# BROAD STATUS REPORT
# JULY, 2021
# UNDER CONSTRUCTION THERMAL POWER PROJECTS


**Thermal Project Monitoring Division**

Central Electricity Authority

New Delhi

Ministry of Power

Government of India

www.cea.nic.in


**(In fulfillment of CEA's obligation under section 73(f) of Electricity Act, 2003)**

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# FOREWORD

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

In this context, Thermal Project Monitoring Division, Central Electricity Authority has been bringing out monthly report titled "Broad Status of Thermal Power Projects in the Country". This report gives year-wise details of thermal power projects commissioned during 12$^{th}$ plan and onwards. Further, the Report includes up-to-date information on thermal power projects under construction in the country wherein the details regarding name of the Project, capacity, location, implementing agency, commissioning schedule, type of fuel, estimated cost, the milestones achieved as on date etc. are available. The critical issues requiring immediate attention of concerned authorities in the implementation of these thermal power projects have also been highlighted. Construction activities in most of the under construction thermal power projects are moving at a slow pace due to the impact of COVID-19 pandemic.

The Broad Status Report is being brought out regularly by TPM Division on the basis of the data forwarded by various project authorities, visits made by CEA officers to various power projects, discussions held with the executing agencies and suppliers of equipment from time to time. However, due to travel restrcitions imposed due to COVID-19 pandemic, review meeting are being held with project authorities through video conferencing to access the project construction status.

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

Chief Engineer (TPM)

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

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## 0.0 Overview of under construction TPPs in the country:

(As on 31.07.2021)

### (a) All India Installed Capacity (MW)*

| Sector | Thermal | | | | | Nuclear | Hydro | Res | Grand total |
|---|---|---|---|---|---|---|---|---|---|
| | Coal | Lignite | Gas | Diesel | Total | | | | |
| **State** | 65931.5 | 1150 | 7087.355 | 236.008 | 74404.863 | 0 | 27069.5 | 2401.27 | **103875.633** |
| **Private** | 74173 | 1830 | 10598.744 | 273.701 | 86875.445 | 0 | 3651 | 94849.14 | **185375.585** |
| **Central** | 62700 | 3640 | 7237.91 | 0 | 73577.91 | 6780 | 15646.72 | 1632.3 | **97636.93** |
| **Total** | **202804.50** | **6620.00** | **24924.01** | **509.71** | **234858.22** | **6780.00** | **46367.22** | **98882.71** | **386888.15** |
| **In % of Grand Total** | 52.42 | 1.71 | 6.44 | 0.13 | 60.70 | 1.75 | 11.98 | 25.56 | 100 |

* Taken from Installed Capacity Report NPP/ MoP site.

### (b) Tentative Under Construction Thermal Capacity likely to be included into National Capacity (at the beginning of FY 2021-22) :

| FY | 2021-22 | 2022-23 | 2023-24 | 2024-25 | Total (MW) | Work is on hold/ Not likely to be commissioned | Grand Total (MW) |
|---|---|---|---|---|---|---|---|
| **Central** | **5400** | **3400** | **4240** | **1460** | **14540** | **500** | **15040** |
| **State** | **4360** | **8200** | **3060** | **1600** | **17220** | **660** | **17880** |
| **Private** | **525** | **0** | **0** | **0** | **525** | **23205** | **23730** |
| **Total** | **10285** | **11640** | **7300** | **3060** | **32285** | **24365** | **56650** |

* The list of under construction TPP where work is on hold / not likely to be commissioned is at Page No. 23-25.
Further, the details of the same may be seen in Monthly Broad Status report for the month of Jan-21.
https://cea.nic.in/wp-content/uploads/thermal_broad/2021/01/broad_status.pdf

### (c ) Total Under Construction TPPs in the country:

As on 31.07.2021

| Sector | Super Critical (MW) | Sub-Critical (MW) | Total (MW) | Total No. of Projects | Total No of Units |
|---|---|---|---|---|---|
| **Central** | 13240 | 1000 | **14240** | **12** | **23** |
| **State** | 17240 | 640 | **17880** | **17** | **26** |
| **Private** | 9240 | 14490 | **23730** | **26** | **53** |
| **Total** | **39720** | **16130** | **55850** | **55** | **102** |

## 1.0 Capacity Addition during 12th Plan and beyond:

### 1.1 Total Capacity Addition Target (MW) during 12th Plan:

| Sector | Thermal | Hydro | Nuclear | Total |
|---|---|---|---|---|
| Central | 14877.6 | 6004 | 5300 | 26181.6 |
| State | 13922 | 1608 | - | 15530 |
| Private | 43540 | 3285 | - | 46825 |
| **Total** | **72339.6** | **10897** | **5300** | **88536.6** |

### 1.2 Year Wise / Sector Wise Thermal Capacity Addition Achievement against Revised Target during 12th Plan:

| Year | Thermal capacity addition during 12th Plan (MW) | | | | Revised Target | % Achievement |
|---|---|---|---|---|---|---|
| | Central | State | Private | Total | | |
| 2012-13 | 5023.3 | 3911 | 11187.5 | 20121.8 | 15154.3 | 132.78% |
| 2013-14 | 1660 | 3322 | 11785 | 16767 | 15234.3 | 110.06% |
| 2014-15 | 2659.2 | 4886.1 | 13285 | 20830.3 | 14988.3 | 138.98% |
| 2015-16 | 3295.6 | 6460 | 12705 | 22460.6 | 17346.1 | 129.49% |
| 2016-17 | 3230.5 | 3622.25 | 4698 | 11550.75 | 13440.5 | 85.94% |
| **Total** | **15868.6** | **22201.35** | **53660.5** | **91730.45** | **76163.5** | **120.44%** |

### 1.3 Sector-wise Thermal Capacity Addition during FY 2017-18, FY 2018-19, FY 2019-20, FY 2020-21:

| Thermal capacity addition (MW) after 12th Plan (from 01.04.2017 onwards) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 2017 -18 | | 2018-19 | | 2019-20 | | 2020-21 | |
| Sector | Target | Achievement | Target | Achievement | Target | Achievement | Target | Achievement |
| Central | 4880 | 3170 | 2760 | 1300 | 6040 | 3940 | 5790 | 4080 |
| State | 3546.15 | 1260 | 4506.15 | 2780 | 4256.15 | 2780 | 4276.15 | 846.15 |
| Private | 2940 | 2280 | Nil | Nil | Nil | Nil | 525 | 0 |
| **Total** | **11366.15** | **6710** | **7266.15** | **4080** | **10296.15** | **6720** | **10591.15** | **4926.15** |
| Additional Thermal Capacity included in Capacity Addition | | | | | | | | |
| Central | - | 0 | - | 660 | - | - | - | 0 |
| State | - | 500 | - | 69.755 | - | - | - | 0 |
| Private | - | 1500 | - | 972 | - | 45 | - | 0 |
| **Total** | **-** | **2000** | **-** | **1701.76** | - | **45** | - | **0** |
| **Grand Total** | **11366.15** | **8710** | **7266.15** | **5781.76** | **10296.15** | **6765** | **10591.15** | **4926.15** |

### 1.4 Thermal Capacity Addition during the FY 2021-22:

| Sector | Target | Achievement |
|---|---|---|
| Central | 5400 | 800 |
| State | 4360 | 0 |
| Private | 525 | 0 |
| **Total** | **10285** | **800** |

## 1.5 Thermal Capacity Addition Target (RFD)for the FY 2021-22 (as on 31.07.2021)

| Sl. No. | Project Name | Unit No. | Capacity (MW) | Developer / Imp. Agency | State | BTG Supplier | Trial Run anticipated at the Beginning of the year | Trial Run Assessment as per latest Review with CEA/MoP | Capacity Achieved (MW) | Actual Date of Cap. Addition |
|---|---|---|---|---|---|---|---|---|---|---|
| **CENTRAL SECTOR** | | | | | | | | | | |
| 1 | Barh STPP-I | 1 | 660 | NPGCL | Bihar | Boiler: DPSI TG: Power Machine Russia | July'21 | Aug'21 | | |
| 2 | Darlipalli STPP St-I | 2 | 800 | NTPC | Odisha | Boiler: BHEL TG: Toshiba | Aug'21 | July'21 | 800 | 21.07.21(A) |
| 3 | Nabi Nagar TPP | 4 | 250 | BRBCL (JV of NTPC & Rly) | Bihar | BTG: BHEL | Aug'21 | Sept'21 | | |
| 4 | Rourkela TPP-II Expansion | 1 | 250 | NSPCL (JV of NTPC & SAIL) | Odisha | BTG: BHEL | Sep'21 | Oct'21 | | |
| 5 | Nabi Nagar STPP | 3 | 660 | NPGCL | Bihar | Boiler: BHEL TG: Alstom & BHarat Forge | Oct'21 | Nov'21 | | |
| 6 | North Karanpura STPP | 1 | 660 | NTPC | Jharkhand | BTG: BHEL | Oct'21 | Feb'22 | | |
| 7 | Ghatampur TPP | 1 | 660 | NUPPL (JV of NLC & UPRVUNL) | U.P. | Boiler: MHPS TG:Alstom & BHarat Forge | Mar'22 | Mar'22 | | |
| 8 | Telangana STPP-I | 1 | 800 | NTPC | Telangana | Boiler: BHEL TG: Alstom & BHarat Forge | Mar'22 | Mar'22 | | |
| 9 | Barh STPP-I | 2 | 660 | NTPC | Bihar | Boiler: DPSI TG: Power Machine Russia | Mar'22 | June'22 | | |
| **Total Central Sector** | | | **5400** | | | | | | **800** | |
| **STATE SECTOR** | | | | | | | | | | |
| 1 | Suratgarh SCTPP | 8 | 660 | RRVUNL | Rajasthan | SG: BHEL(Alstom) TG:BHEL(Siemens) | Jun'21 | Aug'21 | | |
| 2 | Sri Damodaran Sanjeevaiah TPP St-II | 1 | 800 | APGENCO | Andhra Pradesh | BTG: BHEL | Jul'21 | Aug'21 | | |
| 3 | Harduaganj TPS Exp-II | 1 | 660 | UPRVUNL | U.P. | Boiler: Toshiba(Doosan) TG: Toshiba(Toshiba) | Jul'21 | Oct'21 | | |
| 4 | Bhadradri TPP | 4 | 270 | TSGENCO | Telanganaa | BTG: BHEL | Sep'21 | Sep'21 | | |
| 5 | Yelahanka CCPP | GT +ST | 370 | KPCL | Karnataka | EPC: BHEL | Sep'21 | Nov'21 | | |
| 6 | Dr. Narla Tata Rao TPS St-V | 1 | 800 | APGENCO | Andhra Pradesh | BTG: BHEL | Oct'21 | Oct'21 | | |
| 7 | North-Chennai TPP St-III | 1 | 800 | TANGEDCO | Tamil Nadu | Boiler: BHEL(Alstom) TG: BHEL(Siemens) | Dec'21 | Feb'22 | | |
| **Total State Sector** | | | **4360** | | | | | | **0** | |
| **PRIVATE SECTOR** | | | | | | | | | | |
| 1 | Tuticorin TPP Stage-IV | 1 | 525 | SEPC | Tamil Nadu | Boiler: MEIL (BHEL) TG: MEIL (BHEL) | May'21 | Aug'21 | | |
| **Total Private Sector** | | | **525** | | | | | | **0** | |
| **Total Thermal Capacity** | | | **10285** | | | | | | **800** | |

## 2.1 Thermal Capacity Addition during the Year 2012-13

| State | Project Name | Impl Agency | Boiler | TG | LOA date | Fuel | Unit No | Cap. (MW) | Actual Comm.Date (Full Load) | COD |
|---|---|---|---|---|---|---|---|---|---|---|
| **Central Sector** | | | | | | | | | | |
| Chattisgarh | Sipat -I | NTPC | Dosan korea | Power Machine Russia | Apr-04 | Coal | U-3 | 660 | 02-06-12 | 01-08-12 |
| Haryana | Indira Gandhi TPP | APCPL | BHEL | BHEL | Jul-07 | Coal | U-3 | 500 | 07-11-12 | 26-04-13 |
| Jharkhand | Kodarma TPP | DVC | BHEL | BHEL | Jun-07 | Coal | U-2 | 500 | 15-02-13 | 14-06-14 |
| Maharashtra | Mouda TPP | NTPC | BHEL | BHEL | Nov-08 | Coal | U-1 | 500 | 19-04-12 | 13-03-13 |
| Maharashtra | Mouda TPP | NTPC | BHEL | BHEL | Nov-08 | Coal | U-2 | 500 | 29-03-13 | Mar-14 |
| Madhya Pradesh | Vindhyachal TPP-IV | NTPC | BHEL | BHEL | Jan-09 | Coal | U-11 | 500 | 14-06-12 | 01-03-13 |
| Madhya Pradesh | Vindhyachal TPP-IV | NTPC | BHEL | BHEL | Jan-09 | Coal | U-12 | 500 | 22-03-13 | Mar-14 |
| Tamil Nadu | Vallur TPP Ph-I | NTECL | BHEL | BHEL | Aug-07 | Coal | U-2 | 500 | 28-02-13 | 25-08-13 |
| Tripura | Palatana (Tripura Gas) | ONGC | BHEL | BHEL | Jun-08 | Gas | Module-1 | 363.3 | 03-01-13 | 04-01-14 |
| Uttar Pradesh | Rihand TPP-III | NTPC | BHEL | BHEL | Feb-09 | Coal | U-5 | 500 | 25-05-12 | 19-11-12 |
| **Total Central Sector** | | | | | | | | **5023.3** | | |
| **State Sector** | | | | | | | | | | |
| Chattisgarh | Korba West Extn.St.III TPP | CSEB | BHEL | BHEL | NA | Coal | U-5 | 500 | 22-03-13 | 05-09-13 |
| Delhi | Pragati CCGT - III | PPCL | BHEL | BHEL | May-08 | Gas | GT-3 | 250 | 27-06-12 | 28-10-13 |
| Gujarat | Pipavav CCPP | GSECL | BHEL | BHEL | Dec-07 | Gas | Block-2 | 351 | 27-03-13 | 27-03-13 |
| Gujarat | Ukai TPP Extn | GSECL | BHEL | BHEL | Sep-07 | Coal | U-6 | 500 | 05-03-13 | 08-06-13 |
| Madhya Pradesh | Satpura TPP Extn. | MPPGCL | BHEL | BHEL | Mar-08 | Coal | U-10 | 250 | 22-03-13 | 18-08-13 |
| Rajasthan | Ramgarh CCGT | RRVUNL | BHEL | BHEL | Aug-09 | Gas | GT | 110 | 20-03-13 | 06-12-13 |
| Tamil Nadu | Mettur TPP Ext | TNEB | BGR Energy-System Ltd. | BGR Energy-System Ltd. | Aug-08 | Coal | U-1 | 600 | 11-10-12 | 12-10-13 |
| Tamil Nadu | North Chennai Extn. | TNEB | BHEL | BHEL | Aug-08 | Coal | U-2 | 600 | 09-03-13 | 08-05-14 |
| Uttar Pradesh | Harduaganj Ext | UPRVUNL | BHEL | BHEL | Jun-06 | Coal | U-9 | 250 | 11-03-2013 | 10-10-13 |
| Uttar Pradesh | Parichha Extn | UPRVUNL | BHEL | BHEL | Jun-06 | Coal | U-5 | 250 | 24-05-12 | 17-07-12 |
| Uttar Pradesh | Parichha Extn | UPRVUNL | BHEL | BHEL | Jun-06 | Coal | U-6 | 250 | 11-03-13 | 18-04-13 |
| **Total State Sector** | | | | | | | | **3911** | | |
| **Private Sector** | | | | | | | | | | |
| Andhra Pradesh | Simhapuri TPP Ph-1 | Madhucon Projects Ltd. | Wuxi, China | Harbin, China | Jan-09 | Coal | U-2 | 150 | 02-07-12 | 15-07-12 |
| Andhra Pradesh | Thamminapatnam TPP-I | Meenakshi Energy Pvt. Ltd. | Thermax Ltd., Pune | CNAICO, China (Harbin) | Aug-09 | Coal | U-1 | 150 | 09-09-12 | 07-10-12 |
| Chattisgarh | Kasaipalli TPP | M/s ACB (India) | Cethar Vessels Ltd. | Cethar Vessels Ltd. | Nov-08 | Coal | U-2 | 135 | 21-06-12 | 21-06-12 |
| Chattisgarh | Ratija TPP | SCPL | QJPS, China | QJPS, China | NA | Coal | U-1 | 50 | 04-02-13 | 27-02-13 |
| Gujarat | Mundra Ultra Mega TPP | Tata Power Co. | Dosan | Dosan | May-07 | Coal | U-2 | 800 | 25-07-12 | 28-07-12 |
| Gujarat | Mundra Ultra Mega TPP | Tata Power Co. | Dosan | Dosan | May-07 | Coal | U-3 | 800 | 16-10-12 | 27-10-12 |
| Gujarat | Mundra Ultra Mega TPP | Tata Power Co. | Dosan | Dosan | May-07 | Coal | U-4 | 800 | 16-01-13 | 21-01-13 |
| Gujarat | Mundra Ultra Mega TPP | Tata Power Co. | Dosan | Dosan | Jun-07 | Coal | U-5 | 800 | 18-03-13 | 22-03-13 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Gujarat | UNO-SUGEN CCPP | Torrent Power Ltd. | Siemens AG, Germany & Siemens India Ltd. | Siemens AG, Germany & Siemens India Ltd. | NA | Gas | Mod-1 | 382.5 | 20-01-13 | 04-04-13 |
| Gujarat | Salaya TPP | ESSAR | Harbin Power | Harbin Power | Nov-07 | Coal | U-2 | 600 | 13-06-12 | 15-06-12 |
| Haryana | Jhajjar TPP (Mahatma Gandhi TPP) | CLP Power India Pvt. Ltd. | SEPCOIII, China | SEPCOIII, China | Jan-09 | Coal | U-2 | 660 | 11-04-12 | 19-07-12 |
| Jharkhand | Adhunik Power TPP | Adhunik Power Co. Ltd. | BHEL | BHEL | May-09 | Coal | U-1 | 270 | 19-11-12 | 21-01-13 |
| Jharkhand | Adhunik Power TPP | Adhunik Power Co. Ltd. | BHEL | BHEL | May-09 | Coal | U-2 | 270 | 29-03-13 | 19-05-13 |
| Maharashtra | Bela TTP-I | IEPL | BHEL | BHEL | Dec-08 | Coal | U-1 | 270 | 20-03-13 | 18-07-13 |
| Maharashtra | Butibori TPP | Vidarbha Industries Power | Shanghai Electric Company, China | Shanghai Electric Company, China | Dec-09 | Coal | U-2 | 300 | 17-08-12 | 04-04-13 |
| Maharashtra | EMCO Warora TPP | EMCO Energy Ltd. (GMR) | Shanghai Electric Company, China | Shanghai Electric Company, China | Sep-09 | Coal | U-1 | 300 | 07-02-13 | 19-03-13 |
| Maharashtra | Tirora TPP Ph-I | Adani Power Ltd | SCMEC, China (Babcock, China) | SCMEC, China (BSTG, China) | Feb-08 | Coal | U-1 | 660 | 11-09-12 | 23-09-12 |
| Maharashtra | Tirora TPP Ph-I | Adani Power Ltd | SCMEC, China (Babcock, China) | SCMEC, China (BSTG, China) | Feb-08 | Coal | U-2 | 660 | 25-03-13 | 30-03-13 |
| Maharashtra | GEPL TPP | GEPL Pvt. Ltd. | Thyssenkrupp Indstries India Pvt. Ltd. | China National Automotive Industries International Cooperation | Mar-09 | Coal | U-2 | 60 | 28-04-12 | NA |
| Maharashtra | GEPL TPP | GEPL Pvt. Ltd. | Thyssenkrupp Indstries India Pvt. Ltd. | China National Automotive Industries International Cooperation | Mar-09 | Coal | U-1 | 60 | 08-09-12 | 09-05-12 |
| Maharashtra | Amaravathi TPP Ph-I | Indiabulls | BHEL | BHEL | NA | Coal | U-1 | 270 | 25-03-13 | 03-06-13 |
| Madhya Pradesh | Bina TPP | Bina Power Ltd. | BHEL | BHEL | Sep-08 | Coal | U-1 | 250 | 12-08-12 | 30-08-12 |
| Madhya Pradesh | Bina TPP | Bina Power Ltd. | BHEL | BHEL | Sep-08 | Coal | U-2 | 250 | 31-03-13 | 07-04-13 |
| Madhya Pradesh | Mahan | Essar Power Ltd. | Harbin Power Co. Ltd, China | Harbin Power Co. Ltd, China | NA | Coal | U-1 | 600 | 24-02-13 | 29-04-13 |
| Odisha | Sterlite TPP | Sterlite Energy Ltd. | SEPCOIII, China | SEPCOIII, China | Sep-08 | Coal | U-4 | 600 | 25-04-12 | 26-04-12 |
| Odisha | Kamalanga TPP | GMR Chhattisgarh Power Ltd. | Herbin, China | Dong Fang Electric Corp. China | 27.05.2009 | Coal | U-1 | 350 | 29-03-13 | 25-03-14 |
| Rajasthan | Jallipa- Kapurdi TPP | Raj west power Ltd (JSW) | Dongfang Electric Corp., China | Dongfang Electric Corp., China | Mar-07 | Lignite | U-5 | 135 | 05-02-13 | 05-02-13 |
| Rajasthan | Jallipa- Kapurdi TPP | Raj west power Ltd (JSW) | Dongfang Electric Corp., China | Dongfang Electric Corp., China | Apr-07 | Lignite | U-6 | 135 | 03-03-13 | 03-03-13 |
| Rajasthan | Jallipa- Kapurdi TPP | Raj west power Ltd (JSW) | Dongfang Electric Corp., China | Dongfang Electric Corp., China | Jun-07 | Lignite | U-7 | 135 | 16-03-13 | 16-03-13 |
| Rajasthan | Jallipa- Kapurdi TPP | Raj west power Ltd (JSW) | Dongfang Electric Corp., China | Dongfang Electric Corp., China | May-07 | Lignite | U-8 | 135 | 28-02-2013 | 28-02-13 |
| Tamil Nadu | Tuticorin TPP | Ind Barath | Hangzhou Boiler Group Company Limited | Hangzhou Steam Turbine Company Limited | NA | Coal | U-1 | 150 | 10-03-2013 | 07-02-13 |
| **Total Private Sector** | | | | | | | | **11187.5** | | |
| **Total FY 2012-13** | | | | | | | | **20121.8** | | |

## 2.2 Thermal Capacity Addition during the Year 2013-14

| State | Project Name | Impl Agency | Boiler | TG | LOA date | Fuel | Unit No | Cap. (MW) | Actual Comm.Date (Full Load) | COD |
|---|---|---|---|---|---|---|---|---|---|---|
| **CENTRALSECTOR** | | | | | | | | | | |
| Bihar | Barh STPP St-II | NTPC | BHEL | BHEL | Mar-08 | Coal | 4 | 660 | 30-11-2013 | 15-11-14 |
| Tamil Nadu | Vallur TPP Ph-I | NTPC-JV | BHEL | BHEL | Jul-09 | Coal | 3 | 500 | 28-02-14 | 26-02-15 |
| Uttar Pradesh | Rihand STPP St-III | NTPC | BHEL | BHEL | Feb-09 | Coal | 6 | 500 | 07-10-13 | Mar-14 |
| **Total Central Sector** | | | | | | | | **1660** | | |
| **State Sector** | | | | | | | | | | |
| Chattisgarh | Marwa TPP | CSEB | BHEL | BHEL | Apr-08 | Coal | 1 | 500 | 30-03-14 | 31.03.2016 |
| Delhi | Pragati St-III CCGT | PPCL | BHEL | BHEL | May-08 | Gas | GT-4 | 250 | 07-05-13 | 27-02-14 |
| Delhi | Pragati St-III CCGT | PPCL | BHEL | BHEL | May-08 | Gas | ST-2 | 250 | 26-02-14 | 27-03-14 |
| Gujarat | Pipavav JV CCGT | GSECL | BHEL | BHEL | Dec-07 | Gas | Block-1 | 351 | 05-02-14 | NA |
| Madhya Pradesh | Shree Singaji TPP(Malwa TPP) | MPPGCL | BHEL | BHEL | Dec-08 | Coal | 1 | 600 | 18-11-13 | Feb-14 |
| Madhya Pradesh | Satpura TPS Extn. | MPPGCL | BHEL | BHEL | Mar-08 | Coal | 11 | 250 | 25-12-13 | 16-03-14 |
| Rajasthan | Chhabra TPS Extn. | RRVUNL | BHEL | BHEL | Aug-08 | Coal | 3 | 250 | 14-09-13 | 19-12-13 |
| Tamil Nadu | North Chennai TPS Extn. | TNEB | BHEL | BHEL | Aug-08 | Coal | 1 | 600 | 13-09-13 | 20-03-14 |
| Tripura | Rokhia GT | Tripura State Electricity Corporation Ltd. | BHEL | BHEL | 01.01.2008 | Gas | 9 | 21 | 31-08-13 | NA |
| West Bengal | Durgapur TPS Extn | DPL | BHEL | BHEL | NA | Coal | 8 | 250 | 31-03-14 | NA |
| **Total State Sector** | | | | | | | | **3322** | | |
| **Private Sector** | | | | | | | | | | |
| Andhra Pradesh | Thamminapatnam TPP | Meenakshi Energy | Thermax Ltd., Pune | CNAICO, China | Aug-09 | Coal | 2 | 150 | 17-04-2013 | 30-04-13 |
| Andhra Pradesh | Simhapuri TPS Ph-II | Simhapuri Energy Pvt Ltd | Wuxi, China | Harbin, China | Mar-10 | Coal | 3 | 150 | 21-02-2014 | 26-02-14 |
| Chattisgarh | Tamnar TPP | Jindal Power | BHEL | BHEL | Dec-08 | Coal | 1 | 600 | 10-03-14 | 14-03-14 |
| Chattisgarh | Tamnar TPP | Jindal Power | BHEL | BHEL | Dec-08 | Coal | 2 | 600 | 30-03-14 | 31-03-14 |
| Chattisgarh | DB Power TPP | DB Power Ltd | BHEL | BHEL | May-10 | Coal | 1 | 600 | 23-02-14 | 03-11-14 |
| Chattisgarh | Akaltara TPP | KSK Mahanadi | SEC, China | Dong Fang Electric Corp. China | Apr-09 | Coal | 1 | 600 | 13-08-13 | 14-08-13 |
| Chattisgarh | Chakabura TPP | ACBIL | Sichuan Chuanguan Boiler Co. China | Siemens Ltd. Baroda | NA | Coal | 1 | 30 | 28-03-14 | 30-03-14 |
| Chattisgarh | Avantha Bhandar TPP | KWPCL | BHEL | BHEL | NA | Coal | 1 | 600 | 31-03-14 | 01-04-14 |
| Gujarat | Dgen CCPP | Torrent Power | Siemens AG, Germany & Siemens India Ltd. | Siemens AG, Germany & Siemens India Ltd. | Jul-10 | Gas | Block-I | 400 | 12-01-14 | NA |
| Gujarat | Dgen CCPP | Torrent Power | Siemens AG, Germany & Siemens India Ltd. | Siemens AG, Germany & Siemens India Ltd. | Jul-10 | Gas | Block-3 | 400 | 09-03-14 | NA |
| Maharashtra | Amaravati TPP Ph-I | India bulls Power Ltd | BHEL | BHEL | Nov-09 | Coal | 2 | 270 | 17-02-14 | 28-03-14 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Maharashtra | Nasik TPP Ph-I | India Bulls | BHEL | BHEL | Nov-09 | Coal | 1 | 270 | 25-02-14 | 29-03-14 |
| Maharashtra | Dhariwal Infrastructure (P) Ltd.TPP | Dhariwal Infra-structure (P) Ltd. | SEC, China | SEC, China | Apr-10 | Coal | 1 | 300 | 03-11-13 | 13-02-14 |
| Maharashtra | EMCO Warora TPP | GMR EMCO Energy Ltd. | SEC, China | SEC, China | Sep-09 | Coal | 2 | 300 | 27-08-13 | 01-09-13 |
| Maharashtra | Tirora TPP Ph-II | Adani Power | SCMEC, CHINA | SCMEC, CHINA | Feb-08 | Coal | 1 | 660 | 10-06-13 | 14-06-13 |
| Maharashtra | Tirora TPP Ph-II | Adani Power | SCMEC, CHINA | SCMEC, CHINA | Feb-08 | Coal | 2 | 660 | 23-03-14 | 31-03-14 |
| Maharashtra | Butibori TPP Ph-II | Vidarbha Industries Power Ltd | SEC, China | SEC, China | Dec-09 | Coal | 1 | 300 | 19-03-13 | 28-03-14 |
| Madhya Pradesh | Sasan UMPP | Reliance Power | SEC, China | SEC, China | Jun-08 | Coal | 3 | 660 | 30-05-13 | NA |
| Madhya Pradesh | Sasan UMPP | Reliance Power | SEC, China | SEC, China | Jun-08 | Coal | 2 | 660 | 18-12-13 | NA |
| Madhya Pradesh | Sasan UMPP | Reliance Power | SEC, China | SEC, China | Jun-08 | Coal | 4 | 660 | 25-03-14 | 12-04-14 |
| Madhya Pradesh | BLA Power(Niwari) TPP | BLA Power Pvt.Ltd | ISGEC | Siemens | NA | Coal | 1 | 45 | 24-03-12 | 03-04-12 |
| Odisha | Kamalang TPP | GMR Energy | Herbin, China | Dong Fang Electric Corp. China | Aug-08 | Coal | 2 | 350 | 28-09-13 | 12-11-13 |
| Odisha | Kamalang TPP | GMR Energy | Herbin, China | Dong Fang Electric Corp. China | Aug-08 | Coal | 3 | 350 | 21-03-14 | 25-03-14 |
| Punjab | Rajpura TPP | Nabha Power | L&T | L&T | Jul-10 | Coal | 1 | 700 | 24-01-14 | 01-02-14 |
| Rajasthan | Kawai TPP | Adani Power Ltd. | Electrogen Indra FZE | Shanghai Electric, China | Apr-10 | Coal | 1 | 660 | 28-05-13 | 31-05-13 |
| Rajasthan | Kawai TPP | Adani Power Rajasthan Ltd. | Electrogen Indra FZE | Shanghai Electric, China | Apr-10 | Coal | 2 | 660 | 24-12-13 | 31-05-14 |
| Tamil Nadu | Tuticorin Indbarath | Indbarath Ltd | Hangzhou Boiler Group Company Limited | Hangzhou Steam Turbine Company Limited | NA | Coal | 2 | 150 | 30-12-13 | 15-03-14 |
| **Total Private Sector** | | | | | | | | **11785** | | |
| **Total FY 2013-14** | | | | | | | | **16767** | | |

## 2.3 Thermal Capacity Addition during the Year 2014-15

| State | Project Name | Impl Agency | Boiler | TG | LOA date | Fuel | Unit No | Cap. (MW) | Actual Comm.Date (Full Load) | COD |
|---|---|---|---|---|---|---|---|---|---|---|
| **CENTRAL SECTOR** | | | | | | | | | | |
| Bihar | Barh STPP-II | NTPC | BHEL | BHEL | SG:03/2008 TG:10/2008 | Coal | U-5 | 660 | 04.03.15 | 18.02.2016 |
| Bihar | Muzaffarpur TPP Extn | KBUNL (JV of NTPC and BSEB) | BHEL | BHEL | Mar-10 | Coal | U-3 | 195 | 31.03.15 | 18.03.2017 |
| TN | Neyveli TPS-II EXP | NLC | BHEL | BHEL | 19.08.2005 | Lignite | U-2 | 250 | 24.01.15 | NA |
| TN | Tuticorin TPP | NTPL (JV NLC & TANGEDCO) | BHEL | BHEL | 28.01.09 | Coal | U-1 | 500 | 10.03.15 | 18-06-15 |
| Tripura | Tripura Gas | OTPS | BHEL | BHEL | NA | Gas | Module-2 | 363.3 | 18.11.14 | NA |
| Tripura | Monarchak Gas Power Project | NEEPCO | BHEL | BHEL | 23.07.2010 | Gas | GT | 65.4 | 30.03.15 | NA |
| Tripura | Agartala CCPP | NEEPCO | Thermax | Thermax | 2.09.2012 | Gas | ST-2 | 25.5 | 22.03.15 | NA |
| WB | Raghunathpur TPP Ph-I | DVC | Shanghai Electric Corp., China by REL | Shanghai Electric Corp., China by REL | 14.12.2007 | Coal | U-1 | 600 | 24.08.14 | 31.03.2016 |
| **Total Central Sector** | | | | | | | | **2659.2** | | |
| **STATE SECTOR** | | | | | | | | | | |
| AP | Damodaram Sanjeevaiah TPS | APPDL | BHEL | L&T | SG:08/2008 TG:09/2008 | Coal | U-1 | 800 | 28.08.14 | 05.02.2015 |
| AP | Damodaram Sanjeevaiah TPS | APPDL | BHEL | L&T | SG:08/2008 TG:09/2008 | Coal | U-2 | 800 | 17.03.15 | 24.08.2015 |
| Gujarat | Dhuvaran CCPP-III | GSECL | Siemens Germany | Siemens Germany | NA | Gas | Block-1 | 376.1 | 21.05.14 | NA |
| Gujarat | Sikka TPS Extn | GSECL | BHEL | BHEL | NA | Coal | U-3 | 250 | 28.03.15 | 14-09-15 |
| Maharashtra | Chandrapur TPS | MSPGCL | BHEL | BHEL | 25.07.08 | Coal | U-8 | 500 | 29.03.15 | 04-06-16 |
| Maharashtra | Koradi TPS Extn | MSPGCL | L&T | L&T | 23.09.09 | Coal | U-8 | 660 | 30.03.15 | 16-12-15 |
| MP | Malwa TPP ( Shree Singaji TPP) | MPGENCO | BHEL | BHEL | 12.12.08 | Coal | U-2 | 600 | 15.10.14 | 01-01-15 |
| Rajasthan | Chhabra TPS Extn. | RRVUNL | BHEL | BHEL | 28-03-13 | Coal | U-4 | 250 | 30.06.14 | 30-12-14 |
| Rajasthan | Kalisindh TPP | RRVUNL | BGR | BGR | 09.07.08 | Coal | U-1 | 600 | 02.05.14 | 01-06-14 |
| Rajasthan | Ramgarh CCPP Extn. - III | RRVUNL | BHEL | BHEL | 14.12.2007 | Gas | ST | 50 | 01.05.14 | NA |
| **Total State Sector** | | | | | | | | **4886.1** | | |
| **PRIVATESECTOR** | | | | | | | | | | |
| AP | Painnampuram TPP | Thermal Power Tech Corp.Ltd. | Dong Fang Electric Corp. China | Dong Fang Electric Corp. China | Sep-10 | Coal | U-1 | 660 | 07.02.15 | 02-03-15 |
| AP | Simhapuri Ph-II | Simhapuri Energy Ltd., | Wuxi, China | Harbin, China | Jan-09 | Coal | U-4 | 150 | 06.03.15 | 31-03-15 |
| Chhattisgarh | Akaltara (Naiyara) TPP | KSK Mahandi Power Co. Ltd | SEC, China | Dong Fang Electric Corp. China | Apr-09 | Coal | U-2 (4th) | 600 | 22.08.14 | 26-08-14 |
| Chhattisgarh | Tamnar (Raigarh) TPP | Jindal Power | BHEL | BHEL | Dec-08 | Coal | U-3 | 600 | 07.01.15 | 15-01-15 |
| Chhattisgarh | Tamnar (Raigarh) TPP | Jindal Power | BHEL | BHEL | Dec-08 | Coal | U-4 | 600 | 26.03.15 | NA |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Chhattisgarh | Salora TPP | M/s Vandana Vidyut | Cethar Vessels Ltd. | Cethar Vessels Ltd. | Nov-08 | Coal | U-1 | 135 | 10.04.14 | 01-05-14 |
| Chhattisgarh | Raikheda TPP | GMR Chhattisgarh Power Ltd. | Doosan Power System India | Doosan Power System India | 22.01.2010 | Coal | U-1 | 685 | 27.02.15 | 01-06-15 |
| Chhattisgarh | Swastic TPP | ACB India | IJT, Noida | Siemens | 29.03.10 | Coal | U-1 | 25 | 31.03.15 | NA |
| Chhattisgarh | Baradarha TPP ( DB Power TPP) | D.B.Power Ltd | BHEL | BHEL | May-10 | Coal | U-2 | 600 | 24.03.15 | 26.03.2016 |
| Gujarat | DGEN Mega CCPP | Torrent Energy Ltd | Siemens AG, Germany & Siemens India Ltd. | Siemens AG, Germany & Siemens India Ltd. | 02.07.2010 | Gas | Module-2 | 400 | 23.04.14 | NA |
| Maharashtra | Dhariwal Infracture TPP | Dhariwal Infracture (P) Ltd | SEC, China | SEC, China | 28.04.2010 | Coal | U-2 | 300 | 28.05.14 | 02-08-14 |
| Maharashtra | Tirora TPP Ph-II | Adani Power Ltd | SCMEC, CHINA | SCMEC, CHINA | 05.11.2009 | Coal | U-3 | 660 | 25.09.14 | 11-10-14 |
| Maharashtra | Amravati TPP Ph-I | India Bulls | BHEL | BHEL | 30.11.09 | Coal | U-3 | 270 | 29.01.15 | 03-02-15 |
| Maharashtra | Amravati TPP Ph-I | India Bulls | BHEL | BHEL | 30.11.09 | Coal | U-4 | 270 | 04.03.15 | 08-03-15 |
| Maharashtra | Amravati TPP Ph-I | India Bulls | BHEL | BHEL | 30.11.09 | Coal | U-5 | 270 | 12.03.15 | 13-03-15 |
| MP | Nigri TPP | Jaiprakash Power Ventures Ltd | L&T | L&T | 23.08.09 | Coal | U-1 | 660 | 29.08.14 | 03-09-14 |
| MP | Nigri TPP | Jaiprakash Power Ventures Ltd | L&T | L&T | 23.08.09 | Coal | U-2 | 660 | 17.02.15 | 21-02-15 |
| MP | Sasan UMPP | Reliance Power Ltd. | Chinese | Chinese | 24.06.2008 | Coal | U-1 | 660 | 21.05.14 | 27-05-14 |
| MP | Sasan UMPP | Reliance Power Ltd. | Chinese | Chinese | 24.06.2008 | Coal | U-5 | 660 | 24.08.14 | 26-12-14 |
| MP | Sasan UMPP | Reliance Power Ltd. | Chinese | Chinese | 24.06.2008 | Coal | U-6 | 660 | 19.03.15 | 27-03-15 |
| Orissa | Derang TPP | JITPL | BHEL | BHEL | 26.07.09 | Coal | U-1 | 600 | 10.05.14 | 06-06-14 |
| Orissa | Derang TPP | JITPL | BHEL | BHEL | 26.07.09 | Coal | U-2 | 600 | 24.01.15 | 12-02-15 |
| Punjab | Talwandi Sabo TPP | M/s Sterlite | SEPCO Electric Power Construction Corpn., China | SEPCO Electric Power Construction Corpn., China | 18.07.09 | Coal | U-1 | 660 | 17.06.14 | 01-08-14 |
| Punjab | Rajpura TPP ( Nabha) | Nabha Power Ltd | L&T | L&T | 16.07.10 | Coal | U-2 | 700 | 06.07.14 | 01-08-14 |
| TN | Melamaruthur TPP | Coastal Energen | Harbin Power Co. Ltd, China | Harbin Power Co. Ltd, China | 06.08.2009 | Coal | U-1 | 600 | 02.12.14 | 23-12-14 |
| WB | Haldia TPP-I | Haldia Energy Ltd | Sangai, China | Sangai, China | 14.09.11 | Coal | U-1 | 300 | 14.01.15 | 28-01-15 |
| WB | Haldia TPP-I | Haldia Energy Ltd | Sangai, China | Sangai, China | 14.09.11 | Coal | U-2 | 300 | 16.02.15 | 21-02-15 |
| **Total Private Sector** | | | | | | | | **13285** | | |
| **Total FY 2014-15** | | | | | | | | **20830.3** | | |

## 2.4 Thermal Capacity Addition during the Year 2015-16

| State | Project Name | Impl Agency | Boiler | TG | LOA date | Fuel | Unit No | Cap. (MW) | Actual Comm.Date (Full Load) | COD |
|---|---|---|---|---|---|---|---|---|---|---|
| **CENTRAL SECTOR** | | | | | | | | | | |
| Assam | Bongaigaon TPP | NTPC | BHEL | BHEL | 05.02.08 | Coal | U-1 | 250 | 22.06.15 | 01-04-16 |
| Bihar | Nabi Nagar TPP | NTPC | BHEL | BHEL | 01-01-08 | Coal | U-1 | 250 | 20.03.16 | 15-01-17 |
| Jharkhand | Bokaro TPS "A" Exp. | DVC | BHEL | BHEL | 16.06.2008 | Coal | U-1 | 500 | 22.03.16 | 23-02-17 |
| Maharashtra | Mouda STPP Ph-II | NTPC | BHEL | BHEL | Nov-08 | Coal | U-3 | 660 | 28.03.16 | 01-02-17 |
| MP | Vindhyachal TPP-V | NTPC | BHEL | BHEL | Jan-09 | Coal | U-13 | 500 | 06.08.15 | 30-10-15 |
| Tripura | Monarchak CCPP | NEEPCO | BHEL | BHEL | 23.07.2010 | Gas | ST | 35.6 | 14.01.16 | NA |
| TN | Tuticorin TPP | NLC | BHEL | BHEL | 28.01.2009 | Coal | U-2 | 500 | 09.07.15 | 29-08-15 |
| WB | Raghunathpur TPP,Ph-I | DVC | Shanghai Electric Corp., China by REL | Shanghai Electric Corp., China by REL | 14.12.2007 | Coal | U-2 | 600 | 18.01.16 | 31-03-16 |
| **Total Central Sector** | | | | | | | | **3295.6** | | |
| **STATE SECTOR** | | | | | | | | | | |
| Gujarat | Sikka TPS | GSECL | BHEL | BHEL | 10.05.07 | Coal | U-4 | 250 | 25.09.15 | 28-12-15 |
| Karnataka | Bellary TPS St-III | KPCL | BHEL | BHEL | 28-09-10 | Coal | U-3 | 700 | 01.03.16 | 16-09-17 |
| Karnataka | Yermarus TPP | KPCL | BHEL | BHEL | 09-04-10 | Coal | U-1 | 800 | 29.03.16 | 07-03-17 |
| Maharashtra | Chandrapur TPS | MSPGCL | BHEL | BHEL | Jul-08 | Coal | U-9 | 500 | 21.03.16 | 24-11-16 |
| Maharashtra | Koradi TPS Expn. | MSPGCL | L&T | L&T | 23.09.09 | Coal | U-9 | 660 | 15.03.16 | 22-11-16 |
| Maharashtra | Parli TPS | MSPGCL | BHEL | BHEL | 20.01.09 | Coal | U-8 | 250 | 30.03.16 | 30-11-16 |
| Rajasthan | Kalisindh TPP | RRVUNL | BGR | BGR | Jul-08 | Coal | U-2 | 600 | 06.06.15 | 25-07-15 |
| Telangana | Singareni TPP | Singareni Collieries Co Ltd | BHEL | BHEL | 11-11-2011 | Coal | U-1 | 600 | 13.03.16 | 25-09-16 |
| Telangana | Kakatiya TPS Extn. | TSGENCO | BHEL | BHEL | 21.01.2009 | Coal | U-1 | 600 | 31.12.15 | 24-03-16 |
| UP | Anpara-D TPS | UPRVUNL | BHEL | BHEL | 13.01.08 | Coal | U- 6 | 500 | 06.06.15 | 08-05-16 |
| UP | Anpara-D TPS | UPRVUNL | BHEL | BHEL | 13.01.08 | Coal | U- 7 | 500 | 06.03.16 | 18-10-16 |
| WB | Sagardighi TPS-Extn | West Bengal | BHEL | BHEL | NA | Coal | U-3 | 500 | 14.12.15 | NA |
| **Total State Sector** | | | | | | | | **6460** | | |
| **PRIVATE SECTOR** | | | | | | | | | | |
| AP | Painampuram TPP | Thermal Power Tech Corporation Ltd | Dong Fang Electric Corp. China | Dong Fang Electric Corp. China | 15.02.2011 | Coal | U-2 | 660 | 03.09.15 | 15-09-15 |
| AP | Vizag TPP | Hinduja National Power Corp. Ltd | BHEL | BHEL | 30.06.2010 | Coal | U-1 | 520 | 27.12.15 | 11-01-16 |
| AP | Vizag TPP | Hinduja National Power Corp. Ltd | BHEL | BHEL | 30.06.2010 | Coal | U-2 | 520 | 30.03.16 | 03-07-16 |
| AP | Lanco Kondapalli Extn. Ph-III ( PS) | Lanco Kondapalli Power Co.Ltd | EPC Lanco infratech Limited | EPC Lanco infratech Limited | 01.01.2010 | Gas | Block-I | 371 | 07.08.15 | NA |
| AP | Lanco Kondapalli Extn. Ph-III (PS) | Lanco Kondapalli Power Co.Ltd | EPC Lanco infratech Limited | EPC Lanco infratech Limited | 01.01.2010 | Gas | Block-II | 371 | 05.09.15 | NA |
| AP | Vemagiri CCPP-II (PS) | GMR Rajahmundry Energy Ltd. | EPC L&T | EPC L&T | NA | Gas | Block-I | 384 | 12.09.15 | NA |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| AP | Vemagiri CCPP-II (PS) | GMR Rajahmundry Energy Ltd. | EPC L&T | EPC L&T | NA | Gas | Block-II | 384 | 05.10.15 | NA |
| Chhattisgarh | Bandakhar TPP | M/s Maruti Clean (Chhattisgarh) Ltd. | China Western Power Insdustries Co.Ltd., China | China Western Power Insdustries Co.Ltd., China | 07.06.2011 | Coal | U-1 | 300 | 19.06.15 | NA |
| Chhattisgarh | Uchpinda TPP | RKM Powergen Pvt. Ltd | MIPP International, China Western | Harbin | 01.06.09 | Coal | U-1 | 360 | 28.10.15 | 27-11-15 |
| Chhattisgarh | Uchpinda TPP | RKM Powergen Pvt. Ltd | MIPP International, China Western | Harbin | 01.06.09 | Coal | U-2 | 360 | 28.01.16 | 12-02-16 |
| Chhattisgarh | BALCO TPP | BALCO Pvt Ltd | SEPCO, China | SEPCO, China | 01.11.07 | Coal | U-1 | 300 | 05.06.15 | 11-07-15 |
| Chhattisgarh | BALCO TPP | BALCO Pvt Ltd | SEPCO, China | SEPCO, China | 01.11.07 | Coal | U-2 | 300 | 24.03.16 | 30-03-16 |
| Chhattisgarh | Raikheda TPP | GMR | Doosan Power System India | Doosan Power System India | 22.01.2010 | Coal | U-2 | 685 | 28.03.16 | NA |
| MP | Anuppur TPP Ph-I | MB Power(MP) | Lanco Infratech Ltd. (Harbin China) | Lanco Infratech Ltd. (Harbin China) | 15.11.2010 | Coal | U-1 | 600 | 20.04.15 | 20-05-15 |
| MP | Anuppur TPP Ph-I | MB Power(MP) | Lanco Infratech Ltd. (Harbin China) | Lanco Infratech Ltd. (Harbin China) | 15.11.2010 | Coal | U-2 | 600 | 30.03.16 | 07-04-16 |
| MP | Seioni TPP Ph-I | Jhabua Power Ltd | BHEL | BHEL | Feb-10 | Coal | U-1 | 600 | 22.03.16 | 03-05-16 |
| Orissa | Ind Bharat TPP (Orissa) | Ind Barath | BHEL | BHEL | 16.05.2009 | Coal | U-1 | 350 | 25.02.16 | 20-07-16 |
| Punjab | Talwandi Sabo TPP | Talwandi Sabo Power Ltd | SEPCO Electric Power Construction Corpn., China | SEPCO Electric Power Construction Corpn., China | Jul-09 | Coal | U-2 | 660 | 30.10.15 | 25-11-15 |
| Punjab | Talwandi Sabo TPP | Talwandi Sabo Power Ltd | SEPCO Electric Power Construction Corpn., China | SEPCO Electric Power Construction Corpn., China | Jul-09 | Coal | U-3 | 660 | 29.03.16 | 25-08-16 |
| Punjab | Goindwal Sahib TPP | GVK Power | BHEL | BHEL | Feb-09 | Coal | U-1 | 270 | 14.02.16 | 06-04-16 |
| Punjab | Goindwal Sahib TPP | GVK Power | BHEL | BHEL | Feb-09 | Coal | U-2 | 270 | 15.03.16 | 16-04-16 |
| TN | ITPCL TPP | IL&FS TN PC.Ltd | SEPCO-III, China | SEPCO-III, China | 15-02-11 | Coal | U-1 | 600 | 19.09.15 | 29-09-15 |
| TN | Melamaruthur (Mutiara) | Coastal Energen | Harbin Power Co. Ltd, China | Harbin Power Co. Ltd, China | 06-08-09 | Coal | U-2 | 600 | 02.01.16 | 15-01-16 |
| UP | Lalitpur TPP | Lalitpur power Generation Co. Ltd | BHEL | BHEL | 21.03.2011 | Coal | U-2 | 660 | 08.01.16 | 14-10-16 |
| UP | Lalitpur TPP | Lalitpur power Generation Co. Ltd | BHEL | BHEL | 21.03.2011 | Coal | U-1 | 660 | 26.03.16 | 01-10-15 |
| UP | Prayagraj (Bara ) TPP | Prayagraj power Gen. Co. Ltd( J.P.Power Ventures) | BHEL/Alstom | Siemens | 22.01.2009 | Coal | U-1 | 660 | 25.12.15 | 29-02-16 |
| **Total Private Sector** | | | | | | | | **12702.144** | | |
| **Total FY 2015-16** | | | | | | | | **22457.744** | | |

## 2.5 Thermal Capacity Addition during the Year 2016-17

| State | Project Name | Impl Agency | Boiler | TG | LOA date | Fuel | Unit No | Cap. (MW) | Actual Comm.Date (Full Load) | COD |
|---|---|---|---|---|---|---|---|---|---|---|
| **CENTRAL SECTOR** | | | | | | | | | | |
| Assam | Bongaigaon TPP | NTPC | BHEL | BHEL | 05-02-08 | Coal | U-2 | 250 | 22.03.2017 | 01-11-17 |
| Mahararashtra | Mauda STPP-II | NTPC | BHEL | BHEL | 19-03-12 | Coal | U-4 | 660 | 18.03.2017 | 18.09.2017 |
| Bihar | Kanti TPS St-II | NTPC | BHEL | BHEL | 12-03-10 | Coal | U-4 | 195 | 24.03.2017 | 01-07-17 |
| Karnatka | Kudgi TPP | NTPC | Doosan Heavy Ind., Korea | Toshiba | 25.01.2012 | Coal | U-1 | 800 | 25.12.2016 | 31-07-17 |
| Karnatka | Kudgi TPP | NTPC | Doosan Heavy Ind., Korea | Toshiba | 25.01.2012 | Coal | U-2 | 800 | 23.03.2017 | 31-12-17 |
| Tripura | Agartala Gas Based Power Project | NEEPCO | Not applicable | Siemens | 12.09.2012 | Gas | ST-1 | 25.5 | 23.08.2016 | NA |
| UP | Unchahar TPS St-IV | NTPC | BHEL | BHEL | 05.08.2013 | Coal | U-6 | 500 | 31.03.2017 | 30.09.2017 |
| **Total CentralSector** | | | | | | | | **3230.5** | | |
| **STATE SECTOR** | | | | | | | | | | |
| Asam | Namrup CCGT | APGCL | BHEL | BHEL | 09.02.2009 | Gas | GT | 62.25 | 11.01.2017 | NA |
| Chhastisgarh | Marwa TPS | CSPGCL | BHEL | BHEL | 31.12.08 | Coal | U-2 | 500 | 15.07.2016 | 31-07-16 |
| Gujrat | Bhavnagar TPP | BECL | BHEL | BHEL | 18.02.10 | Lignite | U-1 | 250 | 16.05.2016 | NA |
| Gujrat | Bhavnagar TPP | BECL | BHEL | BHEL | 18.02.10 | Lignite | U-2 | 250 | 27.03.2017 | NA |
| karnatka | Yermarus TPP | KPCL | BHEL | BHEL | 9.04.2010 | Coal | U-2 | 800 | 29.03.2017 | 06-04-17 |
| Mahararashtra | Koradi TPP | MSPGCL | L&T | L&T | 23.09.09 | Coal | U-10 | 660 | 28.12.2016 | 17-01-17 |
| Telangan | Singreni TPP | SCCL | BHEL | BHEL | 11.11.2011 | Coal | U-2 | 600 | 25.11.2016 | 02-12-16 |
| West Bengal | Sagardighi TPS-II | WBPDCL | BHEL | BHEL | 22.02.2011 | Coal | U-4 | 500 | 15.12.2016 | NA |
| **Total State Sector** | | | | | | | | **3622.25** | | |
| **PRIVATE SECTOR** | | | | | | | | | | |
| A.P | NCC TPP | NCC | Harbin | Harbin | 10-02-12 | Coal | U-1 | 660 | 12.11.2016 | 17-11-16 |
| A.P | NCC TPP | NCC | Harbin | Harbin | 10-02-12 | Coal | U-2 | 660 | 15.02.2017 | 21-02-17 |
| Chhastisgarh | Nawapara TPP | TRN | BGR | BGR | 27.06.11 | Coal | U-1 | 300 | 14.08.2016 | 19-08-16 |
| Chhastisgarh | Ratija TPP | Spectrum Coal & Power Ltd | QJPS, China | QJPS, China | 06.04.13 | Coal | U-2 | 50 | 10.11.2016 | NA |
| Mahararashtra | Nashik TPP, Ph-I | Rattan Power | BHEL | BHEL | 4.11.09 | Coal | U-2 | 270 | 15.02.2017 | NA |
| Mahararashtra | Mangaon CCPP | Pioneer Gas Power Ltd ( (PGPL) | GE, USA | Scoda, Czech | 16.12 11 | Gas | Block-I | 388 | 14.07.2016 | NA |
| Tamilnadu | ITPCL TPP | ILFS | SEPCO-III, China | SEPCO-III, China | 15-02-11 | Coal | U-2 | 600 | 18.04.2016 | 30-04-16 |
| Uttrakhand | GAMA CCPP | M/s GAMA Infraprop Ltd. | Gama Infraprop (P) Ltd. | Gama Infraprop (P) Ltd. | 29.07.10 | Gas | Module-1 | 225 | 25.04.2016 | NA |
| Uttrakhand | Kashipur CCPP | M/s. Sravanti Energy Pvt Ltd | Greens Power Equipments (China) Co. Ltd. | HTC, China | 30.04.10 | Gas | Block-I | 225 | 20.11.2016 | NA |
| Uttar pradesh | Lalitpur TPP | LPGCL | BHEL | BHEL | 21.03.2011 | Coal | U-3 | 660 | 01.04.2016 | 23-12-16 |
| Uttar pradesh | Bara TPP | Jaypee | BHEL | BHEL | 22.01.2009 | Coal | U-2 | 660 | 06.09.2016 | 10-09-16 |
| **Total Private Sector** | | | | | | | | **4698** | | |
| **Grand Total 2016-17** | | | | | | | | **11550.75** | | |

## 2.6 Thermal Capacity Addition during the Year 2017-18

| State | Project Name | Impl Agency | Boiler | TG | LOA date | Fuel | Unit No | Cap. (MW) | Actual Comm.Date (Full Load) | COD |
|---|---|---|---|---|---|---|---|---|---|---|
| **CENTRAL SECTOR** | | | | | | | | | | |
| Bihar | Nabi Nagar TPP | JV of NTPC &Rly | BHEL | BHEL | 23.01.2008 | Coal | 2 | 250 | 03.04.2017 | 10-09-17 |
| Maharashtra | Solapur STPP | NTPC | BGR Energy System Ltd. - Hitachi, China | Alstom-Bharat Forge | 19.03.2012 | Coal | 1 | 660 | 07.04.2017 | 25-09-17 |
| Karnatka | Kudgi TPP | NTPC | Doosan Heavy Ind., Korea | Toshiba | 25.01.2012 | Coal | 3 | 800 | 12.03.2018 | 15.9.2018 |
| Chhattisgarh | Lara TPP | NTPC | Doosan | BGR Hitachi | 13.12.2012 | Coal | 1 | 800 | 22.03.2018 | 01.10.2019 |
| Uttar pradesh | Meja STPP | JV of NTPC & UPRVUNL | BGR Energy System Ltd., China | Toshiba Corporation, Japan | 30.04.2012 | Coal | 1 | 660 | 31.03.2018 | 30.04.2019 |
| **Total Central Sector** | | | | | | | | **3170** | | |
| **STATE SECTOR** | | | | | | | | | | |
| Rajastan | Chhabra SCTPP | RRVUNL | L&T & MHI | L&T & MHI | 28-03-13 | Coal | 5 | 660 | 04.04.2017 | 09.08.2018 |
| Bihar | Barauni TPS Extn./ BSEB/ EPC - BHEL | BSEB | BHEL | BHEL | 11.03.2011 | Coal | 8 | 250 | 11.01.2018 | 01.03.2020 |
| AP | Rayalaseema TPP | APGENCO | BHEL | BHEL | 10-02-11 | Coal | 6 | 600 | 12.03.2018 | 29.03.2018 |
| Bihar | Barauni TPS Extn. | BSEB | BHEL | BHEL | 11.03.2011 | Coal | 9 | 250 | 31.03.2018 | NA |
| **Total State Sector** | | | | | | | | **1760** | | |
| **PRIVATE SECTOR** | | | | | | | | | | |
| Chattisgarh | Akaltara (Naiyara) TPP | KSK Mahandi Power Company Ltd | SEC, China | Dong Fang Electric Corp. China | Apr-09 | Coal | 3 | 600 | 18.01.2018 | 28-02-18 |
| Chattisgarh | Binjkote TPP | SKS Power Generation (Chhattisgarh) Ltd | Cethar Ltd., China | Harbin, China | 12.05.11 | Coal | 1 | 300 | 25.04.2017 | 01.04.2018 |
| Chattisgarh | Nawapara TPP | TRN Energy | BGR | BGR | 27.06.11 | Coal | 2 | 300 | 18.04.2017 | 01-05-17 |
| Maharashtra | Nasik TPP Ph-I | RattanIndia Nasik Power Ltd | BHEL | BHEL | 4.11.09 | Coal | 3 | 270 | 14.04.2017 | NA |
| Uttar Pradesh | Bara TPP | Prayagraj Power Generation Co.Ltd. | BHEL | BHEL | 22.01.2009 | Coal | 3 | 660 | 22.05.2017 | 26-05-17 |
| West Bengal | India Power TPP ( Haldia), | Indian Energy Ltd (Haldia) | BHEL | BHEL | 28-11-13 | Coal | 1 | 150 | 07.06.2017 | 13.08.2017 |
| Maharashtra | Nasik TPP Ph-I | RattanIndia Nasik Power | BHEL | BHEL | 4.11.09 | Coal | 4 | 270 | 19.05.2017 | NA |
| Maharashtra | Nasik TPP Ph-I | RattanIndia Nasik Power | BHEL | BHEL | 4.11.09 | Coal | 5 | 270 | 30.05.2017 | NA |
| Maharashtra | Shirpur Power Pvt. Ltd. | Shirpur Power | BHEL | BHEL | 22.11.2011 | Coal | 1 | 150 | 28.09.2017 | NA |
| Chattisgarh | Uchpinda TPP | RKM Powergen Pvt. Ltd | MIPP International, China Western | Harbin | 01.06.09 | Coal | 3 | 360 | 12.09.2017 | 14.11.2017 |
| West Bengal | India Power TPP ( Haldia), | Indian Energy Ltd (Haldia) | BHEL | BHEL | 28-11-13 | Coal | 2 | 150 | 31.12.2017 | 31.12.2017 |
| Chattisgarh | Binjkote TPP | SKS Power Generation (Chhattisgarh) Ltd | Cethar Ltd., China | Harbin, China | 12.05.11 | Coal | 2 | 300 | 28.03.2018 | 01.04.2018 |
| **Total Private Sector** | | | | | | | | **3780** | | |
| **Grand Total 2017-18** | | | | | | | | **8710** | | |

## 2.7 Thermal Capacity Addition during the Year 2018-19

| State | Project Name | Impl Agency | Boiler | TG | LOA date | Fuel | Unit No | Cap. (MW) | Actual Comm.Date (Full Load) | COD |
|---|---|---|---|---|---|---|---|---|---|---|
| **CENTRAL SECTOR** | | | | | | | | | | |
| Assam | Bongaigaon TPP | NTPC | BHEL | BHEL | Feb-08 | Coal | U-3 | 250 | 10..02.2019 | 26.03.2019 |
| Bihar | Nabi Nagar TPP | NTPC&BRBCL | BHEL | BHEL | Jan-08 | Coal | U-3 | 250 | 23.01.2019 | 26.02.2019 |
| MP | Gadarwara TPP | NTPC | BHEL | BHEL | Mar-13 | Coal | U-1 | 800 | 13.10.2018 | 01.06.2019 |
| Maharashtra | Solapur STPP | NTPC | BGR Energy System Ltd. - Hitachi, China | Alstom-Bharat Forge | Mar-12 | Coal | U-2 | 660 | Mar-19 | 30.03.2019 |
| **Total Central Sector** | | | | | | | | **1960** | | |
| **STATE SECTOR** | | | | | | | | | | |
| MP | Shri Singhaji TPP St-II | MPPGCL | L&T & MHI | L&T & MHI | Sep-14 | Coal | 3 | 660 | 14.08.2018 | 18.11.2018 |
| MP | Shri Singhaji TPP St-II | MPPGCL | L&T & MHI | L&T & MHI | Sep-14 | Coal | 4 | 660 | 26.02.2019 | 27.03.2019 |
| Telangana | Kothagudem TPS St-VII | TSGENCO | BHEL | BHEL | Jan-15 | Coal | 1 | 800 | 05.10.2018 | 26.12.2018 |
| Rajasthan | Chhabra TPP Extn | RRVUNL | L&T & MHI | L&T & MHI | Mar-13 | Coal | 6 | 660 | 11.12.2018 | 02.04.2019 |
| Assam | Lakhwa Replacement Power Project (7x9.965 MW) | APGCL | Wartsila India Pvt. Ltd. and Wartsila Finland OY | Wartsila India Pvt. Ltd. and Wartsila Finland OY | Dec-15 | Gas | GT | 69.755 | 14.02.2018 (last unit) | 26.04.2018 |
| **Total State Sector** | | | | | | | | **2849.755** | | |
| **PRIVATE SECTOR** | | | | | | | | | | |
| MP | Mahan TPP / Essar Power MP Ltd. / Chinese | Essar Power MP Ltd. | Harbin Power Co. Ltd, China | Harbin Power Co. Ltd, China | Aug-07 | Coal | 2 | 600 | 25.02.2013 | 07.10.2018 |
| Chhattisgarh | Uchpinda TPP | RKM Power | MIPP International, China Western | Harbin Power Co. Ltd, China | Jun-09 | Coal | 4 | 360 | 06.03.2019 | 20.03.2019 |
| WB | Dishergarh TPS | IPCL | Chema | Siemens | Oct-10 | Coal | 1 | 12 | 20.07.2012 | 27.03.2019 |
| **Total Private Sector** | | | | | | | | **972** | | |
| **Grand Total 2018-19** | | | | | | | | **5781.755** | | |

* Dishergarh TPS Achieved COD on 25.09.2012 but intimation received in March'2019 .

## 2.8 Thermal Capacity Addition during the Year 2019-20

| State | Project Name | Impl Agency | Boiler | TG | LOA date | Fuel | Unit No | Cap. (MW) | Actual Comm.Date (Full Load) | Trail Run | COD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CENTRAL SECTOR** | | | | | | | | | | | |
| Bihar | Nabi Nagar STPP | JV of NTPC & BSPGCL | BHEL | BHEL | Jan-13 | Coal | U-1 | 660 | 29.03.2019 | 12.07.2019 | 06.09.2019 |
| MP | Khargone STPP St-I | NTPC | L&T | L&T | Mar-15 | Coal | U-1 | 660 | 30.08.2019 | 29.09.2019 | 01.02.2020 |
| MP | Khargone STPP St-I | NTPC | L&T | L&T | Mar-15 | Coal | U-2 | 660 | 19.01.2020 | 24.03.2020 | 04.04.2020 |
| UP | Tanda TPP St- II | NTPC | L&T | Alstom | Sep-14 | Coal | U-5 | 660 | 14.09.2019 | 28.09.2019 | 07.11.2019 |
| Odisha | Darlipalli STPP St-I | NTPC | BHEL | Toshiba | Feb-14 | Coal | U-1 | 800 | 02.10.2019 | 30.12.1209 | 01.03.2020 |
| TN | Neyveli New TPP | NLC | BHEL | BHEL | Jun-11 | Lignite | U-1 | 500 | 29.09.2019 | 20.12.2019 | 28.12.2019 |
| **Total Central Sector** | | | | | | | | **3940** | | | |
| **STATE SECTOR** | | | | | | | | | | | |
| Gujarat | Wanakbori TPS Extn. | GSECL | Alstom Power INC | Siemens AG, Germany | Oct-14 | Coal | U-8 | 800 | 14.06.2019 | 12.10.2019 | 13.10.2019 |
| Odisha | Ib valley TPP | OPGC | BHEL | BHEL | Mar-14 | Coal | U-3 | 660 | 20.04.2019 | 01.07.2019 | 03.07.2019 |
| Odisha | Ib valley TPP | OPGC | BHEL | BHEL | Mar-14 | Coal | U-4 | 660 | 11.05.2019 | 17.08.2019 | 21.08.2019 |
| Rajasthan | Suratgarh SCTPP | RRVUNL | BHEL | BHEL | Mar-13 | Coal | U-7 | 660 | 30.03.2019 | 15.03.2020 | 01.12.2020 |
| **Total Sector Sector** | | | | | | | | **2780** | | | |
| **PRIVATE SECTOR** | | | | | | | | | | | |
| MP | BLA Power Pvt. Ltd(Niwari) TPP* | BLA Power Pvt. Ltd | ISGEC | Siemens | Apr-11 | Coal | U-2 | 45 | 16.03.2017 | NA | 20.03.2017 |
| **Total Private Sector** | | | | | | | | **45** | | | |
| **Grand Total 2019-20** | | | | | | | | **6765** | | | |

*BLA Power Pvt.Ltd (Niwari) TPP :Unit-2(45 MW) achieved COD on 20.03.2017 but intimation regarding this received late. Therefore, the project has taken into capacity addition on 06.06.2019 after approval of Chairperson, CEA.

## 2.9 Thermal Capacity Addition during the Year 2020-21

| State | Project Name | Impl Agency | Boiler | TG | LOA date | Fuel | Unit No | Cap. (MW) | Actual Comm.Date (Full Load) | Trail Run | COD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CENTRAL SECTOR** | | | | | | | | | | | |
| Chhattisgarh | Lara STPP | NTPC | Doosan | BGR Hitachi | 13.12.2012 | Coal | U-2 | 800 | 04.07.2020 | 12.07.2020 | 07.11.2020 |
| Uttar Pradesh | Meja STPP | JV of NTPC & UPRVUNL | BGR Energy System Ltd., China | Toshiba Corporation, Japan | 30.04.2012 | Coal | U-2 | 660 | 26.11.2020 | 12.01.2021 | 31.06.2021 |
| Tamil Nadu | Neyveli New TPP | NLC | BHEL | BHEL | 09.06.2011 | Lignite | U-2 | 500 | 31.01.2021 | 03.02.2021 | 10.02.2021 |
| MP | Gadarwara STPP | NTPC | BHEL | BHEL | 22.03.2013 | Coal | U-2 | 800 | 19.01.2021 | 16.02.2021 | 01.03.2021 |
| UP | Tanda St-II | NTPC | L&T | Alstom | Sep-14 | Coal | U-6 | 660 | 27.03.2021 | 31.03.2021 | 01.07.2021 |
| Bihar | Nabi Nagar STPP | JV of NTPC & BSPGCL | BHEL | ALSTOM-Bharat | Jan-13 | Coal | U-2 | 660 | 24.03.2021 | 31.03.2021 | 23.07.2021 |
| **Total Central Sector** | | | | | | | | **4080** | | | |
| **STATE SECTOR** | | | | | | | | | | | |
| Assam | Namrup CCGT-Gas | APGCL | BHEL | BHEL | 09.02.2009 | Gas | ST | 36.15 | 06.03.2020 | 17.05.2020 | NA |
| Telangana | Bhadradri TPP | TSGENCO | BHEL | BHEL | 21.03.2015 | Coal | U-1 | 270 | 20.03.2020 | 05.06.2020 | 05.06.2020 |
| Telangana | Bhadradri TPP | TSGENCO | BHEL | BHEL | 21.03.2015 | Coal | U-2 | 270 | 23.11.2020 | 07.12.2020 | 07.12.2020 |
| Telangana | Bhadradri TPP | TSGENCO | BHEL | BHEL | 21.03.2016 | Coal | U-3 | 270 | 20.03.2021 | 26.03.2021 | 26.03.2021 |
| **Total State Sector** | | | | | | | | **846.15** | | | |
| **Grand Total 2020-21** | | | | | | | | **4926.15** | | | |

## 2.10 Thermal Capacity Addition during the Year 2021-22

| State | Project Name | Impl Agency | Boiler | TG | LOA date | Fuel | Unit No | Cap. (MW) | Actual Comm.Date (Full Load) | Trail Run | COD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CENTRAL SECTOR** | | | | | | | | | | | |
| Odisha | Darlipalli STPP St-I | NTPC | BHEL | Toshiba | Feb-14 | Coal | U-2 | 800 | 24.05.2021 | 21.07.2021 | - |
| **Total Central Sector** | | | | | | | | **800** | | | |
| **STATE SECTOR** | | | | | | | | 0 | | | |
| **Total State Sector** | | | | | | | | **0** | | | |
| **Grand Total 2021-22** | | | | | | | | **800** | | | |

**3.0 Target/ Achievement of Thermal Capacity Addition during 12th Plan**: Details of the same may be seen in monthly broad status report -Jan-21.

**4.0 Thermal Projects slipped from 12th plan Target with reasons of slippage:** Details of the same may be seen in monthly broad status report -Jan-21

## 5.1 Thermal Power Projects under construction in the Country: (As on 31.07.2021)

| S.No. | State | Project Name | Implementing Agency | Boiler | Turbine | LOA Date/ ordered date | Unit No | Cap. (MW) | Org Trial Run | Ant Trial Run ( given by Project Authority) | Exp. In crores. | Exp. Till Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***CENTRAL SECTOR*** | | | | | | | | | | | | |
| 1 | *Bihar* | Barh STPP-I | NTPC | Doosan | Doosan | Mar-05 | U-1 | 660 | Feb-10 | Aug-21 | 19009.87 | Jul-21 |
| | | | | | | | U-2 | 660 | Dec-10 | Jun-22 | | |
| | | | | | | | U-3 | 660 | Oct-11 | Jul-23 | | |
| 2 | *Bihar* | Nabi Nagar TPP | BRBCL(JV of NTPC & RLY) | BHEL | BHEL | Jan-08 | U-4 | 250 | Feb-14 | Sep-21 | 8892.95 | Jul-21 |
| 3 | *Bihar* | Nabi Nagar STPP | NPGCL (Subsidiary of NTPC) | BHEL | Alostham & Bharat Forge | Jan-13 | U-3 | 660 | May-18 | Nov-21 | 16050.6 | Jul-21 |
| 4 | *Jharkhand* | North Karanpura STPP | NTPC | BHEL | BHEL | Feb-14 | U-1 | 660 | Jun-18 | Feb-22 | 12027.37 | Jul-21 |
| | | | | | | | U-2 | 660 | Dec-18 | Aug-22 | | |
| | | | | | | | U-3 | 660 | Jun-19 | Dec-23 | | |
| 5 | Telangana | Telangana STPP St- I | NTPC | BHEL | Alostham & Bharat Forge | Feb-16 | U-1 | 800 | May-20 | Mar-22 | 8680.83 | Jul-21 |
| | | | | | | | U-2 | 800 | Nov-20 | Jul-22 | | |
| 6 | *Jharkand* | Patratu STPP | PVUNL( JV of NTPC & Jharkhand Bidyut Vitran Nigam Ltd.) | BHEL | BHEL | Mar-18 | U-1 | 800 | Jan-22 | Aug-23 | 5342.55 | Jul-21 |
| | | | | | | | U-2 | 800 | Jul-22 | Feb-24 | | |
| | | | | | | | U-3 | 800 | Jan-23 | Aug-24 | | |
| 7 | *Odisha* | Rourkela PP-II Expansion | NSPCL(JV of NTPC & SAIL) | BHEL | BHEL | May-16 | U-1 | 250 | Oct-18 | Oct-21 | 1884.73 | Jul-21 |
| 8 | *Uttar Pradesh* | Ghatampur TPP | NUPPL (JV of NLC and UPRVUNL) | MHPS | Alostham & Bharat Forge | Aug-16 | U-1 | 660 | May-20 | Mar-22 | 12179.67 | Jul-21 |
| | | | | | | | U-2 | 660 | Nov-20 | May-22 | | |
| | | | | | | | U-3 | 660 | May-21 | Jul-22 | | |
| 9 | *Uttar Pradesh* | Khurja SCTPP | THDC | L&T MHI | BHEL | Aug-19 | U-1 | 660 | Jul-23 | Jan-24 | 2201.76 | Jul-21 |
| | | | | | | | U-2 | 660 | Jan-24 | Jul-24 | | |
| 10 | *Bihar* | Buxar TPP | SJVN | L&T | L&T | Jun-19 | U-1 | 660 | May-23 | May-23 | 2474.99 | Jul-21 |
| | | | | | | | U-2 | 660 | Sep-23 | Sep-23 | | |
| | **TOTAL CENTRAL SECTOR** | | | | | | | **13740** | | | | |
| ***STATE SECTOR*** | | | | | | | | | | | | |
| 1 | *AP* | Dr.Narla Tata Rao TPS St-V | APGENCO | BHEL | BHEL | Dec-15 | U-1 | 800 | Apr-19 | Oct-21 | 6194.17 | Jul-21 |
| 2 | *AP* | Sri Damodaram Sanjeevaiah TPP St-II | APPDCL (JV of APGENCO & ILFS) | BHEL | BHEL | Nov-15 | U-1 | 800 | Jun-19 | Aug-21 | 7309.08 | Jul-21 |
| 3 | *Rajasthan* | Suratgarh SCTPP | RRVUNL | BHEL (Alostham) | BHEL (Siemens) | May-13 | U-8 | 660 | Nov-16 | Sep-21 | 10882.45 | Jul-21 |
| 4 | *UP* | Harduaganj TPS Exp-II | UPRVUNL | Toshiba( Doosan India) | Toshiba(Toshiba JSW) | Sep-15 | U-1 | 660 | Dec-19 | Oct-21 | 4545.5 | Jul-21 |
| 5 | *UP* | Jawaharpur STPP | UPRVUNL | Doosan | Doosan | Dec-16 | U-1 | 660 | Dec-20 | Apr-23 | 6808.86 | Jul-21 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | U-2 | 660 | Apr-21 | Sep-23 | | |
| 6 | *UP* | Obra-C STPP | UPRVUNL | Doosan India (DPSI) | Doosan India( GE) | Dec-16 | U-1 | 660 | Dec-20 | Jul-22 | 5884.79 | Jul-21 |
| | | | | | | | U-2 | 660 | Apr-21 | Jan-23 | | |
| 7 | *UP* | Panki TPS Extn. | UPRVUNL | BHEL | BHEL | Mar-18 | U-1 | 660 | Sep-21 | Nov-22 | 2848.44 | Jul-21 |
| 8 | *TN* | Ennore SCTPP | TANGEDCO | BHEL | BHEL | Sep-14 | U-1 | 660 | Nov-17 | Mar-23 | 4540.4 | Jul-21 |
| | | | | | | | U-2 | 660 | Jan-18 | Apr-23 | | |
| 9 | *TN* | North Chennai TPP St-III | TANGEDCO | BHEL( Alstom) | BHEL(Siemens) | Jan-16 | U-1 | 800 | Apr-19 | Feb-22 | 6585.84 | Jul-21 |
| 10 | *TN* | Uppur Super Critical TPP * | TANGEDCO | BHEL | BHEL | Feb-16 | U-1 | 800* | Feb-21 | On hold* | 2298 | Jun-21 |
| | | | | | | | U-2 | 800* | Feb-21 | On hold* | | |
| 11 | *TN* | Udangudi STPP Stage I | TANGEDCO | BHEL | BHEL | Dec-17 | U-1 | 660 | Mar-21 | May-23 | 3857.803 | Jul-21 |
| | | | | | | | U-2 | 660 | May-21 | Jul-23 | | |
| 12 | *Telangana* | Bhadradri TPP | TSGENCO | BHEL | BHEL | Mar-15 | U-4 | 270 | Sep-17 | Oct-21 | 7544.26 | Jul-21 |
| 13 | *Telangana* | Yadadri TPS | TSGENCO | BHEL | BHEL | Oct-17 | U-1 | 800 | Oct-20 | Feb-23 | 11719.15 | Jul-21 |
| | | | | | | | U-2 | 800 | Oct-20 | Mar-23 | | |
| | | | | | | | U-3 | 800 | Jun-21 | Apr-23 | | |
| | | | | | | | U-4 | 800 | Jun-21 | May-23 | | |
| | | | | | | | U-5 | 800 | Oct-21 | Jun-23 | | |
| 14 | *Karnataka* | Yelahanka CCPP | KPCL | BHEL | BHEL | Nov-15 | GT+ST | 370 | Feb-18 | Nov-21 | 2044.64 | Jul-21 |
| 15 | *Maharashtra* | Bhusawal TPS | MAHAGENCO | BHEL | BHEL | Jan-18 | U-6 | 660 | May-22 | Nov-22 | 2273.01 | Jul-21 |
| 16 | *West bengal* | Sagardighi Thermal Power Plant Ph-III | WBPDCL | BHEL | BHEL | Dec-18 | U-1 | 660 | Jan-24 | Jan-24 | 477.7 | Jul-21 |
| **Total State Sector** | | | | | | | | **17220** | | | | |
| ***PRIVATE SECTOR*** | | | | | | | | | | | | |
| 1 | *TN* | Tuticorin TPP St-IV | SEPC | MEIL (BHEL) | MEIL (BHEL) | Jan-14 | U-1 | 525 | Oct-18 | Aug-21 | 3643.42 | Jul-21 |
| | **Total Private Sector** | | | | | | | **525** | | | | |
| | **Grand Total** | | | | | | | **31485** | | | | |

* Considering the issues like NGT order, land litigation, local fishermen litigation and BOP package retendering works. TANGEDCO Board vide.BP.43,dated: 29.04.2021 has accorded approval to shift the existing 2x800 MW Uppur STPP to Udangudi site as 2x800MW Udangudi Stage-III and consider Uppur as a fresh project once all the legal issues in NGT and other places are settled

## 5.2 Under construction TPP where work is on hold / not likely to be commissioned

| S. No | State | Project Name / Impl. Agency/ EPC or BTG | LOA Date/ ordered date | Unit No | Cap. (MW) | Org. Comm. Sched. | Present Status/Remarks | Original Cost | Latest Cost (cr) | Exp. (cr) | Exp Till Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ***CENTRAL SECTOR*** | | | | | | | | | |
| 1 | Rajasthan | Barsingar TPP ext/NLC/Reliance Infra/ Chinese | Nov-16 | U-1 | 250 | May-20 | Project put on hold due to withdrawal of PPA by DISCOM | 2112.59 | 2112.59 | 158.25 | Jan-21 |
| 2 | Rajasthan | Bithnok TPP /NLC/Reliance Infra/ Chinese | Nov-16 | U-1 | 250 | May-20 | Project put on hold due to withdrawal of PPA by DISCOM | 2196.3 | 2196.3 | 173.82 | Jan-21 |
| | **TOTAL CENTRAL SECTOR** | | | | **500** | | | | | | |
| | | ***STATE SECTOR*** | | | | | | | | | |
| 1 | *TN* | Ennore exp. SCTPP/ Tangedco/ BTG Lanco (DEC-CHINA ) | May-14 | U-1 | 660 | Jan-18 | Corporate Insolvency & Bankruptcy Process (CIRP) initiated against LITL(the EPC Contractor) by IDBI Bank from 07.08.2017 and interim resolution professional appointed on 10.08.2017 and hence the project has been stalled from 07.08.2017. | 4956 | 5421.38 | 791.4 | Dec-17 |
| | **TOTAL STATE SECTOR** | | | | **660** | | | | | | |
| | | ***PRIVATE SECTOR*** | | | | | | | | | |
| 1 | *AP* | Bhavanapadu TPP Ph-I / East Coast Energy Ltd. / BTG DEC china | Sep-09 | U-1 | 660 | Oct-13 | Liquidation Order date 22/04/2019 | 6571.94 | 9343.15 | 3785.6 | Jan-16 |
| | | | Sep-09 | U-2 | 660 | Mar-14 | | | | | |
| 2 | *AP* | Thamminapatnam TPP stage -II / Meenakshi Energy Pvt. Ltd. SG-Cether vessels TG-Chinese | Dec-09 | U-3 | 350 | May-12 | Admitted to NCLT on 07.11.2019 | 5005 | 5414.4 | 5414.4 | Feb-19 |
| | | | Dec-09 | U-4 | 350 | Aug-12 | | | | | |
| 3 | Bihar | Siriya TPP (Jas Infra. TPP) / JICPL BTG-DEC China | Mar-11 | U-1 | 660 | Aug-14 | Liquidation Order date 17.07.2020 | 11120 | 11120 | NA | NA |
| | | | Mar-11 | U-2 | 660 | Dec-14 | | | | | |
| | | | Mar-11 | U-3 | 660 | Apr-15 | | | | | |
| | | | Mar-11 | U-4 | 660 | Aug-15 | | | | | |
| 4 | *Chhattisgarh* | Akaltara TPP (Naiyara) / KSK Mahandi Power Company Ltd./ Boiler-SEPCO CHINA (Shanhai china) / TG-SEPCO ( Dongfong china) | Apr-09 | U-4 | 600 | Apr-13 | Admitted to NCLT on 03.01.2019 | 16190 | 27080 | 18730 | Dec-16 |
| | | | Apr-09 | U-5 | 600 | Aug-13 | | | | | |
| | | | Apr-09 | U-6 | 600 | Dec-13 | | | | | |
| 5 | *Chhattisgarh* | Binjkote TPP/ SKS Power Generation (Chhattisgarh) Ltd. Boiler-Cethar Vessels /Turbine-Harbin China | Mar-11 | U-3 | 300 | Mar-14 | Work held up due to financial constraints. | 5058 | 7940 | 3828 | Jun-15 |
| | | | Mar-11 | U-4 | 300 | Jun-14 | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | *Chhattisgarh* | Lanco Amarkantak TPP-II/ LAP Pvt. Ltd. BTG-DEC china | Nov-09 | U-3 | 660 | Jan-12 | Admitted to NCLT on 05.09.2019 | 6886 | 10815.24 | 9537.79 | Dec-16 |
| | | | Nov-09 | U-4 | 660 | Mar-12 | | | | | |
| 7 | *Chhattisgarh* | Singhitarai TPP / Athena Chhattisgarh Power Ltd. BTG -DEC china | Dec-09 | U-1 | 600 | Nov-14 | Admitted to NCLT on 15.05.2019 | 6200 | 8443.79 | 6408.47 | May-17 |
| | | | Dec-09 | U-2 | 600 | Feb-15 | | | | | |
| 8 | *Chhattisgarh* | Salora TPP / Vandana Vidyut/ Boiler-Cether Vessles /TG Harbin China | Sep-09 | U-2 | 135 | Sep-11 | Liquidation Order date 16.12.2019 | 1458.44 | 2386.89 | 2386.89 | Mar-15 |
| 9 | *Chhattisgarh* | Deveri (Visa) TPP / Visa Power Ltd. BTG-BHEL | Jun-10 | U-1 | 600 | Aug-13 | Liquidation Order date 11.10.2018 | 2618.7 | 3930 | 2077.23 | Nov-15 |
| 10 | *Jharkhand* | Matrishri Usha TPP Ph-I / Corporate Power Ltd. EPC-BHEL | Dec-09 | U-1 | 270 | Apr-12 | Admitted to NCLT on 19.02.2020 | 2900 | 3120 | 3120 | Nov-12 |
| | | | Dec-09 | U-2 | 270 | May-12 | | | | | |
| 11 | *Jharkhand* | Matrishri Usha TPP Ph-II / Corporate Power Ltd. EPC-BHEL | Mar-11 | U-3 | 270 | Oct-12 | Admitted to NCLT on 19.02.2020 | 3182 | 3182 | 2207 | Sep-12 |
| | | | Mar-11 | U-4 | 270 | Jan-13 | | | | | |
| 12 | *Jharkhand* | Tori TPP Ph-I / Essar Power Ltd. BTG-Harbin China | Aug-08 | U-1 | 600 | Jul-12 | Liquidation Order date 18.12.2019 | 5700 | 5700 | 4757.92 | Jun-17 |
| | | | Aug-08 | U-2 | 600 | Sep-12 | | | | | |
| 13 | *Jharkhand* | Tori TPP Ph-II / Essar Power Ltd./ BTG-Harbin China | Feb-10 | U-3 | 600 | Dec-15 | Liquidation Order date 18.12.2019 | 2500 | 2500 | 246.65 | Mar-15 |
| 14 | *Maharashtra* | Amravati TPP Ph-II / Ratan India Power Pvt. Ltd. BTG-BHEL | Oct-10 | U-1 | 270 | Jul-14 | Due to financial constraints project has been put on hold. | 6646 | 6646 | 763.8 | Mar-15 |
| | | | Oct-10 | U-2 | 270 | Sep-14 | | | | | |
| | | | Oct-10 | U-3 | 270 | Nov-14 | | | | | |
| | | | Oct-10 | U-4 | 270 | Jan-15 | | | | | |
| | | | Oct-10 | U-5 | 270 | Mar-15 | | | | | |
| 15 | *Maharashtra* | Lanco Vidarbha TPP / LVP Pvt. Ltd. EPC-LANCO/ Boiler- Dongfong China / Turbine- Harbin china | Nov-09 | U-1 | 660 | Jul-14 | Admitted to NCLT on 03.10.2019 | 6936 | 10433 | 5338 | Apr-17 |
| | | | Nov-09 | U-2 | 660 | Nov-14 | | | | | |
| 16 | *Maharashtra* | Nasik TPP Ph-II / Ratan India Nasik Power Pvt. Ltd. BTG-BHEL | Nov-09 | U-1 | 270 | Apr-13 | No work is going on at site due to fiinacial problems. | 6789 | 6789 | 711.81 | Mar-15 |
| | | | Nov-09 | U-2 | 270 | Jun-13 | | | | | |
| | | | Nov-09 | U-3 | 270 | Aug-13 | | | | | |
| | | | Nov-09 | U-4 | 270 | Oct-13 | | | | | |
| | | | Nov-09 | U-5 | 270 | Dec-13 | | | | | |
| 17 | *Maharashtra* | Bijora Ghanmukh TPP / Jinbhuvish Power Generation Pvt. Ltd. / BTG-CWPC, Chinese | Sep-11 | U-1 | 300 | Dec-16 | Work held up due to financial constraints. | 3189 | 3450 | 422.27 | Mar-15 |
| | | | Sep-11 | U-2 | 300 | Mar-17 | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18 | *Maharashtra* | Shirpur TPP ,Shirpur Power Pvt. Ltd./ BTG-BHEL | Nov-11 | U-2 | 150 | Apr-15 | Admitted to NCLT on 04.03.2020 | 2413 | 2413 | 2277.94 | Apr-17 |
| 19 | *MP* | Gorgi TPP / D.B. Power (MP) Ltd. BTG-BHEL | Mar-11 | U-1 | 660 | Jun-13 | Work is on hold at site due to Financial crunch being faced by the developer. | 3941 | 3941 | 475.79 | Sep-15 |
| 20 | *Odisha* | Ind Barath TPP (Odisha) / Ind Barath /BTG-Cethar Vessels | May-09 | U-2 | 350 | Dec-11 | financial constraints due to non-disbursement of funds by financer. | 3150 | 4254 | 4254 | Apr-17 |
| 21 | *Odisha* | KVK Nilanchal TPP/ KVK Nilanchal / BTG-Harbin China | Nov-09 | U-1 | 350 | Dec-11 | Admitted to NCLT on 17.09.2019. Initially delayed due to chimney clearance and law & order problem. Work was held up due to stay by Hon'ble High Court of Orissa. Hon'ble High Court has given order dated : 20.05.14 to start the work. Delay in approval of revised cost of the project by lenders. | 4990 | 6000 | 1708.36 | Mar-15 |
| | | | Nov-09 | U-2 | 350 | Feb-12 | | | | | |
| | | | Nov-09 | U-3 | 350 | Feb-12 | | | | | |
| 22 | *Odisha* | Lanco Babandh TPP / LBP Ltd./ BTG-DEC Chinese | Nov-09 | U-1 | 660 | Apr-13 | Liquidation Order date 27.11.2019 | 6930 | 10430 | 7615 | Mar-17 |
| | | | Nov-09 | U-2 | 660 | Aug-13 | | | | | |
| 23 | *Odisha* | Malibrahmani TPP / MPCL/ BTG-BHEL | Jun-10 | U-1 | 525 | Dec-12 | Liquidation Order date 23.10.2019 | 5093 | 6330 | 5329.75 | Dec-14 |
| | | | Jun-10 | U-2 | 525 | Feb-13 | | | | | |
| 24 | *TN* | Tuticorin TPP (Ind- Barath) / IBPIL / BTG- Shangdong China | May-10 | U-1 | 660 | May-12 | Liquidation Order date 22.04.2019 | 3595 | 3595 | 2000 | May-15 |
| 25 | *WB* | Hiranmaye Energy Ltd (India Power corporation (Haldia) TPP / Haldia Energy Ltd/ EPC- MEIL /BTG-BHEL. | Sep-10 | U-3 | 150 | May-16 | work is totally on hold | 2656 | 3307 | 3263.05 | Oct-17 |
| | **Total Private Sector** | | | | **23205** | | | | | | |
| | **Grand Total** | | | | **24365** | | | | | | |

# BROAD STATUS

# Of
# UNDER CONSTRUCTION

# THERMAL POWER PROJECTS

# CENTRAL SECTOR

# BARH STPP STAGE-I, 3x660 MW

**As on 31.07.2021**

**CENTRAL SECTOR**

| | | | | |
|---|---|---|---|---|
| **Developer-** NTPC | **Zero Date:** Mar`2005 | **Main Plant Vendor-**Power Machines, Russia, M/s TPE, M/s DPSI | **Original/Anticipated Trial Run UNIT-01** | Feb'2010 / Aug'2021 |
| | | | **Original/ Anticipated Trial Run UNIT-02** | Dec'2010 / Jun''2022 |
| | | | **Original/ Anticipated Trial Run UNIT-03** | Oct'2011/ Jul'2023 |
| **ADDRESS** : -NTPC Barh Super Thermal Power Station, Barh, Distt – Patna, Bihar - 803215 | | | **E-GEN PORTAL:** REGISTRATION STATUS- NO | |

| **CLEARANCES AND STATIC DATA** | | **FINANCIAL DATA (in Crore)** | |
|---|---|---|---|
| **FUEL TYPE** | Coal | **ORIGINAL ESTIMATED COST OF THE PROJECT** | 9647 |
| **COAL COMBUSTION TECHNOLOGY** | Supercritical | **LATEST ESTIMATED COST** | 21312.11 |
| **APPROVAL DATE/NOTICE TO** | Feb-05 | **DATE OF FINANCIAL CLOSURE** | 21.02.2005 |
| **ZERO DATE:** | TG: Power Machines, Russia on 14.03.2005. Boiler: Awarded to TPE on 14.03.2005, contract terminated on 14.01.2015; Balance work awarded to DPSI on 30.01.2016. Pressure Parts ordered partially (replacement of DI 59 coils) to GE Power on 15.01.2018. | **EXP. DURING 2010-11** | 921.81 |
| **PPA** | Bihar (incl. Home state share): 1025 MW, Jharkhand: 202 MW, Orissa: 418 MW, Sikkim: 38 MW and unallocated: 297MW. | **EXP. DURING 2011-12** | 1,286.25 |
| **COAL LINKAGE/FSA** | Letter of Assurance dtd. 18.11.2010 from CCL, securing 10 MMTPA coal for 03 Units. FSA of Unit-1 (3.333 MMTPA) already signed with CCL(all operative mines, G8-G10) as per MOC PD dtd. 17.07.2013 FSA of Unit-2 & 3 to be signed after commissioning in terms of para 1A(i)of SHAKTI-2017 policy. | **EXP. DURING 2012-13** | 1,384.43 |
| **START UP POWER AGREEMENT** | Done with PGCIL on 27.01.2020 for 400kV D/C LILO of Kahalgaon-Patna, Barh-Patna & Barh-Gorakhpur lines | **EXP. DURING 2013-14** | 1,581.22 |
| **POWER EVACUATION SYSTEM** | 400kV D/C LILO of Kahalgaon-Patna, Barh-Patna & Barh-Gorakhpur D/c lines (incl. stage 2) | **EXP. DURING 2014-15** | 568.49 |
| **LAND POSSESSION** | Required - 3212 Acres, Under Possession - 3212 Acres | **EXP. DURING 2015-16** | 1143.46 |
| **WATER ALLOCATION** | 100 Cusec from River Ganges | **EXP. DURING 2016-17** | 1410.21 |
| **MOEF CLEARANCE** | 11.09.2001 | **EXP. DURING 2017-18** | 1389.43 |
| **CIVIL AVIATION CLEARANCE** | 09.08.2004 | **EXP. DURING 2018-19** | 1453.89 |
| **CPCB CLEARANCE** | Not Applicable | **EXP. DURING 2019-20** | 1502.47 |
| **SPCB CLEARANCE** | Consent to Operate (Emission & Discharge) Granted by SPCB on 04.07.2017, Fior Unit#1, and is Valid upto 30.09.2021 | **EXP. DURING 2020-21** | 1123.15 |
| **FOREST CLEARANCE** | Not Applicable | | |
| | | **EXP. OF July'21** | 221 |
| | | **TOTAL EXPENDITURE (UPTO 31.07.2021 )** | 19010 |

## UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL /ANTICIPATED )

| Sl. | MILESTONE | UNIT-01 | | UNIT-02 | | UNIT-03 | |
|---|---|---|---|---|---|---|---|
| | | Original Date of Completion | Actual/Anticipated Date of Completion | Original Date of Completion | Actual/Anticipated Dateof Completion | Original Date of Completion | Actual/Anticipated DateofCompletion |
| 1 | COMPLETION OF BOILER FOUNDATION | Complete | | | | | |
| 2 | START OF BOILER ERECTION | May'2006 | Mar'2011(A) | Mar'2007 | Jul'2011(A) | Jan'2008 | Jan'2012(A) |
| 3 | BOILER DRUM LIFTING | N/A | | | | | |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | Complete | | | | | |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | Dec'2007 | Feb'2013(A) | Oct'2008 | Jan'2021(A) | Aug'2009 | Jun'2022 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | - | Feb'2013(A) | - | Jan'2021(A) | - | Jun'2022 |
| 7 | BOILER LIGHT UP | Aug'2008 | Aug'2019(A) | Jun'2009 | Dec'2021 | Apr'2010 | Nov'2022 |
| 8 | CHEMICAL CLEANING | | | | | | |
| 9 | STEAM BLOWING START | | | | | | |
| 10 | STEAM BLOWING COMPLETION | Jan'2009 | Jan'2020(A) | Nov'2009 | Feb'2022 | Sep'2010 | Mar'2023 |
| 11 | HP PIPING ERECTION START | | | | | | |
| 12 | HP PIPING ERECTION | | | | | | |
| 13 | CONDENSER ERECTION START | Jun'2007 | Nov'2008(A) | Apr'2008 | Jan'2009(A) | Feb'2009 | Nov'2013(A) |
| 14 | TG ERECTION START | Aug'2007 | Aug'2011(A) | Jun'2008 | Sep'2011(A) | Apr'2009 | Mar'2012(A) |
| 15 | TG BOX UP | Aug'2008 | Dec'2013(A) | Jun'2009 | Jan'2015(A) | Apr'2010 | Jul'2022 |
| 16 | START OF OILFLUSHING | | | | | | |
| 17 | ROLLING & SYNC. | Mar'2009 | Sep'2020(A) | Jan'2010 | Apr'2022 | Nov'2010 | May'2023 |
| 18 | FULL LOAD | - | Apr'2021(A) | - | May'2022 | - | Jun'2023 |
| 19 | TRIAL RUN | Feb'2010 | Aug'2021 | Dec'2010 | Jun''2022 | Oct'2011 | Jul'2023 |
| 20 | COD | | | | | | |
| 21 | PG TEST START AND COMPLETION | | | | | | |

## MAIN PLANT PACKAGE (BTG VENDOR):

| Sl. | Packages | AREA | UNIT-01 (Percentage Completion) | UNIT-02 (Percentage Completion) | UNIT-03 (Percentage Completion) |
|---|---|---|---|---|---|
| 1 | BOILER | CIVIL<br>STRUCTURE<br>PRESSUREPARTS | 100% | 95%<br>83%<br>80% | 85%<br>50%<br>60% |
| 2 | TG | CIVIL<br>STRUCTURE<br>TG ERECTION | 100% | 96%<br>96%<br>69% | 94%<br>94%<br>45% |
| 3 | ESP | UNDER PROGRESS | 100% | 95% | 95% |
| 4 | FGD | CIVIL WORK<br>MATERIAL SUPPLY<br>ERECTION WORK | 10%<br>10.5%<br>Work in progres | 10%<br>21%<br>Yet to start | 10%<br>17%<br>Yet to start |

## STATUS OF BOPs

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency (EPC-BHEL) | UNIT-01 (Percentage Completion) | UNIT-02 (Percentage Completion) | UNIT-03 (Percentage Completion) |
|---|---|---|---|---|---|
| 1 | Chimney | NBCC | 100% | | |
| 2 | Coal Handling Plant | L&T (Conveyor package) | 85% | | |
| | | L&T (Wagon Tripler | 100% | | |
| | | L&T(Stacker Reclaimer) | 100% | | |
| 3 | Ash Handling Plant | Melco | 65% | | |
| 4 | Fuel Oil System | Techno | 100% | 85% | |
| 5 | Cooling Towers | Paharpur | 100% | 95% | |
| 6 | CW Pump house & Piping | KBL | 100% | 95% | |
| 7 | PTPlant | SPML | 100% | 80% | |
| 8 | DM Plant | Driplex | 100% | | |
| 9 | Air Compressor | Power Machines | 85% | | |
| 10 | Fire Protection System | Minimax | 100.00% | 61% | |
| 11 | Switch Yard | BHEL | 100% | | |
| 12 | Station Transformers | ABB | 100% | | |
| 13 | Unit Transformers | TRIL/BHEL/Kanohar | 100% | 95% | |
| 14 | Railwaysiding | RITES | 100% | | |
| 15 | Power Evacuation | PGCIL | 100% | | |

**REASONS OF DELAY**:

1. Inordinate delay by Main Plant (SG & Auxiliaries Package) vendor M/s TPE. Work started after 6 Years of award. Contract of M/s TPE wasterminated in Jan'15 due to consistent failure of commitments and poor performance. Contract for balance works re-awarded after 1 year in Jan'2016.
2. During Hydro Test of Boiler U#1, DI-59 Coils in PSH-IV, CSH & LPRH-II failed which were supplied by M/s TPE. Accordingly, change of material to SS304H was approved and contract was awarded to M/s GE on 15.01.2018 for supply, Dismantling & Installation of Coils. Delayed project by approx. 2 years.
3. Due to unusual delay in project commissioning for Main plant vendors, revival of Balance Offsite Packages is taking considerable time.
4. Due to US sanction on Power Machines, Russia, balance TG/SG supplies and works got delayed.
5. Delay due to land acquisition / physical possession in past.
6. Law & Order issues in past.
7. Abnormal Heavy Rain Fall in Year 2007, 2008, 2011, 2014 & 2016 in Monsoon period.

**CRITICAL AREAS**: DPSI has expressed inability in supply of balance main equipments as well as mandatory spares of SG Pkg ordered by them on TKZ, Russia due to risk of secondary sanctions affecting the progress of work. Process of modality for award directly by NTPC in progress.

Readiness of railway line Hazaribagh-Koderma-Tilaiya-Rajgir-Bakhtiyarpur route (250km) is required to ease the coal transportation and enable requisite quantity of coal transportation for Barh Project.

NTPC has funded Rs 664 Crores to Railways for development of following works in envisaged Coal transportation route: Construction of Karnauti-Bakhtiyarpur flyover (Acquisition of ~12 Acre land by Railways is balance) Construction of Manpur Flyover (ROR) - ROR work in progress. Electrification of Manpur-Tillaiya-Bakhtiyarpur section. (Charging from Tilaiya sub-station balance) Deposit work of OHE inside plant: OHE of bulb line, track hopper-2 line and other associated lines- Erection work in progress.

# BRBCL Nabinagar TPP (4x250MW)

**As on 31.07.2021**

**CENTRAL SECTOR**

| | | | | |
|---|---|---|---|---|
| **Developer-** BRBCL (JV OF NTPC&RLY) | **Zero Date:**22.01.2008 | **Main Plant Vendor-**M/S BHEL (BTG) | **Original/ Actual COD UNIT-01**<br>**Original/ Actual COD UNIT-02**<br>**Original/ Actual COD UNIT-03**<br>**Original/ Anticipated Trial RunUNIT-04** | Jun-13 / 15.01.2017<br>Oct-13 /10.09.2017<br>Feb-14/ 26.02.2019<br>FEB 2014 /Sept 2021 |
| **ADDRESS** : - BRBCL NABINAGAR, Khaira Thana, Dist Aurangabad, Bihar 824303 | | | **E-GEN PORTAL:** REGISTRATION STATUS- U1 – 1200000330 , U2 – 1200000331 & U3 - 1200000332 | |

| **CLEARANCES AND STATIC DATA** | | **FINANCIAL DATA (in Crore)** | |
|---|---|---|---|
| **FUEL TYPE** | COAL | **ORIGINAL ESTIMATED COST OF THE PROJECT** | Rs 5352.50Crs / 15.02.2007 |
| **COAL COMBUSTION TECHNOLOGY** | SUB CRITICAL | **LATEST ESTIMATED COST** | Rs 10,567Crs |
| **APPROVAL DATE/NOTICE TO PROCEED(NTP)** | CCEA approval sought on 15.02.2007 | **DATE OF FINANCIAL CLOSURE** | |
| **ZERO DATE:** | 22.01.2208 | **Exp. during 2007-08** | 263.19 |
| **PPA** | PPA siged with Indian railways for 900MW,PPA signed with GoB for 100MW | **Exp. during 2008-09** | 68.37 |
| **COAL LINKAGE/FSA** | 3.75/5MTPA FSA done, U4 (Last unit) under construction) - FSA yet to sign | **Exp. during 2009-10** | 196.17 |
| **START UP POWER AGREEMENT** | Already av. (Taken in Dec.'14) Now 3 Unitsunder operation. | **Exp. during 2010-11** | 226.8 |
| **POWER EVACUATION SYSTEM** | 400KV Line NTPP - Sasaram/Pusauli Grid | **Exp. during 2011-12** | 487.13 |
| **LAND POSSESSION** | 1488/1526ACRES Acquired, Balance 38.28 Acres under acquisition | **Exp. during 2012-13** | 1096.68 |
| **WATER ALLOCATION** | SONE RIVER, 60CUSEC Agreement done. | **Exp. during 2013-14** | 1300.68 |
| **MOEF CLEARANCE** | All clearance obtained. | **Exp. during 2014-15** | 906.04 |
| **CIVIL AVIATION CLEARANCE** | | **Exp. during 2015-16** | 927.77 |
| **CPCB CLEARANCE** | | **Exp. during 2016-17** | 950.11 |
| **SPCB CLEARANCE** | | **Exp. during 2017-18** | 705.71 |
| **FOREST CLEARANCE** | | **Exp. during 2018-19** | 620.79 |
| | | **Exp. during 2019-20** | 399.42 |
| | | **Exp. during 2020-21** | 356.48 |
| | | | |
| | | **EXP. OF Jul'21** | 53.69 |
| | | **TOTAL EXPENDITURE (UPTO 31.07.21)** | 8892.95 |

| UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED ) | | | |
|---|---|---|---|
| Sl. | MILESTONE | UNIT-04 | |
| | | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | 30.10.2011 | 30.06.2012 |
| 2 | START OF BOILER ERECTION | 01.11.2011 | 07.12.2012 |
| 3 | BOILER DRUM LIFTING | 15.07.2012 | 16.09.2015 |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | 30.06.2012 | 25.07.2015 |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | 30.11.2012 | 28.04.2019 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | 30.12.2012 | 28.08.2019 |
| 7 | BOILER LIGHT UP | 30.04.2013 | 04.11.2020 |
| 8 | CHEMICAL CLEANING | 30.05.2013 | 13.11.2020 |
| 9 | STEAM BLOWING START | 30.08.2013 | 15.07.2021 |
| 10 | STEAM BLOWING COMPLETION | 30.09.2013 | 30.07.2021 |
| 11 | HP PIPING ERECTION START | 30.08.2013 | 20.06.2021 |
| 12 | HP PIPING ERECTION COMPLETION | 10.10.2013 | 20.07.2021 |
| 13 | CONDENSER ERECTION START | 30.11.2012 | 25.02.2019 |
| 14 | TG ERECTION START | 30.10.2012 | 16.01.2019 |
| 15 | TG BOX UP | 30.07.2013 | 12.08.2021 |
| 16 | START OF OIL FLUSHING | 20.08.2013 | 11.04.2020 |
| 17 | ROLLING & SYNC. | Feb.'14 | 24.08.2021 |
| 18 | FULL LOAD | Feb.'14 | 30.08.2021 |
| 19 | TRIAL RUN | Feb.'14 | 30.09.21 |
| 20 | COD | Aug.'14 | 30.09.2021 |
| 21 | PG TEST START AND COMPLETION | Aug.'2014 | 30.09.2021 |

| MAIN PLANT PACKAGE (BTG VENDOR): | | | |
|---|---|---|---|
| Sl. | Packages | UNIT-04 | % Completion |
| 1 | BOILER | Civil works<br>Structural works<br>Pressure Parts | 98%<br>99%<br>96.23% |
| 2 | TG | Civil works<br>Structural works<br>Pressure Parts | 99%<br>99%<br>93.75% |
| 3 | ESP | Pass status | 80.52% |
| 4 | FGD | CIVIL WORK<br>MATERIAL SUPPLY<br>ERECTION WORK | 5.89%<br>NIL<br>NIL |

## STATUS OF BOPs

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency | % Completion |
|---|---|---|---|
| 1 | Chimney | Bygging India | 95% |
| 2 | Coal Handling Plant | Techpro Ltd (Conveyor | 80% |
| | | Elecon/GPL | 100% |
| | | Elecon/GPL (Stacker | 70% |
| 3 | Ash Handling Plant | INDURE | 71.20% |
| 4 | Fuel Oil System | BHEL/Station Piping | 100% |
| 5 | Cooling Towers | Paharpur CT Ltd. | 87% |
| 6 | CW Pump house & Piping | JYOTI | 75% |
| 7 | PT Plant | TOSHIBA | 97% |
| 8 | DM Plant | DRIPLEX | 100% |
| 9 | Air Compressor | BHEL | 100% |
| 10 | Fire Protection System | LLYOD | 70% |
| 11 | Switch Yard | ABB | 95% |
| 12 | Station Transformers | ABB | 100% |
| 13 | Unit Transformers | ABB | 95% |
| 14 | Railway siding | RITES | 78% |
| 15 | Power Evacuation | PGCIL | 100% |

**REASONS OF DELAY:**

1. Delay in Land acquisition.
2. Frequent strike & NAXAL Bandh in initial project construction phase upto 2014.

**CRITICAL AREAS:**

1. Augmentation of Manpower in BHEL Area SG & TG.
2. Early supply of shortfall material from BHEL Manuf. Units(By mid Aug.'21)
3. Balance Land acquisition to be expedited.

# NABINAGAR SUPER THERMAL POWER PROJECT, STAGE-I (3X660MW)

**As on 31.07.2021**

**CENTRAL SECTOR**

| | | | | |
|---|---|---|---|---|
| **Developer-** NPGCL (Subsidiary of NTPC) | **Zero Date:**21-01-2013 | **Main Plant Vendor-**Main Plant SG - M/s BHEL, STG - M/s Alstom-Bharat Forge (GE) | **Original/ Actual COD UNIT-01**<br>**Original/ Actual COD UNIT-02**<br>**Original/ Anticipated Trial Run UNIT-03** | May-17/ 06.09.2019 (A)<br>Nov-17/ 23.07.2021 (A)<br>May'2018/ Nov'2021 |
| **ADDRESS** : -Shivanpur, PO- Ankorha, District- Aurangabad, State- Bihar, PIN-824303 | | | **E-GEN PORTAL:** REGISTRATION STATUS- NO, | |

| **CLEARANCES AND STATIC DATA** | | **FINANCIAL DATA (in Crore)** | |
|---|---|---|---|
| **FUEL TYPE** | Coal | **ORIGINAL ESTIMATED COST OF THE PROJECT** | 13624.01 Crores (basis Q3 2011-12) |
| **COAL COMBUSTION TECHNOLOGY** | Supercritical | **LATEST ESTIMATED COST** | 17304 Crores ( Estimate base Q4 , 2018) |
| **APPROVAL DATE/NOTICE TO PROCEED (NTP)** | 41295 | **DATE OF FINANCIAL CLOSURE** | |
| **ZERO DATE:** | 21-01-2013. Main Plant SG- M/s BHEL, LOA Date: 31-01 2013, STG- M/s Alstom-Bharat Forge (GE), LOA Date: 31-01-2013 | **EXP. DURING 2014-15** | 3305.32 |
| **PPA** | PPA Signed: Bihar:-1552.5 MW, Jharkhand:- 60 MW, UP:-209 MW, Sikkim :-10 MW, Un-Allocated - 148.5 MW Total Share (Firm + UN-allocated): Bihar :-1678MW, Jharkhand :- 65 MW, UP:-226MW, Sikkim:-11MW | **EXP. DURING 2015-16** | 2697.12 |
| **COAL LINKAGE/FSA** | Coal linkage agreement from CCL for 7.03 Million Ton Per Annum. FSA signed with CCL on 22.04.2020. | **EXP. DURING 2016-17** | 3070 |
| **START UP POWER AGREEMENT** | Through 132 KV grid of Bihar State Power Transmission Company Limited (BSPTCL) and South Bihar Power Distribution Company Limited (SBPDCL). | **EXP. DURING 2017-18** | 2265 |
| **POWER EVACUATION SYSTEM** | Being Executed by PGCIL. 400 kV line from NPGC to GAYA and second line from NPGC to Patna charged. | **EXP. DURING 2018-19** | 1786 |
| **LAND POSSESSION** | Total land required 2972 acres. | **EXP. DURING 2019-20** | 1,373.21 |
| **WATER ALLOCATION** | 125 CUSEC (water agreement signed on 09.10.2017 with Water Resource Department , Govt of Bihar) | **EXP. DURING 2020-21** | 1249.06 |
| **MOEF CLEARANCE** | MOEF clearance received on 27.12.10.<br>Clearance for Extension received on 14.01.20 with validity till 25.12.20.<br>Further, Clearance extended for six month till June'21 vide MOEF letter dated 10.12.2020. | **EXP. OF Jul'21** | 49.03 |
| **CIVIL AVIATION CLEARANCE** | Clearance received on 04.11.09. Re validation of NOC issued Dated 11.11.16 Valid up to 03.11.2021 | **TOTAL EXPENDITURE (UPTO 31.07.21 )** | 16050.60 |
| **CPCB CLEARANCE** | NOT APPLICABLE | | |
| **SPCB CLEARANCE** | Valid up to 30.06.2022 (CTO Granted on 05.03.18.) | | |
| **FOREST CLEARANCE** | Received dated 13.02.10 (There is no forest land in the Project land) | | |

| UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED ) | | | |
|---|---|---|---|
| Sl. | MILESTONE | UNIT-03 | |
| | | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | | |
| 2 | START OF BOILER ERECTION | Jan'2015 | Apr'2015 |
| 3 | BOILER DRUM LIFTING | NA | NA |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | | |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | Aug'2016 | Jul'2019 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | | Nov'2020 |
| 7 | BOILER LIGHT UP | Jul'2017 | Dec'2020 |
| 8 | CHEMICAL CLEANING COMPLETION | | Jan'2021 |
| 9 | STEAM BLOWING START | July'2017 | Jan'2021 |
| 10 | STEAM BLOWING COMPLETION | Aug'2017 | Feb'2021 |
| 11 | HP PIPING ERECTION START | Feb'2016 | Feb'2018 |
| 12 | HP PIPING ERECTION COMPLETION | Nov'2016 | May'2018 |
| 13 | CONDENSER ERECTION START | Feb'2016 | June'2017 |
| 14 | TG ERECTION START | Mar'2016 | July'2017 |
| 15 | TG BOX UP | Apr'2017 | June'2018 |
| 16 | START OF OIL FLUSHING | Sep'2017 | Dec'2018 |
| 17 | ROLLING & SYNC. | Nov'2017 | Mar'2021 |
| 18 | FULL LOAD | Jan'2018 | Nov'2021 |
| 19 | TRIAL RUN | May'2018 | Nov'2021 |
| 20 | COD | May'2018 | Dec'2021 |
| 21 | PG TEST START AND COMPLETION | | |

| MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL & M/s Alstom-Bharat Forge (GE) (30.01.2013) | | | |
|---|---|---|---|
| Sl. | Packages | UNIT-03 | % Completion |
| 1 | BOILER | Civil works<br>Structural works | 95% |
| 2 | TG | Civil works<br>Structural works<br>Pressure Parts | 95% |
| 3 | ESP | Pass status | 93% |
| 4 | FGD | ALL UNITS | 12.5% |

## STATUS OF BOPs

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency | % Completion |
|---|---|---|---|
| 1 | Chimney | M/S Gannon Dunkerely & co. Ltd | 87.00% |
| 2 | Coal Handling Plant | M/s TRF Ltd(Conveyor package) | 82.00%<br>100.00%<br>80.00% |
| 3 | Ash Handling Plant | M/s DCIPS | 88.00% |
| 4 | Fuel Oil System | | |
| 5 | Cooling Towers | | 85.00% |
| 6 | CW Pump house & Piping | Flowserve India controls Pvt Ltd | 95.00% |
| 7 | PT Plant | | 90.00% |
| 8 | DM Plant | | 100.00% |
| 9 | Air Compressor | | |
| 10 | Fire Protection System | | |
| 11 | Switch Yard | M/s BHEL TBG Noida | 95.00% |
| 12 | Station Transformers | M/s GE T&D India Ltd. | 66.66% |
| 13 | Unit Transformers | M/s GE T&D India Ltd. | 100.00% |
| 14 | Railway siding | M/s IRCON International Ltd | 90.00% |
| 15 | Power Evacuation | M/s Powergrid | 100.00% |

**REASONS OF DELAY**:

- Readiness of Boiler#3 is getting delayed due to delay in receipt of balance material and further is dependent on supply of Insulation materials from BHEL.
- Items against open orders by BHEL from Trichy / Ranipet / Bhopal etc. (Ordered: 1306 DUs & 92 MDR, dispatch being expedited)
- Delay in balance civil work for SG U#2 & 3 and Offsite works as agency (M/s ERA) is under financial stress and is in NCLT. It is affecting work progress. Part works Offloaded and being carried out by other agencies.
- Delay in readiness of Ash handling System as agency (M/s DCIPS) is under financial stress and is in NCLT and under liquidation process. It is adversely affecting Supply and work progress. Ordering of balance materials of U#3 Ash handling system being expedited.

**CRITICAL AREAS**:
NIL

# NORTH KARANPURA TPP (3x660 MW)

**As on 31.07.2021**

**CENTRAL SECTOR**

| | | | | |
|---|---|---|---|---|
| **Developer-** NTPC | **Zero Date:** 28.02.2014 | **Main Plant Vendor-BHEL (EPC)** | **Original/ Anticipated Trial RunUNIT-01** | Jun'2018 /Feb, 2022 |
| | | | **Original/ Anticipated Trial RunUNIT-02** | Dec'2018 / Aug'2022 |
| | | | **Original/ Anticipated Trial RunUNIT-03** | Jun'2019 /Dec'2023 |
| **ADDRESS** : -NTPC North Karanpura, Tandwa, Sub division – Simaria, Distt–Chatra – Jharkhand-825321 | | | **E-GEN PORTAL:** REGISTRATION STATUS- NO | |

| **CLEARANCES AND STATIC DATA** | | **FINANCIAL DATA (in Crore)** | |
|---|---|---|---|
| **FUEL TYPE** | Ultra supercritical | **ORIGINAL ESTIMATED COST OF THE PROJECT** | 15389.42 |
| **COAL COMBUSTION TECHNOLOGY** | 41671 | **LATEST ESTIMATED COST** | Not Applicable |
| **APPROVAL DATE/NOTICE TO** | BTG (EPC) - BHEL - 28.02.14 | **DATE OF FINANCIAL CLOSURE** | 28.01.2014 |
| **ZERO DATE:** | BTG (EPC) - BHEL - 28.02.14 | **EXP. DURING 2010-11** | 8.17 |
| **PPA** | Jharkhand: 500; Odisha: 396; Bihar: 688; WB: 99; Unallocated: 297. All in MW. | **EXP. DURING 2011-12** | 4.88 |
| **COAL LINKAGE/FSA** | Letter of Assurance dtd. 24.03.2015 from CCL, securing 7.039 MMTPA coal (G7-G11) for 03 Units. FSA to be signed after commissioning in terms of para 1A(i)of SHAKTI-2017 policy. | **EXP. DURING 2012-13** | 5.75 |
| **START UP POWER AGREEMENT** | Through ATS - 400 KV NK Chandwa line. Line is under construction. Agreement yet to be done. | **EXP. DURING 2013-14** | 1,362.18 |
| **POWER EVACUATION SYSTEM** | 2 No D/C lines to Chandwa (jharkhand pool) and Gaya | **EXP. DURING 2014-15** | 527.92 |
| **LAND POSSESSION** | Required - 2364 Acres. Under Possession - 2002 Acres. | **EXP. DURING 2015-16** | 615.73 |
| **WATER ALLOCATION** | 20 Cusec from Garhi River - Raw water drawl agreement signed with DVC on 18.09.2020. | **EXP. DURING 2016-17** | 2199.92 |
| **MOEF CLEARANCE** | 29.11.2004 | **EXP. DURING 2017-18** | 2044.46 |
| **CIVIL AVIATION CLEARANCE** | 13.02.2009 | **EXP. DURING 2018-19** | 1747.91 |
| **CPCB CLEARANCE** | Not Applicable | **EXP. DURING 2019-20** | 1762.62 |
| **SPCB CLEARANCE** | Available. 31.12.01 for Bihar. 11.12.14 for Jharkhand | **EXP. DURING 2020-21** | 1243.28 |
| **FOREST CLEARANCE** | 03.11.2015 | **EXP. OF Jul '21** | 168.00 |
| | | **TOTAL EXPENDITURE (31.07.2021)** | 12027.00 |

## UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED )

| Sl. | MILESTONE | UNIT-01 | | UNIT-02 | | UNIT-03 | |
|---|---|---|---|---|---|---|---|
| | | Original Date of Completion | Actual/Anticipated Date of Completion | Original Date of Completion | Actual/Anticipated Date of Completion | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | Complete | | | | | |
| 2 | START OF BOILER ERECTION | Aug'2015 | Apr'2016(A) | Feb'2016 | Jul'2016(A) | Aug'2016 | Jun'2017(A) |
| 3 | BOILER DRUM LIFTING | N/A | | | | | |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | Complete | | | | | |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | Jan'2017 | Dec'2018(A) | Jul'2017 | Oct'2019(A) | Jan'2018 | Jan'2023 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | - | Jan'2019(A) | - | Oct'2019(A) | - | Jan'2023 |
| 7 | BOILER LIGHT UP | Aug'2017 | Dec'2020(A) | Feb'2018 | Mar'2022 | Aug'2018 | Jul'2023 |
| 8 | CHEMICAL CLEANING | | | | | | |
| 9 | STEAM BLOWING START | | | | | | |
| 10 | STEAM BLOWING COMPLETION | Oct'2017 | Feb'2021(A) | Apr'18 | May'2022 | Oct'2018 | Sept'2022 |
| 11 | HP PIPING ERECTION START | | | | | | |
| 12 | HP PIPING ERECTION | | | | | | |
| 13 | CONDENSER ERECTION START | May'2016 | Nov 2018(A) | Nov'2016 | Jan'2020(A) | May'2017 | Sep'2021 |
| 14 | TG ERECTION START | Jul'16 | Nov'2017(A) | Jan'2017 | Jan'2018(A) | Jul'2017 | Oct'2021 |
| 15 | TG BOX UP | Jun'2017 | Aug'2019(A) | Dec'2017 | Nov' 2021 | Jun'2018 | Dec'2022 |
| 16 | START OF OIL FLUSHING | | | | | | |
| 17 | ROLLING & SYNC. | Dec'2017 | Dec'2021 | Jun'2018 | Jun'2022 | Dec'2018 | Oct'2023 |
| 18 | FULL LOAD | Feb'2018 | Jan'2022 | Aug'2018 | Jul'2022 | Feb'2019 | Nov'2023 |
| 19 | TRIAL RUN | Jun'2018 | Feb 2022 | Dec'2018 | Aug'2022 | Jun'2019 | Dec'2023 |
| 20 | COD | | | | | | |
| 21 | PG TEST START AND COMPLETION | | | | | | |

## MAIN PLANT PACKAGE (BTG VENDOR):

| Sl. | Packages | AREA | UNIT-01 (Percentage Completion) | UNIT-02 (Percentage Completion) | UNIT-03 (Percentage Completion) |
|---|---|---|---|---|---|
| 1 | BOILER | CIVIL<br>STRUCTURE<br>PRESSURE PARTS | 97%<br>90%<br>99% | 89%<br>86%<br>99% | 78%<br>95%<br>33% |
| 2 | TG | CIVIL<br>STRUCTURE<br>PRESSURE PARTS | 96%<br>99%<br>NA | 92%<br>99%<br>NA | 90%<br>84%<br>NA |
| 3 | ESP | UNDER PROGRESS | 94% | 90% | 53% |
| 4 | FGD | CIVIL WORK<br>MATERIAL SUPPLY<br>ERECTION WORKS | 17%<br>28% | 5% | 4% |

## STATUS OF BOPs

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency (EPC-BHEL) | UNIT-01 (Percentage Completion) | UNIT-02 (Percentage Completion) | UNIT-03 (Percentage Completion) |
|---|---|---|---|---|---|
| 1 | Chimney | M/s BHEL | 99% | 70% | 80% |
| 2 | Coal Handling Plant | M/s BHEL (Conveyor package) | 62% ERECTION,20% EQUIPMENT | | |
| | | M/s BHEL (Wagon Tripler | NA | | |
| | | M/s BHEL (Stacker Reclaimer) | 45% | | |
| 3 | Ash Handling Plant | M/s BHEL | 51% | | |
| 4 | Fuel Oil System | M/s BHEL | 100% | | |
| 5 | Cooling Towers | M/s BHEL | 90% | | |
| 6 | CW Pump house & Piping | M/s BHEL | NA | | |
| 7 | PT Plant | M/s BHEL | 75% | | |
| 8 | DM Plant | M/s BHEL | 100% | | |
| 9 | Air Compressor | M/s BHEL | 100% | | |
| 10 | Fire Protection System | M/s BHEL | 100% | | |
| 11 | Switch Yard | BHEL-TBG/<br>Arun Construction<br>Technico India Pvt. Ltd. | 95% | | |
| 12 | Station Transformers | M/s BHEL | 95% | | |
| 13 | Unit Transformers | M/s BHEL | 10% | | |
| 14 | Railway siding | Main vendor/ subcontractor | NA | | |
| 15 | Power Evacuation | Awarded on TBCB to NKTL | IN PROGRESS | | |

**REASONS OF DELAY**:

1. Main plant layout was changed to avoid GM land which Govt. was not in position to handover due to encroachments. 2. Delay in Award of Critical Packages by BHEL. Air Cooled Condenser (ACC) Mechanical Package awarded in Mar'17 with a delay of 31months; ACC civil package was awarded in May'17 with a delay of 27 months. 3. Delay due to slow work progress by EPC agency (M/s BHEL). 4. Delay in acquisition of land. Approx. 131 acres of land is still balance for physical possession for Reservoir and Ash Dyke. It may further delay the commissioning of the project (another 101 Acre land is under litigation in Hon'ble HC, Ranchi). 5. Additionally, 61 acres of Land is required for external CHP, under acquisition thru' CCL. 6 Agitation by villagers for demand of additional compensation against already acquired land (about 2200 Acres). Project Work was completely stopped by the agitators, for about 40 days during Feb-March'2021.

**CRITICAL AREAS:**

1. Works of EPC package (BHEL) needs to be expedited. (ACC most critical). 2. Support of MoP is requested for expeditious construction of ATS/Start up Power line for NKSTPP and early resolution of inter-ministerial issues. 3. Forest Clearance in ATS –NK Chandwa line to be expedited. 4.Support of State Govt. of Jharkhand is required for following: a). Acquisition / transfer/ possession of balance 131 Acres land for Ash Dyke and Reservoir b). Providing administrative support during execution, on GM land, where claims of land encroachers has been rejected recently. c) Expediting Forest clearance for land under Acquisition o by CCL for external CHP. d). Early completion of Road Widening and strengthening of SH-7 from Hazaribagh to Bijupara. It is being done on deposit basis by SHAJ/RCD. The road diversion in project area needs to be completed on priority. e) Refund on un-utilized funds, out of Rs.225 crores deposited by NTPC, for erstwhile Grahi Dam project.

# DARLIPALLI THERMAL POWER STATION (2X800 MW)

**As on 31.07.2021**

**CENTRAL SECTOR**

| **Developer** NTPC | **Zero Date:** FEB 2014 | **Main Plant Vendor-** M/s BHEL,M/s L&T, Toshiba JSW JV | **Original/Actual COD UNIT-01** | Aug'2018/01.03.2020 |
|---|---|---|---|---|
| | | | **Original/ Actual Trial Run UNIT-02** | Aug'2018/21.07.2021(A) |
| **ADDRESS** : - NTPC Darlipalli, Darlipali Ujalpur Road, Mahikani, Odisha 770072 | | | **E-GEN PORTAL:** REGISTRATION STATUS- NO | |

| **CLEARANCES AND STATIC DATA** | | **FINANCIAL DATA (in Crore)** | |
|---|---|---|---|
| **FUEL TYPE** | Coal | **ORIGINAL ESTIMATED COST OF THE PROJECT** | 13140.91 |
| **COAL COMBUSTION TECHNOLOGY** | Supercritical | **LATESTESTIMATED COST** | Not Applicable |
| **APPROVAL DATE/NOTICE TO PROCEED (NTP)** | 01-Feb-14 | **DATE OF FINANCIAL CLOSURE** | 16.01.2014 |
| **ZERO DATE:** | SG - BHEL - Feb-14, TG - Toshiba JSW JV - Feb-14 | **EXP. DURING 2010-11** | 0.89 |
| **PPA** | Odisha– 800, West Bengal – 249.50, Bihar – 161.20, Jharkhand – 125.48, Sikkim – 23.81 and Unallocated: 240. All in MW. | **EXP. DURING 2011-12** | 33.49 |
| **COAL LINKAGE/FSA** | Linked with Dulanga Captive coal mine (PRC - 7 MMTPA); Bridge Linkage against the linked captive mine from MCL & SECL, valid upto March 2022 (FY 21-22 Qty: MCL 0.104 MMT, SECL-0.03 MMT) | **EXP. DURING 2012-13** | 290.24 |
| **START UP POWER AGREEMENT** | Done with PGCIL on 28.10.2016 through Darlipali-Sundargarh 765KV D/C line | **EXP. DURING 2013-14** | 622.7 |
| **POWEREVACUATION SYSTEM** | Darlipali STPP-Sundargarh pool 765kV D/C Line | **EXP. DURING 2014-15** | 461.1 |
| **LAND POSSESSION** | Required - 2000 Acres, Under Possession - 2000 Acres | **EXP. DURING 2015-16** | 1691.4 |
| **WATERALLOCATION** | 55 Cusec from Hirakud Reservoir in Mahanadi river | **EXP. DURING 2016-17** | 2335.17 |
| **MOEF CLEARANCE** | 17.02.2014 Valid upto 17.02.2022 | **EXP. DURING 2017-18** | 2065.12 |
| **CIVIL AVIATION CLEARANCE** | 28.12.2011 | **EXP. DURING 2018-19** | 1598.28 |
| **CPCB CLEARANCE** | Not Applicable | **EXP. DURING 2019-20** | 1824.56 |
| **SPCB CLEARANCE** | 28.02.2014 | **EXP. DURING 2020-21** | 775.27 |
| **FOREST CLEARANCE** | 13.10.2014 | **EXP. OF Jul'21** | 99.00 |
| | | **TOTAL EXPENDITURE (UPTO 31.07.21 )** | 12085.00 |

| UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED ) | | | |
|---|---|---|---|
| Sl. | MILESTONE | UNIT-02 | |
| | | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | COMPLETED | |
| 2 | START OF BOILER ERECTION | Oct'2015 | Jul'2015(A) |
| 3 | BOILER DRUM LIFTING | NA | |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | COMPLETED | |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | - | - |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | Apr'2017 | Mar'2018(A) |
| 7 | BOILER LIGHT UP | Jan'2018 | Oct'2019(A) |
| 8 | CHEMICAL CLEANING | | |
| 9 | STEAM BLOWING START | | |
| 10 | STEAM BLOWING COMPLETION | Apr'2018 | Jan'2021(A) |
| 11 | HP PIPING ERECTION START | | |
| 12 | HP PIPING ERECTION COMPLETION | | |
| 13 | CONDENSER ERECTION START | Sep'2016 | Sep'2016(A) |
| 14 | TG ERECTION START | Dec'2016 | Mar'2017(A) |
| 15 | TG BOX UP | Nov'2017 | Feb'2019(A) |
| 16 | START OF OIL FLUSHING | | |
| 17 | ROLLING & SYNC. | Jun'2018 | Mar'2021(A) |
| 18 | FULL LOAD | Aug'2018 | 24.05.2021 (A) |
| 19 | TRIAL RUN | Aug'2018 | 21.07.2021 (A) |
| 20 | COD | | |
| 21 | PG TEST START AND COMPLETION | | |

| MAIN PLANT PACKAGE (BTG VENDOR): | | | | |
|---|---|---|---|---|
| Sl. | Packages | UNIT | % Completion | |
| 1 | BOILER | UNIT-02 | 100% | |
| 2 | TG | UNIT-02 | 100% | |
| 3 | ESP | UNIT-02 | 100% | |
| 4 | FGD UNIT-01&02 | CIVIL WORK<br>MATERIAL SUPPLY<br>ERECTION WORK | 35%<br>75%<br>18% | 50%<br>75%<br>15% |

## STATUS OF BOPs

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency | % Completion |
|---|---|---|---|
| 1 | Chimney | L&T | 100% |
| 2 | Coal Handling Plant | TPL | 100% |
| | | | 100% |
| | | | 100% |
| 3 | Ash Handling Plant | Indure | 100% |
| 4 | Fuel Oil System | BHEL | 100% |
| 5 | Cooling Towers | L&T<br>Sunil Hitech | 100% |
| 6 | CW Pump house & Piping | | 100% |
| 7 | PT Plant | Triveni | 100% |
| 8 | DM Plant | Triveni | 100% |
| 9 | Air Compressor | BHEL | 100% |
| 10 | Fire Protection System | Consilium | 100% |
| 11 | Switch Yard | GE | 100% |
| 12 | Station Transformers | CGL | 100% |
| 13 | Unit Transformers | CGL | 100% |
| 14 | Railway siding | IRCON | 30% |
| 15 | Power Evacuation | GE | 100% |

**REASONS OF DELAY** :

- Delay in acquisition of land for Railway Siding/MGR and ROU for MUW line. Last patch of 14.25 acres land received in Mar'21.

Transmission line of Make up water pump house could not be completed due to ROW issues. 122/335 foundations could only be completed as villagers are not accepting compensation decided by Distt. Administration.

- Slow progress in civil works CW & MUW System (Sunil Hitech). Agency under NCLT.
- Delay in readiness of AHP System (M/s Indure).
- Slow progress in SG package by M/s BHEL.
- Delay due to ongoing COVID-19 pandemic since Mar'20. Non-availability of Industrial oxygen during second wave.

# TELANGANA THERMAL POWER PROJECT (2X800 MW,Stage-I)

**As on 31.07.2021**

**CENTRAL SECTOR**

| **Developer-** NTPC | **Zero Date:** 05.02.2016 | **Main Plant Vendor-**M/S BHEL & M/s GE | **Original/ Anticipated Trial Run UNIT-01** | May'2020/Mar'2022 |
|---|---|---|---|---|
| | | | **Original/ Anticipated Trial Run UNIT-02** | Nov'2020/Jul'2022 |
| **ADDRESS** : - NTPC Telangana, PO Ramagundam (Sub Office), Karim Nagar, Telangana:- 505208 | | | **E-GEN PORTAL:** REGISTRATION STATUS- NO | |

| **CLEARANCES AND STATIC DATA** | | **FINANCIAL DATA (in Crore)** | |
|---|---|---|---|
| **FUEL TYPE** | Coal | **ORIGINAL ESTIMATED COST OF THE PROJECT** | 10997.7 |
| **COAL COMBUSTION TECHNOLOGY** | Ultra-supercritical | **LATEST ESTIMATED COST** | Not Applicable |
| **APPROVAL DATE/NOTICE TO PROCEED (NTP)** | Jan-16 | **DATE OF FINANCIAL CLOSURE** | 29.01.2016 |
| **ZERO DATE:** | SG Island - BHEL - 05.02.16; TG Island - GE - 05.02.16 | **EXP. DURING 2015-16** | 6.34 |
| **PPA** | 1360 MW power has been allocated to Telangana. Balance 240 MW is unallocated. | **EXP. DURING 2016-17** | 798.21 |
| **COAL LINKAGE/FSA** | Linked with Mandakini-B captive coal mine (PRC-20 MMTPA); however, NTPC has approached MOC on 26.12.2020 for surrendering the coal mine. Tapering linkage against the linked coal mine was initially allocated from WCL cost-plus. In July'2020, the linkage has been shifted to SCCL. Coal quantity quanitified by the Coal Controller is 6.846 MMTPA. | **EXP. DURING 2017-18** | 1062.65 |
| **START UP POWER AGREEMENT** | Start up Power has been granted for Telangana STPP by SRLDC on 26-6-20 through RSTPS-TeSTPP 400KV DC line | **EXP. DURING 2018-19** | 2535.67 |
| **POWER EVACUATION SYSTEM** | 400kVD/C line to Nedunuru and Narsapur . | **EXP. DURING 2019-20** | 2599.45 |
| **LAND POSSESSION** | Being accomodated within land in possession of NTPC Ramagundam project. No new land acquired for the project. | **EXP. DURING 2020-21** | 1308.35 |
| **WATER ALLOCATION** | 60 cusecs from Yellampally Barrage on Godavari river | **EXP. OF Jul'21** | 105.00 |
| **MOEF CLEARANCE** | 20.01.2016, Valid upto 19.01.2024 | **TOTAL EXPENDITURE (UPTO 31.07.2021 )** | **8681.00** |
| **CIVIL AVIATION CLEARANCE** | 29.03.2011 | | |
| **CPCB CLEARANCE** | Not Applicable | | |
| **SPCB CLEARANCE** | Extension for Stg-1 approved by TSPCB up to 19-01-23 | | |
| **FOREST CLEARANCE** | Not Applicable | | |

| UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED ) | | | | | |
|---|---|---|---|---|---|
| Sl. | MILESTONE | UNIT-01 | | UNIT-02 | |
| | | Original Date of Completion | Actual/Anticipated Date of Completion | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | Completed | | | |
| 2 | START OF BOILER ERECTION | Mar'2017 | Dec'2017(A) | Sep'2017 | Decc'2017(A) |
| 3 | BOILER DRUM LIFTING | Not Applicable | | | |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | Completed | | | |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | Nov'2018 | Aug'2021 | May'2019 | Oct'2021 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | - | Sept'2021 | - | Dec'2021 |
| 7 | BOILER LIGHT UP | Jun'2019 | Oct'2021 | Dec'2019 | Feb'2022 |
| 8 | CHEMICAL CLEANING | | | | |
| 9 | STEAM BLOWING START | - | Nov'2021 | - | Mar'2022 |
| 10 | STEAM BLOWING COMPLETION | Sep'2019 | Jan'2022 | Mar'2020 | Apr'2022 |
| 11 | HP PIPING ERECTION START | | | | |
| 12 | HP PIPING ERECTION COMPLETION | | | | |
| 13 | CONDENSER ERECTION START | Feb'2018 | Jul'2018 | Aug'2018 | Feb 2019(A) |
| 14 | TG ERECTION START | May'2018 | Aug'2018 | Nov'2018 | Mar'2019(A) |
| 15 | TG BOX UP | Apr'2019 | Sep'2019(A) | Oct'2018 | May'2020(A) |
| 16 | START OF OIL FLUSHING | Completed | | - | Aug'21 |
| 17 | ROLLING & SYNC. | Nov'2019 | Feb'2022 | May'2020 | May'2022 |
| 18 | FULL LOAD | Jan'2020 | Mar'2022 | Jul'2020 | Jul'2022 |
| 19 | TRIAL RUN | May'2020 | Mar'2022 | Nov'2020 | Jul'2022 |
| 20 | COD | | | | |
| 21 | PG TEST START AND COMPLETION | | | | |

| MAIN PLANT PACKAGE (BTG VENDOR): | | | | |
|---|---|---|---|---|
| Sl. | Packages | AREA | UNIT-01 (Percentage Completion) | UNIT-02 (Percentage Completion) |
| 1 | BOILER | CIVIL<br>STRUCTURE<br>PRESSURE PARTS | 85%<br>70%<br>61% | 85%<br>65%<br>52% |
| 2 | TG | CIVIL<br>STRUCTURE TG<br>Erection Work | 97%<br>99%<br>99% | 98%<br>99%<br>99% |
| 3 | ESP | UNDER PROGRESS | 92% | 91% |
| 4 | FGD | CIVILWORK<br>MATERIAL SUPPLY<br>ERECTION WORK | 92%<br>100%<br>77% | 91%<br>100%<br>55% |

## STATUS OF BOPs

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency (EPC-BHEL) | UNIT-01 (Percentage Completion) | UNIT-02 (Percentage Completion) |
|---|---|---|---|---|
| 1 | Chimney | BHEL | 63% | |
| 2 | Coal Handling Plant | TATA Projects | 60% | |
| 3 | Ash Handling Plant | BHEL | 62% | |
| 4 | Fuel Oil System | TATA Projects | 97% | |
| 5 | Cooling Towers | TATA Projects | 71% | |
| 6 | CW Pump house & Piping | TATA Projects | 95% | |
| 7 | PT Plant | TATA Projects | 92% | |
| 8 | DM Plant | TATA Projects | | |
| 9 | Air Compressor | TATA Projects | | |
| 10 | Fire Protection System | TATA Projects | 72% | |
| 11 | Switch Yard | TATA Projects | 99% | |
| 12 | Station Transformers | TATA Projects | 78% | |
| 13 | Unit Transformers | TATA Projects | 80% | |
| 14 | Railway siding | TATA Projects | 30% | |
| 15 | Power Evacuation | Being done by Telangana Transco | 90% | |

**REASONS OF DELAY**:

- Delay in Boiler design due to new De-Nox & De-Sox norms (New Env. norms came after opening of Price Bid and were incorporated in the contract). Accordingly, there was delay in Completion of Basic Engg. and Supply of Boiler / TG structures.
- Slow progress by BHEL sub-agency M/s B&R.
- Delay in Sand supply / Procurement at site (Due to restrictions by State Government of Telangana).
- Delay due to ongoing COVID-19 pandemic since Mar'20. Non-availability of Industrial oxygen during second wave.

**CRITICAL AREAS:**

1. Boiler drainable joints to be completed for Boiler HT in Unit#1 by Jun'21. Slow progress of sub-agencies is delaying Boiler readiness.
2. CHP, LHP and GHP readiness is critical.

# PATRATU TPS (3X800 MW)

**As on 31.07.2021**

**CENTRAL SECTOR**

| **Developer-** PVUNL (JV of NTPC & Govt. of Jharkhand) | **Zero Date:** Mar'18 | **Main Plant Vendor-**M/S BHEL (EPC-08.03.18) | **Original/ Anticipated Trial Run UNIT-01** | Jan'22/August'23 |
|---|---|---|---|---|
| | | | **Original/ Anticipated Trial RunUNIT-02** | July'22/Feb'24 |
| | | | **Original/ Anticipated Trial RunUNIT-03** | Jan'23/August'24 |
| **ADDRESS** : - Patratu Vidyut Utpadan Nigam Limited, Patratu, PO: PTPS, Patratu, Distt. Ramgarh, Jharkhand , PIN - 829119 | | | **E-GEN PORTAL:** REGISTRATION STATUS- NO | |

| **CLEARANCES AND STATIC DATA** | | **FINANCIAL DATA (in Crore)** | |
|---|---|---|---|
| **FUEL TYPE** | Coal | **ORIGINAL ESTIMATED COST OF THE PROJECT** | Rs 18668 Crs including IDC, FC & WCM |
| **COAL COMBUSTION TECHNOLOGY** | Ultra Supercritical | **LATEST ESTIMATED COST** | Not Applicable |
| **APPROVAL DATE/NOTICE TO PROCEED (NTP)** | Investment Approval accorded in 11th Board Meeting of PVUNL, dated 30.10.2017 subject to MOEF clearance. MOEF clearance letter received on 07.11.17. Zero date of the project is 07.11.17 as per investment approval accorded | **DATE OF FINANCIAL CLOSURE** | NP |
| **ZERO DATE:** | EPC package awarded to BHEL on 08.03.18. | **EXP. DURING 2015-16** | 4.69 |
| **PPA** | 85% allocated to Jharkhand, PPA signed on 30.03.16. 15% of power will remain as unallocated quota at the disposal of GoI | **EXP. DURING 2016-17** | 127.18 |
| **COAL LINKAGE/FSA** | 12 MTPA for Ph-I from Banhardih Coal Mine at a distance of about 110 km. Banhardi Coal Mine transferred to PVUNL vide deed of adherence signed on 02.06.17. Bridge linkage granted. Allocation date ,sources, grade and quantity .Grade of Coal - G-11/12 | **EXP. DURING 2017-18** | 944.23 |
| **START UP POWER AGREEMENT** | Through 7.5 kms Transmission line: Patratu-Patratu (Main Plant to Katia Substation) D/C Line | **EXP. DURING 2018-19** | 745.41 |
| **POWER EVACUATION SYSTEM** | Power evacuation voltage is envisaged at 400 kV through: Upcoming Patratu sub station (7.5 KM), Koderma Sub station (160 KM), New Chandil station (150 Km). One 400 KV ISTS also envisaged for connection with nearby ISTS substation at Ranchi/ Namkum (Jharkhand) | **EXP. DURING 2019-20** | 1391.99 |
| **LAND POSSESSION** | Total land identified for Ph-I is 1234 acres. 1199.03 acres land transferred to PVUNL by Govt of Jharkhand vide sankalp dt 08.09.17. 34.97 Acres of Private/Raiyati land lying in midst of Ash-dyke-II, the transfer is under process. | EXP. DURING 2020-21 | 1813.96 |
| **WATER ALLOCATION** | Project is envisaged with Air cooled Condenser Technology. In principle commitment for 27 cusecs water available from Nalkari Dam Reservoir vide agreement dt 25.01.2016 with GoJ. | EXP. OF Jul'21 | 299.63 |
| **MOEF CLEARANCE** | MOEF Clearance: EAC recommended for grant of EC for the project on EAC meeting held on 25.09.17. EC letter received on 07.11.17. Validity till 06.11.24. | **TOTAL EXPENDITURE (UPTO 31.07.21)** | 5342.55 |
| **CIVIL AVIATION CLEARANCE** | Civil Aviation Clearance: Received on 03.06.2016. | | |
| **CPCB CLEARANCE** | CPCB Clearance: Not Applicable | | |
| **SPCB CLEARANCE** | SPCB Clearance: CTE received on 19.10.2018. Validity till 06.11.24. | | |
| **FOREST CLEARANCE** | No forest land in main plant area. | | |

## UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED )

| Sl. | MILESTONE | UNIT-01 | | UNIT-02 | | UNIT-03 | |
|---|---|---|---|---|---|---|---|
| | | Original Date of Completion | Actual/Anticipated Date of Completion | Original Date of Completion | Actual/Anticipated Date of Completion | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | May'19 | 30.04.19 (A) | Nov'19 | 28.12.19 (A) | May'20 | 20.01.21 (A) |
| 2 | START OF BOILER ERECTION | May'19 | 27.08.19 (A) | Nov'19 | 30.12.19 (A) | May'20 | 22.01.21 (A) |
| 3 | BOILER DRUM LIFTING | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | Feb'20 | 25.03.21 (A) | Aug'20 | 30.05.21 (A) | Feb'21 | Sept'21 |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | Jan'21 | Apr'22 | July'21 | Aug'22 | Jan'22 | July'23 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | June'21 | Sept'22 | Dec'21 | Jan'23 | June'22 | Dec'23 |
| 7 | BOILER LIGHT UP | June'21 | Dec'22 | Dec'21 | June'23 | June'22 | Dec'23 |
| 8 | CHEMICAL CLEANING | July'21 | Dec'22 | Jan'22 | June'23 | July'22 | Dec'23 |
| 9 | STEAM BLOWING START | July'21 | Jan'23 | Jan'22 | July'23 | Aug'22 | Jan'24 |
| 10 | STEAM BLOWING COMPLETION | Sept'21 | Mar'23 | Mar'22 | Sept'23 | Oct'23 | Mar'24 |
| 11 | HP PIPING ERECTION START | July'20 | Jan'22 | Jan'21 | July'23 | Jan'23 | Jan'23 |
| 12 | HP PIPING ERECTION COMPLETION | May'21 | Oct'22 | Nov'21 | April'23 | Dec'23 | Oct'23 |
| 13 | CONDENSER ERECTION START | Feb'20 | ACC package still not awarded | Aug'20 | ACC package still not awarded | Feb'21 | ACC package still not awarded |
| 14 | TG ERECTION START | June'20 | Nov'21 | Dec'20 | May'22 | June'21 | Nov'22 |
| 15 | TG BOX UP | May'21 | Nov'22 | Nov'21 | May'23 | May'22 | Nov'23 |
| 16 | START OF OIL FLUSHING | July'21 | Dec'22 | Jan'22 | June'23 | July'22 | Dec'23 |
| 17 | ROLLING & SYNC. | Nov'21 | May'23 | May'22 | Nov'23 | Nov'22 | May'24 |
| 18 | FULL LOAD | Dec'21 | July'23 | June'22 | Jan'24 | Dec'22 | July'24 |
| 19 | TRIAL RUN | Jan'22 | August'23 | July'22 | Feb'24 | Jan'23 | August'24 |
| 20 | COD | March'22 | Sept'23 | Sept'22 | March'24 | March'23 | Sept'24 |
| 21 | PG TEST START AND COMPLETION | NP | NP | NP | NP | NP | NP |

## MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL (EPC-08.03.18)

| Sl. | Packages | AREA | UNIT-01 (Percentage Completion) | UNIT-02 (Percentage Completion ) | UNIT-03 (Percentage Completion) |
|---|---|---|---|---|---|
| 1 | BOILER | CIVIL STRUCTURE PRESSURE PARTS | 79% Civil RCC works completed. | 76% Civil RCCworks completed. | 56% Civil RCC works completed |
| 2 | TG | CIVIL STRUCTURE PRESSURE PARTS | 54% Civil RCC works completed | 62% Civil RCCworks completed | 38% Civil RCC works completed |
| 3 | ESP | UNDER PROGRESS | 19.2% | 36% | 9% |
| 4 | FGD | | 59% RCC work completed | Yet to start | Yet to start |

## STATUS OF BOPs (BHEL-EPC)

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency (EPC-BHEL) | UNIT-01 (Percentage Completion) | UNIT-02 (Percentage Completion ) | UNIT-03 (Percentage Completion) |
|---|---|---|---|---|---|
| 1 | Chimney | PSWR | 96% | 61% | 35% |
| 2 | Coal Handling Plant | PS WR | 22% | | |
| 3 | Ash Handling Plant | PSWR | 33% | | |
| 4 | Fuel Oil System | | 18% civil works | | |
| 5 | Cooling Towers | ACC is envisaged. ACC Package yet tobe awarded by BHEL. | NOT APPLICABLE | | |
| 6 | CW Pump house & Piping | ACC is envisaged. ACC Package yet tobe awarded by BHEL. | | | |
| 7 | PT Plant | PSWR | 4% civil works | | |
| 8 | DM Plant | PSWR | 10% | | |
| 9 | Air Compressor | PSWR | NP | NP | NP |
| 10 | Fire Protection System | PESD, Hyderabad | 5% civil works | | |
| 11 | Switch Yard | TBG | 60% | | |
| 12 | Station Transformers | Bhopal | Work yet to start | | |
| 13 | Unit Transformers | Jhansi | Work yet to start | | |
| 14 | Railway siding | PMC Contractor- M/s RITES | NIL | NIL | NIL |
| 15 | Power Evacuation | To be constructed byJUSNL after approval from GoJ, | Work yet to start | | |

**REASONS OF DELAY**:

1. Poor performance of few sub-agencies.

**CRITICAL AREA/ ASSSISTANCE REQUIRED:**

1. Delay in award of Air Cooler Condenser (ACC) Mech Pkg by BHEL
2. Re-award of Ash Handling Package: BHEL has terminated the Ash Handling Package earlier awarded to M/s L&T. Retender NIT done on 23.01.21.
3. Award of Start-up power line and balance 02 STU lines by GoJ:

# ROURKELA TPP-II EXPANSION (1X 250 MW)

**As on 31.07.2021**

**CENTRAL SECTOR**

| **Developer-** NSPCL (JVof NTPC & SAIL) | **Zero Date:11.5.2016** | **Main Plant Vendor-**M/S BHEL (BTG) | **Original/ Anticipated TrialRun UNIT-01** | Oct'2018/ Oct' 2021 |
|---|---|---|---|---|
| **ADDRESS** : - Rourkela, Dist: Sundargarh, Pin: 769011, Odisha | | | **E-GEN PORTAL:** REGISTRATION STATUS- YES, Reg No: U-01:N18000276 | |
| **CLEARANCES AND STATIC DATA** | | | **FINANCIAL DATA (in Crore)** | |
| **FUEL TYPE** | | Coal | **ORIGINAL ESTIMATED COST OF THE PROJECT** | 1885.13 |
| **COAL COMBUSTION TECHNOLOGY** | | Subcritical | **LATEST ESTIMATED COST** | 1885.13 |
| **APPROVAL DATE/NOTICE TO PROCEED (NTP)** | | 11.05.16 | **DATE OF FINANCIAL CLOSURE** | |
| **ZERO DATE:** | | 11.05.16<br>EPC agency - M/s BHEL | **EXP. DURING 2016-17** | 237.51 |
| **PPA** | | 100% power to be given to SAIL. PPA signed on 09.05.16 | **EXP. DURING 2017-18** | 515.81 |
| **COAL LINKAGE/FSA** | | Supply of 1.42 MTPA coal confirmed by SAIL from their Ramnagore Colliery on 29.08.13 and on 14.01.15 advised blending of MCL coal of CPP-II with Ramnagore coal in 50:50 ratio to improve coal quality. | **EXP. DURING 2018-19** | 448.96 |
| **START UP POWER AGREEMENT** | | Startup power to be taken from 220 KV Power evacuation route. | **EXP. DURING 2019-20** | 354.67 |
| **POWER EVACUATION SYSTEM** | | Evacuation at 220 KV level. Work up to switchyard in scope of EPC agency (M/s BHEL). Evacuation work after switchyard done by beneficiary (RSP, SAIL) | **EXP. DURING 2020-21** | 249.47 |
| **LAND POSSESSION** | | •80 acres required for main plant is within existing premises of NSPCL.<br>• Dyke 'D' (140 acres) proposed to be used for expansion also. | **EXP. OF Jul'21** | 57.34 |
| **WATER ALLOCATION** | | 8 cusec (reduced from 10 cusec, approved on 03.09.13) - Tarkera intake point / Brahamani on 07.06.17 - agreement signed on 24.03.18. | | |
| **MOEF CLEARANCE** | | 30.05.15 | **TOTAL EXPENDITURE (UPTO 31.07.21 )** | 1884.73 |
| **CIVIL AVIATION CLEARANCE** | | 04.04.13 | | |
| **CPCB CLEARANCE** | | TOR approved (15.3.11) Public hearing done (16.1.13) | | |
| **SPCB CLEARANCE** | | - | | |

| UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED ) | | | |
|---|---|---|---|
| Sl. | MILESTONE | UNIT-01 | |
| | | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | NP | 30.05.2017 |
| 2 | START OF BOILER ERECTION | 10.02.2017 | 30.03.2017 |
| 3 | BOILER DRUM LIFTING | 08.06.2017 | 04.11.2017 |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | 19.05.2017 | NP |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | 08.01.2018 | 08.09.2018 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | NP | 17.11.2020 |
| 7 | BOILER LIGHT UP | 10.04.2018 | 19.11.2020 |
| 8 | CHEMICAL CLEANING COMPLETION | 26.04.2018 | 17.01.2021 |
| 9 | STEAM BLOWING START | NP | 12.04.2021 |
| 10 | STEAM BLOWING COMPLETION | 10.06.2018 | 20.04.2021 |
| 11 | HP PIPING ERECTION START | 10.09.2017 | 14.11.2017 |
| 12 | HP PIPING ERECTION COMPLETION | 10.04.2018 | 09.04.2021 |
| 13 | CONDENSER ERECTION START | 10.07.2017 | 28.12.2017 |
| 14 | TG ERECTION START | 10.09.2017 | 27.11.2018 |
| 15 | TG BOX UP | 10.05.2018 | 26.03.2021 |
| 16 | START OF OIL FLUSHING | 16.05.2018 | 19.01.2021 |
| 17 | ROLLING & SYNC. | 10.08.2018 | 04.09.2021 |
| 18 | FULL LOAD | 10.09.2018 | October, 2021 |
| 19 | TRIAL RUN | 10.10.2018 | October, 2021 |
| 20 | COD | 10.11.2018 | December, 2021 |
| 21 | PG TEST START AND COMPLETION | NA | January 2022 |

| MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL () | | | |
|---|---|---|---|
| Sl. | Packages | UNIT-01 | % Completion |
| 1 | BOILER | Civil works<br>Structural works | 99.81%<br>94.23% |
| 2 | TG | Civil works<br>Structural works | 99.16%<br>98.45% |
| 3 | ESP | Pass status | 100% |
| 4 | FGD | Contract being retendered | |

## STATUS OF BOPs (BHEL-EPC)

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency | % Completion |
|---|---|---|---|
| 1 | Chimney | Bygging India | 99% |
| 2 | Coal Handling Plant | OSM, RVPR, Sriram Enterprises, Vadim Infrastructure Pvt. Ltd. And S C Verghese(TPS & Conveyors) | 90% |
| | | McNally Bharat &Sayagi, Sriram Enterprises, Vadim Infrastructure Pvt. Ltd. And S C Verghese(Wagon Tippler) | 55% |
| | | McNally Bharat &Sayagi, Sriram Enterprises, Vadim Infrastructure Pvt. Ltd. And S C Verghese(Stacker/Reclaimer) | 90% |
| 3 | Ash Handling Plant | M/s S N Singh | 65% |
| 4 | Fuel Oil System | BHEL, PSER and Trichy/B & R Co. (I) Ltd. | 100% |
| 5 | Cooling Towers | Hammon (I), Powertronix & Nuvotronix | 98% |
| 6 | CW Pump house & Piping | Golden Age, Powertronix & Nuvotronix | 97% |
| 7 | PT Plant | Ion Exchange, Powertronix & Nuvotronix | 60% |
| 8 | DM Plant | Ion Exchange, Powertronix & Nuvotronix | 95% |
| 9 | Air Compressor | Elgi, Powertronix & Nuvotronix | 98% |
| 10 | Fire Protection System | Powertronix & Nuvotronix | 60% |
| 11 | Switch Yard | DAKESWARI ENTERPRISES&S.N.SINGH. | 100% |
| 12 | Station Transformers | POWERTRONICS | 100% |
| 13 | Unit Transformers | POWERTRONICS | 90% |
| 14 | Railway siding | Laxmi Enterprises | 40% |
| 15 | Power Evacuation | RSP | 100% |

**REASONS OF DELAY** :

1. Delay in award of work, less manpower deployment, engineering delay for SCR in absence of design parameters from Vendor and COVID-19 pandemic.
2:Delay in award of civil work, deployment of less manpower by the executing agency, delay in shifting on one bay of existing switchyard for 220 KV Line opposite i.e. East side of existing switchyard and COVID-19 Pandemic.

**CRITICAL AREA/ ASSSISTANCE REQUIRED**:

Ash Dykes –D & E areas are yet to be physically handed over by RSP.

# GHATAMPUR THERMAL POWER PROJECT (3 X 660 MW)

**As on 31.07.2021**

**CENTRAL SECTOR**

| | | | | |
|---|---|---|---|---|
| **Developer-** NUPPL( JV of NLC and UPRVUNL) | **Zero Date:** Aug'2016 | **Main Plant Vendor-**M/s L&T & M/s GE (BTG) | **Original/ Anticipated Trial Run UNIT-01** | 29.05.2020 / Oct'2021 |
| | | | **Original/ Anticipated Trial RunUNIT-02** | 27.11.2020/ Mar' 2022 |
| | | | **Original/ Anticipated Trial RunUNIT-03** | 29.05.2021 / July'2022 |
| **ADDRESS** : -NEAR VILLAGE LAHURIMAU-KASIMPUR, GHATAMPUR TEHSIL, P.O.: SAMUHI-209206, KANPUR NAGAR DISTRICT, UTTAR PRADESH | | | **E-GEN PORTAL:** REGISTRATION STATUS- NO | |

| **CLEARANCES AND STATIC DATA** | | **FINANCIAL DATA (in Crore)** | |
|---|---|---|---|
| **FUEL TYPE** | Coal | **ORIGINAL ESTIMATED COST OF THE PROJECT** | 17237.8 |
| **COAL COMBUSTION TECHNOLOGY** | Supercritical | **LATEST ESTIMATED COST** | As on date project sanctioned cost is not revised. |
| **APPROVAL DATE/NOTICE TO PROCEED (NTP)** | GoI Sanction - 27.07.2016 | **DATE OF FINANCIAL CLOSURE** | Rs. 1000 crore pending and balance of Rs 11067 Crore tied up with PFC and REC in 2018 |
| **ZERO DATE:** | EPC Contractor Details:<br>1. Steam Generator Package (GA1)- L&T- MHI Power Boilers Pvt. Ltd/ LoA Date-02-08-2016<br>2. Steam Turbine Generator Package (GA2)- GE Power Systems India Pvt. Ltd /LoA Date- 02-08-2016<br>3. BoP Package (GA3)- BGR Energy Systems Ltd / LoA Date-21-11-2016 | **EXP. DURING 2016-17** | 927.76 |
| **PPA** | 75% PPA Signed with Uttar Pradesh Power Corporation Ltd.(UPPCL). Signing of balance 25% PPA is balance. | **EXP. DURING 2017-18** | 1,228.45 |
| **COAL LINKAGE/FSA** | Allocation Date- 03.10.2016.<br>Allocated Mine (Source) - Pachwara South Coal Block<br>Grade - G10<br>Quantity- Net Geological Reserve 373.52 MT.Extractable reserve - 262.84MT<br>Pachwara South Coal Block will be fully funtional by the end of Financial Year 2026-27 and will be able to meet thecoal requirement of NUPPL. Hence, NUPPL is seeking coal under bridge linkage by the time Pachwara South Coal Block will be fully funtional. | **EXP. DURING 2018-19** | 3,517.83 |
| **START UP POWER AGREEMENT** | There are four incoming lines for 132KV Start-up power.<br>Four lines are from:<br>1. Sarh-1 to NUPPL,<br>2. Ghatampur to NUPPL,<br>3. Sarh-2 to NUPPL,<br>4. Hamirpur to NUPPL.<br>Out of four two are connected and we are availing power through two lines (Ghatampur to NUPPL & Sarh-2 to NUPPL). | **EXP. DURING 2019-20** | 3,525.17 |
| **POWER EVACUATION SYSTEM** | Power Evacuation from 1st Unit of 3X660MW Plant is through " 765KV, Single Circuit, Ghatampur-Agra Transmission line" (GATL). GATL line is made ready by GTL and is presently anti-theft charged upto dead end tower near our plant boundary.<br>765KV, Single Circuit, Ghatampur Hapur Line is also 98% ready and is expected to be duly available during synchronization of 1st Unit.<br>1st circuit of 400KV Double Circuit, Ghatampur-Kanpur Transmission line is also completed by GTL and is available for power evacuation. However, at NUPPL end, 765KV switchyard readiness shall be prior to 400KV switchyard. So, power evacuation is likely to happen through 765KV Agra and Hapur Lines at starting. | EXP. DURING 2020-21 | 2,253.18 |
| **LAND POSSESSION** | Total Requirement -1024 Ha , Under possession: 1006 Ha | EXP. of Jul'21 | 233.48 |
| **WATER ALLOCATION** | 80 cusec from UP Irrigation department (44.6 km from GTPP) | **TOTAL EXPENDITURE (UPTO 31.07.21)** | 12179.67 |
| **MOEF CLEARANCE** | Clearance obtained date from concerned authority-: 17.06.2015 validity of it (If any).:- 7 Years | | |
| **CIVIL AVIATION CLEARANCE** | Clearance obtained date from concerned authority:- 13.12.2013 validity of it (If any).:- 5 Years, NUPPL had sent compliance to AAI regarding the NoC condition, AAI Reply is awaited. | | |
| **CPCB CLEARANCE** | NOT APPLICABLE | | |
| **SPCB CLEARANCE** | Clearance obtained date from concerned authority,:- 17.11.2017 validity of it (If any).- 5 Years | | |
| **FOREST CLEARANCE** | NOT APPLICABLE | | |

## UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED )

| Sl. | MILESTONE | UNIT-01 | | UNIT-02 | | UNIT-03 | |
|---|---|---|---|---|---|---|---|
| | | Original Date of Completion | Actual/Anticipated Date of Completion | Original Date of Completion | Actual/Anticipated Date of Completion | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | 01-01-2017 | 17-03-2017 (A) | 01-07-2017 | 21-08-2017 (A) | 28-12-2017 | 29-01-2021 (A) |
| 2 | START OF BOILER ERECTION | 01-09-2017 | 27-02-2018 (A) | 01-03-2018 | 30-06-2018 (A) | 28-08-2018 | 04-12-2018 (A) |
| 3 | BOILER DRUM LIFTING | NA | NA | NA | NA | NA | - |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | 01-05-2018 | 25-11-2018 (A) | 01-11-2018 | 04-04-2019 (A) | 01-05-2019 | 12-09-2019 (A) |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | NA | NA | NA | NA | NA | NA |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | 01-05-2019 | 06-01-2021 (A) | 01-11-2019 | 24-02-2021 (A) | 01-05-2020 | 31-07-2021 |
| 7 | BOILER LIGHT UP | 30-11-2019 | - | 30-05-2020 | 30-09-2021 | 30-11-2020 | 31-01-2022 |
| 8 | CHEMICAL CLEANING | 30-10-2019 | 24-07-2021(A) | 30-04-2020 | 05-11-2021 | 30-10-2020 | 15-02-2022 |
| 9 | STEAM BLOWING START | 15-12-2020 | 01-09-2021 | 15-06-2020 | 05-11-2021 | 15-12-2020 | 25-03-2022 |
| 10 | STEAM BLOWING COMPLETION | 30-01-2020 | 05.09-2021 | 30-07-2020 | 30-11-2021 | 30-01-2021 | 25.03-2022 |
| 11 | HP PIPING ERECTION START | 12-01-2019 | 30-10-2019 (A) | 12-07-2019 | 21-02-2019 (A) | 12-01-2019 | 30-06-2021 (A) |
| 12 | HP PIPING ERECTION | 10-06-2019 | 30-08-2021 | 10-06-2020 | 05-09-2021 | 12-06-2020 | 10-02-2022 |
| 13 | CONDENSER ERECTION START | 19-07-2018 | 09-03-2019 (A) | 19-01-2019 | 03-01-2020 (A) | 19-07-2019 | 02-03-2021 (A) |
| 14 | TG ERECTION START | 03-07-2018 | 08-02-2019 (A) | 03-01-2019 | 29-02-2020 (A) | 03-07-2019 | 30-04-2021 (A) |
| 15 | TG BOX UP | 02-07-2019 | 23-10-2019 (A) | 02-01-2020 | 31-08-2021 | 02-07-2020 | 31-12-2021 |
| 16 | START OF OIL FLUSHING | 30-11-2019 | 27-10-2020 (A) | 31-05-2020 | 31-12-2021 | 30-11-2020 | 30-04-2022 |
| 17 | ROLLING & SYNC. | 01-03-2020 | 25.09.2021 | 31-08-2020 | 31-12-2021 | 01-03-2021 | 31-03-2022 |
| 18 | FULL LOAD | 01-04-2020 | 01.10.2021 | 31-10-2020 | 31.01.2022 | 01-04-2021 | 30.04.2022 |
| 19 | TRIAL RUN | 29-05-2020 | 25-10-2021 | 27-11-2020 | 25-03-2022 | 29-05-2021 | 25-07-2022 |
| 20 | COD | 01-06-2020 | 01-11-2021 | 30-11-2020 | 31-03-2022 | 01-06-2021 | 31-07-2022 |
| 21 | PG TEST START AND COMPLETION | 01-09-2020 | 01-02-2022 | 01-03-2021 | 30-06-2022 | 01-09-2021 | 30-10-2022 |

## MAIN PLANT PACKAGE (BTG VENDOR):

| Sl. | Packages | AREA | UNIT-01 (Percentage Completion) | UNIT-02 (Percentage Completion) | UNIT-03 (Percentage Completion) |
|---|---|---|---|---|---|
| 1 | BOILER | CIVIL STRUCTURE PRESSURE PARTS | 85.54% | 68.17% | 58.31% |
| 2 | TG | CIVIL STRUCTURE PRESSURE PARTS | 95% | 82% | 56% |
| 3 | ESP | UNDER PROGRESS | 98% | 85% | 42% |
| 4 | FGD | Expected Date of LoA issue: June 2021 | | | |

## STATUS OF BOPs

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency (EPC-BHEL) | UNIT-01 (Percentage Completion) | UNIT-02 (Percentage Completion) | UNIT-03 (Percentage Completion) |
|---|---|---|---|---|---|
| 1 | Chimney | BGR Energy System Ltd. | 80.67% | | |
| 2 | Coal Handling Plant | BGR Energy System Ltd. | 61% | | |
| 3 | Ash Handling Plant | BGR Energy System Ltd. | 54% | | |
| 4 | Fuel Oil System | M/s L&TMHPS Boiler Private Limited-(LMBPL) | 95.04% | | |
| 5 | Cooling Towers | BGR Energy System Ltd | 84 | 54% | 42.15% |
| 6 | CWPump house & Piping | BGR Energy System Ltd | 83% | | |
| 7 | PT Plant | BGR Energy System Ltd | 94% | | |
| 8 | DM Plant | BGR Energy System Ltd | 95% | | |
| 9 | Air Compressor | M/s L&TMHPS Boiler Private Limited-(LMBPL) | 99.41% | | |
| 10 | Fire Protection System | BGR Energy System Ltd | 47% | | |
| 11 | Switch Yard | BGR Energy System Ltd | 63% | | |
| 12 | Station Transformers | M/s GE-Power Systems India Pvt. Ltd. - (GE-Power) | 100% | 40% | NIL |
| 13 | Unit Transformers | M/s GE-Power Systems India Pvt. Ltd. - (GE-Power) | 85% | NIL | NIL |
| 14 | Railway siding | M/s. RITES | 76% | | |
| 15 | Power Evacuation | M/s. Ghatampur transmission limited (Adani transmission limited) | 1st element - 99%<br>2nd element -100%<br>3rd element- 98% | | |

**REASONS OF DELAY**:
BKU Strike for 178 days, Impact of Covid-19 and financial crunch being faced by the agency.

**CRITICAL AREA/ ASSSISTANC EREQUIRED:**
PPA Signing for balance 25% is pending.

# KHURJA SUPER STPP (2X660 MW)

**As on 31.07.2021**
**CENTRAL SECTOR**

| | | | | |
|---|---|---|---|---|
| **Developer-** THDC | **Zero Date:** 29.08.2019 | **Main Plant Vendor-**M/s L&T MHI Power Boilers Pvt. Ltd. (LMB) & BHEL | **Original/ Anticipated Trial Run UNIT-01** | July 23/ Jan 2024 |
| | | | **Original/ Anticipated Trial Run UNIT-02** | Jan 24/ July 2024 |
| **ADDRESS** : - **Khurja Dist. Bulandshahar, Uttar Pradesh -203131** | | | **E-GEN PORTAL:** REGISTRATION STATUS- NO | |

| **CLEARANCES AND STATIC DATA** | | **FINANCIAL DATA (in Crore)** | |
|---|---|---|---|
| **FUEL TYPE** | COAL | **ORIGINAL ESTIMATED COST OF THE PROJECT** | Rs.11,089.42 Cr. (Dec-17 PL) investment Approval accorded on 07.03.19. |
| **COAL COMBUSTION** | Ultra Supercritical | **LATEST ESTIMATED COST** | Not Applicable |
| **APPROVAL DATE/NOTICE TO PROCEED (NTP)** | CCEA accorded Investment Approval for Khurja STPP in District Bulandshahar of Uttar Pradesh at an estimated cost of Rs.11,089.42 Cr. at Dec-17 PL, on 07.03.2019. | **DATE OF FINANCIAL CLOSURE** | The Project is being funded with a Debt Equity ratio of 70:30. Equity portion is being arranged by THDCIL from internal resources and Debt portion is being arranged by borrowing through Banks/ Financial Institutions and through issuance of bonds. |
| **ZERO DATE:** | Zero Date : 29.08.2019 (with respect to Award of Main Plant Package i.e. Steam Generator & Associated Packages) | **EXP. DURING 2016-17** | 338.92 |
| **PPA** | PPAs for entire off take-off power to be generated from Khurja STPP have been signed by THCDIL prior to 05.01.2011 with Uttar Pradesh, Uttrakhand, Rajasthan, Himachal Pradesh and Delhi.<br>Out of 1320 MW, 60% power (792 MW) is to be supplied to UP & balance 40% power (528 MW) is to be supplied to other beneficiary states as per allocation to be done by Ministry of Power. | **EXP. DURING 2017-18** | 10.66 |
| **COAL LINKAGE/FSA** | For Coal linkage, Ministry of Coal, GoI vide allotment order dtd.17.01.2017 has allotted Amelia Coal Mine in District Singraulli, Madhya Pradesh to THDCIL to meet out fuel requirements of the project.<br>Grade of Coal: G9 (Avg. GCV = 4746 Kcal/Kg)<br>Net Geological Reserve in Amelia Coal Mine is 162.05 Million Ton (OC) out of this Extractable Coal Reserve is 139.48 Million Ton. | **EXP. DURING 2018-19** | 148.87 |
| **START UP POWER AGREEMENT** | Connectivity has been granted by CTU vide its letter No.C/CTU/N/05/1200002404 dated.18.03.2020 for evacuation of 528 MW power from Khurja (2x660 MW) STPP to ISTS beneficiaries. Signing of Connectivity agreement is under process. In line with the granted connectivity, power evacuation system is under implementation through Powergrid Corporation Of India Limited and is likely to completed by June-2022. Thereafter THDCIL will request RLDC for availing start up power as per CERC Regulations. | **EXP. DURING 2019-20** | 439.95 |
| **POWER EVACUATION SYSTEM** | a) Power Evacuation system to ISTS Beneficiaries :-<br>MOU already signed with PGCIL on 26.06.2020 for Implementation of 400 kV Double Circuit alongwith construction of Associated bays at Aligarh Sub-Station for evacuation of Power from Khurja (2x660 MW) STPP. The scope of power evacuation system has been split into two packages namely Sub-station and transmission line package. The status of these two packages is as follows:<br>(i) Sub-Station Package : Notification of award issued on 25.03.2021 to M/s HYOSUNG INDIA with a completion period of 15 Months and the works are under progress.(ii) Transmission Line Package : Notification of award issued on 02.03.2021 to M/s Unitech Power Transmission Limited with a completion period of 15 Months and works are under progress.<br>b) Power Evacuation system to UP :-<br>In line with 2nd meeting of Northern Region Power Committee ( Transmission Planning) held on 01.09.2020, UPPTCL will directly evacuate their share of power i.e. 60% (792 MW) from Khurja STPP Switchyard Busbar by establishing LILO of one circuit of Aligarh - Shamli 400 kV D/C line at Khurja STPP as intra- State network and the works are under progress. | **EXP. DURING 2020-21** | 789.69 |
| **LAND POSSESSION** | Physical possession of total 1200.843 Acres land has been obtained and work is in progress in entire plant land through various main plant packages. | **EXP. OF Jul' 21** | 120.23 |
| **WATER ALLOCATION** | Formal water commitment letter for providing 43 Cusec water for Makeup Water System from Upper Ganga Canal at just 11 Km from Project site issued by Water Resource Department, GoUP on 12.06.2014. | **TOTAL EXPENDITURE (UPTO 31.07.2021 )** | 2201.76 |
| **MOEF CLEARANCE** | Environmental Clearance has been accorded to Khurja STPP by MOEF&CC on 30.03.2017 with validity upto 29.03.2024. | | |
| **CIVIL AVIATION CLEARANCE** | Clearance for construction of chimney for Khurja STPP has been obtained from Airport Authority of India (AAI) on 19.04.2018 with validity up to 17.07.2023. | | |
| **CPCB CLEARANCE** | NOT APPLICABLE | | |
| **SPCB CLEARANCE** | "Consent to Establish" has been granted by SPCB Uttar Pradesh on 13.06.2018 with validity upto 01.06.2023. | | |
| **FOREST CLEARANCE** | NOT APPLICABLE | | |

## UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED )

| Sl. | MILESTONE | UNIT-01 | | UNIT-02 | |
|---|---|---|---|---|---|
| | | Original Date of Completion | Actual/Anticipated Date of Completion | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | 29.09.2020 | 20.01.2021 | 29.03.2021 | 31.07.2021 |
| 2 | START OF BOILER ERECTION | 29.10.2020 | 20.02.2021 | 29.04.2021 | 31.08.2021 |
| 3 | BOILER DRUM LIFTING | NA | NA | NA | NA |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | 28.05.2021 | 10.07.2021 | 28.11.2021 | 30.03.2022 |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | 29.05.2022 | 29.11.2022 | 29.11.2022 | 29.05.2023 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | --- | --- | --- | --- |
| 7 | | 29.10.2022 | 29.04.2023 | 29.04.2023 | 29.10.2023 |
| 8 | CHEMICAL CLEANING | 29.10.2022 | 29.04.2023 | 29.04.2023 | 29.10.2023 |
| 9 | STEAM BLOWING START | --- | --- | --- | --- |
| 10 | STEAM BLOWING | 29.12.2022 | 29.06.2023 | 29.06.2023 | 29.12.2023 |
| 11 | HP PIPING ERECTION START | 28.06.2021 | 28.12.2021 | 28.12.2021 | 28.06.2022 |
| 12 | HP PIPING ERECTION | 26.10.2022 | 26.04.2023 | 26.04.2023 | 26.10.2023 |
| 13 | CONDENSER ERECTION START | 02.09.2021 | 02.03.2022 | 02.03.2022 | 02.09.2022 |
| 14 | TG ERECTION START | 03.09.2021 | 03.02.2022 | 03.03.2022 | 03.08.2022 |
| 15 | TG BOX UP | 04.08.2022 | 04.02.2023 | 04.02.2023 | 04.08.2023 |
| 16 | START OF OIL FLUSHING | 03.11.2022 | 03.05.2023 | 03.05.2023 | 03.11.2023 |
| 17 | ROLLING & SYNC. | 02.04.2023 | 02.10.2023 | 02.10.2023 | 02.04.2024 |
| 18 | FULL LOAD | 02.06.2023 | 02.12.2023 | 02.12.2023 | 02.06.2024 |
| 19 | TRIAL RUN | 02.07.2023 | 02.01.2024 | 02.01.2024 | 02.07.2024 |
| 20 | COD | 02.08.2023 | 02.02.2024 | 02.02.2024 | 02.08.2024 |
| 21 | PG TEST START AND COMPLETION | Start – 30.04.23<br>Finish – 29.05.23 | Start – 30.10.23<br>Finish – 29.11.23 | Start – 30.10.23<br>Finish – 29.11.23 | Start – 30.04.24<br>Finish – 29.05.24 |

## MAIN PLANT PACKAGE (BTG VENDOR): M/s L&T MHI Power Boilers Pvt. Ltd. (LMB) & BHEL

| Sl. | Packages | AREA | UNIT-01 (Percentage Completion) | UNIT-02 (Percentage Completion) |
|---|---|---|---|---|
| 1 | BOILER | CIVIL<br>STRUCTURE<br>PRESSURE PARTS | 44%<br>8%<br>0% | 26%<br>0%<br>0% |
| 2 | TG | CIVIL<br>STRUCTURE<br>PRESSURE PARTS | 68%<br>2%<br>0% | 35.3%<br>0%<br>0% |
| 3 | ESP | UNDER PROGRESS | 0% | 0% |
| 4 | FGD | CIVIL | 79% Of PILING | 57% of PILING |

## STATUS OF BOPs

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency (EPC-BHEL) | UNIT-01 (Percentage Completion) | UNIT-02 (Percentage Completion) |
|---|---|---|---|---|
| 1 | Chimney | M/s L&T MHI Power Boilers Pvt. Ltd | 100% of Piling | |
| 2 | Coal Handling Plant | In tendering process | | |
| 3 | Ash Handling Plant | M/s L&T MHI Power Boilers Pvt. Ltd | 87 % of Piling | |
| 4 | Fuel Oil System | M/s L&T MHI Power Boilers Pvt. Ltd | 0% | |
| 5 | Cooling Towers | M/s Paharpur Cooling Towers Ltd. | 7.25% of Footing | |
| 6 | CW Pump house & Piping | In tendering process | | |
| 7 | PT Plant | In tendering process | | |
| 8 | DM Plant | In tendering process | | |
| 9 | Air Compressor | In tendering process | | |
| 10 | Fire Protection System | In tendering process | | |
| 11 | Switch Yard | M/s GET&D | 18% of CIVIL Works | |
| 12 | Station Transformers | BHEL | 5% | |
| 13 | Unit Transformers | BHEL | 5% | |
| 14 | Railway siding | M/s Jhajhariya Nirman Ltd<br>M/s ISC-CMIPL (JV) | PKG-1: 27%<br>PKG-2:65% | |
| 15 | Power Evacuation | M/s Unitech Power Transmission<br>M/s Hyosung India | 1% | |

**REASONS OF DELAY**:
6 Months Post Award delay due to COVID-19 Pandemic.

**CRITICAL AREAS:**
Shifting of all residents of Nagla locality, continuous support of administration shall be required

# BUXAR THERMAL POWER PROJECT (2X660 MW)

**As on 31.07.2021**
**CENTRAL SECTOR**

| **Developer-** SJVN | **Zero Date:** 22.06.2019 | **Main Plant Vendor-**M/S L&T | **Original/ Anticipated Trial RunUNIT-01** | May 2023/May 2023 |
|---|---|---|---|---|
| | | | **Original/ Anticipated TrialRun UNIT-02** | Sep 2023/ Sep 2023 |
| **ADDRESS** : - Village-Chausa, Tehsil-Chausa, Distt.-Buxar, Pin- 802114, Bihar | | | **E-GEN PORTAL:** REGISTRATION STATUS- NO | |

| **CLEARANCES AND STATIC DATA** | | **FINANCIAL DATA (in Crore)** | |
|---|---|---|---|
| **FUEL TYPE** | Coal | **ORIGINAL ESTIMATED COST OF THE PROJECT** | Original Project cost- 10,439.09 Crores (Price Level- Jan'2018), Approval date- 08.03.2019. |
| **COAL COMBUSTION TECHNOLOGY** | Supercritical | **LATEST ESTIMATED COST** | Not Applicable |
| **PROCEED (NTP)** | Investment Approval accorded by Govt. of India vide MoP memorandum dated 08.03.2019. | **DATE OF FINANCIAL CLOSURE** | 26.11.2020 |
| **ZERO DATE:** | Main Plant works has been awarded in single EPC package to M/s. L&T on 22.06.2019. | **EXP. DURING 2013-14** | 46.68 |
| **PPA** | PPA signed with Govt. of Bihar on 05.01.2011 and further reconfirmed on 09.01.2018. | **EXP. DURING 2014-15** | 15.18 |
| **COAL LINKAGE/FSA** | Letter of Assurance (LoA) for 4.976 MTPA of G9 to G14 grade coal issued by Central Coalfields Ltd. (CCL) on 10.12.2018.<br>Coal may be supplied either from Amrapali coal block or Magadh coal block. | **EXP. DURING 2015-16** | 378.08 |
| **START UP POWER AGREEMENT** | Start up power will be arranged through South Bihar Power Distribution company Ltd. (SBPDCL). | **EXP. DURING 2016-17** | 23.96 |
| **POWER EVACUATION SYSTEM** | Eastern Region Power Committee (Transmission Planning) (ERPCTC) during their 1st meeting held on 14.02.2020, agreed following evacuation system from the project as intra-state system as per minutes forwarded to STPL vide email dated 18.05.20 :<br>- Buxar TPS- Naubatpur 400 kV double circuit (Twin Moose)<br>- Buxar TPS- Dumraon (New) 220 kV double circuit (Twin Moose)<br>- Buxar TPS- Karmnasa (New) 220 kV double circuit (Twin Moose)<br>- Buxar TPS- Dehri 220 kV double circuit (Single Zebra) | **EXP. DURING 2017-18** | 21.73 |
| **LAND POSSESSION** | Total Land Required-1283 Acre<br>Total Land Acquired-1058 Acre (Total land acquired for main Plant)<br>Total Land Use-1058 Acre. | **EXP. DURING 2018-19** | 68.21 |
| **WATER ALLOCATION** | MoU for utilization of 55 cusec of water signed between STPL and Water Resource Deptt., Govt. of Bihar on 29.08.2016. | **EXP. DURING 2019-20** | 344.5 |
| **MOEF CLEARANCE** | Accorded by MOEF&CC on 28.02.2017. (Validity- 27.02.2024) | **EXP. DURING 2020-21** | **1,100.05** |
| **CIVIL AVIATION CLEARANCE** | Accorded by Airport Authority of India on 12.04.2017 (Fresh NOC issued on 18.11.2018). (Validity-17.11.2028) | **EXP. OF Jul'21** | **175.17** |
| **CPCB CLEARANCE** | NOT APPLICABLE | **TOTAL EXPENDITURE (UPTO 31.07.2021 )** | **2474.99** |
| **SPCB CLEARANCE** | "Consent to Establish" (NOC) granted by Bihar State Pollution Control Board on 03.09.2019. | | |
| **FOREST CLEARANCE** | NOT APPLICABLE | | |

| UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED ) | | | | | |
|---|---|---|---|---|---|
| Sl. | MILESTONE | UNIT-01 | | UNIT-02 | |
| | | Original Date of Completion | Actual/Anticipated Date of Completion | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | 21-Jul-20 | 01-May-21 | 19-Nov-20 | 30-Sep-21 |
| 2 | START OF BOILER ERECTION | 20-Aug-20 | 21-Oct-20 | 20-Dec-20 | 31-Oct-21 |
| 3 | BOILER DRUM LIFTING | -NA- | -NA- | -NA- | -NA- |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | 19-Apr-21 | 21-Dec-21 | 20-Aug-21 | 21-Apr-22 |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | 20-Apr-22 | 21-Sep-22 | 21-Aug-22 | 21-Jan-23 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | -NA- | -NA- | -NA- | -NA- |
| 7 | | 21-Oct-22 | 22-Dec-22 | 21-Feb-23 | 22-Feb-23 |
| 8 | CHEMICAL CLEANING | 15-Oct-22 | 30-Dec-23 | 15-Feb-23 | 16-Feb-23 |
| 9 | STEAM BLOWING START | 01-Nov-22 | 02-Mar-23 | 04-Mar-23 | 04-Mar-23 |
| 10 | STEAM BLOWING COMPLETION | 18-Dec-22 | 31-Mar-23 | 20-Apr-23 | 20-Apr-23 |
| 11 | HP PIPING ERECTION START | 16-Oct-21 | 16-Feb-22 | 15-Feb-22 | 15-Apr-22 |
| 12 | HP PIPING ERECTION COMPLETION | 30-Jul-22 | 30-Dec-22 | 29-Nov-22 | 29-Mar-22 |
| 13 | CONDENSER ERECTION START | 03-Aug-21 | 03-Feb-22 | 03-Dec-21 | 03-Apr-22 |
| 14 | TG ERECTION START | 21-Sep-21 | 23-Jan-22 | 20-Jan-22 | 20-Apr-22 |
| 15 | TG BOX UP | 21-Aug-22 | 22-Oct-22 | 20-Dec-22 | 21-Feb-23 |
| 16 | START OF OIL FLUSHING | 28-Aug-22 | 28-Oct-22 | 27-Dec-22 | 28-Feb-23 |
| 17 | ROLLING & SYNC. | 20-Feb-23 | 21-Feb-23 | 21-Jun-23 | 21-Jun-23 |
| 18 | FULL LOAD | 21-Mar-23 | 21-Mar-23 | 21-Jul-23 | 21-Jul-23 |
| 19 | TRIAL RUN | 21-May-23 | 21-May-23 | 21-Sep-23 | 21-Sep-23 |
| 20 | COD | 07-Jul-23 | 07-Jul-23 | 07-Jan-24 | 07-Jan-24 |
| 21 | PG TEST START AND COMPLETION | 21-Jun-24 | 21-Jun-24 | 21-Nov-24 | 21-Nov-24 |

| MAIN PLANT PACKAGE (BTG VENDOR): M/s L&T ltd | | | | |
|---|---|---|---|---|
| Sl. | Packages | AREA | UNIT-01 (Percentage Completion) | UNIT-02 (Percentage Completion) |
| 1 | BOILER | CIVIL STRUCTURE PRESSURE PARTS | 20% (Overall) | 4% (Overall) |
| 2 | TG | CIVIL STRUCTURE PRESSURE PARTS | 7% (Overall) | 1.31% (Overall) |
| 3 | ESP | UNDER PROGRESS | 2.5% | 0 |
| 4 | FGD | CIVIL WORK<br>MATERIAL SUPPLY<br>ERECTION WORK | 3.1%<br>0.15%<br>0% | 3.1%<br>0.15%<br>0% |

## STATUS OF BOPs

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency (EPC-BHEL) | UNIT-01 (Percentage Completion) | UNIT-02 (Percentage Completion) |
|---|---|---|---|---|
| 1 | Chimney | Larsen & Toubro Limited (EPC) | 6.4% | |
| 2 | Coal Handling Plant | | 0.05%(Conveyor package), 6.8% (Wagon Tripler) 0% (Stacker Reclaimer) | |
| 3 | Ash Handling Plant | | 2.9% | |
| 4 | Fuel Oil System | | 0.15% | |
| 5 | Cooling Towers | | 14% | |
| 6 | CW Pump house & Piping | | 1.4% | |
| 7 | PT Plant | | 1.92% | |
| 8 | DM Plant | | 11.78% | |
| 9 | Air Compressor | | 5.9% | |
| 10 | Fire Protection System | | 2.9% | |
| 11 | Switch Yard | | 18.23% | |
| 12 | Station Transformers | | 2.15% | |
| 13 | Unit Transformers | | 0% | |
| 14 | Railway siding | RITES Ltd. | 6.70% | |
| 15 | Power Evacuation | BSPTCL, Govt. of Bihar | | |

**REASONS OF DELAY** :

1. Covid-19 Pandemic and subsequent lockdowns
2. Non-availability of industrial Oxygen cylinders due to Covid-19
3. State government restriction for transportation of aggregates, sand etc.

**CRITICAL AREAS:**

1. Acquisition of land for Rail infrastructure corridor and Water pipe line corridor, Intake, Main Gate & Extra land for the project is critical for timely commissioning of the project.
2. Construction activities of project have been commenced but construction work is being disrupted by locals frequently. Deployment of CISF is required for uninterrupted construction activities of the project.

# BROAD STATUS

# Of
# UNDER CONSTRUCTION

# THERMAL POWER PROJECTS

## STATE & PRIVATE SECTOR

# NORTHERN REGION

# SURATGARH STPP (2X660 MW)

**As on 31.07.2021**

**STATE SECTOR**

| **Developer-** RVUNL | **Zero Date:** May' 2013 | **Main Plant Vendor-**M/S BHEL (EPC Contract-28.03.2013) | **Original/Actual COD UNIT-07** | SEP 2016/ 01.12.2020(A) |
|---|---|---|---|---|
| | | | **Original/ Anticipated Trial Run UNIT-08** | Nov'2016/ Sept 21 |

| | |
|---|---|
| **ADDRESS** : - STPS-SC, Village-Thukrana, Tehsil- Suratgarh, Dist.-Sriganganagar, Rajasthan (335804). | **E-GEN PORTAL:** REGISTRATION STATUS- YES, Reg No: U-08:1200000800 |

| **CLEARANCES AND STATIC DATA** | | **FINANCIAL DATA (in Crore)** | |
|---|---|---|---|
| **FUEL TYPE** | Coal | **ORIGINAL ESTIMATED COST OF THE PROJECT** | 7920 cr. (02.03.2009) |
| **COAL COMBUSTION TECHNOLOGY** | Supercritical Technology | **LATEST ESTIMATED COST** | 8966.47 cr (19.07.2019) |
| **APPROVAL DATE/NOTICE TO PROCEED (NTP)** | Administartive & Financial approval accorded by GoR on 02.03.2009 | **DATE OF FINANCIAL CLOSURE** | NA |
| **ZERODATE:** | Order placed on 23/05/13 on M/s BHEL on EPC basis.<br>Blr-ALSTOM, TG-SIEMENS | **EXP. DURING 2015-16** | 4881.89 |
| **PPA** | Signed on 18.05.2010 with Rajasthan Discoms | **EXP. DURING 2016-17** | 1642.28 |
| **COAL LINKAGE/FSA** | Approval accorded by Ministry of Coal, Govt. of India, New Delhi, to use Coal from Parsa East &Kanta Basin Coal blocks of RVUN vide letter Dt. 03.02.2012. | **EXP. DURING 2017-18** | 1080.18 |
| **START UP POWER AGREEMENT** | As per PPA | **EXP. DURING 2018-19** | 1053.15 |
| **POWER EVACUATION SYSTEM** | Through 4 nos. 400 K.V. Transmission lines of RVPN network. | **EXP. DURING 2019-20** | 1102.71 |
| **LAND POSSESSION** | 0.253/0698.557 Hect. still to be acquired | **EXP. DURING 2020-21** | 1056.18 |
| **WATER ALLOCATION** | 60 cusec byWRD from INGP of dated 02.09.2009 | **EXP. OF Jul'21** | 0 |
| **MOEF CLEARANCE** | EC granted by MoEF on 23.05.2012 and further extended upto 22.5.2022 | **TOTAL EXPENDITURE (UPTO 31.07.21 )** | 10882.45 |
| **CIVIL AVIATION CLEARANCE** | NOC issued by Airport Authority of India vide letter no. AAI/NOC/2010/79/938-940 dated 26.04.2010.<br>(3) CPCB CLEARANCE: NIL | | |
| **CPCB CLEARANCE** | NOT APPLICABLE | | |
| **SPCB CLEARANCE** | (i) Consent to Establish:- Date of obtained:- 04.06.2013<br>Validity :- Upto 22.05.2020<br>(i) Consent to Establish:- Date of obtained:- 16.12.2020<br>Validity :- 31.10.2017 to 30.09.2022 | | |
| **FOREST CLEARANCE** | NOT APPLICABLE | | |

| UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED ) | | | |
|---|---|---|---|
| Sl. | MILESTONE | UNIT-08 | |
| | | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | 25.05.2014 | 04.07.2014 |
| 2 | START OF BOILER ERECTION | 28.06.2014 | 25.06.2014 |
| 3 | BOILER DRUM LIFTING | NA | |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | 23.12.2014 | 01.04.2015 |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | 28.11.2015 | 15.03.2016 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | 10.04.2016 | 27.07.2018 |
| 7 | BOILER LIGHT UP | 29.05.2016 | 28.09.2017 |
| 8 | CHEMICAL CLEANING | 13.07.2016 | 06.10.2018 |
| 9 | STEAM BLOWING START | 10.08.2016 | 04.03.2019 |
| 10 | STEAM BLOWING COMPLETION | 29.08.2016 | 07.06.2019 |
| 11 | HP PIPING ERECTION START | 02.09.2015 | 25.05.2016 |
| 12 | HP PIPING ERECTION COMPLETION | 10.07.2016 | 09.07.2019 |
| 13 | CONDENSER ERECTION START | 15.03.2015 | 28.06.2015 |
| 14 | TG ERECTION START | 15.04.2015 | 05.11.2015 |
| 15 | TG BOX UP | 15.06.2016 | 09.11.2017 |
| 16 | START OF OIL FLUSHING | 28.07.2016 | 18.08.2018 |
| 17 | ROLLING & SYNC. | 28.09.2016 | 23.03.2021 |
| 18 | FULL LOAD | 28.10.2016 | Aug-21 |
| 19 | TRIAL RUN | 28.11.2016 | Sept-21 |
| 20 | COD | 28.12.2016 | |
| 21 | PG TEST START AND COMPLETION | 28.12.2016 | - |

| MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL (28.03.2013) | | | |
|---|---|---|---|
| Sl. | Packages | UNIT | % Completion |
| 1 | BOILER | UNIT-08 | 98.8 |
| 2 | TG | UNIT-08 | 91.46 |
| 3 | ESP | UNIT-08 | 97 |
| 4 | FGD | UNIT-08 | Revised NIT floated on 25.03.2021. |

## STATUS OF BOPs

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency (EPC- BHEL) | % Completion |
|---|---|---|---|
| 1 | Chimney | M/s Simplex Infrastructure | 99.05 |
| 2 | Coal Handling Plant | M/s Zuberi Engineering Company(Conveyor package)<br>M/s GDCL(Wagon tippler)<br>ISG M/s L&T(Stacker Reclaimer) | 51.50 |
| 3 | Ash Handling Plant | ISG | 89 |
| 4 | Fuel Oil System | M/s. BHEL-PSER | 97 |
| 5 | Cooling Towers | M/s BGR | 98.64 |
| 6 | CW Pump house & Piping | M/s Power Mech | 100 |
| 7 | PT Plant | M/s VA Tech | 100 |
| 8 | DM Plant | M/s Thermax Limited | 100 |
| 9 | Air Compressor | M/s Ingersol | 100 |
| 10 | Fire Protection System | M/s Jyoti Turbo BHEL-TBG, M/s Sterling & Wilson | 83 |
| 11 | Switch Yard | M/s Telmos Electronics | 94.22 |
| 12 | Station Transformers | M/s Telmos Electronics | 100 |
| 13 | Unit Transformers | M/s Sigma | 100 |
| 14 | Railway siding | NWR- Bikaner | 64 |
| 15 | Power Evacuation | M/s RVPNL/ M/s Adani | 85% |

**REASONS OF DELAY** :

1. Delay in ordering & engineering by M/s BHEL.
2. M/s BHEL delayed in submission of drawings to M/s TCE (consultant of RVUNL) for approval.
3. Many incompetent sub agencies deployed under the banner of M/s BHEL main contract due to which several types of labour disputes arose and work could not be commenced and completed in time.
4. Inadequate man power supply & non availability of Civil front.
5. Lack of co-ordination between different units of M/s BHEL, no senior officer of M/s BHEL posted at SSCTPP, Suratgarh site for proper co-ordination between different units of BHEL, which hampered the progress of project.
6. Due to world wide spread of COVID pandemic

**CRITICAL AREAS:** NIL

# HARDUAGANJ TPS, EXTN-II (1X660MW)

As on 31.07.2021

STATE

| Developer- UPRVUNL | Zero Date:08.09.2015 | Main Plant Vendor- M/s Toshiba JSW Systems Private Limited as EPC basis on 08.09.2015<br>Boiler: Doosan, India ; TG & Generator: Toshiba JSW Power Systems | Original/ Anticipated Trial Run UNIT-01 | Dec'2019/ Oct'2021 |
|---|---|---|---|---|
| ADDRESS : -Kasimpur, Teh- Koil, District- Aligarh, State- UP, PIN-202127 | | | E-GEN PORTAL: REGISTRATION STATUS- NO, | |

| CLEARANCES AND STATIC DATA | | FINANCIAL DATA (in Crore) | |
|---|---|---|---|
| FUEL TYPE | Coal | ORIGINAL ESTIMATEDCOST OF THE PROJECT | Original cost Rs. 4826.5 Crore approved on 22.11.2011 |
| COAL COMBUSTION TECHNOLOGY | Supercritical | LATEST ESTIMATED COST | Revised cost Rs. 6011.83 crore approved on 15.07.2020 |
| APPROVAL DATE/NOTICE TO PROCEED (NTP) | UP Government approval was accorded vide letter no. 2801/24-1-2011-3485/2009 dt. 22.09.2011 | DATE OF FINANCIAL CLOSURE | 16.04.2012 |
| ZERO DATE: | Date of start is 08.09.2015. M/s Toshiba JSW Power Systems Ltd. is the EPC contrctor for the work. | | |
| PPA | PPA signed with UPPCL on 16.01.2013 | EXP. DURING 2015-16 | 305.81 |
| COAL LINKAGE/FSA | Saharpur-Jamarpani, Jharkhand allotted to UPRVUNL on date 25.03.2015 for 3.00 MTPA requirement of 1x660 MW Harduaganj | EXP. DURING 2016-17 | 115.13 |
| START UP POWER AGREEMENT | Start up power being drawn from HDJ (C&D) as per para 21 of UPERC (Terms and conditions of generation tariff) Regulation 2019 | EXP. DURING 2017-18 | 458.1 |
| POWER EVACUATION SYSTEM | LILO of Aligarh-Sikandrabad 400 KV ckt-Ist at HTPS and2x315 MVA, 400/220 KV ICT. | EXP. DURING 2018-19 | 1223.83 |
| LAND POSSESSION | 73 hectare of land (already under possession of UPRVUNL) is being used for establishing 1x660 MW extn.-II TPP. | EXP. DURING 2019-20 | 1,339.22 |
| WATER ALLOCATION | Allotted from Upper Ganga Canal vide letter 4992/C-15 dt. 03.12.2011 of Irrigation department from existing 106 cusec allotment. | EXP. DURING 2020-21 | 795.91 |
| MOEF CLEARANCE | MoE&F clearance granted on 12.05.2015 which was valid upto 11.05.2020. Validity futher extended upto 11.05.2022. | EXP. OF CURRENT MONTH Jul-21 | 207.82 |
| CIVIL AVIATION CLEARANCE | NOC given by AAI on dated 12.07.2012 and work completed within the time allotted. | TOTAL EXPENDITURE (UPTO DATE 31.07.2021) | 4545.50 |
| CPCB CLEARANCE | NA | | |
| SPCB CLEARANCE | Consent to Establish accorded by UPPCB vide ref no. 33082/UPPCB/Aligarh(UPPCBRO)/CTE/ALIGARH/2019 dt. CTO accorded by UPPCB from 01.01.2021 to 31.12.2021. | | |
| FOREST CLEARANCE | NA | | |

| UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED ) | | | |
|---|---|---|---|
| Sl. | MILESTONE | UNIT-01 | |
| | | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | March-17 | 11-May-2017 (A) |
| 2 | START OF BOILER ERECTION | April-17 | 22-Mar-2017 (A) |
| 3 | BOILER DRUM LIFTING | NA | NA |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | 01/10/17 | 11-Apr-2018 (A) |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | Nov-18 | 31-Dec-2019 (A) |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | Nov-18 | 25-May-2019 (A) |
| 7 | BOILER LIGHT UP | May-19 | 28-Aug-2020 (A) |
| 8 | CHEMICAL CLEANING COMPLETION | - | 10-Feb-2020 (A) |
| 9 | STEAM BLOWING START | - | 08-Jan-2021 (A) |
| 10 | STEAM BLOWING COMPLETION | July-19 | 22-Jun-2021 (A) |
| 11 | HP PIPING ERECTION START | October-17 | 19-Sep-2018 (A) |
| 12 | HP PIPING ERECTION COMPLETION | September-18 | 24-Sep-2019 (A) |
| 13 | CONDENSER ERECTION START | March-18 | 20-Sep-2018 (A) |
| 14 | TG ERECTION START | March-18 | 06-Sep-2018 (A) |
| 15 | TG BOX UP | February-19 | 05-Mar-2020 (A) |
| 16 | START OF OIL FLUSHING | | 12-Nov-2020 (A) |
| 17 | ROLLING & SYNC. | September-19 | Aug, 2021 |
| 18 | FULL LOAD | November-19 | Sept, 2021 |
| 19 | TRIAL RUN | December-19 | Oct, 2021 |
| 20 | COD | | Oct, 2021 |
| 21 | PG TEST START AND COMPLETION | | Dec,2021 |

| MAIN PLANT PACKAGE (BTG VENDOR): M/s DOOSAN , M/s TJPS/SIMPLEX, M/s KCC | | | |
|---|---|---|---|
| Sl. | Packages | UNIT-01 | % Completion |
| 1 | BOILER | Civil works<br>Structural works | 90.9%<br>92% |
| 2 | TG | Civil works<br>Structural works<br>TG Aux | 98%<br>99.76%<br>97% |
| 3 | ESP | Pass status | 99.96% |
| 4 | FGD | CIVIL<br>Material Suppy<br>Erection | 98.95%<br>95.5%<br>60.9% |

## STATUS OF BOPs

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency | % Completion |
|---|---|---|---|
| 1 | Chimney | Bygging India Limited | 100% |
| 2 | Coal Handling Plant | FLSmidth/ WIE & TRIGARD (Conveyor package) | 85% |
| | | FLSmidth / TRIGARD (Wagon Tripler) | 80% |
| | | FLSmidth / WIE | 84% |
| 3 | Ash Handling Plant | Indure | 71% |
| 4 | Fuel Oil System | GMW | 99% |
| 5 | Cooling Towers | Pahapur | 100% |
| 6 | CW Pump house & Piping | XYLEM | 100% |
| 7 | PT Plant | DRIPLEX | 95% |
| 8 | DM Plant | DRIPLEX | 98% |
| 9 | Air Compressor | Atlas Copco | 100% |
| 10 | Fire Protection System | Consilium Middle East (FZC) | 75% |
| 11 | Switch Yard | ABB | 100% |
| 12 | Station Transformers | TTDI | 100% |
| 13 | Unit Transformers | TTDI | 100% |
| 14 | Railway siding | M/s Suresh Chandra Gupta | 85% |
| 15 | Power Evacuation | M/s ABB | 100% |

**REASONS OF DELAY** :

1. Delay in material supply by EPC contractor due to GST implementation.
2. COVID-19 Phase-1.0: Total Project activities got hampered due to the restrictions imposed by Local administration, State and Central Government to prevent the adversities of COVID-19. The continuance of the epidemic further affected the site progress due to delay in restoration of activities.
3. COVID-19 phase 2.0: The second wave of epidemic and thereby suspension of site activities by EPC contractor. This resulted in complete halt of project progress from 01- May- 2021.

**CRITICAL AREAS:** NIL

# OBRA 'C' TPP (2X660 MW)

As on 31.07.2021
STATE SECTOR

| Developer- UPRVUNL | Zero Date: 22.12.2016 | **Main Plant Vendor-** (BTG) awarded to M/s. Doosan Power Systems India Pvt. Ltd. On 22.12.2016 SG package by | **Original/Actual Trial Run UNIT-01** | Dec-20/Jul-22 |
|---|---|---|---|---|
| | | | **Original/Expected Trial Run UNIT-02** | Apr-21/Jan-23 |
| **ADDRESS** : - Village-Obra, Tehsil-Obra, District-Sonebhadra, Pin-231219 Uttar Pradesh | | | **E-GEN PORTAL:** Unit 1 No: 1200001696<br>Unit 2 No: 1200001697 | |

| **CLEARANCES AND STATIC DATA** | | **FINANCIAL DATA (in Crore)** | |
|---|---|---|---|
| **FUEL TYPE** | COAL | **ORIGINAL ESTIMATED COST OF THE PROJECT** | Original Project cost - 8777.71 Crores approval date from U P Govt. 31.07.2012 |
| **COAL COMBUSTION TECHNOLOGY** | Ultra Supercritical | **LATEST ESTIMATED COST** | Latest Estimated cost - 10416 Crore approval date 24.11.2016 |
| **APPROVAL DATE/NOTICE TO PROCEED (NTP)** | Date of NTP or Approval Date: 22.12.2016 | **DATE OF FINANCIAL CLOSURE** | 13.11.2013 and 30.05.2019 for additional amount. |
| **ZERO DATE:** | 22.12.2016. EPC Package Awarded to M/s Doosan Power Systems Indi Pvt. Ltd., Gurugram | **EXP. DURING 2015-16** | 7.24 |
| **PPA** | PPA signed with UP Power Corporation Ltd for 100% share to state of UP | **EXP. DURING 2016-17** | 423.77 |
| **COAL LINKAGE/FSA** | Coal Block allocated at Saharpur Jamarpani Coal Mine, Jharkhand. Allocation Date: 13.08.2015. Grade of Coal B to G | **EXP. DURING 2017-18** | 277.83 |
| **START UP POWER AGREEMENT** | Start up power from UPPTCL | **EXP. DURING 2018-19** | 855.9 |
| **POWER EVACUATION SYSTEM** | Power evacuation at 765 KV. | **EXP. DURING 2019-20** | 2175.96 |
| **LAND POSSESSION** | Brown Field project, therefore Land already in Pssession. For ash dyke construction, land acquisition of 113.42 Ha under progress | **EXP. DURING 2020-21** | 1220.62 |
| **WATER ALLOCATION** | Water requirement to be fulfilled from return channel of obra B plant. Additional requirement (if any) shall be met from the reservoir of Rihand Dam. | **EXP. OF CURRENT MONTH ( July 2021)** | 45.54 |
| **MOEF CLEARANCE** | Clearance obtained date 21.06.2016 | **TOTAL EXPENDITURE (UPTO DATE 30.06.2021 )** | 5884.79 |
| **CIVIL AVIATION CLEARANCE** | Clearance obtained date : 12.07.2016 Valid upto 21.07.2021 | | |
| **CPCB CLEARANCE** | Not Applicable | | |
| **SPCB CLEARANCE** | Not Applicable | | |
| **FOREST CLEARANCE** | Wild life Clearance obtained date 07.06.2016 | | |

| UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED ) | | | | | |
|---|---|---|---|---|---|
| Sl. | MILESTONE | UNIT-01 | | UNIT-02 | |
| | | Original Date of Completion | Actual/Anticipated Date of Completion | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | 11-Mar-18 | 15-Feb-19 | 16-Jun-18 | 21-Feb-19 |
| 2 | START OF BOILER ERECTION | 22-Apr-18 | 28-May-18 | 22-Aug-18 | 21-Jan-19 |
| 3 | BOILER DRUM LIFTING | N/A | N/A | N/A | N/A |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | 21-Sep-18 | 07-Mar-19 | 21-Jan-19 | 10-Nov-19 |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | 22-Sep-19 | 27-Sep-20 | 23-Jan-20 | 30-Oct-21 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | 22-Sep-19 | 27-Sep-20 | 23-Jan-20 | 30-Oct-21 |
| 7 | BOILER LIGHT UP | 21-Apr-20 | 31-Dec-21 | 19-Aug-20 | Jun-22 |
| 8 | CHEMICAL CLEANING COMPLETION | 25-Mar-20 | 15-Dec-21 | 25-Jul-20 | Jun-22 |
| 9 | STEAM BLOWING START | 22-May-20 | 07-Jan-22 | 19-Sep-20 | Jul-22 |
| 10 | STEAM BLOWING COMPLETION | 22-Jun-20 | 07-Feb-22 | 19-Oct-20 | Aug-22 |
| 11 | HP PIPING ERECTION START | 12-Jan-19 | 01-Mar-20 | 22-May-19 | 01-Feb-21 |
| 12 | HP PIPING ERECTION COMPLETION | 20-Mar-20 | 16-Dec-21 | 20-Jul-20 | Jun-22 |
| 13 | CONDENSER ERECTION START | 23-Nov-18 | 17-Aug-20 | 23-Mar-19 | 15-Sep-21 |
| 14 | TG ERECTION START | 22-Jan-19 | 02-Nov-20 | 23-May-19 | 14-Oct-21 |
| 15 | TG BOX UP | 22-Feb-20 | 30-Sep-21 | 20-Jun-20 | 31-Mar-22 |
| 16 | START OF OIL FLUSHING | 23-Feb-20 | 01-Oct-21 | 21-Jun-20 | 01-Apr-22 |
| 17 | ROLLING & SYNC. | 30-Jul-20 | 31-Mar-22 | 27-Nov-20 | 30-Sep-22 |
| 18 | FULL LOAD | 01-Sep-20 | 01-May-22 | 31-Dec-20 | 01-Nov-22 |
| 19 | TRIAL RUN | 21-Dec-20 | 21-Jul-22 | 21-Apr-21 | 21-Jan-23 |
| 20 | COD | 21-Dec-20 | 21-Jul-22 | 21-Apr-21 | 21-Jan-23 |
| 21 | PG TEST START AND COMPLETION | 21-Jun-21 | 21-Jan-23 | 21-Oct-21 | 21-Jul-23 |

| MAIN PLANT PACKAGE | | | | |
|---|---|---|---|---|
| Sl. | Packages | AREA | UNIT-01 | UNIT-02 |
| 1 | BOILER | Percentage Completion | 84% | 53% |
| 2 | TG | Percentage Completion | 67% | 24.00% |
| 3 | ESP | Percentage Completion | 72% | 24% |
| 4 | FGD | CIVIL WORKS<br>MATERIAL SUPPLY<br>ERECTION WORK | 48%<br>-<br>14% | 42%<br>-<br>0% |

| STATUS OF BOPs (DPSI-EPC) | | | | |
|---|---|---|---|---|
| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency (EPC-BHEL) | UNIT-01 (Percentage Completion) | UNIT-02 (Percentage Completion) |
| 1 | Chimney | M/s.Simplex | 79% | |
| 2 | Coal Handling Plant | KCC (Conveyor package) | 27% | |
| | | Aneja (Wagon Tripler) | 63% | |
| | | Aneja (Stacker Reclaimer) | 78% | |
| 3 | Ash Handling Plant | AKC, PNC | 35% | |
| 4 | Fuel Oil System | AKC, Sangha, Singrauli, Jiwala | 52% | |
| 5 | Cooling Towers | PCTL | 39% | 33% |
| 6 | CW Pump house & Piping | GDCL | 61% | |
| 7 | PT Plant | Rajpati Vishwakarma, Sahil Kumar, KNIL, IEIL | 49% | |
| 8 | DM Plant | Rajpati Vishwakarma, Sahil Kumar, KNIL, IEIL | 79% | |
| 9 | Air Compressor | GDCL | 46% | |
| 10 | Fire Protection System | Lloyd | 10% | |
| 11 | Switch Yard | KNIL , GDCL, GET&D | 83% | |
| 12 | Station Transformers | GDCL. GET&D | 95% | |
| 13 | Unit Transformers | GDCL, GET&D | 71% | |
| 14 | Railway siding | DPSI | | |
| 15 | Power Evacuation | GET&D | | |

**REASONS OF DELAY**:
NLTH Analysis, Steel Price Hike, Dispute between DPSI and its sub-vendors, Covid-19 I & II wave.

**CRITICAL AREAS:** NIL

## Jawaharpur Super Thermal Power Station (2X660 MW)

**As on 31.07.2021**

**STATE SECTOR**

| | | | | |
|---|---|---|---|---|
| **Developer-** UPRVUNL | **Zero Date:** 22.12.2016 | **Main Plant Vendor-**M/S Doosan Power Systems India | **Original/Actual Trial Run UNIT-01** | 12/2020 / 04/2023 |
| | | | **Original/Expected Trial Run UNIT-02** | 04/2021 / 09/2023 |
| **ADDRESS** : - Jawaharpur STPS, Malawan, Etah, UP - 207001 | | | **E-GEN PORTAL REGISTRATION STATUS- YES/NO- No** | |

| **CLEARANCES AND STATIC DATA** | | **FINANCIAL DATA (in Crore)** | |
|---|---|---|---|
| **FUEL TYPE** | Coal | **ORIGINAL ESTIMATED COST OF THE PROJECT** | 8078.56 |
| **COAL COMBUSTION TECHNOLOGY** | Ultra Super Critical | **LATEST ESTIMATED COST** | 10566.27 |
| **APPROVAL DATE/NOTICE TO PROCEED (NTP)** | Approval of DPR and Intial project cost by U.P.Government of DPR Vide letter dated 04.09.2015 | **DATE OF FINANCIAL CLOSURE** | No Records Available |
| **ZERO DATE:** | 22.12.2016- date of Award to EPC Contractor M/s Doosan Power Systems India Power Limited - scope including BTG,BOP | **EXP. DURING 2016-17** | 445.21 |
| **PPA** | Details of PPA signed or under process whichever is applicable with defining share % if any. | **EXP. DURING 2017-18** | 400.26 |
| **COAL LINKAGE/FSA** | Coal mine -Shaharpur JamarPani also Bridge Linkage from Coal Ministry allocated | **EXP. DURING 2018-19** | 844.96 |
| **START UP POWER AGREEMENT** | for 220 KV signed with UPPTCL | **EXP. DURING 2019-20** | 2295.94 |
| **POWER EVACUATION SYSTEM** | 765 KV / 400 KV / 220 KV GIS | EXP. DURING 2020-21 | 2034.08 |
| **LAND POSSESSION** | 765 Acre land for Power House under Possess | EXP. OF CURRENT MONTH ( July 2021) | 211.06 |
| **WATER ALLOCATION** | Lower Ganaga Canal - 38 cusec | **TOTAL EXPENDITURE (UPTO DATE 31.07.2021 )** | 6808.86 |
| **MOEF CLEARANCE** | MOEF clearance granted in 63rd Meeting of the reconstituted EAC (Thermal Power) was held on 29th & 30thAugust, 2016 | | |
| **CIVIL AVIATION CLEARANCE** | Chimney clearane from AAI vide letter dated 12.06.15. | | |
| **CPCB CLEARANCE** | | | |
| **SPCB CLEARANCE** | | | |
| **FOREST CLEARANCE** | | | |

| UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED ) | | | | | |
|---|---|---|---|---|---|
| Sl. | MILESTONE | UNIT-01 | | UNIT-02 | |
| | | Original Date of Completion | Actual/Anticipated Date of Completion | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | 31.12.2017 | 05.03.2019 | 03.05.2018 | 29.05.2019 |
| 2 | START OF BOILER ERECTION | 22.04.2018 | 20.08.2018 | 22.08.2018 | 20.11.2018 |
| 3 | BOILER DRUM LIFTING | NA | | | |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | 06.09.2018 | 14.06.2019 | 06.01.2019 | 14.11.2019 |
| 5 | BOILER HYDRO TEST (DRAINABLE ) COMPLETION | 21.09.2019 | 10.11.2020 | 21.01.2020 | 16.01.2022 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | | | | |
| 7 | BOILER LIGHT UP | 26.04.2020 | 26.12.2021 | 23.08.2020 | 23.10.2022 |
| 8 | CHEMICAL CLEANING | 15.03.2020 | 15.12.2021 | 13.07.2020 | 15.09.2022 |
| 9 | STEAM BLOWING START | 26.05.2020 | 26.01.2022 | 21.09.2020 | Mar'2023 |
| 10 | STEAM BLOWING COMPLETION | 21.06.2020 | 21.02.2022 | 21.10.2020 | Apr'2023 |
| 11 | HP PIPING ERECTION START | 18.02.2019 | 01.11.2019 | 22.06.2019 | 15.02.2021 |
| 12 | HP PIPING ERECTION COMPLETION | 23.08.2019 | Dec'2021 | 23.12.2019 | Mar'2022 |
| 13 | CONDENSER ERECTION START | 22.01.2019 | 16.09.2020 | 22.05.2019 | 31.09.2021 |
| 14 | TG ERECTION START | 22.01.2019 | 23.11.2020 | 22.05.2019 | 30.11.2021 |
| 15 | TG BOX UP | 22.02.2020 | May'2022 | 20.06.2020 | Dec'2022 |
| 16 | START OF OIL FLUSHING | 23.02.2020 | May'2022 | 21.06.2020 | Dec'2022 |
| 17 | ROLLING & SYNC. | 21.08.2020 | Dec'2022 | 21.12.2020 | Jun'2023 |
| 18 | FULL LOAD | 01.09.2020 | Jan'2023 | 01.01.2021 | Jun'2023 |
| 19 | TRIAL RUN | 20.12.2020 | Apr'2023 | 20.04.2021 | Sept'2023 |
| 20 | COD | 21.12.2020 | Apr'2023 | 21.04.2021 | Sept'2023 |
| 21 | PG TEST START AND COMPLETION | 21.06.2021 | Oct'2023 | 21.10.2021 | Mar'2024 |

| MAIN PLANT PACKAGE (BTG VENDOR): M/S DPSI | | | | |
|---|---|---|---|---|
| Sl. | Packages | AREA | UNIT-01 (Percentage Completion) | UNIT-02 (Percentage Completion) |
| 1 | BOILER | CIVIL<br>STRUCTURE<br>PRESSURE PARTS | 100%<br>84%<br>100% | 100%<br>67%<br>98% |
| 2 | TG | CIVIL<br>STRUCTURE | 100%<br>98% | 84%<br>69% |
| 3 | ESP | UNDER PROGRESS | 48% | 9% |
| 4 | FGD | CIVIL WORK<br>MATERIAL SUPPLY<br>ERECTION WORK | 100%<br>78%<br>11% | 95%<br>77%<br>1.3% |

| STATUS OF BOPs (DPSI-EPC) | | | | |
|---|---|---|---|---|
| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency (EPC-BHEL) | UNIT-01 (Percentage Completion) | UNIT-02 (Percentage Completion) |
| 1 | Chimney | Simplex | 52% | |
| 2 | Coal Handling Plant | tkII/ NeoStructo(Conveyor package) | 84% | |
| | | tkII/ NeoStructo (Wagon Tripler) | 90% | |
| | | tkII/ NeoStructo (Stacker Reclaimer) | 78% | |
| 3 | Ash Handling Plant | Main vendor/subcontractor | 68% | |
| 4 | Fuel Oil System | Main vendor/ | 44% | |
| 5 | Cooling Towers | Paharpur | 73% | 61% |
| 6 | CW Pump house & Piping | DPSI/ Jyoti | 79% | |
| 7 | PT Plant | Civil : Tecknow | 99% | |
| 8 | DM Plant | EPC : Ion Exchange | 47% | |
| 9 | Air Compressor | Atlas / Jyoti | 38% | |
| 10 | Fire Protection System | Lloyd | 64% | |
| 11 | Switch Yard | GE T&D | 74% | |
| 12 | Station Transformers | Zagson | 50% | |
| 13 | Unit Transformers | Zagson | 39% | |
| 14 | Railway siding | NA | | |
| 15 | Power Evacuation | DPSI | | |

**REASONS OF DELAY**:
Due to 2nd wave of Covid-19, supply of materials/equipments from other states (esp. Maharashtra) was delayed.
All sub-contractors reduced manpower at the Jawaharpur site due to Covid-19.
Due to restricted supply of Oxygen, steel structure works were kept on hold.
Currently man power has been increased by the EPC Contarctor, as Covid-19 cases reduced. However, full pace of work should be achieved after Monsoon season.

**CRITICAL AREAS:** Nil

## Panki Thermal Power Project (1X660MW)

**As on 31.07.2021**
**STATE SECTOR**

| Developer-UPRVUNL | Zero Date: 31.03.2018 | Main Plant Vendor-M/s BHEL | Original/Anticipated Trial RunUNIT-01 | 09/2021 / 11/2022 |
|---|---|---|---|---|
| **ADDRESS** : -Panki TPP, Distt. Kanpur UP, 208020 | | | **E-GEN PORTAL:** REGISTRATION STATUS- 1200001768 | |

| **CLEARANCES AND STATIC DATA** | | **FINANCIAL DATA (in Crore)** | |
|---|---|---|---|
| **FUEL TYPE** | Coal | **ORIGINAL ESTIMATED COST OF THE PROJECT** | INR 5816.70 Crore ,Approvaldate 20.03.2018 |
| **COAL COMBUSTION TECHNOLOGY** | Supercritical | **LATEST ESTIMATED COST** | Not Applicable |
| **APPROVAL DATE/NOTICE TO PROCEED (NTP)** | 20.03.2018 | **DATE OF FINANCIAL CLOSURE** | 22.06.2018 |
| **ZERO DATE:** | 31.03.2018 | | |
| **PPA** | Signed on 17.01.2017 | **EXP. DURING 2018-19** | 543.29 |
| **COAL LINKAGE/FSA** | FSA on 30.01.2017 | **EXP. DURING 2019-20** | 837.26 |
| **START UP POWER AGREEMENT** | 20.10.2020 | **EXP. DURING 2020-21** | 1131.48 |
| **POWER EVACUATION SYSTEM** | UPPTCL | **EXP. OF CURRENT MONTH Jul-21** | 11.18 |
| **LAND POSSESSION** | It is extension project.Hence Land is available | **TOTAL EXPENDITURE (UPTO DATE 31.07.2021)** | 2848.44 |
| **WATER ALLOCATION** | Lower Ganga Canal and Tertiary Treatment Plant, Bingawan (Kanpur) | | |
| **MOEF CLEARANCE** | Clearance obtained vide letter no. J-13012/35/2013-IA-I(T) dated :- 29.06.2017 | | |
| **CIVIL AVIATION CLEARANCE** | Clearance obtained vide letter no. AAI/NOC/2012/453/104-106 dated:- 18.01.2013 | | |
| **CPCB CLEARANCE** | MOEF clearance obtained on 29.06.2017 | | |
| **SPCB CLEARANCE** | Clearance obtained vide letter no. 24271/UPPCB/Kanpur Nagar(UPPCBRO)/CTE/Kanpur Nagar/2018 dated : 25.06.2018 | | |
| **FOREST CLEARANCE** | Clearance obtained vide letter no. 484/14-1 dated:- 11.08.2015 | | |

| UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL /ANTICIPATED ) | | | |
|---|---|---|---|
| Sl. | MILESTONE | UNIT-01 | |
| | | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | 29.04.2019 | 13.01.2020 |
| 2 | START OF BOILER ERECTION | 30.04.2019 | 24.04.2019 |
| 3 | BOILER DRUM LIFTING | NA | NA |
| 4 | BOILER CEILING GIRDERLIFTING COMPLETION | 20.11.2019 | 23.02.2020 |
| 5 | BOILER HYDRO TEST(DRAINABLE) COMPLETION | 30.09.2020 | 30.09.2021 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | 22.02.2021 | 15.03.2022 |
| 7 | BOILER LIGHT UP | 28.02.2021 | 31.03.2022 |
| 8 | CHEMICAL CLEANING COMPLETION | 10.03.2021 | 30.04.2022 |
| 9 | STEAM BLOWING START | 09.04.2021 | 20.04.2022 |
| 10 | STEAM BLOWING COMPLETION | 30.04.2021 | 20.05.2022 |
| 11 | HP PIPING ERECTION START | 03.11.2019 | 09.11.2022 |
| 12 | HP PIPING ERECTION COMPLETION | 29.08.2020 | 30.04.2022 |
| 13 | CONDENSER ERECTION START | 30.04.2020 | 20.08.2021 |
| 14 | TG ERECTION START | 30.04.2020 | 01.09.2021 |
| 15 | TG BOX UP | 31.01.2021 | 31.08.2022 |
| 16 | START OF OIL FLUSHING | 30.01.2021 | 01.09.2022 |
| 17 | ROLLING & SYNC. | 31.05.2021 | 20.10.2022 |
| 18 | FULL LOAD | 30.06.2021 | 20.11.2022 |
| 19 | TRIAL RUN | 30.09.2021 | 20.11.2022 |
| 20 | COD | | |
| 21 | PG TEST START ANDCOMPLETION | | |

| MAIN PLANT PACKAGE (BTG VENDOR): M/s BHEL | | | |
|---|---|---|---|
| Sl. | Packages | UNIT-01 | % Completion |
| 1 | BOILER | Civil works<br>Structural worksPressure Parts | 90%<br>62%<br>83% |
| 2 | TG | Civil works<br>Structural works<br>TG Aux | 57%<br>67%<br>NIL |
| 3 | ESP | Pass status | 70% |
| 4 | FGD | CIVIL work<br>Material Suppy<br>Erection | 43.88%<br>NIL<br>NIL |

| STATUS OF BOPs | | | |
|---|---|---|---|
| Sl. | Packages/ Linked ProjectMilestones | Vendor/Contracting Agency | % Completion |
| 1 | Chimney | Bygging | 84% |
| 2 | Coal HandlingPlant | Thyseen Krupp &RVPR (ConveyorPackage) | 12% |
| | | Thyseen Krupp & RVPR (Wagon Tripler) | 85% |
| | | Thyseen Krupp & | 60% |
| 3 | Ash Handling Plant | Indure/ Kanwar | 64% |
| 4 | Fuel Oil System | GMW/ Simplex | |
| 5 | Cooling Towers | Paharpur | 12.5% |
| 6 | CW Pump house & Piping | MHI/ Simplex | 69% |
| 7 | PT Plant | GDCL | 41% |
| 8 | DM Plant | BGR & Simplex | 90% |
| 9 | Air Compressor | ATLAS COPCO | 67% |
| 10 | Fire Protection System | BHEL | 91% |
| 11 | Switch Yard | JSPPL | 88% |
| 12 | Station Transformers | BHEL | |
| 13 | Unit Transformers | BHEL | Nil |
| 14 | Railway siding | RITES | 25% |
| 15 | Power Evacuation | UPTL | |

**REASONS OF DELAY** :

1. Due to COVID 19 outbreak and its consequences.

**CRITICAL AREAS:** NIL

# WESTERN REGION

# BHUSAWAL SUPERCRITICAL TPP (1X660 MW)

**As on 31.07.2021**

**STATE SECTOR**

| **Developer-** MAHAGENCO | **Zero Date:** Jan'2018 | **Main Plant Vendor-**M/S BHEL (EPC Contract-17.01.2018) | **Original/Anticipated Trial Run UNIT-06** | May'2022/ Nov 2022 |
|---|---|---|---|---|
| **ADDRESS** : - Village Pimpari Sekam, Tal Bhusawal, Dist Jalgaon, Maharashtra, 425307 | | | **E-GEN PORTAL:** REGISTRATION STATUS- NO, | |

| **CLEARANCES AND STATIC DATA** | | **FINANCIAL DATA (in Crore)** | |
|---|---|---|---|
| **FUEL TYPE** | Coal | **ORIGINAL ESTIMATED COST OF THE PROJECT** | Rs. 4548 Crs. dated 22/07/2011 |
| **COAL COMBUSTION TECHNOLOGY** | Supercritical | **LATEST ESTIMATED COST** | Rs. 4550.97 Crs. Dated 31/12/2018 |
| **APPROVAL DATE/NOTICE TO PROCEED (NTP)** | 25-09-2009 | **DATE OF FINANCIAL CLOSURE** | NA |
| **ZERO DATE:** | 17.01.2018 | **Exp. during 2018-19** | 59.41 Cr |
| **PPA** | Long Term Power Purchase Agreement dated 24.12.2010 with Maharashtra state Electricity Distribution Co. ltd for 100% of installed capacity | **Exp. during 2019-20** | 584.06 Cr |
| **COAL LINKAGE/FSA** | Allocation Date: 11/09/2020,Source:WCL/SECL/MCL mines ,Grade: E/F Quantity : 318 MTPA | **Exp. during 2020-21** | 2025.32 Cr |
| **START UP POWER AGREEMENT** | Maharashtra State Electricity Transmission Company Limited (MSETCL) vide letter no MSETCL/CO/STU/302 B/B_GC/No. 12757, dated 06/12/2018 approved Grid connectivity, which is valid till 06.06.2021. Letter regarding extension up to Dec-2022, is sent to STU, MSETCL on 07.05.2021. | **Exp. Of Jul'21** | 66.95 |
| **POWER EVACUATION SYSTEM** | Maharashtra State Electricity Transmission Company Limited (MSETCL) has started the work of 400 KV Switch yard | **TOTAL EXPENDITURE (UPTO 31.07.21 )** | 2273.01 |
| **LAND POSSESSION** | Total Land Required: 120.39 Hectare<br>Total land acquired: 118.415 Hectare<br>Total land in use: 118.415 Hectare | | |
| **WATER ALLOCATION** | Source: - Tapi River<br>Quantity: - 18.85 MM3 Per Annum | | |
| **MOEF CLEARANCE** | Clearance obtained date from concerned authority: 27/11/2012<br>validity : 26/11/2022 | | |
| **CIVIL AVIATION CLEARANCE** | Clearance obtained date from concerned authority: 27/08/2008<br>validity : 23/02/2022 | | |
| **CPCB CLEARANCE** | Not Applicable | | |
| **SPCB CLEARANCE** | Clearance obtained date from concerned authority: 10/06/2020<br>validity : The consent to establish is granted for period up to commissioning of the unit or up to 5 years whichever is earlier. | | |
| **FOREST CLEARANCE** | Clearance obtained date from concerned authority: 14/01/2020 validity : 26/11/2022. | | |

| UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED ) | | | |
|---|---|---|---|
| Sl. | MILESTONE | UNIT-06 | |
| | | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | 25.11.2019 | 15.11.2019 |
| 2 | START OF BOILER ERECTION | 30.11.2019 | 22.11.2019 |
| 3 | BOILER DRUM LIFTING | NA | NA |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | 30.06.2020 | 20.01.2021 |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | 31.05.2021 | Nov 2021 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | 10.11.2021 | May 2022 |
| 7 | BOILER LIGHT UP | 30.11.2021 | May 2022 |
| 8 | CHEMICAL CLEANING COMPLETION | 20.12.2021 | June 2022 |
| 9 | STEAM BLOWING START | 24.01.2022 | July 2022 |
| 10 | STEAM BLOWING COMPLETION | 19.02.2022 | Aug 2022 |
| 11 | HP PIPING ERECTION START | 11.05.2021 | Nov 2021 |
| 12 | HP PIPING ERECTION COMPLETION | 25.04.2022 | Oct'2022 |
| 13 | CONDENSER ERECTION START | 31.10.2020 | 15.03.2021 (A) |
| 14 | TG ERECTION START | 30.11.2020 | July 2021 |
| 15 | TG BOX UP | 30.11.2021 | July 2022 |
| 16 | START OF OIL FLUSHING | 04.12.2021 | Aug 2022 |
| 17 | ROLLING & SYNC. | 31.03.2022 | Sept 2022 |
| 18 | FULL LOAD | 30.04.2022 | Oct 2022 |
| 19 | TRIAL RUN | 31.05.2022 | Nov 2022 |
| 20 | COD | 30.06.2022 | Dec 2022 |
| 21 | PG TEST START AND COMPLETION | 30.06.2022 | Dec-22 |

| MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL (17.01.2018) | | | |
|---|---|---|---|
| Sl. | Packages | UNIT | % Completion |
| 1 | BOILER | UNIT-06 | 57% |
| 2 | TG | UNIT-06 | 55% |
| 3 | ESP | UNIT-06 | 52% |
| 4 | FGD | UNIT-06 | 34% |

## STATUS OF BOPs

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency (EPC- BHEL) | % Completion |
|---|---|---|---|
| 1 | Chimney | M/s Powermech | 46% |
| 2 | Coal Handling Plant | M/s BJCL & Macawber Beekay Pvt Ltd.(Conveyor package) | 62% |
| | | M/s BJCL& Promac (Wagon tippler) | 19% |
| | | M/s BJCL& Promac(Stacker Reclaimer) | 46% |
| 3 | Ash Handling Plant | M/s BJCL & Macawber Beekay Pvt Ltd. | 31% |
| 4 | Fuel Oil System | M/s. New Fire Engineers Pvt Ltd. | 54% |
| 5 | Cooling Towers | M/s Hayagrev civil engineering Pvt Ltd | 41% |
| 6 | CW Pump house & Piping | M/s Alpha power engineering services Pvt Ltd,G&J Pvt Ltd. | 67% |
| 7 | PT Plant | M/s Clear Water company | 9% |
| 8 | DM Plant | M/s Wipro Enterprises Pvt Ltd | 47% |
| 9 | Air Compressor | M/s Elgi equipment Ltd. | 30% |
| 10 | Fire Protection System | M/s Alpha power engineering services Pvt Ltd | 30% |
| 11 | Switch Yard | M/s BNC Power Projects Ltd | 0 |
| 12 | Station Transformers | M/s BHEL | 44% |
| 13 | Unit Transformers | M/s BHEL | 44% |
| 14 | Railway siding | ISC Projects | 2% |
| 15 | Power Evacuation | MSETCL/BNC Power Projects | 0 |

**REASONS OF DELAY** :
Anticipated dates are provided considering delay of 6 months due to Covid-19 impact.

**CRITICAL AREAS:** NIL

# SOUTHERN REGION

## SRI DAMODARAM SANJIVAIAH TPS, STAGE-II (1X800 MW)

**As on 31.07.2021**

**STATE SECTOR**

| **Developer** APPDCL (JV of APGENCO & ILFS) | **Zero Date:** 02.11.2015 | **Main Plant Vendor-** BTG order placed on BHEL on 02.11.15 | **Original/ Anticipated Trial RunUNIT-01** | June 2019/ Aug 2021 |
|---|---|---|---|---|
| **ADDRESS** : - Nelatur (Village), near Krishnapatnam, Muthukuru (Mandal), SPSR Nellore (District) Andhra Pradesh – 524 347 | | | **E-GEN PORTAL:** REGISTRATIONSTATUS- YES, Reg No: U-01:1200001078 | |

| **CLEARANCES AND STATIC DATA** | | **FINANCIAL DATA (in Crore)** | |
|---|---|---|---|
| **FUEL TYPE** | Domestic Coal | **ORIGINAL ESTIMATED COST OF THE PROJECT** | 4276.03 |
| **COAL COMBUSTION TECHNOLOGY** | Supercritical | **LATESTESTIMATED COST** | 7922.72 |
| **APPROVAL DATE/NOTICE TO PROCEED (NTP)** | 16-Feb-13 | **DATE OF FINANCIAL CLOSURE** | 17.09.2014 |
| **ZERO DATE:** | 02.11.2015 | **EXP. DURING 2015-16** | 7.08 |
| **PPA** | PPA entered with APDISCOMS to sell 90%of the declared capacity | **EXP. DURING 2016-17** | 568.03 |
| **COAL LINKAGE/FSA** | M/s Mahanadhi Coal fields limited has Issued LOA to supply 3.548MTPA videletter dated 04-03-2018. | **EXP. DURING 2017-18** | 1664.72 |
| **START UP POWER AGREEMENT** | Fromthe existing Stage-I (2x800MW) Units. | **EXP. DURING 2018-19** | 2886.73 |
| **POWER EVACUATION SYSTEM** | 400KV Grid | **EXP. DURING 2019-20** | 1062.04 |
| **LAND POSSESSION** | 51 Acres of land is used for Stage-II from the available land of 1344.80Acres which is already under possession of APPDCL. No additional land is required for Stage-II (1x800MW) | **EXP. DURING 2020-21** | 885.36 |
| **WATERALLOCATION** | Seawater about 6,556 Cum/Hr | **EXP. OF JUL'21** | 56.79 |
| **MOEF CLEARANCE** | MoEF clearancce obtained on 02-07-2015 for 7 Years | **TOTAL EXPENDITURE (UPTO 31.07.21)** | 7309.08 Cr |
| **CIVIL AVIATION CLEARANCE** | Case No. MM315/2011: AAI/SR/NOC/RHQ, Dt. 25.06.2012 | | |
| **CPCB CLEARANCE** | Same as MOEF Clearance | | |
| **SPCB CLEARANCE** | APPCB/VIJ/NLR/159/CFO/2014-494 DT. 08.05.2014 | | |

## UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED )

| Sl. | MILESTONE | UNIT-01 | |
|---|---|---|---|
| | | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | 17.04.2017 | 27.05.2017 |
| 2 | START OF BOILER ERECTION | 06.04.2017 | 26.06.2017 |
| 3 | BOILER DRUM LIFTING | Not applicable | |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | 06.04.2017 | 04.02.2018 |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | 27.03.2018 | 01.07.2019 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | 16.11.2018 | 18.12.2019 |
| 7 | BOILER LIGHT UP | 11.12.2018 | 31.12.2019 |
| 8 | CHEMICAL CLEANING | 25.12.2018 | 07.12.2020 |
| 9 | STEAM BLOWING START | 27.12.2018 | 20.03.2021 |
| 10 | STEAM BLOWING COMPLETION | 21.01.2019 | 08.06.2021 |
| 11 | HP PIPING ERECTION START | 01.04.2018 | 21.11.2019 |
| 12 | HP PIPING ERECTION COMPLETION | 15.05.2019 | In Progress |
| 13 | CONDENSER ERECTION START | 26.08.2017 | 24.08.2018 |
| 14 | TG ERECTION START | 23.11.2017 | 03.10.2018 |
| 15 | TG BOX UP | 14.11.2018 | 29.02.2020 |
| 16 | START OF OIL FLUSHING | 30.11.2018 | 19.03.2020 |
| 17 | ROLLING & SYNC. | 14.01.2019 | Aug'2021 |
| 18 | FULL LOAD | 14.03.2019 | Aug'2021 |
| 19 | TRIAL RUN | -- | Aug'2021 |
| 20 | COD | 14.06.2019 | Aug'2021 |
| 21 | PG TEST START AND COMPLETION | -- | -- |

## MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL-EQUIPMENT PKG and M/s TATA PROJECTS LTD-CIVIL, STRUCTURE

| Sl. | Packages | UNIT | % Completion |
|---|---|---|---|
| 1 | BOILER | UNIT-01 | 95% |
| 2 | TG | UNIT-01 | 94% |
| 3 | ESP | UNIT-01 | 95% |
| 4 | FGD | UNIT-01 | Tender specification prepared. |

## STATUS OF BOPs

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency | % Completion |
|---|---|---|---|
| 1 | Chimney | TPL / Bygging | 100% |
| 2 | Coal Handling Plant | (Conveyor package) TPL / ISGEC | 88% |
| | | (Wagon tippler) | NOT APPLICABLE |
| | | (Stacker Reclaimer) | |
| 3 | Ash Handling Plant | TPL / MBPL | 84% |
| 4 | Fuel Oil System | TPL / United System | 100% |
| 5 | Cooling Towers | TPL / Hayagrev | 100% |
| 6 | CW Pump house & Piping | TPL / Xylem & DSS | 100% |
| 7 | PT Plant | TPL / BGR | 100% |
| 8 | DM Plant | TPL / BGR | 100% |
| 9 | Air Compressor | TPL / ELGI | 100% |
| 10 | Fire Protection System | TPL / AGNICE | 82% |
| 11 | Switch Yard | TPL / ABB | 100% |
| 12 | Station Transformers | M/s BHEL | 100% |
| 13 | Unit Transformers | M/s BHEL | 80% |
| 14 | Railway siding | NOT APPLICABLE | |
| 15 | Power Evacuation | Generated power will be evacuated with exiting 400kv lines connected to switch yard | Available |

**REASONS OF DELAY**:

1. Delay due to change in boiler design (boiler design changed to imported coal firing to indigenous coal firing) Due to the change in MOEF & CC pollution norms, the Boiler was redesigned which resulted in delay in completion of Boiler foundations and thus Boiler erection was delayed.
2. Due to Covid-19 pandemic all the works are held up at site from the third week of March 2020 due to announcement of Lockdown.
3. Due to Covid-19 pandemic 2nd wave all the works are held up at site from the third week of April 2021 due to unprecedented situations of Covid -19 2nd wave.

**CRITICAL AREA:**

Boiler left side coal bunker house, mills, feeder floor, pipe racks -7 and ash handling system are required to be completed in full shape to achieve the COD of the UNIT. Awaiting for grid connectivity from APTRANSCO.

# Dr. NARLA TATA RAO TPS, STAGE-V (1x 800MW)

**As on 31.07.2021**

**STATE SECTOR**

| **Developer** APGENCO | **Zero Date:**15.12.2015 | **Main Plant Vendor-**M/SBHEL (BTG) | **Original/ Anticipated Trial RunUNIT-08** | Apr'2019/ Oct' 2021 |
|---|---|---|---|---|
| **ADDRESS** : - Ibrahimpatnam (Village & Mandalam), Krishna District, Andhra Pradesh. PIN: 521456 | | | **E-GEN PORTAL:** REGISTRATION STATUS- YES, Reg No: U-08:1200000271 | |
| **CLEARANCES AND STATIC DATA** | | | **FINANCIAL DATA (in Crore)** | |
| **FUEL TYPE** | | Coal | **ORIGINAL ESTIMATED COST OF THE PROJECT** | 6143.88 |
| **COAL COMBUSTION TECHNOLOGY** | | Supercritical | **LATEST ESTIMATED COST** | 7586.67 |
| **APPROVAL DATE/NOTICE TO PROCEED (NTP)** | | Administrative approval accorded on 09.07.2014 | **DATE OF FINANCIAL CLOSURE** | 44500 |
| **ZERO DATE:** | | BTG/BHEL-15.12.2015 and BOP/BGR-06.07.2016 | **EXP. DURING 2015-16** | 6.6 |
| **PPA** | | PPA is available with DISCOMS of erstwhile APGENCO in combined AP. The same is being revised with APDISCOMS. | **EXP. DURING 2016-17** | 422.91 |
| **COAL LINKAGE/FSA** | | MCL issued LOI for supply of 35,48,000 Tonnes/Annum vide lettter dated:12.11.2018. | **EXP. DURING 2017-18** | 2099.15 |
| **START UP POWER AGREEMENT** | | Not Applicable | **EXP. DURING 2018-19** | 1495.18 |
| **POWER EVACUATION SYSTEM** | | Power evacuation with 3 Nos 400KV feeders are ready with extension of existing 400 Kv switch yard of Stage- IV. | **EXP. DURING 2019-20** | 1032 |
| **LAND POSSESSION** | | 85 Acres land is available within plant boundary for Main plant & facilities and green belt. This is extension project being constructed in the available land of Dr. NTTPS Project. | **EXP. DURING 2020-21** | 585 |
| **WATER ALLOCATION** | | Irrigation department vide letter dt:05.03.2015 agreed to supply 25 Cu.Secs water from krishna river upstream of prakasam barrage,Vijayawada. | **EXP. in JUL'21** | 67.54 |
| **MOEF CLEARANCE** | | MoEF issued clearence for imported coal vide letter dated:26.06.2015 and the same was revised vide letter dt:11.04.2019. | **TOTAL EXPENDITURE (UPTO 31.07.21 )** | 6194.17 |
| **CIVIL AVIATION CLEARANCE** | | Aviation clearence was obtained vide letter dated:15.10.2012 | | |
| **CPCB CLEARANCE** | | CPCB clearence is Not Applicable. | | |
| **SPCB CLEARANCE** | | APCB issued consent for establishment vide letter dated:28.09.2015 and the same amended vide letter dt:07.03.2020 | | |
| **FOREST CLEARANCE** | | Forest Clearence is Not applicale. | | |

| UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED ) | | | |
|---|---|---|---|
| Sl. | MILESTONE | UNIT-08 | |
| | | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | 15.11.2016 | 20.06.2017 |
| 2 | START OF BOILER ERECTION | 25.10.2016 | 22.05.2017 |
| 3 | BOILER DRUM LIFTING | NA | NA |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | 06.04.2017 | 27.12.2017 |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | 27.03.2018 | 03.03.2019 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | 16.11.2018 | 24.10.2019 |
| 7 | BOILER LIGHT UP | 15.05.2019 | 28.12.2019 |
| 8 | CHEMICAL CLEANING COMPLETION | 12.12.2018 | 12.03.2020 |
| 9 | STEAM BLOWING START | 27.12.2019 | 05.04.2021 |
| 10 | STEAM BLOWING COMPLETION | 09.02.2019 | 01.06.2021 |
| 11 | HP PIPING ERECTION START | 19.12.2018 | 10.01.2019 |
| 12 | HP PIPING ERECTION COMPLETION | 11.02.2019 | 15.07.2021 |
| 13 | CONDENSER ERECTION START | 23.09.2017 | 22.08.2018 |
| 14 | TG ERECTION START | 23.11.2017 | 03.10.2018 |
| 15 | TG BOX UP | 14.11.2018 | 13.06.2021 |
| 16 | START OF OIL FLUSHING | 30.11.2018 | 18.12.2020 |
| 17 | ROLLING & SYNC. | 08.03.2019<br>14.03.2019 | 22.02.2021 |
| 18 | FULL LOAD | 30.04.2019 | 20.10.2021 |
| 19 | TRIAL RUN | 20.04.2019 | 10.10.2021 |
| 20 | COD | 14.06.2019 | 31.10.2021 |
| 21 | PG TEST START AND COMPLETION | 11.09.2019 | 15.11.2021 |

| MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL (15.12.2015) | | | |
|---|---|---|---|
| Sl. | Packages | UNIT-08 | % Completion |
| 1 | BOILER | Civil works<br>Structural works | 97%<br>89% |
| 2 | TG | Civil works<br>Structural works<br>Pressure Parts | 88.7%<br>95.23%<br>97% |
| 3 | ESP | Pass status | 98% |
| 4 | FGD | Tendering process for installation of FGD is under progress | |

## STATUS OF BOPs

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency | % Completion |
|---|---|---|---|
| 1 | Chimney | M/s BGRESL | 97% |
| 2 | Coal Handling Plant | M/s BGRESL (Conveyor package) | 50% |
| | | M/s BGRESL (Wagon Tripler) | 80% |
| | | M/s BGRESL (Stacker Reclaimer) | 45% |
| 3 | Ash Handling Plant | M/s BGRESL | 37% works completed |
| 4 | Fuel Oil System | M/s BGRESL | 100% |
| 5 | Cooling Towers | M/s BGRESL | 85% |
| 6 | CW Pump house & Piping | M/s BGRESL | 95% |
| 7 | PT Plant | M/s BGRESL | 95% |
| 8 | DM Plant | M/s BGRESL | 95% |
| 9 | Air Compressor | M/s BGRESL | 90% |
| 10 | Fire Protection System | M/s BGRESL | 70% |
| 11 | Switch Yard | M/s BGRESL / M/s Sri Sai Contractors | 95% |
| 12 | Station Transformers | M/s BHEL / M/s KSL Contractors | 100% |
| 13 | Unit Transformers | M/s BHEL / M/s KSL Contractors | 90% |
| 14 | Railway siding | M/s BGRESL | 30% |
| 15 | Power Evacuation | Unit-8 Switchyard is extended from existing switchyard of Unit-7 and Power evacuation is proposed through lines on the existing switchyard. | |

**REASONS OF DELAY**:
Due to change in Boiler design for implementation of revised norms regarding reduction of NOx levels initial delay was occurred and due to COVID-19 pandemic project has been delayed.

**CRITICAL AREA:** Completion of CHP & AHP.

# BHADRADRI TPP (4X270 MW)

**As on 31.07.2021**

**STATE SECTOR**

| | | | | |
|---|---|---|---|---|
| **Developer-** TSGENCO | **Zero** **Date:**21.03.2015 | **Main Plant Vendor-**M/S BHEL (EPC Contract-21.03.2015) | **Original/Actual COD UNIT-01** | March 2017 / 05.06.2020(A) |
| | | | **Original/ Actual COD UNIT-02** | May 2017/07.12.2020(A) |
| | | | **Original/ Actual COD UNIT-03** | July 2017/26.03.21(A) |
| | | | **Original/Anticipated Trial Run UNIT-04** | Sept 2017/ Oct 2021 |
| **ADDRESS** : - Village-Ramanujavaram, Teh-Manuguru, Dist-Bhadradri Kothagudem, Telangana, Pin-507117 | | | **E-GEN PORTAL:** REGISTRATION STATUS- YES, UNIT-01-1200000624 UNIT-02-1200000625 UNIT-03-1200000628 UNIT-04-1200000629 | |

| **CLEARANCES ANDSTATIC DATA** | | **FINANCIAL DATA (in Crore)** | |
|---|---|---|---|
| **FUELTYPE** | Coal | **ORIGINALESTIMATED COST OF THE PROJECT** | Rs. 7290.60 Crores. Administrative approval vide Dt:20.03.2015 |
| **COAL COMBUSTION TECHNOLOGY** | Subcritical | **LATEST ESTIMATED COST** | Rs. 9962.32 Crores .Revised administrative approval vide Dt: 10.08.2020 |
| **APPROVAL DATE/NOTICE TO PROCEED (NTP)** | PROJECT APPROVED DATE (LOI) ON 21.03.2015. | **DATE OF FINANCIAL CLOSURE** | M/s Power Finance Corporation Ltd vide Letter dated- 03.06.2015 |
| **ZERO DATE:** | Awarded on EPC Basis to M/s BHEL on 21.03.2015 | **Exp. during 2014-15** | 59.71 |
| **PPA** | PPA entered on 17.09.2019 with TSDISCOMS | **Exp. during 2015-16** | 256.54 |
| **COAL LINKAGE/FSA** | Ministry of Coal vide file No.23014/1/2018-CLD date :15.02.2018,has granted coal linkage from M/s SCCL Grade: G9/G10, for supply of 4.2MTPA | **Exp. during 2016-17** | 635.91 |
| **START UP POWER AGREEMENT** | TSDISCOMS will provide electrical energy to TSGENCO for construction and start-up. | **Exp. during 2017-18** | 1085.61 |
| **POWER EVACUATION SYSTEM** | 400KV Julurupadu Transmission Line-1 & Line-2 | **Exp. during 2018-19** | 2512.23 |
| **LAND POSSESSION** | Total Land acquired and using : Acs 1186 - 11 Gts<br>Totalland to be acquired : Acs 184 - 34 Gts<br>Total land Required : Acs 1370 - 45 Gts | **Exp. during 2019-20** | 1759.27 |
| **WATER ALLOCATION** | State Govt. has allotted for drawl of 1.4 TMC of water per year @ 45 cusec from Godavari river vide G.O.Ms.No. 03, dt-07.01.2015 | **Exp. during 2020-21** | 1066.95 |
| **MOEF CLEARANCE** | Environmental Clearance obtained from MoEF & CC vide Lr.No.J-13012/02/2015-IA.I(T),dated.15.03.2017 with a validity of 7 years from the date of issue. | **Exp. Of Jul'21** | 66.18 |
| **CIVIL AVIATION CLEARANCE** | Civil Aviation cleared NOC issued by AAI vide Lr.No.AAI/SR/NOC/RHQ, Dt:11.12.2015 and it is valid for 07 years from date of issued | **TOTALEXPENDITURE (UPTO 31.07.21 )** | **7544.26** |
| **CPCB CLEARANCE** | Not Applicable | | |
| **SPCB CLEARANCE** | Order no.59/TSPCB/CFE/RO-KGM/HO/2017-3680, Dt: 30.03.2017 | | |
| **FOREST CLEARANCE** | An extent of 25.8435 Ha of forest land required for construction of new railway line from Manuguru railway station to BTPS Project for transportation of coal from Singarani Mines is involved. In this regard MOEF/Chennai has accorded stage-I clearence vide Lr. F.No.4-TSC164/2019-CHN/0182, Dt: 04.02.2020. Further, compliance reported for the condition stipulated in the Stage-I were submitted to principal chief conservator of FOHS vide Lr. CE/C/Thermal/SE/C/TCD-II/F.Forest land/D.No. 170/21, Dt: 28.01.2020 for according stage-II clearance (final approval) Also PCCF accorded working permission vide RC. No. 6727/2018/FCA-4, Dt: 08.03.2021 for taking up of Railway line construction.Work in progress. | | |

| UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED ) | | | |
|---|---|---|---|
| Sl. | MILESTONE | UNIT-04 | |
| | | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | 18.04.2016 | 15.02.2018 |
| 2 | START OF BOILER ERECTION | 19.04.2016 | 03.08.2018 |
| 3 | BOILER DRUM LIFTING | 20.07.2016 | 21.08.2018 |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | 10.08.2018 | |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | 19.02.2017 | 16.02.2020 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | 19.02.2017 | 03.04.2021 |
| 7 | BOILER LIGHT UP | 19.05.2017 | 16.04.2021 |
| 8 | CHEMICAL CLEANING COMPLETION | 19.06.2017 | Jun'21 |
| 9 | STEAM BLOWING START | 03.07.2017 | Aug'21 |
| 10 | STEAM BLOWING COMPLETION | 19.07.2017 | Aug'21 |
| 11 | HP PIPING ERECTION START | 08.06.2019 | |
| 12 | HP PIPING ERECTION COMPLETION | July'21 | |
| 13 | CONDENSER ERECTION START | 20.10.2016 | 24.12.2019 |
| 14 | TG ERECTION START | 20.10.2016 | 17.12.2019 |
| 15 | TG BOX UP | 19.07.2017 | 29.01.2021 |
| 16 | START OF OIL FLUSHING | 19.07.2017 | 30.01.2021 |
| 17 | ROLLING & SYNC. | 18.08.2017 | Sept'2021 |
| 18 | FULL LOAD | 04.09.2017 | Sept'2021 |
| 19 | TRIAL RUN | 17.09.2017 | Oct-21 |
| 20 | COD | 20.09.2017 | Oct-21 |
| 21 | PG TEST START AND COMPLETION | 11.12.2018 | Nov-21 |

| MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL (21.03.2015) | | | |
|---|---|---|---|
| Sl. | Packages | UNIT | % Completion |
| 1 | BOILER | UNIT-04 | 82% |
| 2 | TG | UNIT-04 | 98% |
| 3 | ESP | UNIT-04 | 80% |
| 4 | FGD | ENGINEERING IN PROGRESS | |

## STATUS OF BOPs

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency (EPC- BHEL) | % Completion |
|---|---|---|---|
| 1 | Chimney | M/s Shree Vijya | 85% |
| 2 | Coal Handling Plant | M/s Macawber (Conveyor package) | 65% |
| | | TRF (Wagon Tripler) | 20% |
| | | TRF (Stacker Reclaimer) | 75% |
| 3 | Ash Handling Plant | M/s Macawber | 75% |
| 4 | Fuel Oil System | M/s GMW Eng. | 100% |
| 5 | Cooling Towers | M/s Paharpur Cooling towers | 100% |
| 6 | CW Pump house & Piping | M/s RVPR & M/s G&J | 100% |
| 7 | PT Plant | M/s Clear Water System | 100% |
| 8 | DM Plant | M/s ION Exchange | 100% |
| 9 | Air Compressor | M/s ATLAS COPCO | 100% |
| 10 | Fire Protection System | BHEL | 85% |
| 11 | Switch Yard | M/s Sreeco, PRV | 100% |
| 12 | Station Transformers | M/s PRV | 100% |
| 13 | Unit Transformers | M/s PRV | 75% |
| 14 | Railway siding | | 9% |
| 15 | Power Evacuation | M/s PRV | 100% |

**Reasons of Delay:**
All the work of BTPS was suspended due to Environmental Clearance from NGT for 15months
Due to monsoon, the works were affected severely during rain seasons from FY 2017 to 2020 as the BTPS manguru area is prone to heavy rain
Work is affected due to Covid -19 pandemic

**CRITICAL AREAS**: NIL

# YADADRI TPS (5x800 MW)

**As on 31.07.2021**

**STATE SECTOR**

| | | | | |
|---|---|---|---|---|
| **Developer-** TSGENCO | **Zero Date:** 17.10.2017 | **Main Plant Vendor- BHEL (EPC)** | **Original/ Anticipated Trial RunUNIT-01** | Oct' 20/Feb 23 |
| | | | **Original/ Anticipated Trial RunUNIT-02** | Oct' 20/March 23 |
| | | | **Original/ Anticipated Trial RunUNIT-03** | Jun' 21/April 23 |
| | | | **Original/ Anticipated Trial RunUNIT-04** | Jun' 21/May 23 |
| | | | **Original/ Anticipated Trial Run UNIT-05** | Oct' 21/June 23 |
| **ADDRESS** : -Veerlapalem village, Damercharla Mandal,Nalgonda, Telangana -508208 | | | **E-GEN PORTAL:** UNIT 01-1200001092, UNIT 02-1200001093, UNIT 03-1200001094, UNIT 04-1200001095, UNIT 05-1200001096 | |

| **CLEARANCES AND STATIC DATA** | | **FINANCIAL DATA (in Crore)** | |
|---|---|---|---|
| **FUEL TYPE** | Coal | **ORIGINAL ESTIMATED COST OF THE PROJECT** | Rs.25,099.42 Crores. Administrative approval vide 29.08.2015 |
| **COAL COMBUSTION TECHNOLOGY** | Supercritical | **LATEST ESTIMATED COST** | Rs.29,965.48 Crores .Revised administrative approval vide Dt: 23.12.2017 |
| **APPROVAL DATE/NOTICE TO PROCEED (NTP)** | 04.10.2014 (MoU entered with BHEL) | **DATE OF FINANCIAL CLOSURE** | M/s REC Ltd vide Lr dt 11-08-2015.<br>M/s PFC Ltd vide Lr dt 19-07-2015. |
| **ZERO DATE:** | LOI was issued to M/s BHEL on EPC (BTG & BOP) basis on 01.06.2015 . Revised LOI issued on Dt:17.10.2017 for considering new norms & impact of GST with zero date as 17.10.2017. | **EXP. DURING 2015-16** | 499.46 |
| **PPA** | Power purchase Agreement entered on 11.03.2020 with TSDISCOMS | **EXP. DURING 2016-17** | 59.29 |
| **COAL LINKAGE/FSA** | Ministry of Coal vide File No.23014/1/2018-CLD, Dt:15.02.2018 has granted Coal linkage from M/s SCCL for supply of 14 Million MTPA of G9 grade coal. | **EXP. DURING 2017-18** | 941.44 |
| **START UP POWER AGREEMENT** | As per clause no.2.2 of PPA ,TSDISCOMS shall provide electrical energy to TSGENCO for construction, start up and maintenance, also for commissioning of the project. | **EXP. DURING 2018-19** | 2129.24 |
| **POWER EVACUATION SYSTEM** | 400KV Janagaon,Damarcherla, Choutuppal and Dindi. | **EXP. DURING 2019-20** | 2935.56 |
| **LAND POSSESSION** | Total Land Required - Acs 2800<br>Total land acquired - Acs 5459.39 Gts<br>Total land in use - Acs 2800 | **EXP. DURING 2020-21** | 4427.54 |
| **WATER ALLOCATION** | Water Source from river Krishna<br>Qty- 208cuses(i.e.6.60 TMC per year) allotted vide G.O.Ms.No.13,Dt:30.01.2015 | EXP. OF JUl'21 | 343.88 |
| **MOEF CLEARANCE** | EC obtained from MoEF&CC vide Lr.No.J-13012/18/2015-IA.I(T), Dt.29-06-2017 with a validity of 7 years from the date of issue of MoEF clearance(i.e upto 29.06.2024) | **TOTAL EXPENDITURE (UPTO 31.07.21 )** | 11719.15 |
| **CIVIL AVIATION CLEARANCE** | 1.NOCID:NADI/SOUTH/B/071216/149982,Dt:26.07.2016.<br>2.NOCID:NADI/SOUTH/B/071216/149984,Dt:26.07.2016.<br>3. NOCID:NADI/SOUTH/B/071216/149988,Dt:26.07.2016. | | |
| **CPCB CLEARANCE** | Not Applicable | | |
| **SPCB CLEARANCE** | Consent for Establishment (CFE) received from TSPCB vide Order No.10/TSPCB/CFE/RO-NLG/HO/2017, Dt.25-07-2017. | | |
| **FOREST CLEARANCE** | Approval was accorded by Central Govt. Ministry of Environment, Forest, Climate Change, MoEF &CC, GOI, FC Section, New Delhi for diversion of forest land to an extent of 1892.35 hectares vide lr.no.F.No.8.07/2015-FC dt.07-07-2015<br>Subsequent G.O. was issued by Govt. of Telangana vide G.O.Ms.No.38,dt.30-07-2015 by EFS & T (For) Department | | |

**UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED )**

| Sl. | MILESTONE | UNIT-01 | | UNIT-02 | | UNIT-03 | | UNIT-04 | | UNIT-05 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Original Date of Completion | Actual/Anticipated DateofCompletion | Original Date of Completion | Actual/Anticipated DateofCompletion | Original Date of Completion | Actual/Anticipated DateofCompletion | Original Date of Completion | Actual/Anticipated DateofCompletion | Original Date of Completion | Actual/Anticipated DateofCompletion |
| 1 | COMPLETION OF BOILER FOUNDATION | - | 08.01.20 | - | 29.12.19 | - | 11.02.20 | - | 16.02.20 | - | 23.03.20 |
| 2 | START OF BOILER ERECTION | Jul'2018 | 18.02.20 | Jul'2018 | 30.07.20 | Mar'2019 | 18.03.20 | Mar'2019 | 30.07.20 | Jul'2021 | 14.08.20 |
| 3 | BOILER DRUM LIFTING | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | - | 31.01.21 | - | 31.03.21 | - | 11.04.21 | - | 09.06.21 | - | 09.06.21 |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | Oct'2019 | 31.01.22 | Oct'2019 | 31.03.21 | Jun'202 | 28.02.22 | Jun'202 | 31.05.22 | Oct'2020 | 30.06.22 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | Mar'2020 | 15.06.22 | Mar'2020 | 15.08.22 | Nov'2020 | 15.08.22 | Nov'2020 | 15.10.22 | Mar'2021 | 15.11.22 |
| 7 | BOILER LIGHT UP | Apr'2020 | 31.07.22 | Apr'2020 | 30.09.22 | Dec'2020 | 31.08.22 | Dec'2020 | 30.11.22 | Apr'2021 | 31.12.22 |
| 8 | CHEMICAL CLEANING | - | 29.08.22 | - | 29.09.22 | - | 29.10.22 | - | 29.11.22 | - | 29.12.22 |
| 9 | STEAM BLOWING START | - | 14.09.22 | - | 14.10.22 | - | 14.11.22 | - | 14.12.22 | - | 14.01.23 |
| 10 | STEAM BLOWING COMPLETION | Jul'2020 | 14.10.22 | Jul'2020 | 14.11.22 | Mar'2021 | 14.12.22 | Mar'2021 | 14.01.23 | Jul'2021 | 14.02.23 |
| 11 | HP PIPING ERECTION START | - | 01.04.21 | - | 01.05.21 | - | 01.06.21 | - | 01.07.21 | - | 01.08.21 |
| 12 | HP PIPING ERECTION COMPLETION | - | 13.10.22 | - | 13.11.22 | - | 13.12.22 | - | 13.01.23 | - | 13.02.23 |
| 13 | CONDENSER ERECTION START | Mar'2019 | 31.03.21 | Mar'2019 | 31.05.21 | Nov'2019 | 30.06.21 | Nov'2019 | 31.07.21 | Mar'2020 | 31.08.21 |
| 14 | TG ERECTION START | Apr'2019 | 03.05.21 | Apr'2019 | 03.06.21 | Dec'2019 | 03.07.21 | Dec'2019 | 03.08.21 | Apr'2020 | 03.09.21 |
| 15 | TG BOX UP | May'2020 | 31.05.22 | May'2020 | 31.07.22 | Jan'2021 | 31.08.22 | Jan'2021 | 30.09.22 | May'2021 | 31.10.22 |
| 16 | START OF OIL FLUSHING | Jun'2020 | 30.04.22 | Jun'2020 | 31.05.22 | Feb'2021 | 30.06.22 | Feb'2021 | 30.07.22 | Jun'2021 | 30.08.22 |
| 17 | ROLLING & SYNC. | Jul'2020 | 30.10.22 | Jul'2020 | 31.12.22 | Mar'2021 | 31.01.23 | Mar'2021 | 31.03.23 | Jul'2021 | 31.05.23 |
| 18 | FULL LOAD | Sept'2020 | 15.02.23 | Sept'2020 | 15.03.23 | May'2021 | 15.04.23 | May'2021 | 15.05.23 | Sept'2021 | 15.06.23 |
| 19 | TRIAL RUN | Oct'2020 | | Oct'2020 | | Jun'2021 | | Jun'2021 | | Oct'2021 | |
| 20 | COD | Oct'2020 | 28.02.23 | Oct'2020 | 31.03.23 | Jun'2021 | 30.04.23 | Jun'2021 | 31.05.23 | Oct'2021 | 30.06.23 |
| 21 | PG TEST START AND COMPLETION | - | | - | | - | | - | | - | |

**MAIN PLANT PACKAGE (BTG VENDOR):**

| Sl. | Packages | AREA | UNIT-01 (Percentage Completion | UNIT-02 (Percentage Completion) | UNIT-03 (Percentage Completion | UNIT-04 (Percentage Completion | UNIT-05 (Percentage Completion |
|---|---|---|---|---|---|---|---|
| 1 | BOILER | CIVIL<br>STRUCTURE<br>PRESSURE PARTS | 100<br>30.42<br>6.95 | 100<br>32.52<br>11.65 | 100<br>25.3<br>1.9 | 100<br>26.74<br>9.61 | 100<br>21.25<br>0 |
| 2 | TG | STRUCTURAL<br>TG Deck<br>TG Mech | 70.77<br>100<br>0 | 64<br>62<br>0 | 51<br>57<br>0 | 31<br>40<br>0 | 29<br>3<br>0 |
| 3 | ESP | UNDER PROGRESS | 69 | 66 | 58 | 55 | 31 |
| 4 | FGD | YET TO START | | | | | |

**STATUS OF BOPs**

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency (EPC-BHEL) | UNIT-01 (Percentage Completion | UNIT-02 (Percentage Completion) | UNIT-03 (Percentage Completion | UNIT-04 (Percentage Completion | UNIT-05 (Percentage Completion |
|---|---|---|---|---|---|---|---|
| 1 | Chimney | Bygging India Ltd for Unit #1&2<br>Pharpur for Unit #3&4<br>Bygging India Ltdfor Unit #5 | 35.69% | 35.69% | 36.36% | 36.36% | 13.56% |
| 2 | Coal Handling Plant (civil) | Powermech (Conveyor package) | 36.15% | | | | |
| | | Powermech (Wagon tripler | 36.7% | | | | |
| | | Powermech (Stacker Reclaimer ) | 24.5% | | | | |
| 3 | Ash Handling Plant (civil) | Powermech / Indure | 9.9% | | | | |
| 4 | Fuel Oil Systen | Thermosystems | 0 | | | | |
| 5 | Cooling Towers | NBCC for Unit #1<br>Gammon for Unit#2<br>NBCC for Unit#3<br>Gammon for Unit#4<br>NBCC for Unit#5 | 3.6% | 4.6% | 4.3% | 3.9% | 0.5% |
| 6 | CW Pump hous & Piping | CW pump house &channel - BHEL/HES / CW Pipe Line St1&2 - BHEL/GAJA / E&C CW Piping St 1 -BHEL/S V infratech / E&C CW Piping St2-BHEL/Santhosh Infra | 33% | | 5.9% | | |
| 7 | PT Plant (CIVIL) | SCC/Gaja | 34.5% | | | | |
| 8 | DM Plant (CIVIL) | SCC/Wipro | 34.12% | | | | |
| 9 | Air Compressor | HES | 37.5% | | | | |
| 10 | Fire Protection System | BHEL | 0 | | | | |
| 11 | Switch Yard | Bluechip | 13% | | | | |
| 12 | Station Transformers | EIPL/KEPL | 70% | 65% | 80% | 70% | 65% |
| 13 | Unit Transformers | EIPL/KEPL | | | | | |
| 14 | Railway siding | | 0% | | | | |
| 15 | Power Evacuation | TS TRANSCO/MEIL | 37.5% | | | | |

**REASONS OF DELAY**:

There is some delay by M/s. BHEL in finalization the main plant civil works tender and also in finalizing the Boiler erection vendors. The works of YTPS were adversely affected due to Covid-19 (1.0) as lockdown was imposed by State Government. Further upon resumption of the site works also, the works could not progress at the required pace, due to acute shortage of man power as most of the available workers at site have left. The impact of monsoons and unpredicted rains during other seasons resulted in frequent dewatering caused interruption to the movement of men and machinery which affected the work progress at YTPS site. The outbreak of Covid-19 (2.0) again hit the country with higher magnitude from March 2021 onwards. Number of workers and engineers are effected with Covid-19 in the project. Erection works are hampered due to non-availability of oxygen cylinders as the oxygen is diverted to Hospitals as per the directions of State Government. Oxygen cylinders are essentially required for cutting and erection of structural steel works. Supply of EOT crane is also delayed by M/s. BHEL.

**CRITICAL AREAS:**

# YELAHANKA COMBINED CYCLE PP (YCCPP) (1x370 MW)

**As on 31.07.2021**

**STATE SECTOR**

| **Developer-** KPCL | **Zero Date:** 03.11.2015 | **Main Plant Vendor-**BHEL (EPC Contract-03.11.2015) | **Original/Anticipated Trial Run** | **Feb 2018/ Nov 2021** |
|---|---|---|---|---|
| **ADDRESS** : - Yelahanka Combined Cycle Power Plant (YCCPP), Doddballapura Road, Bengalure, Karnataka-560064 | | | **E-GEN PORTAL:** REGISTRATION STATUS- No | |

| **CLEARANCES AND STATIC DATA** | | **FINANCIAL DATA (in Crore)** | |
|---|---|---|---|
| **FUEL TYPE** | RLNG (Regasified Liquified Natural Gas) | **ORIGINAL ESTIMATED COST OF THE PROJECT** | 1571.18 |
| **COAL COMBUSTION TECHNOLOGY** | NOT APPLICABLE | **LATEST ESTIMATED COST** | 2055.23 |
| **APPROVAL DATE/NOTICE TO PROCEED (NTP)** | Approval Date: Government Of Karnataka Order No. EN78PPC2010 Bengaluru dated:05.07.2011 | **DATE OF FINANCIAL CLOSURE** | 31.03.2021 |
| **ZERO DATE:** | LOA Date:03.11.2015<br>EPC Contractor: M/s BHEL | **Exp. during 2015-16** | 4.87 |
| **PPA** | Under Process | **Exp. during 2016-17** | 152.89 |
| **COAL LINKAGE/FSA** | NOT APPLICABLE | **Exp. during 2017-18** | 1050 |
| **START UP POWER AGREEMENT** | 20000 KVA on HT basis vide BESCOM Letter No. CEE/BMAZ-N/SEE(O)/AEE-2/18-19/2473-78 dated:17.11.2018 | **Exp. during 2018-19** | 140.93 |
| **POWER EVACUATION SYSTEM** | 220KV 3 lines are ready at outdoor switchyard. | **Exp. during 2019-20** | 171.41 |
| **LAND POSSESSION** | 102 Acres lands are available under DG plant / KPCL. DG plant stopped due to High generating cost & Environmental issues. In the existing land Gas Power Plant is established. | **Exp. during 2020-21** | 219.28 |
| **WATER ALLOCATION** | 15 MLD Tertiary treated plant at JAKKUR is supplying water to YCCP Plant | **Exp of Jul'21** | 7.0 |
| **MOEF CLEARANCE** | Approval No : State Level environment impact assessment authority(SEIAA) no SEIAA20IND 2014 DATED 1/9/2015 | **TOTAL EXPENDITURE (UPTO 31.07.21)** | 2044.64 |
| **CIVIL AVIATION CLEARANCE** | Approval no : AAI /KIA/ATM/NOC/488-92 DATED 5/5/2015 | | |
| **CPCB CLEARANCE** | NOT APPLICABLE | | |
| **SPCB CLEARANCE** | Approval No : KSPCB/CFE/CEO/KPCL/2015-16/H1033 DATED 02/11/2015 | | |
| **FOREST CLEARANCE** | | | |

| UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED ) | | | |
|---|---|---|---|
| Sl. | MILESTONE | UNIT-01 | |
| | | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | 30/06/2016 | 14/11/2016 |
| 2 | START OF BOILER ERECTION | 07.01.2016 | 11.09.2016 |
| 3 | BOILER DRUM LIFTING | 03-10-17 | 04-07-17 |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | 30/11/2016 | 21/12/2016 |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | 30/06/2017 | 27/11/2017 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | 30/06/2017 | 27/11/2017 |
| 7 | BOILER LIGHT UP | NA | NA |
| 8 | CHEMICAL CLEANING COMPLETION | 02.11.2017 | 01.08.2021 |
| 9 | STEAM BLOWING START | 26/10/2017 | 01.09.2021 |
| 10 | STEAM BLOWING COMPLETION | 30/10/2017 | 01.10.2021 |
| 11 | HP PIPING ERECTION START | NA | 01.09.2017 |
| 12 | HP PIPING ERECTION COMPLETION | NA | 01.11.2021 |
| 13 | CONDENSER ERECTION START | 14/08/2017 | 01.11.2017 |
| 14 | TG ERECTION START | 30.09.2017 (ST)<br>30.09.2017 (GT) | Feb 2021 (ST)<br>Aug 2021 (GT) |
| 15 | TG BOX UP | 30/09/2017 | 01.02.2021 |
| 16 | START OF OIL FLUSHING | 09.10.2017 | 29/08/2018 |
| 17 | ROLLING & SYNC. | 16/12/2017 | Nov-21 |
| 18 | FULL LOAD | 17/12/2017 | Nov-21 |
| 19 | TRIAL RUN | 07.02.2018 | Nov-21 |
| 20 | COD | 01.03.2018 | Nov-21 |
| 21 | PG TEST START AND COMPLETION | 08.03.2018 | Dec-21 |

| MAIN PLANT PACKAGE (BHEL-BTG VENDOR): | | | |
|---|---|---|---|
| Sl. | Packages | UNIT-01 | % Completion |
| 1 | BOILER | CIVIL<br>STRUCTURE<br>PRESSURE PARTS | 100%<br>99%<br>99% |
| 2 | TG | CIVIL<br>STRUCTURE<br>PRESSURE PARTS | 100%<br>99%<br>99% |
| 3 | ESP | NOT APPLICABLE | |
| 4 | FGD | NOT APPLICABLE | |

## STATUS OF BOPs

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency (EPC- BHEL) | % Completion |
|---|---|---|---|
| 1 | Chimney | M/s BHEL/ BJCL | 100% |
| 2 | Coal Handling Plant | NOT APPLICABLE | |
| 3 | Ash Handling Plant | NOT APPLICABLE | |
| 4 | Fuel Oil System | NOT APPLICABLE | |
| 5 | Cooling Towers | M/s BHEL/ BJCL | 90% |
| 6 | CW Pump house & Piping | M/s BHEL/ BJCL | 100% |
| 7 | PT Plant | NOT APPLICABLE | |
| 8 | DM Plant | M/s BHEL/ GE (Mechanical work) M/s BHEL/ BJCL (Civil work) | 100% |
| 9 | Air Compressor | M/s BHEL/ELGI (Mechanical work) M/s BHEL/ BJCL (Civil work) | 100% |
| 10 | Fire Protection System | M/s BHEL (Mechanical work) M/s BHEL/ BJCL (Civil work) | 100% |
| 11 | Switch Yard | BHEL-TBG | 100% |
| 12 | Station Transformers | M/s BHEL/ BJCL (Civil work) | 100% |
| 13 | Unit Transformers | M/s BHEL PSSR (Mechanical work) M/s BHEL/ BJCL (Civil work) | 100% |
| 14 | Railway siding | NOT APPLICABLE | |
| 15 | Power Evacuation | KPTCL | 95 |

**REASONS OF DELAY** :

1. Delay in completion of civil work and fire accident of gas turbine. Low Pressure Turbine (LPT) technical issues.
2. The delay is mainly by BHEL EPC contractor due to non-mobilization of required man power & prioritation of works order of GoK.

**CRITICAL AREAS:** NIL

# ENNORE SEZ STPP (2X660 MW)

**As on 31.07.2021**

**STATE SECTOR**

| **Developer-** TANGEDCO | **Zero Date:** 27.09.2014 | **Main Plant Vendor-**M/S BHEL (EPC) | **Original/ Anticipated Trial Run UNIT-01** | Nov'17/ Mar'23 |
|---|---|---|---|---|
| | | | **Original/ Anticipated Trial Run UNIT-02** | Jan'18/ Apr'23 |
| **ADDRESS** : - Voyalur village, Minjur 601203, Thiruvallur Dist. Tamil Nadu | | | **E-GEN PORTAL:** Unit 1 No: 1200001984<br>Unit 2 No: 1200001985 | |

| **CLEARANCES AND STATIC DATA** | | **FINANCIAL DATA (in Crore)** | |
|---|---|---|---|
| **FUEL TYPE** | Coal | **ORIGINAL ESTIMATED COST OF THE PROJECT** | Rs.9800.00 Crores |
| **COAL COMBUSTION TECHNOLOGY** | Supercritical | **LATEST ESTIMATED COST** | Rs.9800.00 Crores |
| **APPROVAL DATE/NOTICE TO PROCEED (NTP)** | 27.09.2014 | **DATE OF FINANCIAL CLOSURE** | ETripartite agreement between TANGEDCO, M/s BHEL (EPC contractor), PFC (Lender) signed on 21.11.16 and Loan agreement between PFC and TANGEDCO signed on 18.01.17. |
| **ZERO DATE:** | 27.09.2014 | **EXP. DURING 2016-17** | 558.04 |
| **PPA** | State sector project. Hence entire 100% power from this project will be utilized by TAMILNADU | **EXP. DURING 2017-18** | 2276.51 |
| **COAL LINKAGE/FSA** | Long term Coal Linkage application submitted on 26.02.2010 to Ministry of Coal/GoI/New Delhi for the supply domestic coal. Coal allocation is yet to be received. However MoU has already been signed between MMTC & TANGEDCO on 25.06.2012 for the supply of 100% Import coal for this project.CEA vide their letter dt.19.02.2019 communicated that development of Chandrabila coal block is getting delayed and hence MoP may consider to recommend for accord of Bridge Linkage based on use of blended coal consisting of 50% imported coal and 50% Indigenous Coal for 1x660MW Ennore Expansion project,2x660MW Udangudi Thermal Power Project Stage I, and 2x660MW Ennore SEZ STPP project.<br>During the standing linkage committee (SLC) meeting held on 24.6.2019 it has been decided that the discussion on the Bridge Linkage will be taken up in the next SLC meeting. | **EXP. DURING 2018-19** | 4688.11 |
| **START UP POWER AGREEMENT** | By TAGEDCO | **EXP. DURING 2019-20** | 1550.04 |
| **POWER EVACUATION SYSTEM** | Power will be evacuated from the proposed thermal power station through double circuit 400 KV transmission lines ie. Through 2 Nos. 400 KV lines to 765 KV Pooling Station and 2 Nos. 400 KV lines to ETPS Expansion STPP. | EXP. DURING 2020-21 | 750.13 |
| **LAND POSSESSION** | Acquisition of Land does not arise since own Land of TANGEDCO (Out of 1100 acres available at Ash Dyke of NCTPS , only 500 Acres of ash dyke is utilised for the development of the subject project) | EXP. July2021 | 12.67 |
| **WATER ALLOCATION** | Supply of 4 MGD water from CMWSSB obtained. However desalination plant is envisaged in the project. | **TOTAL EXPENDITURE (UPTO DATE 31.07.2021 )** | 4540.40 |
| **MOEF CLEARANCE** | MOEF Letter No. J 13012 / 36/2010-1A.II(T) dt.07.01.2014. Validity extended upto 31.12.2023 as per MoEF lr. Dt.09.04.2021 | | |
| **CIVIL AVIATION CLEARANCE** | Airport Authority has been addressed to issue NOC vide Letter No:Se/C/P&E/EE/EMC/AEE/C/F.ETPS-SEZTPP/D768 dt 17.4.2010. No Objection certificate issued by Airport Authority of India for the construction of chimney for the proposed Ennore SEZ TPP-2X800MW Project vide Lr.Ref:AAI/SR/NOC/dt 13.5.2010-validity 7 years available.Validity extended upto 13.5.22 vide their letter dt 19.5.17. | | |
| **CPCB CLEARANCE** | Not applicable | | |
| **SPCB CLEARANCE** | Consent to establish under Air and water Acts issued by TNPCB vide order 2002229941522 Dt.26.11.2020 extended the validity upto 06.01.2021. Extension of validity upto 31.12.2023 is under process. | | |
| **FOREST CLEARANCE** | Not applicable | | |

| UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED ) | | | | | |
|---|---|---|---|---|---|
| Sl. | MILESTONE | UNIT-01 | | UNIT-02 | |
| | | Original Date of Completion | Actual/Anticipated Date of Completion | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | 13.08.15 | 14.09.17 | 13.10.15 | 07.06.18 |
| 2 | START OF BOILER ERECTION | 25.08.15 | 15.09.17 | 28.10.15 | 08.06.18 |
| 3 | BOILER DRUM LIFTING | NA | NA | NA | NA |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | 28.01.16 | 30.11.18 | 28.03.16 | 16.05.19 |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | 28.12.16 | 15.02.20 | 27.02.17 | 29.03.21 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | 28.04.17 | 30.07.22 | 28.06.17 | 30.08.22 |
| 7 | | 30.05.17 | 30.08.22 | 29.07.17 | 30.09.22 |
| 8 | CHEMICAL CLEANING | 10.06.17 | 07.09.22 | 10.08.17 | 05.10.22 |
| 9 | STEAM BLOWING START | 20.06.17 | 15.09.22 | 20.08.17 | 10.10.22 |
| 10 | STEAM BLOWING COMPLETION | 15.07.17 | 15.10.22 | 15.09.17 | 10.11.22 |
| 11 | HP PIPING ERECTION START | 27.04.16 | 15.03.22 | 27.06.16 | 15.01.22 |
| 12 | HP PIPING ERECTION | 27.05.16 | 15.03.22 | 27.07.16 | 15.01.22 |
| 13 | CONDENSER ERECTION START | 27.04.17 | 15.12.22 | 20.06.17 | 15.01.23 |
| 14 | TG ERECTION START | 10.06.17 | 20.12.22 | 10.08.17 | 25.01.23 |
| 15 | TG BOX UP | 27.09.17 | 30.01.23 | 27.11.17 | 15.03.23 |
| 16 | START OF OIL FLUSHING | 27.10.17 | 28.02.23 | 27.12.17 | 30.03.23 |
| 17 | ROLLING & SYNC. | 27.11.17 | 30.03.23 | 27.01.18 | 30.04.23 |
| 18 | FULL LOAD | 27.10.17 | 28.02.23 | 27.12.17 | 30.03.23 |
| 19 | TRIAL RUN | 27.11.17 | 30.03.23 | 27.01.18 | 30.04.23 |
| 20 | COD | 27.01.18 | 15.04.23 | 27.03.18 | 15.05.23 |
| 21 | PG TEST START AND COMPLETION | 27.01.18 | 30.04.23 | 27.03.18 | 30.05.23 |

| MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL | | | | |
|---|---|---|---|---|
| Sl. | Packages | AREA | UNIT-01 (Percentage Completion) | UNIT-02 (Percentage Completion) |
| 1 | BOILER | CIVIL<br>STRUCTURE<br>PRESSURE PARTS | 90%<br>87.15% | 90%<br>72.97% |
| 2 | TG | CIVIL<br>STRUCTURE<br>PRESSURE PARTS | 25%<br>YET TO START<br>YET TO START | 37%<br>YET TO START<br>YET TO START |
| 3 | ESP | UNDER PROGRESS | 70% | 57.94% |
| 4 | FGD | FGD Tender Specification is being received from M/s. Desein Pvt Ltd. Civil, Mechanical and C&I specifications are received and the same is under verification. After specification approval from Board/TANGEDCO, Tender for setting up of FGD will be floated. | | |

## STATUS OF BOPs (BHEL-EPC)

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency (EPC-BHEL) | UNIT-01 (Percentage Completion) | UNIT-02 (Percentage Completion) |
|---|---|---|---|---|
| 1 | Chimney | M/s.Simplex | 100% | |
| 2 | Coal Handling Plant | M/s.Bevcon (Conveyor package supply), M/s.FLSIDTH- Pipe conveyor package<br>M/L&T: Crusher package supply<br>M/s.Promac : Stacker Reclaimer supply, M/s.Elecon : Vibrating Grizzy feeder supply, M/s.BEML: Dozers supply, M/s.APC: Water system | 95%(Civil works)<br>Supply Stacker Reclaimer - 40%<br>Vibrating Grizzy feeder supply -100%<br>Dozers supply -100% | |
| 3 | Ash Handling Plant | M/s.Indure (for supply and erection for mechanical packages) , M/s.Turbo Engineers for Sluury disposal pipes supply M/s.Weir for Slurry pumps supply, M/s.Atlas Copco& M/s.Ingersoll for Compressor supply M/s.Suraj cables for LT cables, M/s.Gem cabs for HT power cable supply, BHEL - BPL for HT motors, M/s.Mahaveer for earthing material supply,M/s.Premier for Cable trays & accessories supply | 8% (Civil works ) | |
| 4 | Fuel Oil System | M/s.New Fire Engineers Pvt ltd. | 46% Civil works | |
| 5 | Cooling Towers | M/s.Simplex (Design – Paharpur) | 19% | 7% |
| 6 | CW Pump house & Piping | CW Pump House - M/s Cornerstone ( De-scoped from M/s.Simplex),CW Piping: BHEL / M/s Vijay Gowtham- ( De-scoped from M/s.Simplex) | PH Civil works - 5%<br>Piping – 1% | |
| 7 | PT Plant | M/s.Otoklin Global business services for supply and erection package | Civil works - 2% | |
| 8 | DM Plant | M/s Cornerstone (De-scoped from M/s.Simplex) | Civil works - 26% | |
| 9 | Air Compressor | M/s.ELGI Equipments Ltd. | Civil works - 68% | |
| 10 | Fire Protection System | BHEL- PE&SD | Civil works - 5% | |
| 11 | Switch Yard | BHEL-TBG ( Awarded to Sakthi Kanna Construction Ltd & M/s.Vijay Gowtham- De-scoped from M/s.Simplex) | Civil works - 38% | |
| 12 | Station Transformers | M/s Cornerstone | Civil works - 23% | |
| 13 | Unit Transformers | M/s Cornerstone | Civil works - 23% | |
| 14 | Railway siding | NA | | |
| 15 | Power Evacuation | TANGEDCO Scope | Power will be evacuated from the proposed thermal power station through double circuit 400 KV transmission lines ie. Through 2 Nos. 400 KV lines to 765 KV Pooling Station and 2 Nos. 400 KV lines to ETPS Expansion STPP. | |

**REASONS OF DELAY** :

1) Zero date is 27.09.2014, Works commenced at Site on 09.10.2014. Project works temporarily suspended from 07.09.2015 to 18.10. 2016 due to litigation. Work resumed at Site from 19.10.2016. Completion schedule re-fixed to 06.05.2019 (without levy of LD & penalty) due to time loss of 407 day due to court case. Time extension granted from 06.05.2019 to upto 31.08.2020 for U#1 and 31.10.2020 for Unit 2 without prejudice to levy of LD & Penalty clauses. Once again time extension granted from 01.09.2020 to 31.05.2022 for Unit 1 & from 01.11.2020 to 14.08.2022 for Unit 2 without prejudice to levy of LD & Penalty clauses.

2) Entire project civil works were awarded to M/s. Simplex. Wherever slow progress of work noticed, BHEL has de scoped the certain works from M/s. Simplex based on TANGEDCO's request, but still the progress is very poor from M/s. Simplex.

3) Project activities are slow down since 24th March 2020 due to lock down enforced by GOI in view of COVID-19 outbreak.

**CRITICAL AREA/ ASSSISTANCE REQUIRED:**

Coal allocation is yet to be received. During the standing linkage committee (SLC) meeting held on 24.6.2019 it has been decided that the discussion on the Bridge Linkage will be taken up in the next SLC meeting.- FSA is awaited from Ministry of Coal.

The progress in NDCT is affected from 06.12.19 onwards and M/s. Paharpur has issued Suspension Notice on 27.05.20 (initiated on 10.03.20) and the works are in standstill condition. Hence early steps shall be taken by M/s.BHEL to resume the activity

# UPPUR STPP (2X8000 MW)

**As on 31.07.2021**

**STATE SECTOR**

| **Developer-** TANGEDCO | **Zero Date:** Feb'2016 | **Main Plant Vendor-**M/S BHEL | **Original/Anticipated CODUNIT-01** | 01-02-2021/ On Hold * |
|---|---|---|---|---|
| | | | **Original/ Anticipated CODUNIT-02** | 01-02-2021/ On Hold * |
| **ADDRESS** : - Dist.-Ramnanathapuram, Tamilnadu (623503). | | | **E-GEN PORTAL:** REGISTRATION STATUS- NO | |

| **CLEARANCES AND STATIC DATA** | | **FINANCIAL DATA (in Crore)** | |
|---|---|---|---|
| **FUEL TYPE** | Coal | **ORIGINAL ESTIMATED COST OF THE PROJECT** | Rs.12778 Crs |
| **COAL COMBUSTION TECHNOLOGY** | Supercritical | **LATEST ESTIMATED COST** | Not Applicable |
| **APPROVAL DATE/NOTICE TO PROCEED (NTP)** | BGT-SE/E/T & H(P)/OT No. 01/ 2015-16.<br>BOP-SE/E/T&H(P)/OT.No.1/2020-21.<br>SWIOP-SE/C/TP/OT.NO.2/2016-17. | **DATE OF FINANCIAL CLOSURE** | Financial tie up with M/s. PFC |
| **ZERO DATE:** | Order placed on M/s. BHEL on 27/02/16. | **EXP. DURING 2016-17** | 16.74 |
| **PPA** | NOT APPLICABLE. State sector project. | **EXP. DURING 2017-18** | 226.62 |
| **COAL LINKAGE/FSA** | MOU entered with M/s. MMTC for supply of imported Coal of 5.02 MTPA on 25.05.2015 | **EXP. DURING 2018-19** | 1594.15 |
| **START UP POWER AGREEMENT** | 230KV/11 Karaigudi Feeder | **EXP. DURING 2019-20** | 924.32 |
| **POWER EVACUATION SYSTEM** | 765 KV | **EXP. DURING 2020-21** | 366.61 |
| **LAND POSSESSION** | Land required for the project is under TANGEDCO Possession. EPC Contracts awarded to M/s. BHEL & M/S L&T has been suspended as per the NGT(SZ), Chennai Judgment dated 17.03.2021, delivered on Appeal No. 144 of 2016(SZ) filed in the designated court for a period of six months or until further orders | **EXP. OF JUL'21** | NIL |
| **WATER ALLOCATION** | Tamil Nadu Maritime Board has issued NOC for Construction of Jetty for drawal and discharge of cooling water, vide 27.4.2015. | **TOTAL EXPENDITURE (UPTO 31.07.21 )** | 2298 |
| **MOEF CLEARANCE** | Ministry of Environment and Forest has accorded clearance for the above Project on 18.05.2016. | | |
| **CIVIL AVIATION CLEARANCE** | Clearance expired on 21.11.2019. Clearance further extended upto 21.11.2024. | | |
| **CPCB CLEARANCE** | NOT APPLICABLE. State sector project. | | |
| **SPCB CLEARANCE** | CRZ committee of MOEF recommended the Project on 28.1.16 and MOM published in web site on 8.2.16. | | |
| **FOREST CLEARANCE** | NOT APPLICABLE | | |

| UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED ) | | | | | |
|---|---|---|---|---|---|
| Sl. | MILESTONE | UNIT-01 | | UNIT-02 | |
| | | Original Date of Completion | Actual/Anticipated Date of Completion | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | - | | - | |
| 2 | START OF BOILER ERECTION | May'16 | | May'16 | |
| 3 | BOILER DRUM LIFTING | NA | | NA | |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | | | | |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | May'18 | | May'18 | |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | Nov'18 | | Nov'18 | |
| 7 | BOILER LIGHT UP | Nov'18 | | Nov'18 | |
| 8 | CHEMICAL CLEANING | - | | - | |
| 9 | STEAM BLOWING START | - | | - | |
| 10 | STEAM BLOWING COMPLETION | Jan'2019 | | Jan'2019 | |
| 11 | HP PIPING ERECTION START | - | | - | |
| 12 | HP PIPING ERECTION COMPLETION | - | | - | |
| 13 | CONDENSER ERECTION START | Jan'2018 | | Jan'2018 | |
| 14 | TG ERECTION START | Feb'2018 | | Feb'2018 | |
| 15 | TG BOX UP | Nov'2018 | | Nov'2018 | |
| 16 | START OF OIL FLUSHING | - | | - | |
| 17 | ROLLING & SYNC. | Feb'2019 | | Feb'2019 | |
| 18 | FULL LOAD | Mar'2019 | | Mar'2019 | |
| 19 | TRIAL RUN | Nov'2019 | | Nov'2019 | |
| 20 | COD | Nov'2019 | | Nov'2019 | |
| 21 | PG TEST START AND COMPLETION | - | | - | |
| | | - | | - | |

| MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL | | | | |
|---|---|---|---|---|
| Sl. | Packages | AREA | UNIT-01 (Percentage Completion) | UNIT-02 (Percentage Completion) |
| 1 | BOILER | CIVIL<br>STRUCTURE<br>PRESSURE PARTS | 23%<br>55%<br>1% | 30%<br>31%<br>NIL |
| 2 | TG | CIVIL<br>STRUCTURE<br>PRESSURE PARTS | WORK YET TO BE COMMENCED | |
| 3 | ESP | UNDER PROGRES | 14% | 6% |
| 4 | FGD | CONTRACT YET TO BE AWARDED | | |

## STATUS OF BOPs (M/s L&T)

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency (EPC-BHEL) | UNIT-01 (Percentage Completion) | UNIT-02 (Percentage Completion) |
|---|---|---|---|---|
| 1 | Chimney | RETENDERING WORK UNDER PROGRESS | RETENDERING WORK UNDER PROGRESS | RETENDERING WORK UNDER PROGRESS |
| 2 | Coal Handling Plant | | | |
| 3 | Ash Handling Plant | | | |
| 4 | Fuel Oil System | | | |
| 5 | Cooling Towers | | | |
| 6 | CW Pump house & Piping | | | |
| 7 | PT Plant | | | |
| 8 | DM Plant | | | |
| 9 | Air Compressor | | | |
| 10 | Fire Protection System | | | |
| 11 | Switch Yard | | | |
| 12 | Station Transformers | | | |
| 13 | Unit Transformers | | | |
| 14 | Railway siding | | | |
| 15 | Power Evacuation | | | |

* NOTE: The EPC contracts awarded to M/s. BHEL & M/S L&T has been suspended as per the NGT(SZ), Chennai Judgment dated 17.03.2021, delivered on Appeal No. 144 of 2016(SZ) filed in the designated court for a period of six months or until further orders.

Considering the issues like NGT order, land litigation, local fishermen litigation and BOP package retendering works. TANGEDCO Board vide.BP.43,dated: 29.04.2021 has accorded approval to shift the existing 2x800 MW Uppur STPP to Udangudi site as 2x800MW Udangudi Stage-III and consider Uppur as a fresh project once all the legal issues in NGT and other places are settled and to approach GOTN for administrative approval.
Energy Secretary/GoTN has been addressed vide Letter dtd 10.05.2021 for approval of the above.

# NORTH CHENNAI STPP STAGE III (1X800MW)

**As on 31.07.2021**

**STATE SECTOR**

| **Developer-** TANGEDCO | **Zero Date:**29.01.2016 | **Main Plant Vendor-**M/S BHEL (BTG) | **Original/ Anticipated Trial RunUNIT-08** | April'2019/ Feb'2022 |
|---|---|---|---|---|
| **ADDRESS** : - NCTPP Stage III, Athipattu village, Ponneri Tk, Thiruvallur Dt, Chennai - 600 120. | | | **E-GEN PORTAL:** REGISTRATION STATUS- NO, | |
| **CLEARANCES AND STATIC DATA** | | | **FINANCIAL DATA (IN CR.)** | |
| **FUELTYPE** | | Coal Based | **ORIGINAL ESTIMATED COST OF THE PROJECT** | Rs.6376 crores. |
| **COAL COMBUSTION TECHNOLOGY** | | Super critical | **LATEST ESTIMATED COST** | Rs.8722.86 crores |
| **APPROVAL DATE/NOTICE TO PROCEED (NTP)** | | BTG : SE/E/T & H (P)/ OT No. 02/2015-16 ; BOP : SE/E/T & H (P) OT No.04/2015-16 | **DATE OF FINANCIAL CLOSURE** | In-prinicpal approval for financial assistance of Rs.5006.992 crores with Debt : Equity ratio of 80 : 20 for setting up of 1 x 800 MW Supercritical Thermal Power Plant in Tiruvallur District of Tamil Nadu has been received from M/s. REC on 05.08.2016. Loan has been sanctioned on 22.11.2016. Loan Agreement was signed on 28.01.2017. |
| **ZERO DATE:** | | BTG : 29.01.2016 BOP : 28.10.2016 | **EXP. DURING 2012-13** | 0.2058 |
| **PPA** | | NOT APPLICABLE. Statesector project. | **EXP. DURING 2013-14** | 0.3955 |
| **COAL LINKAGE/FSA** | | MOU has been entered with M/s. MMTC for supply of Imported coal of 2.51 MTPA on 25.05.2015. Ministry of Coal recommended for long term coal linkage for 1.971 MT Indigenous coal to Singareni colleries. Execution of FSA is under finalization between TANGEDCO and SCL. FOR SUPPLY OF Imported Coal of 2.51 MTPA | **EXP. DURING 2014-15** | 0.1294 |
| **START UP POWER AGREEMENT** | | Start up Power Arrangement is through 230 KV level by ine-In-Line-out of NCTPS 1 to Ennore Feeder. Station Transformer was charged on 05.09.2020. | **EXP. DURING 2015-16** | 0.2529 |
| **POWER EVACUATION SYSTEM** | | Power Evacuation is through 765 KV DC feeder to the proposed North Chennai Pooling Station and 765 KV DC link line feeder to the proposed Ennore Replacement Power Plant and the same is being established by TANTRANSCO. | **EXP. DURING 2016-17** | 198.08 |
| **LAND POSSESSION** | | The proposed site is within the existing NCTPS complex and land is already underpossession of TANGEDCO. | **EXP. DURING 2017-18** | 929.75 |
| **WATER ALLOCATION** | | The raw water requirement for this project will be met from existing cooling water fore-bay of NCTPS, Stage-II. The make up water for cooling water, boiler make up and other sweet water requirements are to be met from desalination plant under construction for this project. Construction water from M/s. CMWSSB available to the contractor from 07.01.2017. | **EXP. DURING 2018-19** | 2243.52 |
| **MOEF CLEARANCE** | | Environmental clearance issued by MoEF on 20.01.2016 valid for a period of seven years. | **EXP. DURING 2019-20** | 2090.62 |
| **CIVIL AVIATION CLEARANCE** | | Chimney constructed for full height and the same was informed to Airports Authority of India. | **EXP. DURING 2020-21** | 928.95 |
| **CPCB CLEARANCE** | | NOT APPLICABLE. Statesector project. | **EXP. OF JUL'21** | 15.93 |
| **SPCB CLEARANCE** | | Approval has been obtained on 13.04.2017. | **TOTAL EXPENDITURE (UPTO 31.07.21)** | 6585.84 |
| **FOREST CLEARANCE** | | NOT APPLICABLEsincethesame is not coming under Forest area. | | |

| UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED ) | | | |
|---|---|---|---|
| Sl. | MILESTONE | UNIT-01 | |
| | | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | 31-10-2016 | 14-06-2018 |
| 2 | START OF BOILER ERECTION | 29.11.2016 | 30.08.2017 |
| 3 | BOILER DRUM LIFTING | NA | NA |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | 11-05-2017 | 31.07.2018 |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | 28.02.2018 | 31.12.2019 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | 26.09.2018 | 01.07.2021 |
| 7 | BOILER LIGHT UP | 29.10.2018 | 23.02.2021 |
| 8 | CHEMICAL CLEANING | 27.02.2019 | 01.08.2021 |
| 9 | STEAM BLOWING START | 31-12-2018 | 01.10.2021 |
| 10 | STEAM BLOWING COMPLETION | 29-01-2019 | 01.11.2021 |
| 11 | HP PIPING ERECTION START | 24-10-2017 | 25.03.2018 |
| 12 | HP PIPING ERECTION COMPLETION | 13-04-2019 | 01.08.2021 |
| 13 | CONDENSER ERECTION START | 29.08.2017 | 02.01.2019 |
| 14 | TG ERECTION START | 28.10.2017 | 25.02.2019 |
| 15 | TG BOX UP | 07.11.2018 | 01.02.2021 |
| 16 | START OF OIL FLUSHING | 29.11.2018 | 03.11.2020 |
| 17 | ROLLING & SYNC. | 28-02-19 | 01.12.2021 |
| 18 | FULL LOAD | 28.03.2019 | 01.01.2022 |
| 19 | TRIAL RUN | 28-04-2019 | FEBRUARY 2022 |
| 20 | COD | 28.07.2019 | 01.03.2022 |
| 21 | PG TEST START AND COMPLETION | 28-07-2019 | MAY 2022 |

| MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL (29.01.2016 ) | | | |
|---|---|---|---|
| Sl. | Packages | UNIT-01 | % Completion |
| 1 | BOILER | Civil works<br>Structural works<br>Pressure Parts | 95%<br>80%<br>96% |
| 2 | TG | Civil works<br>Structural works<br>Pressure Parts | 100%<br>98%<br>90% |
| 3 | ESP | Pass status | 100.00% |
| 4 | FGD | WORK AWARDED on 22.02.2021. DESIGN AND ENGINEERING WORKS UNDER PROGRESS. | |

## STATUS OF BOPs-BGRESL/Chennai

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency | % Completion |
|---|---|---|---|
| 1 | Chimney | M/s BGRESL | 97% |
| 2 | Coal Handling Plant | | 70% |
| 3 | Ash Handling Plant | | 48% |
| 4 | Fuel Oil System | | 95% |
| 5 | Cooling Towers | | 82% |
| 6 | CW Pump house & Piping | | 60% |
| 7 | PT Plant | | 75% |
| 8 | DM Plant | | 80% |
| 9 | Air Compressor | | 90% |
| 10 | Fire Protection System | | 72% |
| 11 | Switch Yard | | 80% |
| 12 | Station Transformers | BHEL / PSSR | 100% |
| 13 | Unit Transformers | BHEL / PSSR | 82% |
| 14 | Railway siding | NA | |
| 15 | Power Evacuation | TANTRANSCO | 88% |

**REASONS OF DELAY**:
Due to COVID Lock down in 2020 & 2021 and non-availability of Oxygen, Delay in CW pipe line readiness. 2. Ash Handling Plant- Under-reamed piling and ADPL erection are in progress. Piling activities inside water bodies, viz., Buckingham canal, Kosasthalaiyar River and Bridge across Boat canal are in critical area, as monsoon rain affects the work progress.

**CRITICAL AREAS:** Ash Handling Plant- Under-reamed piling and ADPL erection are in progress. Piling activities inside water bodies, viz., Buckingham canal, Kosasthalaiyar River and Bridge across Boat canal are in critical area, as monsoon rain affects the work progress

# TUTICORIN TPP STAGE IV (1x525 MW)

**As on 31.07.2021**

**PRIVATE SECTOR**

| Developer- M/s. SEPC Power Private Ltd. | **Zero Date:** 18.01.2014 | **Main Plant Vendor-** BHEL-BTG | **Original/Anticipated Trial Run UNIT-01** | SEP 2018 /Aug 2021 |
|---|---|---|---|---|
| **ADDRESS** : -M/s. SEPC Power Private Ltd., Check Post 1, VOC Road, VOC Port Trust, Thoothukudi , TamilNadu -628004 | | | **E-GEN PORTAL:** REGISTRATION STATUS- YES (1200000178) | |

| **CLEARANCES AND STATIC DATA** | | **FINANCIAL DATA (in Crore)** | |
|---|---|---|---|
| **FUEL TYPE** | Imported Coal | **ORIGINAL ESTIMATED COST OF THE PROJECT** | Original & Latest Estimated Project Cost #: Rs 3514 Crore (TNERC approved Cost on 30.4.2015). Latest cost would be submitted as Part of final true up of capital cost. |
| **COAL COMBUSTION TECHNOLOGY** | Sub Critical | **LATEST ESTIMATED COST** | |
| **APPROVAL DATE/NOTICE TO PROCEED (NTP)** | Project Approval Date: 03.08.2009 | **DATE OF FINANCIAL CLOSURE** | 30.10.2015 (FCD approved by Hon'ble TNERC) |
| **ZERO DATE:** | 30.10.2015 (NTP issued to EPC Contractor), 18.01.2014 (Date of Award on EPC Basis to M/s MEIL) | **Exp. Upto Fy 2015-16** | 480.79 |
| **PPA** | Signed with TANGEDCO and the PPA approved by the Hon'ble TNERC on 30.04.2015. | **Exp. during 2016-17** | 248.7 |
| **COAL LINKAGE/FSA** | Imported Coal firmed up and the Agreement with the Coal Supplier was approved by Hon'ble TNERC on 10.1.2020. | **Exp. during 2017-18** | 822.94 |
| **START UP POWER AGREEMENT** | 09.10.2020 (Date of availing startup Power) | **Exp. during 2018-19** | 508.91 |
| **POWER EVACUATION SYSTEM** | 2 X 400 kV approved by CEA and to be implemented by TANGEDCO / TANTRANSCO | **Exp. during 2019-20** | 812.56 |
| **LAND POSSESSION** | Land Lease Agreement signed with VOC Port trust. lease land of 36.81 Ha from VOCPT besides ash land of 262.4 acres | **Exp. during 2020-21** | 561.55 |
| | | **Exp of Jul'21** | 21.71 |
| **WATER ALLOCATION** | Sea Water Desalination Plant is envisaged for meeting water requirement of the Power Plant. Permission to draw Sea Water from Sheltered Basin has been obtained from Port | **Total Exp.(UPTO 31.07.21)** | 3643.42 |
| **MOEF CLEARANCE** | MOE & F Clearance Obtained and extended upto 2.11.2020. Since all construction works are completed (Civil & Mechanical) within the month of September 2020, thereafter CTO was obtained and therefore EC valid until 2.11.2020 is adequate and hence further extension not being taken up or required. | | |
| **CIVIL AVIATION CLEARANCE** | Civil Aviation Clearance Obtained and valid up to 17.12.2021. | | |
| **CPCB CLEARANCE** | NA | | |
| **SPCB CLEARANCE** | State Pollution Control Board Clearance Obtained and valid upto 30.11.2021. | | |
| **FOREST CLEARANCE** | NA | | |

| UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED ) | | | |
|---|---|---|---|
| Sl. | MILESTONE | UNIT-01 | |
| | | Original Date of Completion | Actual/AnticipatedDate of Completion |
| 1 | COMPLETION OF BOILERFOUNDATION | 15/12/2015 | 15/12/2015 |
| 2 | START OF BOILER ERECTION | 15/12/2016 | 15/12/2016 |
| 3 | BOILER DRUM LIFTING | 13/08/2017 | 13/08/2017 |
| 4 | BOILER CEILING GIRDERLIFTING COMPLETION | NP | NP |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | 28/12/2018 | 28/12/2018 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | 28/12/2019 | 12/03/2020 |
| 7 | BOILER LIGHT UP | 16/04/2020 | 20/10/2020 |
| 8 | CHEMICAL CLEANING COMPLETION | NP | NP |
| 9 | STEAM BLOWING START | NP | NP |
| 10 | STEAM BLOWING COMPLETION | 16/05.2020 | 15/02/2021 |
| 11 | HP PIPING ERECTION START | NP | NP |
| 12 | HP PIPING ERECTION COMPLETION | NP | NP |
| 13 | CONDENSER ERECTION START | 08/09/2017 | 08/09/2017 |
| 14 | TG ERECTION START | 08/09/2017 | 08/09/2017 |
| 15 | TG BOX UP | 25/02/2020 | 05/01/2021 |
| 16 | START OF OIL FLUSHING | 25/02/2020 | 30/09/2020 |
| 17 | ROLLING & SYNC. | 29.06.2020 | Aug'21 |
| 18 | FULL LOAD | 29.08.2020 | Aug'21 |
| 19 | TRIAL RUN | 03.09.2020 | Aug'21 |
| 20 | COD | 23.09.2020 | Sept'21 |
| 21 | PG TEST START AND COMPLETION | NP | NP |

| MAIN PLANT PACKAGE (BTG VENDOR): BHEL | | | |
|---|---|---|---|
| Sl. | Packages | UNIT-01 | % Completion |
| 1 | BOILER | Civil works<br>Structural works<br>Pressure Parts | 99%<br>97%<br>100% |
| 2 | TG | Civil works<br>Structural works<br>Pressure Parts | 99%<br>100%<br>98% |
| 3 | ESP | Status | 99% |
| 4 | FGD | YET TO AWARD | |

| STATUS OF BOPs | | | |
|---|---|---|---|
| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency | % Completion |
| 1 | Chimney | Paharpur | 100% |
| 2 | Coal Handling Plant | Lepton/MEIL (Conveyorpackage) | 99% |
| | | Promac India (Stacker Reclaimer) | 80% |
| 3 | Ash Handling Plant | MBPL | 99% |
| 4 | Fuel Oil System | MEIL | 100% |
| 5 | Cooling Towers | Paharpur | 100% |
| 6 | CW Pump house& Piping | Flow Serve | 100% |
| 7 | PT Plant | Tecton | 100% |
| 8 | DM Plant | Tecton | 100% |
| 9 | Air Compressor | Atlas Copco (I) Ltd. | 100% |
| 10 | Fire Protection System | IDSL | 100% |
| 11 | Switch Yard | GE T&D | 100% |
| 12 | Station Transformers | | |
| 13 | Unit Transformers | Prolec GE | 100% |
| 14 | Railway siding | | |
| 15 | Power Evacuation | | |

**REAONS OF DELAY:**
**CRITICAL AREAS:** TNERC approval for addendum 3 to the PPA and grid connectivity from SLDC

# UDANGUDI STPP - STAGE-I (2x660MW)

**As on 31.07.2021**

**STATE SECTOR**

| Developer- TANGEDCO | Zero Date: 07/12/2017 | Main Plant Vendor-M/S BHEL (EPC) | Original/ Anticipated Trial Run UNIT-01 | Jan'2021/ May'2023 |
|---|---|---|---|---|
| | | | Original/ Anticipated Trial Run UNIT-02 | Mar'2021/ July'2023 |
| ADDRESS : - Distt. Thoothukudi, Tamil Nadu [TANGEDCO] | | | E-GEN PORTAL: No | |

| CLEARANCES AND STATIC DATA | | FINANCIAL DATA (in Crore) | |
|---|---|---|---|
| FUEL TYPE | Coal Base | ORIGINAL ESTIMATED COST OF THE PROJECT | Rs.12778 Crores |
| COAL COMBUSTION TECHNOLOGY | Supercritical | LATEST ESTIMATED COST | Rs.12778 Crores |
| APPROVAL DATE/NOTICE TO PROCEED (NTP) | BGT-SE/E/T & H(P)/OT No. 01/ 2015-16.<br>BOP-SE/E/T&H(P)/OT.No.1/2020-21.<br>SWIOP-SE/C/TP/OT.NO.2/2016-17. | DATE OF FINANCIAL CLOSURE | Financial tie up with M/s. PFC |
| ZERO DATE: | EPC Contract was awarded to M/s. BHEL Crores on 07.12.2017 | EXP. DURING 2016-17 | Rs.16.74Cr |
| PPA | NOT APPLICABLE. State sector project. | EXP. DURING 2017-18 | Rs.226.62Cr |
| COAL LINKAGE/FSA | MOU entered with M/s. MMTC for supply of imported Coal of 5.02 MTPA on 25.05.2015 | EXP. DURING 2018-19 | Rs.1594.15Cr |
| START UP POWER AGREEMENT | 230KV/11 Karaigudi Feeder | EXP. DURING 2019-20 | Rs.924.32 Cr |
| POWER EVACUATION SYSTEM | 765 KV | EXP. DURING 2020-21 | Rs.366.61Cr |
| LAND POSSESSION | Land reuired for the proejct is under TANGEDCO Possesson. EPC COntracts awarded to M/s. BHEL & M/S L&T has been suspended as per the NGT(SZ), Chennai Judgment dated 17.03.2021, delivered on Appeal No. 144 of 2016(SZ) filed in the designated court for a period of six months or until further orders | EXP. OF July2021 | 166.5 |
| WATER ALLOCATION | Tamil Nadu Maritime Board has issued NOC for construction of Jetty for drawal and discharge of cooling water, vide 27.4.2015. | TOTAL EXPENDITURE (UPTO DATE 31.07.2021 ) | 3857.80 |
| MOEF CLEARANCE | Ministry of Environment and Forest has accorded clearance for the above Project on 18.05.2016. | | |
| CIVIL AVIATION CLEARANCE | Clearance expired on 21.11.2019. Clearance further extended upto 21.11.2024. | | |
| CPCB CLEARANCE | NOT APPLICABLE. State sector project. | | |
| SPCB CLEARANCE | CRZ committee of MOEF recommended the Project on 28.1.16 and MOM published in web site on 8.2.16. | | |
| FOREST CLEARANCE | NOT APPLICABLE | | |

## UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED )

| Sl. | MILESTONE | UNIT-01 | | UNIT-02 | |
|---|---|---|---|---|---|
| | | Original Date of Completion | Actual/Anticipated Date of Completion | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | 12-09-2018 | 10-04-2021 | 12-11-2018 | 21-04-2021 |
| 2 | START OF BOILER ERECTION | 27-09-2018 | 20-09-2019 | 27-11-2018 | 16-09-2019 |
| 3 | BOILER DRUM LIFTING | - | - | - | - |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | 09-02-2019 | 26-06-2021 | 09-04-2019 | 18-06-2021 |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | 27-02-2020 | 23-04-2022 | 27-04-2020 | 08-05-2022 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | 02-07-2020 | 18-10-2022 | 02-09-2020 | 02-11-2022 |
| 7 | BOILER LIGHT UP | 09-07-2020 | 23-11-2022 | 09-09-2020 | 08-12-2022 |
| 8 | CHEMICAL CLEANING | 30-07-2020 | 13-12-2022 | 30-09-2020 | 28-12-2022 |
| 9 | STEAM BLOWING START | 13-08-2020 | 15-02-2023 | 13-11-2020 | 02-03-2023 |
| 10 | STEAM BLOWING COMPLETION | 03-09-2020 | 16-02-2023 | 03-11-2020 | 03-03-2023 |
| 11 | HP PIPING ERECTION START | 30-10-2019 | 23-06-2022 | 30-10-2019 | 08-07-2022 |
| 12 | HP PIPING ERECTION | 06-08-2020 | 02-02-2023 | 06-10-2020 | 17-02-2023 |
| 13 | CONDENSER ERECTION START | 15-08-2019 | 28-02-2022 | 15-10-2019 | 15-03-2022 |
| 14 | TG ERECTION START | 12-09-2019 | 06-04-2022 | 12-11-2019 | 21-04-2022 |
| 15 | TG BOX UP | 30-07-2020 | 31-01-2023 | 30-09-2020 | 15-02-2023 |
| 16 | START OF OIL FLUSHING | 30-07-2020 | 24-04-2022 | 30-09-2020 | 09-05-2022 |
| 17 | ROLLING & SYNC. | 12-11-2020 | 01-04-2023 | 12-01-2021 | 16-04-2023 |
| 18 | FULL LOAD | 31-12-2020 | 13-04-2023 | 28-02-2021 | 28-04-2023 |
| 19 | TRIAL RUN | 07-01-2021 | 04-05-2023 | 07-03-2021 | 04-07-2023 |
| 20 | COD | 25-02-2021 | 16-05-2023 | 25-04-2021 | 31-05-2023 |
| 21 | PG TEST START AND COMPLETION | 08-04-2021 | 15-06-2023 | 08-06-2021 | 30-06-2023 |

## MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL

| Sl. | Packages | AREA | UNIT-01 (Percentage Completion) | UNIT-02 (Percentage Completion) |
|---|---|---|---|---|
| 1 | BOILER | CIVIL<br>STRUCTURE<br>PRESSURE PARTS | 79%<br>46.0%<br>1.21% | 82%<br>48.0%<br>2.0% |
| 2 | TG | CIVIL<br>STRUCTURE<br>PRESSURE PARTS | 24.4%<br>27.1%<br>1.89% | 19.8%<br>8.5%<br>- |
| 3 | ESP | UNDER PROGRESS | 35.86% | 33.71% |
| 4 | FGD | Vendor to be awarded | | |

## STATUS OF BOPs (BHEL-EPC)

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency (EPC-BHEL) | UNIT-01 (Percentage Completion) | UNIT-02 (Percentage Completion) |
|---|---|---|---|---|
| 1 | Chimney | M/s.BHEL/ M/s Bygging- Civil<br>M/s.BHEL/ M/s Bygging- Structural Fabrication | 98 %<br>70 | |
| 2 | Coal Handling Plant | M/s. BHEL/ M/s.Annai / GEO Civil | 4.6% | |
| | | M/s. BHEL/ M/s.RPP /URC Structural Erection | - | |
| | | M/s. BHEL/IGG Mechanical Equipment | - | |
| 3 | Ash Handling Plant | M/s.BHEL/ RPP/Srinic- Civil<br>M/s.BHEL/ M/s.RPP/URC-Structural Erection<br>M/s. BHEL Mechanical Equipment | 5.0%<br>- | |
| 4 | Fuel Oil System | M/s.BHEL/ M/s.RPP Civil | 3.4% | |
| 5 | Cooling Towers | M/s.BHEL/ M/s.Gammon | 0.08% | |
| 6 | CW Pump house & Piping | M/s.BHEL/ M/s.B&B<br>M/s.BHEL/ M/s.Akash Techno | 38.02%<br>44.8% | |
| 7 | PT Plant | M/s.BHEL/ M/s.B&B | 3.4% | |
| 8 | DM Plant | M/s.BHEL/ M/s.RPP | 7.0% | |
| 9 | Air Compressor | M/s.BHEL / M/s.GDCL | - | |
| 10 | Fire Protection System | M/s. BHEL/ subcontractor | - | |
| 11 | Switch Yard | M/s. BHEL/ M/s. JK construction | 34% | |
| 12 | Station Transformers | M/s.BHEL / M/s.GDCL | - | |
| 13 | Unit Transformers | M/s.BHEL / M/s.GDCL | - | |
| 14 | Railway siding | Main vendor/ subcontractor | - | |
| 15 | Power Evacuation | L&T Construction Ltd | 67% | |

**REASONS OF DELAY**: COVID 19, Labor shortage / Vendor Mobilization delay by Contractor, Fishermen issue at Coal Jetty

**CRITICAL AREAS:** Persistent short fall in Man power mobilization is being suitably addressed to BHEL and the Fisherman issue is also being addressed to District administration/Tuticorin

# EASTERN
# REGION

# SAGARDIGHI TPP, PH-III (1X660 MW)

**As on 31.07.2021**

**STATE SECTOR**

| **Developer-** WBPDCL | **Zero** **Date:**01.07.2020 | **Main Plant Vendor-**M/S BHEL (EPC Contract-27.12.2018) | **Original/Anticipated Trial Run UNIT-01** | Jan-24/ Jan-24 |
|---|---|---|---|---|
| **ADDRESS** : - PS-Sagardighi, PO-Manigram, Pin-742237, Block-Sagardighi, Subdivision-Jangipur, District-Murshidabad, West Bengal | | | **E-GEN PORTAL:** REGISTRATION STATUS- NO, | |

| **CLEARANCES AND STATIC DATA** | | **FINANCIAL DATA (in Crore)** | |
|---|---|---|---|
| **FUEL TYPE** | Coal | **ORIGINAL ESTIMATED COST OF THE PROJECT** | Rs. 3862.65 Cr. (Approved in the State Cabinet held on 23.03.2018.) |
| **COAL COMBUSTION TECHNOLOGY** | Supercritical | **LATEST ESTIMATED COST** | Rs. 4567.316 Cr. (Awaiting Approval) |
| **APPROVAL DATE/NOTICE TO PROCEED (NTP)** | Notice to Proceed Date: 01.07.2020<br>The proposal was approved in the State Cabinet held on 23.03.2018. | **DATE OF FINANCIAL CLOSURE** | 02.01.2017 |
| **ZERO DATE:** | For Main Plant BTG package has been awarded to Bharat Heavy Electricals Ltd (BHEL) and Award (LOA) dated 27.12.2018 | **Exp. during 2018-19** | 70 |
| **PPA** | Power Purchase Agreement executed with WBSEDCL | **Exp. during 2019-20** | 56.25 |
| **COAL LINKAGE/FSA** | Coal will be sourced mainly from captive coal mines of WBPDCL. | **Exp. during 2020-21** | 362.47 |
| **START UP POWER AGREEMENT** | Start up power shall be obtained from the other running units of the Sagardighi Thermal Power Project. | **Exp. Of Jul'21** | 16.98 |
| **POWER EVACUATION SYSTEM** | Power Evacuation from the proposed unit shall be done through the existing electrical network consisting of following feeders :<br>(1) 220 KV New Sagardighi –1, (2) 220 KV New Sagardighi-2,<br>(3) 400 KV Farakka-1, (4) 400 KV Farakka-2, (5) 400 KV Parulia-1,<br>(6) 400 KV Parulia-2, (7) 400 KV Subhashgram, (8) 400 KV Jeerat, (9) 400 KV Baharampore-1, (10) 400 KV Baharampore-2,<br>(11) 400 KV Gokarna-1, (12) 400 KV Gokarna -2. | **TOTAL EXPENDITURE (UPTO 31.07.21)** | 477.7 |
| **LAND POSSESSION** | Adequate land is available for the project.<br>(WBPDCL have 365 Ha of land under possession for Phases I, II & III of the plant and another 184 Ha for ash disposal.) | | |
| **WATER ALLOCATION** | Source:River Bhagirathi/Hooghly<br>Quantity:74.36 cusec of water in total for the entire Project.<br>Permission vide F. No. TE-15015/1/2019/NMCG, Dated: 01.07.2019 accorded by National Mission for Clean Ganga (Ministry of Water Resources, River Development & Ganga rejuvenation, Govt. of India) for drawal of 74.36 cusec of water from river Bhagirathi/Hooghly. | | |
| **MOEF CLEARANCE** | Environmental clearance vide F. No. J-13012/01/2019-IA. I (T) dated 24.03.2020 accorded by MoEF & CC Govt. of India for new unit No 5 of 660 MW.<br>Validity: Valid for a period of 7 years from the date of its issue to start operations by the power plant. | | |
| **CIVIL AVIATION CLEARANCE** | NOC for height Clearance vide NOC ID: MALD/EAST/B/100316/175516, Dated: 19.10.2016 obtained from Airports Authority of India.<br>Validity:The certificate is valid upto 7 years from the date of its issue.<br>(This NOC has been issued by Airports Authority of India in pursuance of Govt of India-Ministry of Civil Aviation Order.) | | |
| **CPCB CLEARANCE** | Not Applicable | | |
| **SPCB CLEARANCE** | Online application for Grant of Consent to Establish / NoC has been be made to WBPCB on 27.03.2021 | | |
| **FOREST CLEARANCE** | Not Applicable | | |

| UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED ) | | | |
|---|---|---|---|
| Sl. | MILESTONE | UNIT-01 | |
| | | Original Date of Completion | Actual/Anticipated Date of Completion |
| 1 | COMPLETION OF BOILER FOUNDATION | 19.04.2021 | U/P |
| 2 | START OF BOILER ERECTION | 29.04.2021 | 27.03.2021 |
| 3 | BOILER DRUM LIFTING | NA | |
| 4 | BOILER CEILING GIRDER LIFTING COMPLETION | 30.12.2021 | NIL |
| 5 | BOILER HYDRO TEST (DRAINABLE) COMPLETION | 30.12.2022 | 30.12.2022 |
| 6 | BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION | 29.05.2023 | 29.05.2023 |
| 7 | BOILER LIGHT UP | 13.06.2023 | 13.06.2023 |
| 8 | CHEMICAL CLEANING COMPLETION | 28.06.2023 | 28.06.2023 |
| 9 | STEAM BLOWING START | 13.07.2023 | 13.07.2023 |
| 10 | STEAM BLOWING COMPLETION | 12.08.2023 | 12.08.2023 |
| 11 | HP PIPING ERECTION START | 25.11.2022 | 25.11.2022 |
| 12 | HP PIPING ERECTION COMPLETION | 26.08.2023 | 26.08.2023 |
| 13 | CONDENSER ERECTION START | 03.03.2022 | 03.03.2022 |
| 14 | TG ERECTION START | 02.05.2022 | 02.05.2022 |
| 15 | TG BOX UP | 01.06.2023 | 01.06.2023 |
| 16 | START OF OIL FLUSHING | 28.03.2023 | 28.03.2023 |
| 17 | ROLLING & SYNC. | 01.09.2023 | 01.09.2023 |
| 18 | FULL LOAD | NP | NP |
| 19 | TRIAL RUN | 01.01.2024 | 01.01.2024 |
| 20 | COD | NP | NP |
| 21 | PG TEST START AND COMPLETION | 01.07.2024 | 01.07.2024 |

| MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL (27.12.2018) | | | |
|---|---|---|---|
| Sl. | Packages | UNIT-01 | % Completion |
| 1 | BOILER | CIVIL WORKS<br>STRUCTURAL WORKS<br>PRESSURE PARTS COMPLETION | PILE WORK 100%<br>.04%<br>NIL |
| 2 | TG | CIVIL WORKS<br>STRUCTURAL WORKS<br>PRESSURE PARTS COMPLETION | PILE WORK 100% |
| 3 | ESP | CIVIL WORKS<br>STRUCTURAL WORKS | PILE WORK 100% |
| 4 | FGD | Not Started yet | |

## STATUS OF BOPs

| Sl. | Packages/ Linked Project Milestones | Vendor/Contracting Agency (EPC- BHEL) | % Completion |
|---|---|---|---|
| 1 | Chimney | Pre-bid done. Tender Opening date : 08.07.2021 | |
| 2 | Coal Handling Plant | (Conveyor package) : M/s Bengal Tools Limited | Project is in early stage of development |
| | | Twin Wagon Tippler : M/s ThyssenKrupp) | |
| | | Existing Stacker Reclaimerof Stage-II will be used | |
| 3 | Ash Handling Plant | M/s. MacawberBeekeyPvt. Ltd. | Project is in early stage of development |
| 4 | Fuel Oil System | M/s. BHEL | |
| 5 | Cooling Towers | M/s. Paharpur Cooling Towers Limited | |
| 6 | CW Pump house & Piping | M/s. BHEL | |
| 7 | PT Plant | Will be used from Existing Stage – II Project. | |
| 8 | DM Plant | | |
| 9 | Air Compressor | M/s. BHEL | Project is in early stage of development |
| 10 | Fire Protection System | M/s. BHEL | |
| 11 | Switch Yard | M/s. BHEL | |
| 12 | Station Transformers | M/s. BHEL | |
| 13 | Unit Transformers | M/s. BHEL | |
| 14 | Railway siding | NP | |
| 15 | Power Evacuation | Power Evacuation from the proposed unit shall be done through the existing electrical network consisting of following feeders : (1) 220 KV New Sagardighi –1, (2) 220 KV New Sagardighi-2, (3) 400 KV Farakka-1, (4) 400 KV Farakka-2, (5) 400 KV Parulia-1, (6) 400 KV Parulia-2, (7) 400 KV Subhashgram, (8) 400 KV Jeerat, (9) 400 KV Baharampore-1, (10) 400 KV Baharampore-2, (11) 400 KV Gokarna-1, (12) 400 KV Gokarna -2. | |

**REASONS OF DELAY**:

**CRITICAL AREAS**: NIL

# LIST OF ABBREVIATIONS

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