        | *                     |
|       |             |                                                                           | Aug-08    | U-2     | 600       | Sep-12            | Uncertain*        |                             |             |      |               |             |              | *                     |
| 14    | Jharkhand   | Tori TPP Ph-II / Essar Power Ltd.                                         |           | U-3     | 600       | Dec-15            | Uncertain*        | 246.65 (Mar-15)             |             |      | 2500          | 2500        | 0.00%        | *                     |
| 15    | Maharashtra | Amravati TPP Ph-II / Ratan India Power Pvt. Ltd. BTG-BHEL                 | Oct-10    | U-1     | 270       | Jul-14            | Uncertain*        | 763.8 (Mar-15)              |             | Coal | 6646          | 6646        | 0.00%        | *                     |
|       |             |                                                                           | Oct-10    | U-2     | 270       | Sep-14            | Uncertain*        |                             |             |      |               |             |              | *                     |
|       |             |                                                                           | Oct-10    | U-3     | 270       | Nov-14            | Uncertain*        |                             |             |      |               |             |              | *                     |
|       |             |                                                                           | Oct-10    | U-4     | 270       | Jan-15            | Uncertain*        |                             |             |      |               |             |              | *                     |
|       |             |                                                                           | Oct-10    | U-5     | 270       | Mar-15            | Uncertain*        |                             |             |      |               |             |              | *                     |
| 16    | Maharashtra | Lanco Vidarbha TPP / LVP Pvt. Ltd. EPC-LANCO                              | Nov-09    | U-1     | 660       | Jul-14            | Uncertain*        | 5338 (Apr-17)               |             | Coal | 6936          | 10433       | 50.42%       | #VALUE!               |
|       |             |                                                                           | Nov-09    | U-2     | 660       | Nov-14            | Uncertain*        |                             |             |      |               |             |              | #VALUE!               |
| 17    | Maharashtra | Nasik TPP Ph-II / Ratan India Nasik Power Pvt. Ltd. BTG-BHEL              | Nov-09    | U-1     | 270       | Apr-13            | Uncertain         | 711.81 (Mar-15)             |             | Coal | 6789          | 6789        | 0.00%        | *                     |
|       |             |                                                                           | Nov-09    | U-2     | 270       | Jun-13            | Uncertain         |                             |             |      |               |             |              | *                     |
|       |             |                                                                           | Nov-09    | U-3     | 270       | Aug-13            | Uncertain         |                             |             |      |               |             |              | *                     |
|       |             |                                                                           | Nov-09    | U-4     | 270       | Oct-13            | Uncertain         |                             |             |      |               |             |              | *                     |
|       |             |                                                                           | Nov-09    | U-5     | 270       | Dec-13            | Uncertain         |                             |             |      |               |             |              | *                     |
| 18    | Maharashtra | Bijora Ghanmukh TPP / Jinbhuvish Power Generation Pvt. Ltd. / BTG-Chinese | Sep-11    | U-1     | 300       | Dec-16            | Uncertain         | 422.27 (Mar-15)             |             | Coal | 3189          | 3450        | 8.18%        | *                     |
|       |             |                                                                           | Sep-11    | U-2     | 300       | Mar-17            | Uncertain         |                             |             |      |               |             |              | *                     |
| 19    | Maharashtra | Shirpur TPP / Shirpur Power Pvt. Ltd.-BHEL                                | Nov-11    | U-2     | 150       | Apr-15            | Mar-18            | 2277.94 (Apr-17)            |             | Coal | 2413          | 2413        | 0.00%        | 35                    |
| 20    | MP          | Mahan TPP / Essar Power MP Ltd. / Chinese                                 | Sep-08    | U-2     | 600       | Dec-11            | Mar-18            | 8156.1 (Mar-17)             | For 2 Units | Coal | 7738          | 7738        | 0.00%        | 75                    |
| 21    | MP          | Gorgi TPP / D.B. Power (MP) Ltd. BTG-BHEL                                 | Mar-11    | U-1     | 660       | Jun-13            | Uncertain         | 475.79 (Sep-15)             |             | Coal | 3941          | 3941        | 0.00%        | *                     |
| 22    | MP          | Niwari TPP / BLA Power Ltd./ BHEL - Siemens                               | Apr-11    | U-2     | 45        | May-14            | Uncertain         | 290.01 (Sep-14)             | For 2 Units | Coal | 232.49        | 250.49      | 7.74%        | *                     |
| 23    | Odisha      | Ind Barath TPP (Odisha) / Ind Barath /BTG-Cethar Vessels                  | May-09    | U-2     | 350       | Dec-11            | Jan-18            | 4254 (Apr-17)               | For 2 Units | Coal | 3150          | 4001        | 27.02%       | 73                    |
| 24    | Odisha      | KVK Nilanchal TPP/ KVK Nilanchal / BTG-Harbin China                       | Nov-09    | U-1     | 350       | Dec-11            | Uncertain*        | 1708.36 (Mar-15)            |             | Coal | 4990          | 6000        | 20.24%       | *                     |
|       |             |                                                                           | Nov-09    | U-2     | 350       | Feb-12            | Uncertain*        |                             |             |      |               |             |              | *                     |
|       |             |                                                                           | Nov-09    | U-3     | 350       | Feb-12            | Uncertain*        |                             |             |      |               |             |              | *                     |
| 25    | Odisha      | Lanco Babandh TPP / LBP Ltd./ BTG-Chinese                                 | Nov-09    | U-1     | 660       | Apr-13            | Uncertain*        | 7615 (Mar-17)               |             | Coal | 6930          | 10430       | 50.51%       | *                     |
|       |             |                                                                           | Nov-09    | U-2     | 660       | Aug-13            | Uncertain*        |                             |             |      |               |             |              | *                     |
| 26    | Odisha      | Malibrahmani TPP / MPCL/ BTG-BHEL                                         | Jun-10    | U-1     | 525       | Dec-12            | Uncertain*        | 5329.75 (Dec-14)            |             | Coal | 5093          | 6330        | 24.29%       | *                     |
|       |             |                                                                           | Jun-10    | U-2     | 525       | Feb-13            | Uncertain*        |                             |             |      |               |             |              | *                     |
| 27    | TN          | Tuticorin TPP (Ind- Barath) / IBPIL / BTG-Chinese                         | May-10    | U-1     | 660       | May-12            | Uncertain*        | 2000 (May-15)               |             | Coal | 3595          | 3595        | 0.00%        | *                     |

| S.No. | State                | Project Name / Impl. Agency/ EPC or BTG         | LOA Date/ | Unit No | Cap. (MW) | Org. Comm. Sched. | Ant. Comm. Sched. | Exp. In crores. (Till Date) | Remarks | Fuel | Original Cost | Latest Cost | Cost Overrun | Time Overrun (Months) |  |
|-------|----------------------|-------------------------------------------------|-----------|---------|-----------|-------------------|-------------------|-----------------------------|---------|------|---------------|-------------|--------------|-----------------------|--|
| 28    | TN                   | Tuticorin TPP St-IV / SEPC/ EPC-MEIL (BTG-BHEL) | Jan-14    | U-1     | 525       | Sep-18            | Mar-19            | 491.42 (Sep-16)             |         | Coal | 3514          | 3514        | 0.00%        | 6                     |  |
| 29    | WB                   | India Power TPP / Haldia Energy Ltd/ BTG-BHEL.  | Sep-10    | U-2     | 150       | Feb-16            | Jan-18            | 3259.53 (Sep-17)            |         | Coal | 2656          | 3307        | 24.51%       | 23                    |  |
|       |                      |                                                 | Sep-10    | U-3     | 150       | May-16            | Apr-18            |                             |         |      |               |             |              | 23                    |  |
|       | Total Private Sector |                                                 |           |         | 25785     |                   |                   | 116375.5                    |         |      | 144851.18     | 185034.62   |              |                       |  |
|       | Grand Total          |                                                 |           |         | 65861.15  |                   |                   | 366815.59                   |         |      | 446622.48     | 507666.82   |              |                       |  |

## 5. Thermal Power Projects visited during Third Quarter (October – December) of 2017-18

Following under construction thermal power projects in country were visited by officers of TPM-I & TPM-II Divisions to review the status of progress of ongoing construction activities at project sites:

| Sl. No. | Name of Project with capacity                          | State          |
|---------|--------------------------------------------------------|----------------|
| 1.      | Haldia TPP (3 x 150 MW), Unit 2 & 3                    | West Bengal    |
| 2.      | Shree Singaji TPP Stage-II (2 x 660MW) Unit 3 & Unit 4 | Madhya Pradesh |
| 3.      | Barh STPP-I, NTPC (3x660MW)                            | Bihar          |
| 4.      | Yelhanka CCPP (370 MW)                                 | Karnataka      |
| 5.      | Neyveli New TPP (2x500MW)                              | Tamilnadu      |

## 6. Details of Super Critical Units Commissioned in the country as on 31<sup>st</sup> December, 2017

| State | Project Name | Impl Agency/ Make | Unit No | Cap. MW | Actual Comm. Date | BHEL | L&T | Chinese | Russia | Others | Doosan Power System India. |
|-------|--------------|-------------------|---------|---------|-------------------|------|-----|---------|--------|--------|----------------------------|
|-------|--------------|-------------------|---------|---------|-------------------|------|-----|---------|--------|--------|----------------------------|

### Commissioned during 11<sup>th</sup> Plan

| <u><b>CENTRAL SECTOR</b></u> |                                              |                                                                    |     |             |          |          |          |             |             |            |          |
|------------------------------|----------------------------------------------|--------------------------------------------------------------------|-----|-------------|----------|----------|----------|-------------|-------------|------------|----------|
| Chhattisgarh                 | Sipat-I                                      | NTPC                                                               | U-1 | 660         | 28.06.11 |          |          |             | 660         |            |          |
| Chhattisgarh                 | Sipat-I                                      | TG-Power M/C, Russia. SG-Dussan, Korea                             | U-2 | 660         | 24.12.11 |          |          |             | 660         |            |          |
|                              |                                              | <b>Total Central Sector</b>                                        |     | <b>1320</b> |          | <b>0</b> | <b>0</b> | <b>0</b>    | <b>1320</b> | <b>0</b>   | <b>0</b> |
| <u><b>PRIVATE SECTOR</b></u> |                                              |                                                                    |     |             |          |          |          |             |             |            |          |
| Gujarat                      | Mundra TPP Ph-II                             | Adani Power Ltd                                                    | U-1 | 660         | 26.12.10 |          |          | 660         |             |            |          |
| Gujarat                      | Mundra TPP Ph-II                             | Boiler : Harbin, China & TG:M/s DEC, China                         | U-2 | 660         | 20.07.11 |          |          | 660         |             |            |          |
| Gujarat                      | Mundra TPP Ph-III                            | Adani Power Ltd                                                    | U-1 | 660         | 07.11.11 |          |          | 660         |             |            |          |
| Gujarat                      | Mundra TPP Ph-III                            | Boiler : Harbin, China & TG:M/s DEC, China                         | U-2 | 660         | 03.03.12 |          |          | 660         |             |            |          |
| Gujarat                      | Mundra TPP Ph-III                            | Boiler : Harbin, China & TG:M/s DEC, China                         | U-3 | 660         | 09.03.12 |          |          | 660         |             |            |          |
| Gujarat                      | Mundra UMTTP                                 | Tata Power Co. Boiler: DOOSAN, KOREA TG: TOSHIBA, JAPAN            | U-1 | 800         | 25.02.12 |          |          |             |             | 800        |          |
| Haryana                      | Jajjar TPP (Mahatama Gandhi TPP)             | CLP Power India Pvt. Ltd Boiler: Harbin, China & TG:M/s DEC, China | U-1 | 660         | 12.01.12 |          |          | 660         |             |            |          |
|                              |                                              | <b>Total Private Sector</b>                                        |     | <b>4760</b> |          | <b>0</b> | <b>0</b> | <b>3960</b> | <b>0</b>    | <b>800</b> | <b>0</b> |
|                              | <b>Grand Total in 11th Plan Commissioned</b> |                                                                    |     | <b>6080</b> |          | <b>0</b> | <b>0</b> | <b>3960</b> | <b>1320</b> | <b>800</b> | <b>0</b> |

### Commissioned from 12th Plan (Targeted)

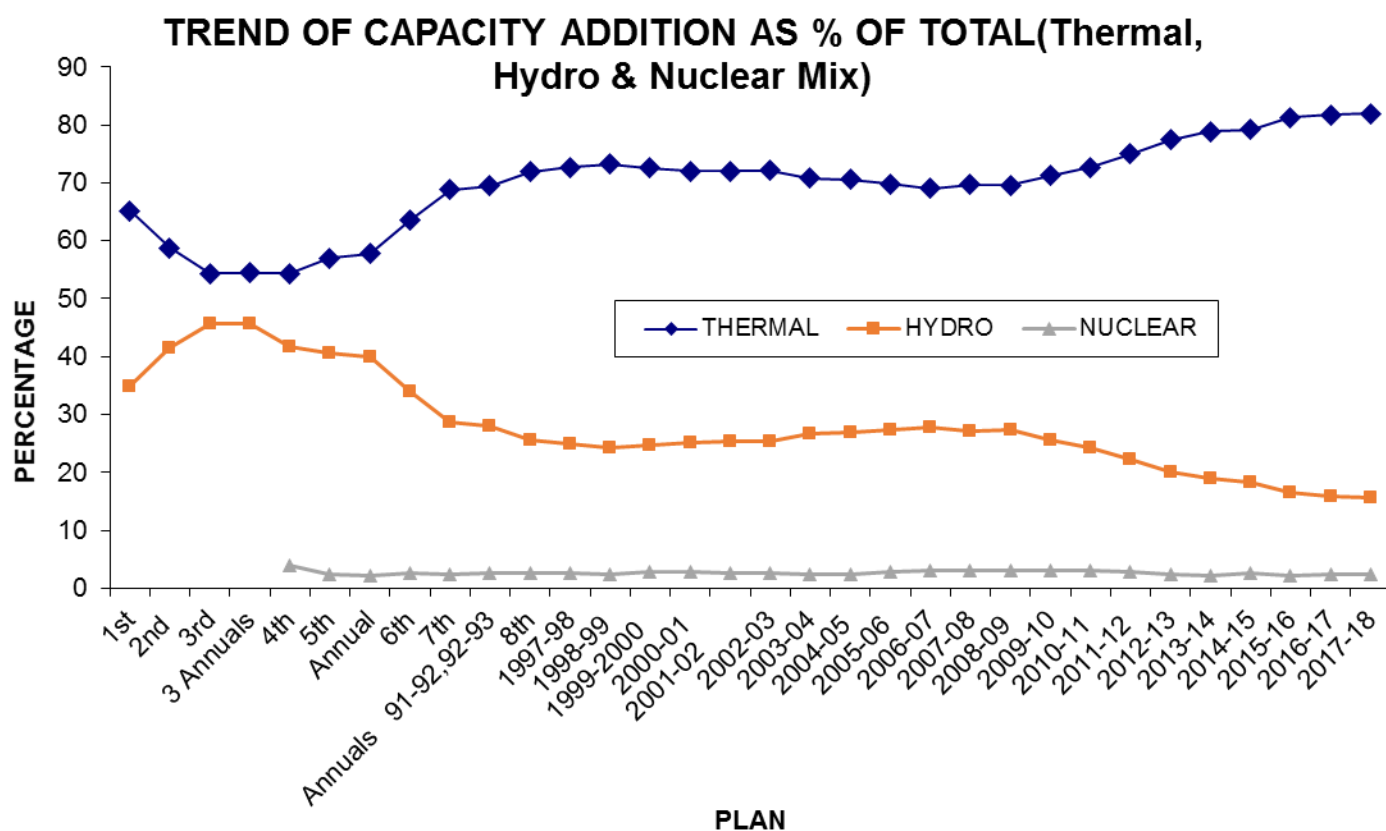
| <u><b>CENTRAL SECTOR</b></u> |                           |                             |     |             |          |             |          |          |            |          |          |
|------------------------------|---------------------------|-----------------------------|-----|-------------|----------|-------------|----------|----------|------------|----------|----------|
| Chhattisgarh                 | Sipat-I                   |                             | U-3 | 660         | 02.06.12 |             |          |          | 660        |          |          |
| Bihar                        | Barh -II                  | NTPC                        | U-4 | 660         | 30.11.13 | 660         |          |          |            |          |          |
| Bihar                        | Barh -II                  | NTPC                        | U-5 | 660         | 04.03.15 | 660         |          |          |            |          |          |
|                              |                           | <b>Total Central Sector</b> |     | <b>1980</b> |          | <b>1320</b> | <b>0</b> | <b>0</b> | <b>660</b> | <b>0</b> | <b>0</b> |
| <u><b>STATE SECTOR</b></u>   |                           |                             |     |             |          |             |          |          |            |          |          |
| AP                           | Damodaram Sanjeevaiah TPS | APPDL                       | U-1 | 800         | 28.08.14 |             | 800      |          |            |          |          |
| AP                           | Damodaram                 | Boiler-BHEL, TG- L&T        |     |             |          |             |          |          |            |          |          |

| State                                                       | Project Name                        | Impl Agency/ Make                                | Unit No | Cap. MW | Actual Comm. Date | BHEL | L&T  | Chinese | Russia | Others | Doosan Power System India. |
|-------------------------------------------------------------|-------------------------------------|--------------------------------------------------|---------|---------|-------------------|------|------|---------|--------|--------|----------------------------|
|                                                             | Sanjeevaiah TPS                     |                                                  |         |         |                   |      |      |         |        |        |                            |
| AP                                                          | Damodaram Sanjeevaiah TPS           | Boiler-BHEL, TG- L&T                             | U-2     | 800     | 17.03.15          |      | 800  |         |        |        |                            |
| Maharashtra                                                 | Koradi TPS Expn.                    | MSPGCL                                           | U-8     | 660     | 30.03.15          |      | 660  |         |        |        |                            |
|                                                             |                                     | Total Statel Sector                              |         | 2260    |                   | 0    | 2260 | 0       | 0      | 0      | 0                          |
| PRIVATE SECTOR                                              |                                     |                                                  |         |         |                   |      |      |         |        |        |                            |
| AP                                                          | Painampuram TPP                     | Thermal Power Tech Corp. Ltd                     | U-1     | 660     | 07.02.15          |      |      | 660     |        |        |                            |
| AP                                                          | Painampuram TPP                     | Thermal Power Tech Corp. Ltd                     | U-2     | 660     | 05.09.15          |      |      | 660     |        |        |                            |
| AP                                                          | NCC TPP                             | NCC Power Projects Ltd                           | U-1     | 660     | 12.11.16          |      |      | 660     |        |        |                            |
| AP                                                          | NCC TPP                             | NCC Power Projects Ltd                           | U-2     | 660     | 15.02.17          |      |      | 660     |        |        |                            |
| Gujarat                                                     | Mundra UMTPP                        | Tata Power Co.                                   | U-2     | 800     | 25.07.12          |      |      |         |        | 800    |                            |
| Haryana                                                     | Jajjar TPP (Mahatama Gandhi TPP)    | CLP Power India Pvt. Ltd                         | U-2     | 660     | 11.04.12          |      |      | 660     |        |        |                            |
| Maharashtra                                                 | Tirora TPP Ph-I                     | Adani Power Ltd                                  | U-1     | 660     | 11.09.12          |      |      | 660     |        |        |                            |
| Maharashtra                                                 | Tirora TPP Ph-I                     | Boiler : BABCOCK, China & TG: BSTG , China       | U-2     | 660     | 25.03.13          |      |      | 660     |        |        |                            |
| Maharashtra                                                 | Tirora TPP Ph-II                    | Adani Power Ltd                                  | U-1     | 660     | 10.06.13          |      |      | 660     |        |        |                            |
| MP                                                          | Sasan UMPP                          | Reliance Power Ltd.                              | U-3     | 660     | 30.05.13          |      |      | 660     |        |        |                            |
| MP                                                          | Sasan UMPP                          | BTG: M/s Shanghai Elec Corp., China              | U-2     | 660     | 18.12.13          |      |      | 660     |        |        |                            |
| Punjab                                                      | Rajpura TPP ( Nabha)                | Nabha Power Ltd                                  | U-1     | 700     | 24.01.14          |      | 700  |         |        |        |                            |
| Punjab                                                      | Rajpura TPP ( Nabha)                | BTG:L&T                                          | U-2     | 700     | 06.07.14          |      | 700  |         |        |        |                            |
| Punjab                                                      | Talwandi Sabo TPP                   | M/s Sterlite                                     | U-1     | 660     | 17.06.14          |      |      | 660     |        |        |                            |
| Punjab                                                      | Talwandi Sabo TPP                   | M/s Sterlite                                     | U-2     | 660     | 30.10.15          |      |      | 660     |        |        |                            |
| Punjab                                                      | Talwandi Sabo TPP                   | M/s Sterlite                                     | U-3     | 660     | 29.03.16          |      |      | 660     |        |        |                            |
| U.P                                                         | Prayagraj ( Bara) TPP               | Prayagraj power Gen. Co.Ltd( J.P.Power Ventures) | U-1     | 660     | 25.12.15          | 660  |      |         |        |        |                            |
| U.P                                                         | Prayagraj ( Bara) TPP               | Prayagraj power Gen. Co.Ltd( J.P.Power Ventures) | U-2     | 660     | 06.09.16          | 660  |      |         |        |        |                            |
|                                                             |                                     | Total Private Sector                             |         | 12100   |                   | 1320 | 1400 | 8580    | 0      | 800    | 0                          |
|                                                             | Total 12th Plan Target Commissioned |                                                  |         | 16340   |                   | 2640 | 3660 | 8580    | 660    | 800    | 0                          |
| Additional Units Commissioned , Not in the 12th Plan Target |                                     |                                                  |         |         |                   |      |      |         |        |        |                            |
|                                                             | Central Sector                      |                                                  |         |         |                   |      |      |         |        |        |                            |
| Karnataka                                                   | Kudgi STPP Ph-I                     | NTPC                                             | U-1     | 800     | 25.12.2016        |      |      |         |        |        | 800                        |
| Karnataka                                                   | Kudgi STPP Ph-I                     | NTPC                                             | U-2     | 800     | 23.03.2017        |      |      |         |        |        | 800                        |
| Maharashtra                                                 | Mouda STPP -II                      | NTPC                                             | U-3     | 660     | 28.03.16          | 660  |      |         |        |        |                            |
| Maharashtra                                                 | Mouda STPP-II                       | NTPC                                             | U-2     | 660     | 18.03.2017        | 660  |      |         |        |        |                            |
|                                                             |                                     | Sub-Total                                        |         | 2920    |                   | 1320 | 0    | 0       | 0      | 0      | 1600                       |
|                                                             | State Sector                        |                                                  |         |         |                   |      |      |         |        |        |                            |
| Karnataka                                                   | Bellary TPS- St-III                 | KPCL                                             | U-3     | 700     | 01.03.16          | 700  |      |         |        |        |                            |
| Karnataka                                                   | Yermaus TPP                         | KPCL                                             | U-1     | 800     | 29.03.16          | 800  |      |         |        |        |                            |
| Karnataka                                                   | Yermaus TPP                         | KPCL                                             | U-2     | 800     | 29.03.17          | 800  |      |         |        |        |                            |
| Maharashtra                                                 | Koradi TPS Expn.                    | MSPGCL                                           | U-9     | 660     | 28.03.2016        |      | 660  |         |        |        |                            |

| State                                             | Project Name          | Impl Agency/ Make                          | Unit No | Cap. MW      | Actual Comm. Date | BHEL        | L&T         | Chinese      | Russia      | Others      | Doosan Power System India. |
|---------------------------------------------------|-----------------------|--------------------------------------------|---------|--------------|-------------------|-------------|-------------|--------------|-------------|-------------|----------------------------|
| Maharashtra                                       | Koradi TPS Expn.      | MSPGCL                                     | U-10    | 660          | 28.12.2016        |             | 660         |              |             |             |                            |
|                                                   |                       | <b>Sub-Total</b>                           |         | <b>3620</b>  |                   | <b>2300</b> | <b>1320</b> | <b>0</b>     | <b>0</b>    | <b>0</b>    | <b>0</b>                   |
|                                                   | <b>PRIVATE SECTOR</b> |                                            |         |              |                   |             |             |              |             |             |                            |
| Chhattisgarh                                      | Raikheda TPP          | GMR Chhattisgarh Energy Ltd.               | U-1     | 685          | 27.02.15          |             |             |              |             |             | 685                        |
|                                                   |                       | BTG: Doosan Power System India.            | U-2     | 685          | 28.03.16          |             |             |              |             |             | 685                        |
| Gujarat                                           | Mundra UMTTP          | Tata Power Co.                             | U-3     | 800          | 16.10.12          |             |             |              |             | 800         |                            |
| Gujarat                                           | Mundra UMTTP          | Tata Power Co.                             | U-4     | 800          | 16.01.13          |             |             |              |             | 800         |                            |
| Gujarat                                           | Mundra UMTTP          | Tata Power Co.                             | U-5     | 800          | 18.03.13          |             |             |              |             | 800         |                            |
|                                                   |                       |                                            |         |              |                   |             |             |              |             |             |                            |
| Maharashtra                                       | Tirora TPP Ph-II      | Adani Power Ltd                            | U-2     | 660          | 23.03.14          |             |             | 660          |             |             |                            |
|                                                   |                       | Boiler : BABCOCK, China & TG: BSTG , China |         |              |                   |             |             |              |             |             |                            |
| Maharashtra                                       | Tirora TPP Ph-II      | Adani Power Ltd                            | U-3     | 660          | 25.09.14          |             |             | 660          |             |             |                            |
| Rajasthan                                         | Kawai TPP             | Adani Power Ltd.                           | U-1     | 660          | 28.05.13          |             |             | 660          |             |             |                            |
|                                                   |                       | BTG: M/s Shanghai Elec Corp., China        | U-2     | 660          | 24.12.13          |             |             | 660          |             |             |                            |
| MP                                                | Sasan UMPP            | Reliance Power Ltd.                        | U-4     | 660          | 25.03.14          |             |             | 660          |             |             |                            |
| MP                                                | Sasan UMPP            | BTG: M/s Shanghai Elec Corp., China        | U-1     | 660          | 21.05.14          |             |             | 660          |             |             |                            |
| MP                                                | Sasan UMPP            |                                            | U-5     | 660          | 24.08.14          |             |             | 660          |             |             |                            |
| MP                                                | Sasan UMPP            |                                            | U-6     | 660          | 19.03.15          |             |             | 660          |             |             |                            |
|                                                   | Nigri TPP             | Jaiprakash Power ventures Ltd              | U-1     | 660          | 29.08.14          |             | 660         |              |             |             |                            |
|                                                   |                       | BTG:L&T                                    | U-2     | 660          | 17.02.15          |             | 660         |              |             |             |                            |
| UP                                                | Lalitpur TPP          | Lalitpur power Generation Co. Ltd          | U-2     | 660          | 08.01.16          | 660         |             |              |             |             |                            |
| UP                                                | Lalitpur TPP          | Lalitpur power Generation Co. Ltd          | U-1     | 660          | 26.03.16          | 660         |             |              |             |             |                            |
| UP                                                | Lalitpur TPP          | Lalitpur power Generation Co. Ltd          | U-3     | 660          | 01.04.16          | 660         |             |              |             |             |                            |
|                                                   |                       | <b>Total Private Sector</b>                |         | <b>12350</b> |                   | <b>1980</b> | <b>1320</b> | <b>5280</b>  | <b>0</b>    | <b>2400</b> | <b>1370</b>                |
|                                                   |                       | <b>Total Additional</b>                    |         | <b>18890</b> |                   | <b>5600</b> | <b>2640</b> | <b>5280</b>  | <b>0</b>    | <b>2400</b> | <b>2970</b>                |
| <b>Units Commissioned during the year 2017-18</b> |                       |                                            |         |              |                   |             |             |              |             |             |                            |
| <b>Central Sector</b>                             |                       |                                            |         |              |                   |             |             |              |             |             |                            |
| Maharashtra                                       | Solapur STPP          | NTPC                                       | U-1     | 660          | 07.04.2017        |             |             |              |             | 660         |                            |
|                                                   |                       | <b>Total Central Sector</b>                |         | <b>660</b>   |                   | <b>0</b>    | <b>0</b>    | <b>0</b>     | <b>0</b>    | <b>660</b>  | <b>0</b>                   |
| <b>State Sector</b>                               |                       |                                            |         |              |                   |             |             |              |             |             |                            |
| Rajasthan                                         | Chhabra STPP          | RRVUNL                                     | U-5     | 660          | 04.04.2017        |             | 660         |              |             |             |                            |
|                                                   |                       | <b>Total State Sector</b>                  |         | <b>660</b>   |                   | <b>0</b>    | <b>660</b>  | <b>0</b>     | <b>0</b>    | <b>0</b>    | <b>0</b>                   |
| <b>Private Sector</b>                             |                       |                                            |         |              |                   |             |             |              |             |             |                            |
| UP                                                | Paryagraj(Bara) TPP   | Prayagraj Power Gen Co. Ltd                | U-3     | 660          | 21.05.2017        | 660         |             |              |             |             |                            |
|                                                   |                       | <b>Total State Sector</b>                  |         | <b>660</b>   |                   | <b>660</b>  | <b>0</b>    | <b>0</b>     | <b>0</b>    | <b>0</b>    | <b>0</b>                   |
|                                                   |                       | <b>Total Additional</b>                    |         | <b>1980</b>  |                   | <b>660</b>  | <b>660</b>  | <b>0</b>     | <b>0</b>    | <b>660</b>  | <b>0</b>                   |
|                                                   |                       | <b>Grand Total Commissioned till date</b>  |         | <b>43290</b> |                   | <b>8900</b> | <b>6960</b> | <b>17820</b> | <b>1980</b> | <b>4660</b> | <b>2970</b>                |

## 7. Trend of Thermal & Hydro Mix as on 31.12.2017

| Mode-wise | All India Installed Cap. as on 31.03.2017 (In MW) | Capacity Addition during 2017-18 (In MW) |     |     |    |       | As on 31.12.2017 (In MW ) | Percentage (%) |
|-----------|---------------------------------------------------|------------------------------------------|-----|-----|----|-------|---------------------------|----------------|
|           |                                                   | Q1                                       | Q2  | Q3  | Q4 | Total |                           |                |
| Thermal   | 218329.88                                         | 3790                                     | 510 | 0   |    | 4300  | 222629.88                 | 81.15          |
| Hydro     | 44478.42                                          | 136                                      | 142 | 187 | 0  | 465   | 44943.42                  | 16.38          |
| Nuclear   | 6780                                              | 0                                        | 0   | 0   |    | 0     | 6780                      | 2.47           |
| Total     | 269588.3                                          | 3926                                     | 652 | 187 | 0  | 4765  | 274353.3                  | 100            |



## 8. Year/Plan wise Thermal Capacity Addition in the Country

| Sl. No. |                                                | Year           | Capacity Addition (MW) | Target (MW) | % Achievement |
|---------|------------------------------------------------|----------------|------------------------|-------------|---------------|
|         | <b>1st Five Year Plan (1.1.51 to 31.12.55)</b> |                |                        |             |               |
| 1       |                                                | 1951           | 107.02                 |             |               |
| 2       |                                                | 1952           | 86.33                  |             |               |
| 3       |                                                | 1953           | 227.43                 |             |               |
| 4       |                                                | 1954           | 126.64                 |             |               |
| 5       |                                                | 1955           | 54.69                  |             |               |
|         |                                                | <b>Total :</b> | <b><u>602.11</u></b>   |             |               |
|         | <b>2nd Five Year Plan (1.1.56 to 31.03.61)</b> |                |                        |             |               |
| 6       |                                                | 1956-57        | 69.36                  |             |               |
| 7       |                                                | 1957-58        | 184.49                 |             |               |
| 8       |                                                | 1958-59        | 140.65                 |             |               |
| 9       |                                                | 1959-60        | 193.18                 |             |               |
| 10      |                                                | 1960-61        | <u>393.37</u>          |             |               |
|         |                                                | <b>Total :</b> | <b><u>981.05</u></b>   |             |               |
|         | <b>3rd Five Year Plan (1.4.61 to 31.03.66)</b> |                |                        |             |               |
| 11      |                                                | 1961-62        | 63.33                  |             |               |
| 12      |                                                | 1962-63        | 65.12                  |             |               |
| 13      |                                                | 1963-64        | 544.08                 |             |               |
| 14      |                                                | 1964-65        | 599.02                 |             |               |
| 15      |                                                | 1965-66        | <u>895.34</u>          |             |               |
|         |                                                | <b>Total :</b> | <b><u>2166.89</u></b>  |             |               |
|         | <b>Annual Plans (1966-67, 67-68, 68-69)</b>    |                |                        |             |               |
| 16      |                                                | 1966-67        | 431.67                 |             |               |
| 17      |                                                | 1967-68        | 1061.29                |             |               |
| 18      |                                                | 1968-69        | 654.12                 |             |               |
|         |                                                | <b>Total :</b> | <b><u>2147.08</u></b>  |             |               |
|         | <b>4th Five Year Plan (1.4.69 to 31.03.74)</b> |                |                        |             |               |
| 19      |                                                | 1969-70        | 497.32                 |             |               |
| 20      |                                                | 1970-71        | 358.04                 |             |               |
| 21      |                                                | 1971-72        | 317.04                 |             |               |
| 22      |                                                | 1972-73        | 653.54                 |             |               |
| 23      |                                                | 1973-74        | 181.96                 |             |               |
|         |                                                | <b>Total :</b> | <b><u>2007.9</u></b>   | 5746        | 34.94         |
|         | <b>5th Five Year Plan (1.4.74 to 31.03.79)</b> |                |                        |             |               |
| 24      |                                                | 1974-75        | 1089.18                |             |               |
| 25      |                                                | 1975-76        | 866.02                 |             |               |
| 26      |                                                | 1976-77        | 790.23                 |             |               |
| 27      |                                                | 1977-78        | 1204.8                 |             |               |
| 28      |                                                | 1978-79        | <u>2198.5</u>          |             |               |
|         |                                                | <b>Total :</b> | <b><u>6148.73</u></b>  | 7845        | 78.38         |
| 29      |                                                | 1979-80        | <b><u>1216.87</u></b>  | 2265        | 53.72         |
|         | <b>6th Five Year Plan (1.4.80 to 31.03.85)</b> |                |                        |             |               |
| 30      |                                                | 1980-81        | 1138.6                 |             |               |
| 31      |                                                | 1981-82        | 1749.82                |             |               |
| 32      |                                                | 1982-83        | 2135.13                |             |               |
| 33      |                                                | 1983-84        | 2940.89                |             |               |
| 34      |                                                | 1984-85        | 2641.4                 |             |               |
|         |                                                | <b>Total :</b> | <b><u>10605.84</u></b> | 14898       | 71.19         |

| Sl. No. |                                                   | Year           | Capacity Addition (MW) | Target (MW)    | % Achievement |
|---------|---------------------------------------------------|----------------|------------------------|----------------|---------------|
|         | <b>7th Five Year Plan (1.4.85 to 31.03.90)</b>    |                |                        |                |               |
| 35      |                                                   | 1985-86        | 2977                   |                |               |
| 36      |                                                   | 1986-87        | 1920                   |                |               |
| 37      |                                                   | 1987-88        | 3912                   |                |               |
| 38      |                                                   | 1988-89        | 4117.3                 |                |               |
| 39      |                                                   | 1989-90        | 4167                   |                |               |
|         |                                                   | <b>Total :</b> | <b>17093.3</b>         | 15999          | 106.84        |
|         | <b>Annual Plans (1990-91, 91-92)</b>              |                |                        |                |               |
| 40      |                                                   | 1990-91        | <b>2364</b>            | 3962           | 59.67         |
| 41      |                                                   | 1991-92        | <b>2370.5</b>          | 4512           | 52.54         |
|         | <b>8th Five Year Plan (1.4.92 to 31.03.97)</b>    |                |                        |                |               |
| 42      |                                                   | 1992-93        | 2944.32                |                |               |
| 43      |                                                   | 1993-94        | 3741.6                 |                |               |
| 44      |                                                   | 1994-95        | 3928.5                 |                |               |
| 45      |                                                   | 1995-96        | 1976.5                 |                |               |
| 46      |                                                   | 1996-97        | 963                    |                |               |
|         |                                                   | <b>Total :</b> | <b>13553.92</b>        | 20156          | 67.25         |
|         | <b>9th Five Year Plan (1.4.97 to 31.03.2002)</b>  |                |                        |                |               |
| 47      |                                                   | 1997-98        | 2993.5                 |                |               |
| 48      |                                                   | 1998-99        | 3724.5                 |                |               |
| 49      |                                                   | 1999-2000      | 2696                   |                |               |
| 50      |                                                   | 2000-01        | 2277.9                 |                |               |
| 51      |                                                   | 2001-02        | 2009                   |                |               |
|         |                                                   | <b>Total :</b> | <b>13700.9</b>         | 29550.7        | 46.36         |
|         | <b>10th Five Year Plan (1.4.02 to 31.03.07)</b>   |                |                        |                |               |
| 52      |                                                   | 2002-03        | 2223.1                 |                |               |
| 53      |                                                   | 2003-04        | 1361.6                 |                |               |
| 54      |                                                   | 2004-05        | 2933.92                |                |               |
| 55      |                                                   | 2005-06        | 1588.8                 |                |               |
| 56      |                                                   | 2006-07        | 4006.8                 |                |               |
|         |                                                   | <b>Total :</b> | <b>12114.22</b>        | 25416.2        | 47.66         |
|         | <b>11th Five Year Plan (1.4.07 to 31.03.12)</b>   |                |                        |                |               |
| 57      |                                                   | 2007-08        | 6620                   |                |               |
| 58      |                                                   | 2008-09        | 2484.7                 |                |               |
| 59      |                                                   | 2009-10        | 9106                   |                |               |
| 60      |                                                   | 2010-11        | 11250.5                |                |               |
| 61      |                                                   | 2011-12        | 19078.7                |                |               |
|         |                                                   | <b>Total</b>   | <b>48539.9</b>         | 59693          | 81.32         |
|         | <b>12th Five Year Plan (01.04.12 to 31.03.17)</b> |                |                        |                |               |
| 62      |                                                   | 2012-13        | 20121.8                | <b>15154.3</b> | 132.78        |
| 63      |                                                   | 2013-14        | 16767                  | <b>15234.3</b> | 110.06        |
| 64      |                                                   | 2014-15        | 20830.3                | <b>14988.3</b> | 138.98        |
| 65      |                                                   | 2015-16        | 22460.6                | <b>17346.1</b> | 129.49        |
| 65      |                                                   | 2016-17        | 11550.75               | <b>13440.5</b> | 85.94         |
|         |                                                   | <b>Total</b>   | <b>91730.45</b>        | <b>76163.5</b> | 120.44        |

## 9. Thermal Generating Capacity in the country since inception of 1st Five year plan

| Plan/ Duration               | Capacity Addition (MW) | Cumulative (MW) |
|------------------------------|------------------------|-----------------|
| 1st Plan (1.1.51 to 31.3.56) | 602.11                 | 1755            |
| 2nd Plan (1956-61)           | 981.05                 | 2736            |
| 3rd Plan (1961-66)           | 2166.89                | 4903            |
| Annual Plan (1966-67)        | 431.67                 | 5335            |
| Annual Plan (1967-68)        | 1061.29                | 6396            |
| Annual Plan (1968-69)        | 654.12                 | 7050            |
| 4th Plan (1969-74)           | 2007.9                 | 9058            |
| 5th Plan (1974-79)           | 6148.73                | 15207           |
| Annual Plan (1979-80)        | 1216.87                | 16424           |
| 6th Plan (1980-85)           | 10606.00               | 27030           |
| 7th Plan (1985-90)           | 17093.3                | 44123           |
| Annual Plan (1990-91)        | 2364.00                | 46487           |
| Annual Plan (1991-92)        | 2370.50                | 48858           |
| 8th Plan (1992-97)           | 13554.82               | 62412           |
| 9th Plan (1997-2002)         | 13700.90               | 76113           |
| 10th Plan (2002-07)          | 12114.24               | 88228           |
| 11th Plan (2007-12)          | 48539.90               | 136768          |
| 12th Plan (2012-17)          | 91730.45               | 228498          |

### 9.1 Bar Chart representing Plan-wise Growth of Thermal Capacity

