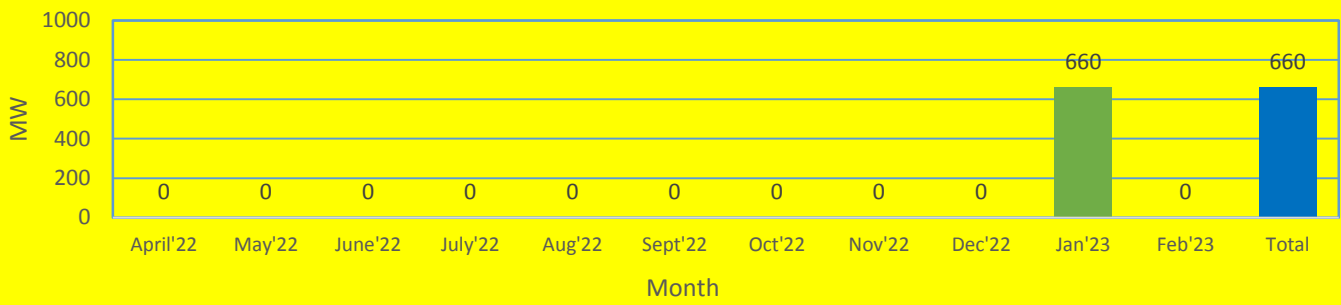


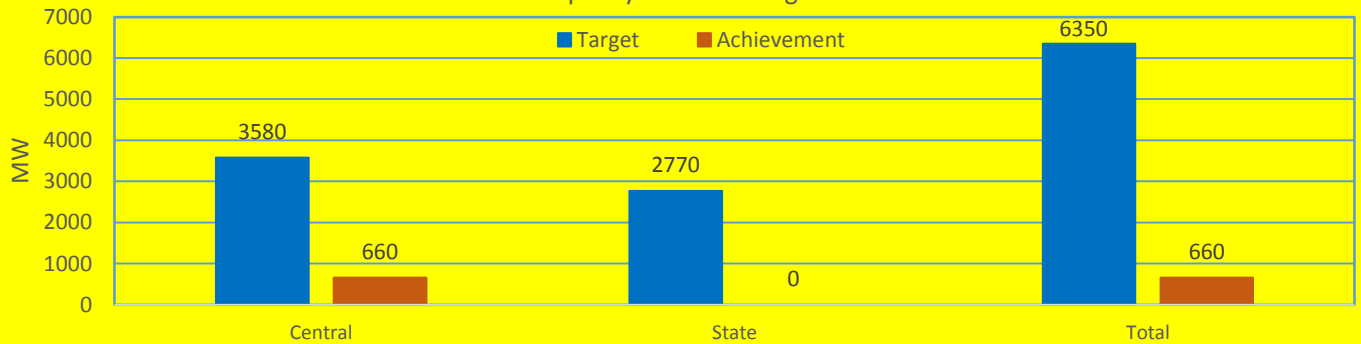


# BROAD STATUS REPORT OF UNDER CONSTRUCTION THERMAL POWER PROJECTS (FEBRUARY, 2023)

Monthly Thermal Capacity Addition achievement (MW) during FY :2022-23



Tentative Thermal Capacity Addition Program for FY 2022-23



**Thermal Project Monitoring Division**

**Central Electricity Authority**

**New Delhi**

**Ministry of Power**

**Government of India**

[www.cea.nic.in](http://www.cea.nic.in)

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

## **FOREWORD**

As per clause 73(f) of the 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 to avoid / minimize the time and cost overruns of the thermal power projects.

In this context, Thermal Project Monitoring Division, Central Electricity Authority has been bringing out the monthly report titled “Broad Status of Thermal Power Projects in the Country”. This report gives year-wise details of thermal power projects commissioned during the 12th 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, physical and financial progress, the milestones achieved as on date etc. are available. The critical issues requiring immediate attention of concerned authorities in the implementation of these thermal power projects have also been highlighted.

The Broad Status Report is being brought out regularly by TPM 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.

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

**Chief Engineer (TPM)**

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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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## EXECUTIVE SUMMARY

### I. All India Installed Capacity (MW)\*

Sector	Thermal					Nuclear	Hydro	RES	Grand total
	Coal	Lignite	Gas	Diesel	Total				
State	66737.50	1150.00	7012.05	280.31	75179.86	0.00	27254.45	2490.91	104925.23
Private	72598.00	1830.00	10574.24	308.89	85311.14	0.00	3931.00	117989.84	207231.98
Central	65100.00	3640.00	7237.91	0.00	75977.91	6780.00	15664.72	1632.30	100054.93
<b>Total</b>	<b>204435.50</b>	<b>6620.00</b>	<b>24824.21</b>	<b>589.20</b>	<b>236468.91</b>	<b>6780.00</b>	<b>46850.17</b>	<b>122113.06</b>	<b>412212.14</b>
% of Grand Total	49.59%	1.61%	6.02%	0.14%	57.37%	1.64%	11.37%	29.62%	100.00%

\*Compiled from Installed Capacity Report on NPP site (as on 28.02.2023).

### II. Tentative Year-wise Thermal Capacity likely to be included into National Capacity :

(as on 28.02.2023)

FY	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	Total (MW)
Central	2260	5940	2260	800	660	660	12580
State	2770	7680	3580	1600	0	0	15630
Private	0	0	0	0	0	0	0
<b>Total</b>	<b>5030</b>	<b>13620</b>	<b>5840</b>	<b>2400</b>	<b>660</b>	<b>660</b>	<b>28210</b>

### III. Details of Technology wise Under Construction TPPs (excluding TPPs on hold) in the country:

(as on 28.02.2023)

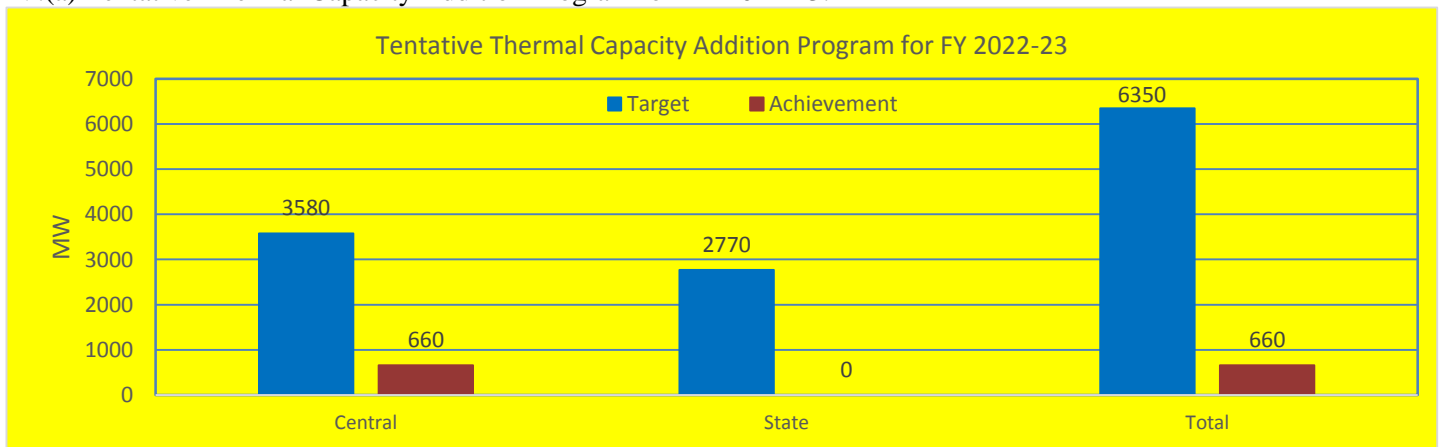
Sector	Super Critical #		Sub-Critical		Total	
	No. of Projects	Capacity (MW)	No. of Projects	Capacity (MW)	No. of Projects	Capacity (MW)
	[Units]		[Units]		[Units]	
Central	8 [18]	12580	0	0	8 [18]	12580
State	12 [21]	15260	1 [1]	370	13 [22]	15630
Private	0	0	0	0	0	0
<b>Total</b>	<b>20 [39]</b>	<b>27840</b>	<b>1 [1]</b>	<b>370</b>	<b>21 [40]</b>	<b>28210</b>

# Out of the 20 Supercritical TPPs, 6 projects (13 units) totaling to 9280 MW [4 projects (9 units) in central sector totaling 6640 MW and 2 projects (4 units) in state sector totaling 2640 MW] are based on Ultra Super critical technology. The details of these projects are given in table 1.2

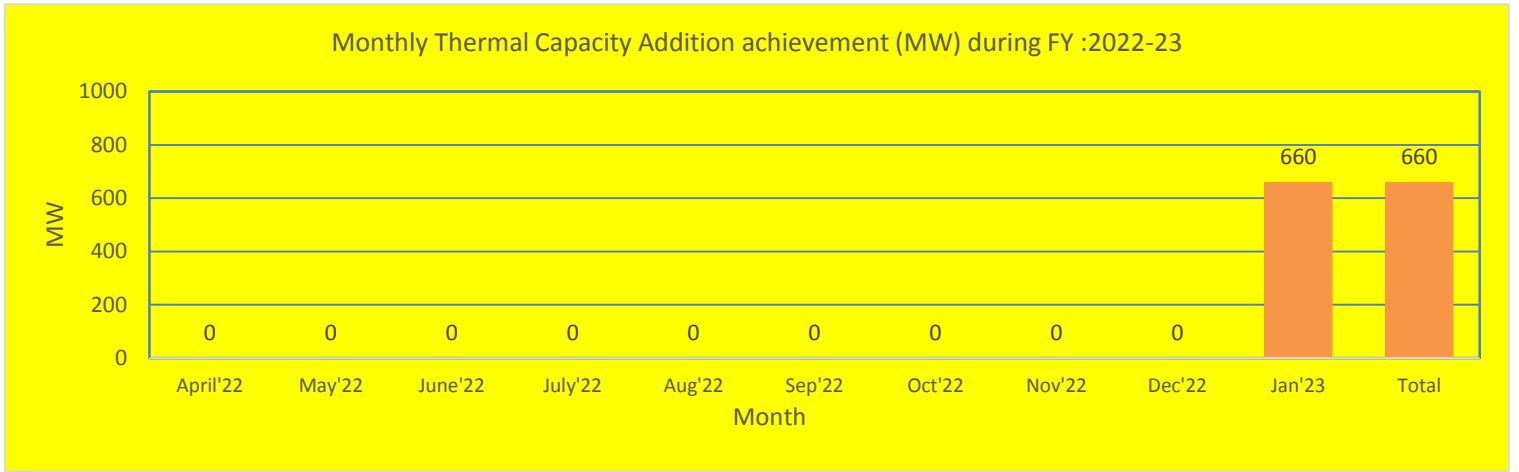
### IV. Sector-wise Thermal Capacity Addition during last five years :

Thermal capacity addition (MW) after 12th Plan (from 01.04.2017 onwards)										
Sector	FY:2017-18		FY:2018-19		FY:2019-20		FY:2020-21		FY:2021-22	
	Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
Central	4880	3170	2760	1960	6040	3940	5790	4080	5400	2370
State	3546	1760	4506	2850	4256	2780	4276	846	4360	1590
Private	2940	3780	Nil	972	Nil	45	525	0	525	525
<b>Total</b>	<b>11366</b>	<b>8710</b>	<b>7266</b>	<b>5782</b>	<b>10296</b>	<b>6765</b>	<b>10591</b>	<b>4926</b>	<b>10285</b>	<b>4485</b>

### V.(a) Tentative Thermal Capacity Addition Program for FY 2022-23:



V.(b) Monthly Thermal Capacity Addition Achievement during FY 2022-23:



1.1 Tentative Thermal Capacity Addition Program and Actual Achievement for FY 2022-23 :

(as on 28.02.2023)

S. No	Project Name	Implementing Agency	State	Boiler & Turbine Make	Unit No	Capacity (MW)	Trial Run anticipated at the Beginning of the year	Trial Run Assessment as per latest review by CEA	Capacity Achieved (MW)	Actual Date of Capacity Addition
<b>CENTRAL SECTOR</b>										
1	Barh STPP-I	NTPC	Bihar	Boiler:TPE/DPSI, TG: PowerMachine, Russia	U-2	660	Dec-22	Mar-23		
2	North Karanpura STPP	NTPC	Jharkhand	BTG: BHEL	U-1	660	May-22	-	660	18.01.2023
3	Ghatampur TPP	NUPPL	Uttar Pradesh	Boiler : L&T-MHI, TG : GE	U-1	660	Dec-22	<b>Jul-23</b>		
4	Telangana STPP St- I	NTPC	Telangana	Boiler :BHEL, TG: GE	U-1	800	Aug-22	Mar-23		
					U-2	800	Feb-23	<b>Jun-23</b>		
<b>Total Central Sector</b>						<b>3580</b>			<b>660</b>	
<b>STATE SECTOR</b>										
5	Dr. Narla Tata Rao TPS St-V	APGENCO	Andhra Pradesh	BTG: BHEL	U-1	800	Jul-22	<b>Jun-23</b>		
6	North Chennai TPP, St-III	TANGEDCO	Tamil Nadu	BTG: BHEL	U-1	800	Oct-22	<b>Sep-23</b>		
7	Yelahanka CCPP	KPCL	Karnataka	EPC: BHEL	GT+ST	370	Sep-22	<b>Jun-23</b>		
8	Sri Damodaram Sanjeevaiah TPP, St-II	APPDCL	Andhra Pradesh	EPC: BHEL	U-1	800	Apr-22	Mar-23		
<b>Total State Sector</b>						<b>2770</b>				
<b>Total Targeted Capacity</b>						<b>6350</b>			<b>660</b>	

1.2 Thermal Power Projects under construction in the Country:

(as on 28.02.2023)

S.No.	Project Name	State	Implementing Agency	Boiler	Turbine	Technology	LOA Date	Unit No	Cap. (MW)	Org Trial Run	Anticipated Trial Run (as per CEA)	Physical Progress (%)	Original Cost (cr)	Latest Cost (cr)	Total Exp. (cr)	Financial progress (%)
<b>CENTRAL SECTOR</b>																
1	Barh STPP-I	Bihar	NTPC	Doosan	Power Machine, Russia	Supercritical	Mar-05	U-2	660	Dec-10	Mar-23	97%	8693	21312	20676	97%
								U-3	660	Oct-11	Jun-24	87%				
2	Buxar TPP	Bihar	SJVN	L&T	L&T	Supercritical	Jun-19	U-1	660	May-23	Dec-23	56%	10439	10439	7197	69%
								U-2	660	Sep-23	Mar-24	33%				
3	North Karanpura STPP	Jharkhand	NTPC	BHEL	BHEL	Supercritical	Feb-14	U-2	660	Dec-18	Nov-23	89%	14367	15389	14084	92%
								U-3	660	Jun-19	Jun-24	79%				
4	Patratu STPP	Jharkhand	PVUNL	BHEL	BHEL	Ultra Supercritical	Mar-18	U-1	800	Jan-22	Jul-24	62%	17112	18668	10317	55%
								U-2	800	Jul-22	Dec-24	57%				
								U-3	800	Jan-23	Mar-25	41%				
5	Talcher TPP St-III	Odisha	NTPC	BHEL	BHEL	Ultra Supercritical	Sep-22	U-1	660	Nov-26	Nov-26	0%	11844	11844	321	3%
								U-2	660	May-27	May-27	0%				
6	Ghatampur TPP	Uttar Pradesh	NUPPL	L&T MHPS	GE Power system	Supercritical	Aug-16	U-1	660	May-20	Jul-23	87%	17238	17238	14730	85%
								U-2	660	Nov-20	Oct-23	78%				
								U-3	660	May-21	Dec-23	71%				
7	Khurja SCTPP	Uttar Pradesh	THDC	L&T MHI	BHEL	Ultra Supercritical	Aug-19	U-1	660	Jul-23	Feb-24	63%	11089	11089	6414	58%
								U-2	660	Jan-24	Aug-24	53%				
8	Telangana STPP St-I	Telangana	NTPC	BHEL	GE Power system	Ultra Supercritical	Feb-16	U-1	800	May-20	Mar-23	96%	10599	10998	10077	92%
								U-2	800	Nov-20	Jun-23	92%				
Total Central Sector									<b>12580</b>				<b>101381</b>	<b>116977</b>	<b>83816</b>	
<b>STATE SECTOR</b>																
1	Dr.Narla Tata Rao TPS St-V	Andhra Pradesh	APGENCO	BHEL	BHEL	Supercritical	Dec-15	U-1	800	Apr-19	Jun-23	85%	5287	7587	7533	99%
2	Sri Damodaram Sanjeevaiah TPP St-II	Andhra Pradesh	APPDCL	BHEL	BHEL	Supercritical	Nov-15	U-1	800	Jun-19	Mar-23	97%	4276	8813	8813	100%
3	Jawaharpur STPP	Uttar Pradesh	UPRVUNL	Doosan	Doosan	Ultra Supercritical	Dec-16	U-1	660	Dec-20	Jun-23	90%	8079	10566	9838	93%
								U-2	660	Apr-21	Dec-23	85%				
4	Obra-C STPP	Uttar Pradesh	UPRVUNL	Doosan India	Doosan India (GE)	Ultra Supercritical	Dec-16	U-1	660	Dec-20	Jun-23	89%	8778	10416	8358	80%
								U-2	660	Apr-21	Jan-24	71%				
5	Panki TPS Extn.	Uttar Pradesh	UPRVUNL	BHEL	BHEL	Supercritical	Mar-18	U-1	660	Sep-21	Jan-24	84%	5817	5817	4564	78%
6	Ennore SCTPP	Tamil Nadu	TANGEDCO	BHEL	BHEL	Supercritical	Sep-14	U-1	660	Nov-17	Jul-24	62%	9800	9800	5982	61%
								U-2	660	Jan-18	Sep-24	61%				
7	North Chennai TPP St-III	Tamil Nadu	TANGEDCO	BHEL	BHEL	Supercritical	Jan-16	U-1	800	Apr-19	Sep-23	93%	6376	8723	7701	88%
8	Udangudi STPP Stage I	Tamil Nadu	TANGEDCO	BHEL	BHEL	Supercritical	Dec-17	U-1	660	Jan-21	Mar-24	63%	13077	13077	7495	57%
								U-2	660	Mar-21	Jun-24	61%				
9	Uppur Super Critical TPP	Tamil Nadu	TANGEDCO	BHEL	BHEL	Supercritical	Feb-16	U-1	800	Nov-20	On Hold	6%	12778	12778	2554	20%
								U-2	800	Nov-20	On Hold	5%				
10	Yadadri TPS	Telangana	TSGENCO	BHEL	BHEL	Supercritical	Oct-17	U-1	800	Oct-21	Dec-23	76%	25099	29965	20046	67%
								U-2	800	Oct-21	Dec-23	77%				
								U-3	800	Jun-22	Sep-24	68%				
								U-4	800	Jun-22	Aug-24	70%				
								U-5	800	Oct-22	Nov-24	64%				
11	Yelahanka CCPP	Karnataka	KPCL	BHEL	BHEL	Sub critical	Nov-15	GT+S T	370	Feb-18	Jun-23	97%	1571	2372	2372	100%
12	Bhusawal TPS	Maharashtra	MAHAGENCO	BHEL	BHEL	Supercritical	Jan-18	U-6	660	May-22	Jul-23	85%	4548	4551	4017	88%
13	Sagardighi Thermal Power Plant Ph-III	West bengal	WBPDCL	BHEL	BHEL	Supercritical	Dec-18	U-1	660	Jan-24	Sep-24	44%	3863	4567	1234	27%
Total State Sector									<b>15630</b>				<b>109347</b>	<b>129032</b>	<b>90507</b>	
Grand Total									<b>28210</b>				<b>210729</b>	<b>246010</b>	<b>174323</b>	

1.3 Under construction TPPs where work is on hold / not likely to be commissioned:

(as on 28.02.2023)

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
<b>CENTRAL SECTOR</b>											
1	Rajasthan	Barsingar TPP ext/NLC/Reliance Infra/Chinese	Nov-16	U-1	250	May-20	Project is held up due to withdrawal of PPA by DISCOM (Rajasthan). This project may not be revived due to land issue in link mines and consequently higher tariff.. Due to cost over run and time over run, tariff of this project is very high.	2112.59	2112.59	158.25	Jan- 21
2	Rajasthan	Bithnok TPP /NLC/Reliance Infra/ Chinese	Nov-16	U-1	250	May-20	Project is held up due to withdrawal of PPA by DISCOM. On 04-08-2022 a meeting held MoC/NLC/GoRaj(CS)/GoRaj(Pr Secy-Energy) to revive the Bithnok TPS for which a consultant to be appointed. Final decision will be taken after getting report from the consultant. Due to cost over run and time over run, tariff of this project is very high.	2196.3	2196.3	173.82	Jan- 21
TOTAL CENTRAL SECTOR [No. of Projects: 2, No. of Units: 2]					500						
<b>STATE SECTOR</b>											
1	Tamil Nadu	Ennore Exp. SCTPP/ Tangedco/ BTG Lanco (DEC-CHINA )	May-14	U-1	660	Jan-18	As per Board decision to revive the project, LOI issued to M/s BGRESL. Some preliminary civil works have been started by deploying labours at site by M/s BGR. In the meantime, M/s BGR is in the process of finalization of drawings / documents	4956	5421.38	791.4	Dec- 17
TOTAL STATE SECTOR [No. of Projects: 1, No. of Units: 1]					660						
<b>PRIVATE SECTOR</b>											
1	Andhra Pradesh	Bhavanapadu TPP Ph-I / East Coast Energy Ltd. / BTG DEC china	Sep-09	U-1	660	Oct-13	Liquidation Order date 22/04/2019. Liquidator has partially sold the assets of the company on a standalone basis through e-auction. RP has entered into an agreement to sell with a buyer for sale of Plant Land after seeking approvals from the NCLT for a private sale. As regards remaining assets i.e. Township and other miscellaneous assets, RP have published an advertisement in the News-papers (Business Standard and Sakshi) on 16-08-2022 after 5 unsuccessful auctions. The last date for submission of EoI was 01-09-2022.	6571.94	9343.15	3785.6	Jan- 16
			Sep-09	U-2	660	Mar-14					
2	Andhra Pradesh	Thamminapatnam TPP stage -II / Meenakshi Energy Pvt. Ltd. SG-Cether vessels TG- Chinese	Dec-09	U-3	350	May-12	Bidding process recently got completed; Vedanta Ltd. declared Successful bidder	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; The liquidator is unable to sell, alienate, transfer or create third party encumbrance on the property of the Corporate Debtor owing to NCLAT directions. Liquidator is awaiting further directions from NCLAT for completion of the liquidation process	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 (Shanghai china) / TG- SEPCO (Dongfong china)	Apr-09	U-4	600	Apr-13	Admitted to NCLT on 03.01.2019 CIRP commenced on 3rd October 2019 & currently under NCLT	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	Due to non-availability of Long – Term PPA'S , lenders are not sanctioning any fresh loans. Due to funds constraint developer is not in a position to implement balance 2*300 MW BTG at this point of time.	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. Resolution Plan being considered	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. The Liquidator is under process and making efforts for Sale as a going concern.	6200	8443.79	6408.47	May- 17
			Dec-09	U-2	600	Feb-15					
8	Chhattisgarh	Salora TPP / Vandana Vidyut/ Boiler- Cether Vessels /TG Harbin China	Sep-09	U-2	135	Sep-11	Liquidation Order date 16.12.2019 The Liquidator has sold the assets of the project on Slump Sale basis	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 The liquidator has started the process of liquidating the company by selling the assets of the Corporate Debtor on piecemeal basis. BHEL claims certain unpaid lien on the assets available at the site of the Corporate Debtor and in this regard matter is still pending before the Supreme Court of India.	2618.7	3930	2077.23	Nov- 15
10	Jharkhand	Matrishri Usha TPP Ph-I / CorporatePower Ltd. EPC- BHEL	Dec-09	U-1	270	Apr-12	Admitted to NCLT on 19.02.2020 No compliant resolution plan were received, hence no resolution has been implemented. The liquidator may explore for sale of company as a going concern under the liquidation process after receipt of the liquidation order from the NCLT.	2900	3120	3120	Nov- 12
			Dec-09	U-2	270	May-12					
11	Jharkhand	Matrishri Usha TPP Ph-II / CorporatePower Ltd. EPC- BHEL	Mar-11	U-3	270	Oct-12		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 The Liquidator has initiated the e- auction process for realizing the assets of the Corporate Debtor and till date has sold around 15,000 MT of Fabricated Steel Structure from the power plant	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		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	Company has decided to drop Phase II due to following reasons: a) no new Bids for Long Term PPAs have been coming up in the Market since the last 5 years. b) the revised emission norms under the Environment (Protection) Amendment Rules, 2015 revising, inter alia, emission norms for thermal power plants., drastic changes in the design and equipment of Phase II was required to be carried out.	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	Nasik TPP Ph-II / Ratan India Nasik Power Pvt. Ltd. BTG-BHEL.	Nov-09	U-1	270	Apr-13	Admitted in NCLT on 19-09-2022 against application of operational creditor. NCLAT stayed proceeding vide order dated 26-09-2022.	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					
16	Maharashtra	Lanco Vidarbha TPP / LVP Pvt. Ltd. EPC- LANCO/ Boiler- Dongfong China / Turbine- Harbin china	Nov-09	U-1	660	Jul-14	Liquidation Order date 30.06.2021 The Liquidator has initiated for E- Auction Sale as a going concern.	6936	10433	5338	Apr- 17
			Nov-09	U-2	660	Nov-14					
17	Maharashtra	Bijora Ghanmukh TPP / Jinbhuvish Power Generation Pvt. Ltd.	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	Liquidation Order date 10.03.2021 7th e-Auction of the company on Slump Sale basis is currently underway	2413	2413	2277.94	Apr- 17
19	Madhya Pradesh	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. Given the current status of Thermal Power Industry, company is exploring alternate options	3941	3941	475.79	Sep- 15
20	Odisha	Ind Barath TPP (Odisha) / Ind Barath/BTG-Cethar Vessels	May-09	U-2	350	Dec-11	Admitted to NCLT on 29-08-2018. NCLT vide order dated 25-07-2022 has approved the Resolution plan of JSW Energy. RP is under implementation. Plant to be revived by JSW as per approved plan.	3150	4254	4254	Apr- 17
21	Odisha	KVK Nilanchal TPP/ KVK Nilanchal /BTG-Harbin China	Nov-09	U-1	350	Dec-11	Liquidation Order date 17.12.2020. The Liquidator has initiated for E- Auction Sale as a going concern.	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. The Liquidator has partially sold the assets of the company on a standalone basis through e-auction	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. The Company is under liquidation. Plan is to sell entire plant. Liquidation of the said project is not complete. There is stay by Hon'ble NCLAT which is sub judice right now.	5093	6330	5329.75	Dec- 14
			Jun-10	U-2	525	Feb-13					
24	Tamil Nadu	Tuticorin TPP (Ind- Barath) / IBPIL / BTG- Shangdong China	May-10	U-1	660	May-12	Liquidation Order date 22.04.2019. Stay on Liquidation Order	3595	3595	2000	May- 15
25	West Bengal	Hiranmaye Energy Ltd (India Power corporation (Haldia) TPP / Haldia Energy Ltd/ EPC- MEIL /BTG-BHEL.	Sep-10	U-3	150	May-16	Project is currently under hold	2656	3307	3263.05	Oct- 17
TOTAL PRIVATE SECTOR [No. of Projects:25, No. of Units:52]					23205						
GRAND TOTAL [No. of Projects: 28, No. of Units: 55]					24365						

**BARH STPP St-I, Unit# 1, 2 & 3 (3x660 MW) / NTPC (CENTRAL SECTOR)**

NTPC Barh Super Thermal Power Station, Barh, Distt – Patna, Bihar – 803215

E-Gen Portal Registration No. (U#1 - 1200002610; U#2 - 1200002611; U#3 - 1200002612 )

Project Developer / Implementing Agency - NTPC		Main Plant Vendor : SG-Ms/TPE/DPSI, TG: Power Machines, Russia,		
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual	Trial Run Date
Unit#1	Mar-2005	Feb-2010	Oct-2021 (A)	
Unit#2		Dec-2010	Mar-2023	
Unit#3		Oct-2011	Jun-2024	
CLEARANCES AND STATIC DATA		FINANCIAL DATA (Fig. in Rs. Crore)		
FUEL TYPE	Coal, Indigenous, Non-pit head		ORIGINAL ESTIMATED COST OF THE PROJECT	8693.00
COAL COMBUSTION TECHNOLOGY	Supercritical		LATEST ESTIMATED COST	21312.11
APPROVAL DATE / NTP	Feb-2005		DATE OF FINANCIAL CLOSURE	21.02.2005
EPC/BTG/BoP Contractor Details (Package Wise)	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.		YEAR WISE EXPENDITURE	
PPA	Bihar (incl. Home state share): 1025 MW, Jharkhand: 202 MW, Orissa: 418 MW, Sikkim: 38 MW and unallocated: 297MW.		2010-11	921.81
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 MTPA) 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.		2011-12	1286.25
START UP POWER AGREEMENT	Done with PGCIL on 27.01.2020 for 400 kV D/C LILO of Kahalgaon-Patna, Barh-Patna & Barh-Gorakhpur lines		2012-13	1384.43
POWER EVACUATION SYSTEM	Tx Line Developer	PGCIL	2013-14	1581.22
	Tx Line Name Tx Voltage Level	LILOfing of Kahalgaon – Patna 400 kV D/C (Quad) line at Barh (NTPC) switchyard.	2014-15	568.49
	Configuration of Tx Line (S/C or D/C)	D/C	2015-16	1143.46
LAND POSSESSION	Required – 3212 Acres, Under Possession – 3212 Acres		2016-17	1410.21
WATER ALLOCATION	100 Cusec from River Ganges		2017-18	1389.43
MOEF CLEARANCE	11.09.2001		2018-19	1453.89
CIVIL AVIATION CLEARANCE	09.08.2004		2019-20	1502.47
CPCB CLEARANCE	Not Applicable		2020-21	1123.15
SPCB CLEARANCE	Consent to Operate (Emission & Discharge) Granted by SPCB on 04.07.2017, For Unit#1, and is Valid upto 30.09.2021		2021-22	1185.00
FOREST CLEARANCE	Not Applicable		EXPENDITURE OF FEB'2023	67.106
			TOTAL EXPENDITURE (upto 28.02.2023)	20675.70

**BARH STPP St-I, Unit# 1, 2 & 3 (3x660 MW)**

UNIT WISE MILESTONES ( ANTICIPATED / ACTUAL )							STATUS OF MAIN PLANT PACKAGE (BTG) / SG - DPSI, TG - Power Machine, Russia									
Sl.	MILESTONE	UNIT-01		UNIT-02		UNIT-03		Sl.	Packages	AREA	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				% Completion	% Completion	% Completion			
1	COMPLETION OF BOILER FOUNDATION	Complete		Complete		Complete		1	BOILER	CIVIL	100%	100%	94%			
2	START OF BOILER ERECTION	May-06	Mar-11	Mar-07	Jul-11	Jan-08	Jan-12			STRUCTURE	100%	100%	75%			
3	BOILER DRUM LIFTING (if sub-critical unit)	NA		NA		NA				PRESSURE PARTS	100%	100%	89%			
4	BOILER CEILING GIRDER LIFTING COMPLETION	Complete		Complete		Complete		2	TG	CIVIL	100%	100%	95%			
5	CONDENSER ERECTION START	Jun-07	Nov-08	Apr-08	Jan-09	Feb-09	Nov-13			STRUCTURE	100%	100%	97%			
6	TG ERECTION START	Aug-07	Aug-11	Jun-08	Sep-11	Apr-09	Mar-12			TG ERECTION	100%	100%	72%			
7	HP PIPING ERECTION START			May-09	Oct-19	Mar-09	Sep-23	3	ESP	UNDER PROGRESS	100%	98%	95%			
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	Dec-07	Feb-13	Oct-08	Jan-21	Aug-09	Jul-23	4	FGD	CIVIL WORK	25%	12%	13%			
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION		Feb-13	Oct-08	Jan-21	Aug-09	Aug-23			MATERIAL SUPPLY	26%	25%	20%			
10	TG BOX UP	Aug-08	Dec-13	Jun-09	Jan-15	Apr-10	Feb-24			ERECTION WORK	1%	Yet to start	Yet to start			
11	HP PIPING ERECTION COMPLETION			Aug-09	Jun-22	Jun-09	Dec-23	<b>STATUS OF BOPs</b>								
12	START OF OIL FLUSHING			Jul-09	Dec-21	May-09	Dec-23	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (DPSI)	Date of Award	Scheduled Date of Completion	Anticipated/Actual Date of Completion	UNIT-01 % Completion	UNIT-02 % Completion	UNIT-03 % Completion
13	BOILER LIGHT UP	Aug-08	Aug-19	Jun-09	May-22	Apr-10	Dec-23	1	Chimney	NBCC	20.12.2005	19.07.2009	Completed	100%	100%	100 %
14	CHEMICAL CLEANING COMPLETION			Jul-09	May-22	May-10	Dec-23	2	Coal Handling Plant	L&T (Conveyor package)	22.09.2005	21.08.2009	U2-Mar'23; U3-Oct'23	100%	98%	68%
15	STEAM BLOWING START			Sep-09	Jul-22	Jul-10	Feb-24			L&T (Wagon Tippler)		21.07.2009	Completed	100%	100 %	100 %
16	STEAM BLOWING COMPLETION	Jan-09	Jan-20	Nov-09	Oct-22	Sep-10	Mar-24			L&T(Stacker Reclaimer)		21.09.2009	Completed	100%	100 %	100 %
17	ROLLING & SYNC.	Mar-09	Sep-20	Jan-10	Mar-23	Nov-10	Apr-24	3	Ash Handling Plant	Melco	15.04.2016	14.01.2019	U2-Mar'23; U3-Oct'23	100%	90%	60%
18	FULL LOAD	Jul-09	Apr-21	Apr-10	Mar-23	Mar-11	May-24	4	Fuel Oil System	Techno	07.05.2006	05.07.2009	U2-Completed U3-Jun'23	100%	100 %	78%
19	TRIAL RUN	Feb-10	Oct-21	Dec-10	Mar-23	Oct-11	Jun-24	5	Cooling Towers	Paharpur	28.12.2005	27.08.2009	U2-Mar'23; U3-Oct'23	100%	95%	82%
20	COD	Mar-10	Nov-21	Jan-11	Mar-23	Nov-11	Jul-24	6	CW Pump house	KBL	17.07.2006	16.01.2014	U3-Apr'23	100%	100 %	95 %
								7	WPT Plant	SPML	28.05.2007	27.11.2008	U3-Dec'23	100%	100 %	87 %
								8	DM Plant	Driplex	24.03.2006	23.09.2008	Completed	100%	100 %	100 %
								9	Compressed Air System	Power Machines	24.03.2005	29.10.2014	U3-Mar'23	100%	100%	96%
								10	Fire Protection System	Minimax	24.03.2006	23.07.2008	U2-Nov'22(A); U3-Aug'23	100%	100%	80%
								11	Switch Yard	BHEL	23.03.2006	06.11.2009	Completed	100%	100 %	100 %
								12	Station Transformers	ABB	10.10.2005	11.09.2008	U3-Dec'23	100%	100%	92%
								13	Unit Transformers	TRIL/BHEL/Kanohar	22.05.2006	21.01.2009	U3-Aug'23	100%	100%	90%
								14	Railway Siding	RITES	28.06.2006	27.12.2007	Line a/v	100%	100 %	100 %
								15	Power Evacuation Lines	PGCIL			Line a/v	100%	100%	100%

**CRITICAL ISSUES**

- ♦ Unit#2 : non-availability of commissioning experts for Generator (M/s Electrosila Russia) delayed the trial run planned in Dec-2022.
- ♦ Construction of Hazaribagh-Koderma-Tilaiya-Rajgir-Bakhtiyarpur rail route for ease of coal transportation.
- ♦ Construction of Karnauti-Bakhtiyarpur flyover (NTPC funded).
- ♦ Construction of Manpur Flyover (ROR) (NTPC funded).
- ♦ Electrification of Manpur-Tillaiya-Bakhtiyarpur section.

**REASONS OF DELAY**

- ♦ Inordinate delay by Main Plant (SG & Auxiliaries Package) vendor M/s TPE. Work started after 6 Years of award. Contract of M/s TPE was terminated in Jan'15 due to consistent failure of commitments and poor performance. Contract for balance works re-awarded after 1 year in Jan'2016.
- ♦ 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.
- ♦ Due to unusual delay in project commissioning for Main plant vendors, revival of Balance Offsite Packages is taking considerable time.
- ♦ Due to US sanction on Power Machines, Russia, balance TG/SG supplies and works got delayed. Due to ongoing war between Ukraine & Russia availability of experts from Ukraine is affected.

**NORTH KARANPURA TPP, Unit# 1, 2 & 3 (3x660 MW) / NTPC (CENTRAL SECTOR)**

NTPC North Karanpura, Tandwa, Sub division – Simaria, Distt–Chatra – Jharkhand-825321  
E-Gen Portal Registration No. (U#1 - 1200002378; U#2 - 1200002379; U#3 - 1200002380 )

Project Developer / Implementing Agency - NTPC		Main Plant Vendor - BHEL (EPC)			
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual	Trial Run Date	
Unit#1	Feb-2014	Jun-2018	18-Jan-2023(A)		
Unit#2		Dec-2018	Nov-2023		
Unit#3		Jun-2019	Jun-2024		
CLEARANCES AND STATIC DATA				FINANCIAL DATA (Fig. in Rs. Crore)	
FUEL TYPE	Coal, Pithead			ORIGINAL ESTIMATED COST OF THE PROJECT	14367.00
COAL COMBUSTION TECHNOLOGY	Supercritical			LATEST ESTIMATED COST	15389.42
APPROVAL DATE / NTP	Feb-2014			DATE OF FINANCIAL CLOSURE	28.01.2014
EPC/BTG/BoP Contractor Details (Package Wise)	BTG (EPC) – BHEL			YEAR WISE EXPENDITURE	
PPA	Jharkhand: 500 MW; Odisha: 396 MW; Bihar: 688 MW; WB: 99 MW; Unallocated: 297 MW.			2010-11	8.17
COAL LINKAGE/FSA	Letter of Assurance dtd. 24.03.2015 from CCL, securing 7.039 MTPA coal (G7-G11) for 03 Units. FSA to be signed after commissioning in terms of para 1A (i) of SHAKTI-2017 policy.			2011-12	4.88
START UP POWER AGREEMENT	Through ATS – 400 KV NK Chandwa line. Line is under construction. Agreement yet to be done.			2012-13	5.75
POWER EVACUATION SYSTEM	Tx Line Developer	NKTL		2013-14	1362.18
	Tx Line Name Tx Voltage Level	i) NKSTPP-Chandwa 400 KV, D/c line ii) NKSTPP-Gaya, 400 KV D/c line		2014-15	527.92
	Configuration of Tx Line (S/C or D/C)	D/C		2015-16	615.73
LAND POSSESSION	2263/ 2293 Acres. 30 Acres pending for acquisition.			2016-17	2199.92
WATER ALLOCATION	20 Cusec from Garhi River – Raw water drawl agreement signed with DVC on 18.09.2020.			2017-18	2044.46
MOEF CLEARANCE	29.11.2004			2018-19	1747.91
CIVIL AVIATION CLEARANCE	13.02.2009			2019-20	1762.62
CPCB CLEARANCE	Not Applicable			2020-21	1243.28
SPCB CLEARANCE	Available. 31.12.2001 for Bihar. 11.12.2014 for Jharkhand			2021-22	1051.00
FOREST CLEARANCE	03.11.2015			Expenditure of FEB' 2023	189
				TOTAL EXPENDITURE (upto 28.02.2023)	14084

**NORTH KARANPURA TPP, Unit# 1, 2 & 3 (3x660 MW) / NTPC (CENTRAL SECTOR)**

**UNIT WISE MILESTONES ( ANTICIPATED / ACTUAL )**

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		Complete	
2	START OF BOILER ERECTION	Aug-15	Apr-16	Feb-16	Jul-16	Aug-16	Jun-17
3	BOILER DRUM LIFTING (if sub-critical unit)	NA		NA		NA	
4	BOILER CEILING GIRDER LIFTING COMPLETION	Complete		Complete		Complete	
5	CONDENSER ERECTION START	May-16	Nov-18	Nov-16	Jan-20	May-17	Mar-23
6	TG ERECTION START	Jul-16	Nov-17	Jan-17	Jan-18	Jul-17	Mar-22
7	HP PIPING ERECTION START	-	-	-	-	-	-
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	Jan-17	Dec-18	Jul-17	Oct-19	Jan-18	Aug-23
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	Mar-17	Jan-19	Jul-17	Oct-19	Jan-18	Aug-23
10	TG BOX UP	Jun-17	Aug-19	Dec-17	Jan-22	Jun-18	Dec-23
11	HP PIPING ERECTION COMPLETION	-	-	-	-	-	-
12	START OF OIL FLUSHING	-	-	-	-	-	-
13	BOILER LIGHT UP	Aug-17	Dec-20	Feb-18	May-23	Aug-18	Jan-24
14	CHEMICAL CLEANING COMPLETION	-	-	-	-	-	-
15	STEAM BLOWING START	-	-	-	-	-	-
16	STEAM BLOWING COMPLETION	Oct-17	Feb-21	Apr-18	Jul-23	Oct-18	Mar-24
17	ROLLING & SYNC.	Dec-17	21.10.2022	Jun-18	Sep-23	Dec-18	Apr-24
18	FULL LOAD	Feb-18	20.12.2022	Aug-18	Oct-23	Feb-19	May-24
19	TRIAL RUN	Jun-18	18.01.2023	Dec-18	Nov-23	Jun-19	Jun-24
20	COD	-	01-03-2023	-	Dec-23	-	July-24

**STATUS OF MAIN PLANT PACKAGE (BTG) : BHEL**

Sl.	Packages	AREA	UNIT-01	UNIT-02	UNIT-03
			% Completion	% Completion	% Completion
1	BOILER	CIVIL	100%	98%	84%
		STRUCTURE	100%	93%	68%
		PRESSURE PARTS	100%	100%	47%
2	TG	CIVIL	100%	100%	97%
		STRUCTURE	100%	100%	97%
		TG ERECTION	NA	NA	NA
3	ESP	UNDER PROGRESS	100%	98%	70%
4	FGD	CIVIL WORK	45%	40%	35%
		MATERIAL SUPPLY	45%	40%	35%
		ERECTION WORK	19%	3%	1%

**STATUS OF BOPs**

Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency	Date of Award	Scheduled Date of Completion	Anticipated/Actual Date of Completion	UNIT-01	UNIT-02	UNIT-03
						% Completion	% Completion	% Completion
1	Chimney	M/s BHEL	Feb-14	Dec-18	U#1-Dec-18 U#2-Jun-19 U#3-Sep-23	100%	90%	99%
2	Coal Handling Plant	M/s BHEL (Conveyor package)	Feb-14	Dec-18	U#2-Sep-23 U#3-Dec-23	100%	65%	27%
		M/s BHEL (Wagon Tripler)	Feb-14	NA	NA	NA	NA	NA
		M/s BHEL (Stacker Reclaimer)	Feb-14	Dec-18	U#1-Nov-22 (A) U#2&3-Sep-23	100%	48%	48%
3	Ash Handling Plant	M/s BHEL	Feb-14	Dec-18	U#1-Jan-23(A) U#2-Sep-23 U#3-Dec-23	100%	80%	60%
4	Fuel Oil System	M/s BHEL	Feb-14	Dec-18	Completed	100%	100%	100%
5	Cooling Towers	M/s BHEL	Feb-14	Dec-18	Completed	100%	100%	100%
6	CW Pump house	M/s BHEL	Feb-14	NA	NA	NA	NA	NA
7	WPT Plant	M/s BHEL	Feb-14	Dec-18	Completed	100%	100%	100%
8	DM Plant	M/s BHEL	Feb-14	Dec-18	Completed	100%	100%	100%
9	Compressed Air System	M/s BHEL	Feb-14		Completed	100%	100%	100%
10	Fire Protection System	M/s BHEL	Feb-14		U#2-Jun-23 U#3-Sep-23	100%	50%	10%
11	Switch Yard	BHEL-TBG/Arun Construction Technico India Pvt. Ltd.	Feb-14	Dec-18	U#2-May-23 U#3-Jul-23	100%	75%	75%
12	Station Transformers	M/s BHEL	Feb-14	Mar-18	U#2-Jun-23	100%	25%	100%
13	Unit Transformers	M/s BHEL	Feb-14	Jul-18	U#2-May-23 U#3-Sep-23	100%	35%	35%
14	Railway Siding	M/s BHEL	Feb-14	NA	NA	NA	NA	NA
15	Power Evacuation Lines	M/s BHEL	May-16	Sep-19	NK Chandwa line : Oct-22 (A)	100% (Chandwa)	100% (Chandwa)	51% (Gaya)

**CRITICAL ISSUES**

Delay in handing over of encumbrance free balance 55 acres land as mentioned below, by CCL to NTPC for construction of external Coal Handling Plant.

- 21 acres forest land: Stg-1 clearance received in Nov'21. However, tree cutting permission is awaited from CCL/GoJ.
- 34 acres pvt land: CCL to resolve the issue with Raiyats for handing over this land to NTPC.
- Support of State Govt. of Jharkhand is required for possession of balance 23.5 Acres land for Ash Dyke & Reservoir

**REASONS OF DELAY**

- Main plant layout was changed to avoid GM land which Govt. was not in position to handover due to encroachments.
- Delay in Award of Critical Packages by BHEL. Air Cooled Condenser (ACC) Mechanical Package awarded in Mar'17 with a delay of 31 months; ACC civil package was awarded in May'17 with a delay of 27 months.
- Delay due to slow work progress by EPC agency (M/s BHEL). Slow progress of Air Cooled Condenser works by M/s BHEL may affect the current commissioning target of project.
- 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 Local Agitation again started on 23.02.2022
- Delay due to COVID-19 pandemic since Mar'20 and due to non-availability of Industrial oxygen during second wave Further Oxygen Plant has been Commissioned at NKSTPP

**TELANGANA THERMAL POWER PROJECT, St-I, Unit# 1 & 2 (2X800 MW ) / NTPC (CENTRAL SECTOR)**

NTPC Telangana, PO Ramagundam (Sub Office), Karim Nagar, Telangana:- 505208

E-Gen Portal Registration No. ( U#1 - 1200001966; U#2 - 1200001967 )

Project Developer / Implementing Agency - NTPC		Main Plant Vendor : SG-BHEL, TG- GE		
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual	Trial Run Date
Unit#1	Feb-2016	May-2020		Mar-2023
Unit#2		Nov-2020		Jun-2023
CLEARANCES AND STATIC DATA			FINANCIAL DATA (Fig. in Rs. Crore)	
FUEL TYPE	Coal, Indigenous, Non- pit head		ORIGINAL ESTIMATED COST OF THE PROJECT	10599.00
COAL COMBUSTION TECHNOLOGY	Ultra-supercritical		LATEST ESTIMATED COST	10997.70
APPROVAL DATE / NTP	Jan-2016		DATE OF FINANCIAL CLOSURE	29.01.2016
EPC/BTG/BoP Contractor Details (Package Wise)	SG Island – BHEL – 05.02.2016; TG Island – GE – 05.02.2016		YEAR WISE EXPENDITURE	
PPA	1360 MW power has been allocated to Telangana. Balance 240 MW is unallocated.		2015-16	6.34
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 quantified by the Coal Controller is 6.846 MTPA.		2016-17	798.21
START UP POWER AGREEMENT	Start up Power has been granted for Telangana STPP by SRLDC on 26-6-2020 through RSTPS-TeSTPP 400 KV D/C line		2017-18	1062.65
POWER EVACUATION SYSTEM	Tx Line Developer	TSTRANSCO	2018-19	2535.67
	Tx Line Name Tx Voltage Level	i) TeSTPP-Narsapur, 400 KV, D/C Line. ii) TeSTPP- Ramadugu ,400 KV, D/C line.	2019-20	2599.45
	Configuration of Tx Line (S/C or D/C)	D/C	2020-21	1308.35
LAND POSSESSION	Being accommodated within the land possessioned with NTPC Ramagundam project. No new land acquired for the project.		2021-22	828.00
WATER ALLOCATION	60 cusecs from Yellampally Barrage on Godavari river		EXPENDITURE OF FEB'2023	72.80
MOEF CLEARANCE	20.01.2016, Valid upto 19.01.2024		TOTAL EXPENDITURE (upto 28.02.2023)	10076.80
CIVIL AVIATION CLEARANCE	29.03.2011			
CPCB CLEARANCE	Not Applicable			
SPCB CLEARANCE	Extension for Stg-1 approved by TSPCB up to 19-01-2023			
FOREST CLEARANCE	Not Applicable			

**TELANGANA THERMAL POWER PROJECT, Unit# 1 & 2 (2X800 MW, St-I) / NTPC (CENTRAL SECTOR)**

UNIT WISE MILESTONES ( ANTICIPATED / ACTUAL)					
Sl.	MILESTONE	UNIT-01		UNIT-02	
		Original Date	Actual / Anticipated Date	Original Date	Actual / Anticipated Date
1	COMPLETION OF BOILER FOUNDATION	Complete		Complete	
2	START OF BOILER ERECTION	Mar-17	Dec-17	Sep-17	Dec-17
3	BOILER DRUM LIFTING (if sub-critical unit)	NA		NA	
4	BOILER CEILING GIRDER LIFTING COMPLETION	Complete		Complete	
5	CONDENSER ERECTION START	Feb-18	Jul-18	Aug-18	Feb-19
6	TG ERECTION START	May-18	Aug-18	Nov-18	Mar-19
7	HP PIPING ERECTION START	May-19	Jun-20	Nov-19	Oct-22
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	Nov-18	Nov-21	May-19	Apr-22
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION		May-22		Aug-22
10	TG BOX UP	Apr-19	Sep-19	Oct-18	May-20
11	HP PIPING ERECTION COMPLETION	Aug-19	Jul-22	Feb-19	Mar-23
12	START OF OIL FLUSHING	Complete		Complete	
13	BOILER LIGHT UP	Jun-19	Jun-22	Dec-19	Dec-22
14	CHEMICAL CLEANING COMPLETION	Jul-19	Jul-22	Jan-20	Dec-22
15	STEAM BLOWING START	Sep-19	Aug-22	Feb-20	Apr-23
16	STEAM BLOWING COMPLETION	Sep-19	Nov-22	Mar-20	Apr-23
17	ROLLING & SYNC.	Nov-19	Mar-23	May-20	Jun-23
18	FULL LOAD	Jan-20	Mar-23	Jul-20	Jun-23
19	TRIAL RUN	May-20	Mar-23	Nov-20	Jun-23
20	COD	Jun-20	Apr-23	Dec-20	Jul-23

STATUS OF MAIN PLANT PACKAGE (BTG) : SG - BHEL, TG - GE				
Sl.	Packages	AREA	UNIT-01	UNIT-02
			% Completion	% Completion
1	BOILER	CIVIL	100%	95%
		STRUCTURE	100%	91%
		PRESSURE PARTS	100%	97%
2	TG	CIVIL	100%	100%
		STRUCTURE	100%	100%
		TG ERECTION	100%	100%
3	ESP	UNDER PROGRESS	99%	95%
4	FGD	CIVIL WORK	97%	95%
		MATERIAL SUPPLY	100%	100%
		ERECTION WORK	96%	88%

STATUS OF BOPs								
Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency	Date of Award	Scheduled Date of Completion	Anticipated /Actual Date of Completion	UNIT-01	UNIT-02	
						% Completion	% Completion	
1	Chimney	BHEL	05.02.16	30.08.19(U1) 28.02.20(U2)	Nov-22(A)	100%	100%	
2	Coal Handling Plant	Conveyor Package – Tata Projects Ltd	10.01.17	10.03.20	U1-Mar23; U2-May23	96%	87%	
		Wagon Tippler – Tata Projects Ltd	10.01.17	10.03.20	Jun23	60%		
		Stacker Reclaimer - Tata Projects Ltd	10.01.17	10.03.20	U1-Sep23(A); U2-Jun23	100%	78%	
3	Ash Handling	BHEL	05.02.16	27.11.19	U1-Mar23; U2-Jun23	95%	85%	
4	Fuel Oil System	TATA Projects	10.01.17	09.01.20	U2-Mar23	100%	96%	
5	Cooling Towers	TATA Projects	10.01.17	10.01.20	U2-Apr23	100%	82%	
6	CW Pump	TATA Projects	10.01.17	10.02.20	U2-Mar23	100%	98%	
7	WPT Plant	TATA Projects	10.01.17	10.03.20	Completed	100%	100%	
8	DM Plant	TATA Projects	10.01.17	23.09.08	Completed	100%	100%	
9	Compressed Air System	TATA Projects	10.01.17	29.10.14	Completed	100%	100%	
10	Fire Protection System	TATA Projects	10.01.17	10.05.20	U1-Mar23; U2-Jun23	98%	88%	
11	Switch Yard	TATA Projects	10.01.17	10.12.19	Completed	100%	100 %	
12	Station Txer	TATA Projects	10.01.17	10.06.20	Completed	100%	100 %	
13	Unit Txer	TATA Projects	10.01.17	10.06.20	U2-Mar23	100%	96 %	
14	Railway Siding	TATA Projects	10.01.17	10.03.20	May23	75%		
15	Power evacuation	TSTransco		Ramadugu Line Apr-18; Narsapur Line Aug-17	Dec-19	Aug21(A)	100%	100%

**CRITICAL ISSUES**

<ul style="list-style-type: none"> <li>Turbine bearing temp and vibration problem of Unit#1</li> </ul>
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**REASONS OF DELAY**

<ul style="list-style-type: none"> <li>Delay in Boiler design due to new De-NOx &amp; 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.</li> <li>Slow progress by BHEL sub-agency M/s B&amp;R.</li> <li>Delay in Sand supply / Procurement at site (Due to restrictions by State Government of Telangana).</li> <li>Delay due to ongoing COVID-19 pandemic since Mar'20. Non-availability of Industrial oxygen during second wave.</li> </ul>
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**TALCHER THERMAL POWER PROJECT, Unit# 1 & 2 (2X660 MW, St-III) / NTPC (CENTRAL SECTOR)**

TALCHER THERMAL POWER PROJECT, P.O.: TALCHER THERMAL, DIST- ANGUL, ODISHA- 759101

E-Gen Portal Registration No. (U#1 - 1200003198; U#2 - 1200003199)

Project Developer / Implementing Agency - NTPC		Main Plant Vendor : SG-BHEL, TG- BHEL		
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual	Trial Run Date
Unit#1	Sep-2022	Nov-2026		Nov-2026
Unit#2		May-2027		May-2027
CLEARANCES AND STATIC DATA		FINANCIAL DATA (Fig. in Rs. Crore)		
FUEL TYPE	Coal	ORIGINAL ESTIMATED COST OF THE PROJECT	11843.75	
COAL COMBUSTION TECHNOLOGY	Ultra-supercritical	LATEST ESTIMATED COST	11843.75	
APPROVAL DATE / NTP	Investment Approval: 26.08.2022	DATE OF FINANCIAL CLOSURE		
EPC/BTG/BoP Contractor Details (Package Wise)	EPC Package for TTPP St-III(2X660 MW) awarded to M/s BHEL on 27.09.2022	YEAR WISE EXPENDITURE		
PPA	PPA signed; Odisha SEB: 50% (660 MW) on 02.08.2022; Tamil Nadu SEB: 35% (460 MW) on 26.09.2022; Unallocated- 15%	2021-22	45.00	
COAL LINKAGE/FSA	Available : as per the MoM of the Standing Linkage Committee (LT) dated 10.04.2018; FSA Agreement with MCL under process; Source: Bhuwaneswari/Jagannath mines of MCL Pithead, Dist – 30km; Grade: G-12; Quantity: 5.854 MMTPA	EXPENDITURE OF FEB'2023	3.06	
START UP POWER AGREEMENT	Startup power to be drawn from 400 KV grid. Application for connectivity to STU has been submitted on 01/12/2022. Application for CTU connectivity to be submitted.	TOTAL EXPENDITURE (upto 28.02.2023)	321.27	
POWER EVACUATION SYSTEM	Tx Line Developer	Yet to be awarded		
	Tx Line Name Tx Voltage Level	(400 kV Gas Insulated Switchyard)		
	Configuration of Tx Line (S/C or D/C)	-		
LAND POSSESSION	Total Land: 194.82 Acre(Main Plant-191 Acre, Railway Siding-1.48 Acre; Make up water -2.34 Acre to be acquired) ROU/ROW of Land- 77.63 for Make up water Corridor. Approval under process.	ADDITIONAL REMARKS Ash Disposal: 6.43 Mcum of Quarry IV of Jaganath Mine Void of MCL allocated for TTPP Stage-III which will cater for 03 Years of Ash Disposal. For allocation of balance 17 Cum capacity ,matter has been taken up with MCL.		
WATER ALLOCATION	Available, Source: Up Stream of Samal Barrage from Brahmani River Qty: 39 Cusec			
MOEF CLEARANCE	Received on 12.09.2018 and it is valid upto 12.09.2025			
CIVIL AVIATION CLEARANCE	Renewed on 22.05.2022 and valid upto 22.05.2030			
CPCB CLEARANCE	Received on 12.09.2018 and it is valid upto 12.09.2025			
SPCB CLEARANCE	CTE Application submitted on 06.11.2022 (Application No -4474906)			
FOREST CLEARANCE	<u>Make up water Pump House</u> : 1st stage received, Application for 2nd stage under process; <u>Make up Corridor</u> : There was delay in submission of online application due to non-availability of PARIVESH PORTAL. Online application for Stage-I submitted on 13.11.2022 and under process at PCCF Odisha.			



**TALCHER THERMAL POWER PROJECT, Unit# 1 & 2 (2X660 MW, St-III) / NTPC (CENTRAL SECTOR)**

UNIT WISE MILESTONES ( ANTICIPATED / ACTUAL)					
Sl.	MILESTONE	UNIT-01		UNIT-02	
		Original Date	Actual / Anticipated Date	Original Date	Actual / Anticipated Date
1	COMPLETION OF BOILER FOUNDATION	25.09.2023	25.09.2023	25.01.2024	25.01.2024
2	START OF BOILER ERECTION	26.09.2023	26.09.2023	26.01.2024	26.01.2024
3	BOILER DRUM LIFTING (if sub-critical unit)	NA		NA	
4	BOILER CEILING GIRDER LIFTING COMPLETION	25.07.2024	25.07.2024	25.11.2024	25.11.2024
5	CONDENSER ERECTION START	31.07.2024	31.07.2024	30.11.2024	30.11.2024
6	TG ERECTION START	07.08.2024	07.08.2024	07.12.2024	07.12.2024
7	HP PIPING ERECTION START	04.08.2024	04.08.2024	04.12.2024	04.12.2024
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	26.07.2025	26.07.2025	26.11.2025	26.11.2025
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	29.11.2025	29.11.2025	29.03.2026	29.03.2026
10	TG BOX UP	25.09.2025	25.09.2025	25.01.2026	25.01.2026
11	HP PIPING ERECTION COMPLETION	25.01.2026	25.01.2026	25.05.2026	25.05.2026
12	START OF OIL FLUSHING	27.09.2025	27.09.2025	27.01.2026	27.01.2026
13	BOILER LIGHT UP	13.01.2026	13.01.2026	13.05.2026	13.05.2026
14	CHEMICAL CLEANING COMPLETION	26.01.2026	26.01.2026	26.05.2026	26.05.2026
15	STEAM BLOWING START	27.02.2026	27.02.2026	27.06.2026	27.06.2026
16	STEAM BLOWING COMPLETION	26.03.2026	26.03.2026	26.07.2026	26.07.2026
17	ROLLING & SYNC.	26.05.2026	26.05.2026	26.09.2026	26.09.2026
18	FULL LOAD	25.06.2025	25.06.2025	25.10.2026	25.10.2026
19	TRIAL RUN	24.11.2026	24.11.2026	24.05.2027	24.05.2027
20	COD	24.11.2026	24.11.2026	24.05.2027	24.05.2027

STATUS OF MAIN PLANT PACKAGE (BTG) : SG - BHEL, TG - GE				
Sl.	Packages	AREA	UNIT-01	UNIT-02
			% Completion	% Completion
1	BOILER	CIVIL	0%	0%
		STRUCTURE	0%	0%
		PRESSURE PARTS	0%	0%
2	TG	CIVIL	0%	0%
		STRUCTURE	0%	0%
		TG ERECTION	0%	0%
3	ESP	UNDER PROGRESS	0%	0%
4	FGD	CIVIL WORK	0%	0%
		MATERIAL SUPPLY	0%	0%
		ERECTION WORK	0%	0%

STATUS OF BOPs							
Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency	Date of Award	Scheduled Date of Completion	Anticipated /Actual Date of Completion	UNIT-01	UNIT-02
						% Completion	% Completion
1	Chimney	BHEL	Sep-22	Nov-25	Nov-25 (U1) Mar-26 (U2)	0%	0%
2	Coal Handling Plant	Conveyor Package - BHEL	Sep-22	Jan-26	Jan-26 (U1) May-26 (U2)	0%	0%
		Wagon Tippler - BHEL	Sep-22	NA	NA	NA	NA
		Stacker Reclaimer - BHEL	Sep-22	Jan-26	Jan-26 (U1) May-26 (U2)	0%	0%
3	Ash Handling	BHEL	Sep-22	Apr-26	Apr-26 (U1) Aug-26 (U2)	0%	0%
4	Fuel Oil System	BHEL	Sep-22	Nov-25	Nov-25 (U1) Mar-26 (U2)	0%	0%
5	Cooling Towers	BHEL	Sep-22	Dec-25	Dec-25 (U1) Apr-26 (U2)	0%	0%
6	CW Pump House and Piping	BHEL	Sep-22	Nov-25	Nov-25 (U1) Mar-26 (U2)	0%	0%
7	WPT Plant	BHEL	Sep-22	Sep-25	Sep-25 (U1) Jan-26 (U2)	0%	0%
8	DM Plant	BHEL	Sep-22	Jul-25	Jul-25 (U1) Nov-25 (U2)	0%	0%
9	Compressed Air System	BHEL	Sep-22	Dec-25	Dec-25 (U1) Apr-26 (U2)	0%	0%
10	Fire Protection System	BHEL	Sep-22	Aug-26	Aug-26 (U1) Dec-26 (U2)	0%	0%
11	Switch Yard	BHEL	Sep-22	Mar-26	Mar-26 (U1) Jul-26 (U2)	0%	0%
12	Station Txer	BHEL	Sep-22	Apr-25	Apr-25 (U1) Aug-25 (U2)	0%	0%
13	Generator Txer	BHEL	Sep-22	Apr-26	Apr-26 (U1) Aug-26 (U2)	0%	0%
14	Unit Txer	BHEL	Sep-22	Apr-26	Apr-26 (U1) Aug-26 (U2)	0%	0%
15	Railway Siding	RITES	Dec-22	Jun-25	Jun-25 (U1) Jun-25 (U2)	0%	0%
16	Power evacuation	To be decided after grant of connectivity					

**CRITICAL ISSUES**

➤ **Completion of ROB Connecting NH-149 to TTPP being executed by R&B Deptt GoO:** Revised commitment for completion is 10.02.2023 by CE (WBP-R&B). However, very slow work progress is a matter of concern. Matter has been taken up with Chief Secy. GoO.

➤ Permission from District Administration for closure of Anand Bazaar – Jaganathpur Road passing through Main Plant area is awaited. This is critical in view of Safety and Security in construction area. Alternate road (Jaganathpur bypass road) has already been constructed by NTPC.

**REASONS OF DELAY**

Not applicable

**PATRATU TPS, Unit# 1, 2 & 3 (3X800 MW) / PVUNL (CENTRAL SECTOR)**

Patratu Vidyut Utpadan Nigam Limited, Patratu, PO: PTPS, Patratu, Distt. Ramgarh, Jharkhand , PIN – 829119  
E-Gen Portal Registration No. ( U#1 - 1200002399; U#2 - 1200002400; U#3 - 1200002401 )

Project Developer / Implementing Agency - PVUNL		Main Plant Vendor - M/S BHEL (EPC-08.03.2018)			
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual	Trial Run Date	
Unit#1	Mar-2018	Jan-22		Jul-2024	
Unit#2		Jul-22		Dec-2024	
Unit#3		Jan-23		Mar-2025	
CLEARANCES AND STATIC DATA				FINANCIAL DATA (Fig. in Rs. Crore)	
FUEL TYPE	Coal, Pithead			ORIGINAL ESTIMATED COST OF THE PROJECT	17112.00
COAL COMBUSTION TECHNOLOGY	Ultra Supercritical			LATEST ESTIMATED COST	18668.00
APPROVAL DATE / NTP	Nov-2017			DATE OF FINANCIAL CLOSURE	
EPC/BTG/BoP Contractor Details (Package Wise)	EPC package awarded to BHEL on 08.03.2018.			YEAR WISE EXPENDITURE	
PPA	85% allocated to Jharkhand, PPA signed on 30.03.2016. 15% of power will remain as unallocated quota at the disposal of GoI			2015-16	----
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 02.06.2017.  Bridge allocation granted by SLC(LT) upto 24-06-2024; Allocation from CCL; Coal quantity quantified is 9.17 MTPA.			2016-17	----
START UP POWER AGREEMENT	Through 7.5 kms Transmission line : Patratu-Patratu (Main Plant to Katia Substation) D/C Line			2017-18	992.11
POWER EVACUATION SYSTEM	Tx Line Developer	JUSNL		2018-19	601.86
	Tx Line Name Tx Voltage Level	i) Patratu (PVUNL) –Patratu, 400 kV D/C line (7.5 km). ii) Patratu STPP-Koderma, 400 KV D/c Line (160 Km). iii) Patratu STPP-Chandil, 400 KV D/c Line (150 Km).		2019-20	695.09
	Configuration of Tx Line (S/C or D/C)	D/C		2020-21	1228.66
LAND POSSESSION	Correction of 268.92 acres of land in the records of forest department in favour of PVUNL and also change of nature of land as non-forest			2021-22	1846.48
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.			EXPENDITURE OF FEB '23	179.54
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 28.02.23)	10316.95
CIVIL AVIATION CLEARANCE	Received on 03.06.2016.				
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 the main plant area.				

**PATRATU TPS, Unit# 1, 2 & 3 (3X800 MW) / PVUNL (CENTRAL SECTOR)**

**UNIT WISE MILESTONES ( ANTICIPATED / ACTUAL )**

Sl.	MILESTONE	UNIT-01		UNIT-02		UNIT-03	
		Original Date of Completion	Anticipate d / Actual Date of Completion	Original Date of Completion	Anticipate d / Actual Date of Completion	Original Date of Completion	Anticipate d / Actual Date of Completion
		1	COMPLETION OF BOILER FOUNDATION	May-19	Apr-19	Nov-19	Dec-19
2	START OF BOILER ERECTION	May-19	Aug-19	Nov-19	Dec-19	May-20	Jan-21
3	BOILER DRUM LIFTING (if sub-critical unit)	NA		NA		NA	
4	BOILER CEILING GIRDER LIFTING COMPLETION	Feb-20	Mar-21	Aug-20	May-21	Feb-21	Jan-22
5	CONDENSER ERECTION START	Feb-20	Mar-23	Aug-20	Apr-23	Feb-21	Jun-24
6	TG ERECTION START	Jun-20	Mar-22	Dec-20	Oct-22	Jun-21	Apr-23
7	HP PIPING ERECTION START	Jul-20	Sept-22	Jan-21	Mar-23	Jul-21	Jun-23
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	Jan-21	Mar-23	Jul-21	May-23	Jan-22	Jul-23
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	Jun-21	Jul-23	Dec-21	Sep-23	Jun-22	Apr-24
10	TG BOX UP	May-21	Sept-23	Nov-21	Dec-23	May-22	Apr-24
11	HP PIPING ERECTION COMPLETION	May-21	Nov-23	Nov-21	Dec-23	May-22	Apr-24
12	START OF OILFLUSHING	Apr-21	Aug-23	Oct-22	Dec-23	Apr-22	Mar-24
13	BOILER LIGHT UP	Jun-21	Aug-23	Dec-21	Oct-23	Jun-22	Jun-24
14	CHEMICAL CLEANING COMPLETION	Jul-21	Aug-23	Jan-22	Oct-23	Jul-22	Jun-24
15	STEAM BLOWING START	Jul-21	Dec-23	Jan-22	Jun-24	Jul-22	Jun-24
16	STEAM BLOWING COMPLETION	Sep-21	Feb-24	Mar-22	Aug-24	Sep-21	Aug-24
17	ROLLING & SYNC.	Nov-21	Mar-24	May-22	Oct-24	Nov-22	Dec-24
18	FULL LOAD	Dec-21	Jun-24	Jun-22	Nov-24	Dec-22	Feb-25
19	TRIAL RUN	Jan-22	Jul-24	Jul-22	Dec-24	Jan-23	Mar-25
20	COD	Mar-22	Jul-24	Sep-22	Dec-24	Mar-23	Mar-25

**STATUS OF MAIN PLANT PACKAGE (BTG) : M/S BHEL**

Sl.	Packages	AREA	UNIT-01	UNIT-02	UNIT-03
			% Completion	% Completion	% Completion
1	BOILER	CIVIL	77.4%	75.2%	67.7%
		STRUCTURE	71.7%	73.3%	62.8%
		PRESSURE PARTS	94.4%	76.5%	30.2%
2	TG	CIVIL	66.4%	49.5%	31.7%
		STRUCTURE	88.2%	85.3%	8.2%
3	ESP	UNDER PROGRESS	71.0%	74.3%	51.4%
4	FGD	CIVIL WORK	94%	57%	42%
		MATERIAL SUPPLY	24%	22%	1%
		ERECTION WORK	12.7%	0%	0%

**STATUS OF BOPs (BHEL - EPC)**

Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency	Date of Award	Scheduled Date of Completion	Anticipated/ Actual Date of Completion	UNIT-01	UNIT-02	UNIT-03
						% Completion	% Completion	% Completion
1	Chimney	BHEL PSWR	01-21.07.18; 02-26.07.18; 03-31.01.20	01-05.08.21; 02-06.09.21; 03-06.03.22	Feb-25	100% RCC	92.4% RCC	64.5% RCC
2	Coal Handling Plant	BHEL PSWR	12.01.2020	08.08.2021	Feb-25	57.5% RCC complete		
		BHEL PSWR – Wagon Tippler	15.10.2020	27.07.2021	Feb-25			
		BHEL PSWR – Stacker Reclaimer	09.06.2021	23.06.2022	Feb-25			
3	Ash Handling Plant	BHEL PSWR	15.10.2019	08.12.2021	Feb-25	58.8% RCC complete		
4	Fuel Oil System	BHEL PSWR	07.10.2020	08.06.2021	Feb-25	37% civil works		
5	ACC	BHEL	08.04.2022	14.10.2021	Feb-25	Footing RCC works-100%	Footing RCC works-47.1%	Footing RCC works-71.1%
6	CW Pump house	NA (ACC is envisaged)				(Air Cooled Condenser)		
7	WPT Plant	BHEL PSWR	14.01.2021	20.03.2021	Feb-25	37.9% RCC complete		
8	DM Plant	BHEL PSWR		27.03.2021	Feb-25	37.9% RCC complete		
9	Compressed Air System	BHEL PSWR	04.07.2020	03.02.2021	Feb-25	91.2% Structure erection completed		
10	Fire Protection System	BHEL-PESD, Hyderabad	25.05.2021	18.05.2021	Feb-25	91% RCC civil works		
11	Switch Yard	BHEL-TBG	01.05.2020	08.10.2021	Feb-25	79.7% RCC complete		
12	Station Transformers	BHEL-Bhopal		18.02.2021	Feb-25	0%		
13	Unit Transformers	BHEL Jhansi		17.02.2021	Feb-25	0%		
14	Railway Siding	PMC Contractor-M/s RITES	02.12.2019	01.04.22	Dec-23	0% (Award of sub pkg yet to be done)		
15	Power Evacuation Lines	JUSNL		08.10.2021	Feb-25	0%		

**CRITICAL ISSUES**

- **Associated Transmission System:** 03 nos. transmission lines are to be constructed by M/s JUSNL under State funding.
- Award & readiness of lines (by JUSNL) are required for evacuation of power from the project.
- **Patratu-Patratu (Main Plant to Katia Substation) D/C Line (7.5 Kms)**- Foundation work is in progress. **Patratu STPP- Koderma (JUSNL) 400kV D/C line (~150 km) and Patratu STPP- Chandil 400kV D/C line (~150 km)**- NIT done on 17.01.23. Work yet to be awarded.
- Encumbrance free land for construction of Ash Mound.
- Delay in supplies of pre-fabricated structures for Main Powerhouse, CHP and AHP by EPC agency (BHEL).
- Re-award of balance CHP packages by BHEL.

**REASONS OF DELAY**

- Poor performance of few sub-agencies of BHEL.

**GHATAMPUR THERMAL POWER PROJECT, Unit# 1, 2 & 3 (3x660 MW) / NUPPL (CENTRAL SECTOR)**

Near Village Lahurimau-Kasimpur, Ghatampur Tehsil, P.O.: Samuhi-209206, Kanpur Nagar District, Uttar Pradesh  
E-Gen Portal Registration No. (U#1 - 1200002439; U#2 - 1200002440; U#3 - 1200002441 )

Project Developer / Implementing Agency - NUPPL		Main Plant Vendor: SG- M/s L&T/MHI, TG- M/s GE			
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual	Trial Run Date	
Unit#1	Aug-2016	May-2020		Jul-2023	
Unit#2		Nov-2020		Oct-2023	
Unit#3		May-2021		Dec-2023	
CLEARANCES AND STATIC DATA				FINANCIAL DATA (Fig. in Rs. Crore)	
FUEL TYPE	Coal, Indigenous			ORIGINAL ESTIMATED COST OF THE PROJECT	17237.80
COAL COMBUSTION TECHNOLOGY	Supercritical			LATEST ESTIMATED COST	Not Revised
APPROVAL DATE / NTP	GoI Sanction - 27.07.2016			DATE OF FINANCIAL CLOSURE	22.06.2021
EPC/BTG/BoP Contractor Details (Package Wise)	Contractor Details: 1. SG Package (GA1)- L&T-MHI Power Boilers Pvt. Ltd/ LoA Date-02-08-2016 2. TG Package (GA2)- GE Power Systems India Pvt. Ltd /LoA Date-02-08-2016 3. BoP Package (GA3)- BGR Energy Systems Ltd / LoA Date-21-11-2016			YEAR WISE EXPENDITURE	
PPA	75% PPA Signed with Uttar Pradesh Power Corporation Ltd.(UPPCL). Balance 25% PPA signed with Assam PDCL.			2016-17	927.76
COAL LINKAGE/FSA	Allocation Date- 03.10.2016. Allocated Mine (Source) - Pachwara South Coal Block Grade - G10 Quantity- Net Geological Reserve 373.52 MT. Extractable reserve - 262.84MT; Pachwara South Coal Block will be fully functional by the end of Financial Year 2026-27 and will be able to meet the coal requirement of NUPPL. Hence, NUPPL is seeking coal under bridge linkage by the time Pachwara South Coal Block will be fully functional.			2017-18	1228.45
START UP POWER AGREEMENT	There are four incoming lines for 132 KV Start-up power. Four lines are from: 1. Sarh-1 to NUPPL, 2. Ghatampur to NUPPL, 3. Sarh-2 to NUPPL, 4. Hamirpur to NUPPL; Out of four two are connected and we are availing power through two lines (Ghatampur to NUPPL & Sarh-2 to NUPPL).			2018-19	3517.83
POWER EVACUATION SYSTEM	Tx Line Developer	M/S GTL		2019-20	3525.17
	Tx Line Name Tx Voltage Level	i)765 KV, S/C, Ghatampur-Agra line; ii) 765 KV, S/C, Ghatampur- Hapur Line; iii) 400 KV D/C,Ghatampur-Kanpur line		2020-21	2260.09
	Configuration of Tx Line (S/C or D/C)	both		2021-22	1901.77
LAND POSSESSION	Total Pocket land-52.33 Ha. (As per initial approval); Total Pocket land registered/ Acquired- 47.4790 Ha. (As per current reconciliation);			EXPENDITURE OF FEB '2023	133.29
WATER ALLOCATION	80 cusec from UP Irrigation department (44.6 km from GTPP)			TOTAL EXPENDITURE (upto 28.02.2023)	14730.45
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 : - 5 Years, NUPPL had sent compliance to AAI regarding the				
CPCB CLEARANCE	NOT APPLICABLE				
SPCB CLEARANCE	Clearance obtained date from concerned authority:- 17.11.2017; validity of it.- 5 Years				
FOREST CLEARANCE	NOT APPLICABLE				

**GHATAMPUR THERMAL POWER PROJECT, Unit# 1, 2 & 3 (3x660 MW) / NUPPL (CENTRAL SECTOR)**

UNIT WISE MILESTONES ANTICIPATED / ACTUAL )							
Sl.	Milestones	UNIT-01		UNIT-02		UNIT-03	
		Original Date of Completion	Anticipate d / Actual Date of Completion	Original Date of Completion	Anticipate d / Actual Date of Completion	Original Date of Completion	Anticipate d / Actual Date of Completion
1	COMPLETION OF BOILER FOUNDATION	01.01.2017	17.03.2017	01.07.2017	21.10.2020	28.12.2017	29.01.2021
2	START OF BOILER ERECTION	01.09.2017	27.02.2018	01.03.2018	30.06.2018	28.08.2018	04.12.2018
3	BOILER DRUM LIFTING (if sub-critical unit)	NA		NA		NA	
4	BOILER CEILING GIRDER LIFTING COMPLETION	01.05.2018	25.11.2018	01.11.2018	04.04.2019	01.05.2019	12.09.2019
5	CONDENSER ERECTION START	19.07.2018	09.03.2019	19.01.2019	03.01.2020	19.07.2019	02.03.2021
6	TG ERECTION START	03.07.2018	08.02.2019	03.01.2019	29.02.2020	03.07.2019	30.04.2021
7	HP PIPING ERECTION START	12.01.2019	30.10.2019	12.07.2019	21.02.2019	12.01.2019	30.06.2021
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	NA		NA		NA	
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	01.05.2019	06.01.2020	01.11.2019	24.02.2021	01.05.2020	29.08.2021
10	TG BOX UP	02.07.2019	23.10.2019	02.01.2020	15.05.2021	02.07.2020	15.12.2022
11	HP PIPING ERECTION COMPLETION	10.06.2019	31.08.2021	10.06.2020	28.03.2023	12.06.2020	31.06.2023
12	START OF OILFLUSHING	30.11.2019	27.10.2020	31.05.2020	07.11.2022	30.11.2020	31.03.2023
13	BOILER LIGHT UP	30.11.2019	28.02.2022	30.05.2020	31.05.2023	30.11.2020	31.07.2023
14	CHEMICAL CLEANING COMPLETION	30.10.2019	24.07.2021	30.04.2020	28.03.2023	30.10.2020	30.04.2023
15	STEAM BLOWING START	15.12.2020	23.06.2022	30.05.2020	31.03.2023	30.11.2020	15.06.2023
16	STEAM BLOWING COMPLETION	30.01.2020	13.08.2022	15.06.2020	30.04.2023	15.12.2020	15.07.2023
17	ROLLING & SYNC.	01.03.2020	31.03.2023	31.08.2020	31.08.2023	01.03.2021	31.10.2023
18	FULL LOAD	01.04.2020	28.07.2023	31.10.2020	28.10.2023	01.04.2021	28.12.2023
19	TRIAL RUN	29.05.20	31.07.2023	27.11.20	31.10.2023	29.05.21	31.12.2023
20	COD	01.06.20	31.07.23	30.11.20	31.10.23	01.06.21	31.12.23

STATUS OF MAIN PLANT PACKAGE (BTG) : SG - L&T MHI, TG - GE										
Sl.	Packages	AREA	UNIT-01	UNIT-02	UNIT-03					
			% Completion	% Completion	% Completion					
1	BOILER	CIVIL	92.61%	88.07%	82.42%					
		STRUCTURE	97.50%	93.73%	89.73%					
		PRESSURE PARTS	100%	100%	100%					
2	TG	CIVIL	99.81%	97.77%	96.25%					
		STRUCTURE	100%	100%	99.71%					
3	ESP	UNDER PROGRESS	100%	99.88%	83.44%					
4	FGD	CIVIL WORK	LOA issued to M/s L&T on 30-09-2022. Kick off meeting with M/s L&T on 20-10-2022. Soil Investigation agency deployed and work commenced on 23-12-2022. Total 40 Boreholes out of 40 have been completed.							
		MATERIAL SUPPLY								
		ERECTION WORK								
STATUS OF BOPs										
Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency(M/s BGR)	Date of Award	Scheduled Date of Completion	Anticipated/ Actual Date of Completion	UNIT-01	UNIT-02	UNIT-03		
						% Completion	% Completion	% Completion		
1	Chimney	BGR Energy System Ltd.	21.11.2016	20.11.2019	U1-Mar23; U2-Sep23; U3-Nov23	99.25%	72.25%	36.36%		
2	Coal Handling Plant	Conveyor Pkg – BGR Energy System Ltd.	21.11.2016	20.07.2019	Mar23, Jul23, Sep23	44%	18%	9%		
		Wagon Tippler - BGR Energy System Ltd.	21.11.2016	U1-Jul19, U2&3-Jan20	U1-Feb23, U2&3-Jun23	20%	0%			
		Stacker Reclaimer - BGR Energy System Ltd.	21.11.2016	U1-Jun19, U2&3-Feb20	U1-Mar23, U2&3-Jul23	27%	9%			
3	Ash Handling Plant	BGR Energy System Ltd.	21.11.2016	Jul19, Mar20, Feb20	May23, Sep23, Oct23	61%	59%	55%		
4	Fuel Oil System	L&T MHI Power Boilers Pvt Ltd	21.11.2016	24.10.2019	Feb-23	99%				
5	Cooling Towers	BGR Energy System Ltd.	21.11.2016	20.11.2020	Jun23, Oct23, Dec23	Civil:93%	Civil:57.99%	Civil:42.15%		
6	CW Pump house	BGR Energy System Ltd.	21.11.2016	20.11.2020	May23, Oct23, Dec23	75%	21%	20%		
7	WPT Plant	BGR Energy System Ltd.	21.11.2016	20.04.2019	Feb-23	95%				
8	DM Plant	BGR Energy System Ltd.	21.11.2016	20.04.2019	Feb-22 (A)	100%				
9	Compressed Air System	L&T MHI Power Boilers Pvt Ltd	02.08.2016	20.07.2019	Mar-23	98%				
10	Fire Protection System	BGR Energy System Ltd.	21.11.2016	20.11.2020	Feb23, Jun23, Oct23	50%	0%	0%		
11	Switch Yard	BGR Energy System Ltd.	21.11.2016	20.02.2020	Oct-2023	400kV-59%, 765kV-95%, Outdoor Switchyard-53%				
12	Station Transformers	GE-Power Systems India Pvt. Ltd.	02.08.2016	Apr19, Oct19, Apr20	Feb21(A), Aug22(A), Jan23	100.0%	100.0%	95.0%		
13	Unit Transformers	GE-Power Systems India Pvt. Ltd.	02.08.2016	Apr19, Oct19, Apr20	Jul22(A), Oct22, Feb23	100.0%	100%	95.0%		
14	Railway Siding	RITES	29.03.2019	28.03.2021	Jun-25	Civil work - 90.00% Electrical – 80.00%				
15	Power Evacuation Lines	Ghatampur Transmission Ltd	12.06.2018	26.02.2020	17.05.2020(A)	400kV GTPS-Kanpur -100%				
				26.09.2020	27.03.2021(A)	765kV GTPS-Agra -100%				
				26.03.2021	25.12.2021(A)	765kV GTPS-Hapur - 100%				

**CRITICAL ISSUES**

Slow work progress is BoP areas i.e. CHP, AHP,CWPH, Fire protection areas; FGD: Work is yet to be started (LOA issued on 30-09-2022)

**REASONS OF DELAY**

Work of all the BoP areas has been put on hold since August 2021 and presently, no work is going on the site due to financial issues being faced by M/s BGR. BGR is not able to pay its sub vendors.

**KHURJA STPP, Unit# 1 & 2 (2x660 MW) / THDC (CENTRAL SECTOR)**

Khurja Distt. Bulandshahar, Uttar Pradesh -203131

E-Gen Portal Registration No. ( U#1 - 1200002023; U#2 - 1200002024 )

Project Developer / Implementing Agency - THDC		Main Plant Vendor: SG Package - M/s L&T/MHI and TG Pkg-BHEL		
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual	Trial Run Date
Unit#1	Aug-2019	Jul-2023		Feb-2024
Unit#2		Jan-2024		Aug-2024
CLEARANCES AND STATIC DATA		FINANCIAL DATA (Fig. in Rs. Crore)		
FUEL TYPE	Coal, Indigenous	ORIGINAL ESTIMATED COST OF THE PROJECT		11089.42
COAL COMBUSTION TECHNOLOGY	Ultra Supercritical	LATEST ESTIMATED COST		Not Revised
APPROVAL DATE / NTP	07.03.2019.	DATE OF FINANCIAL CLOSURE		
EPC/BTG/BoP Contractor Details (Package Wise)	Zero Date : 29.08.2019 (with respect to Award of Main Plant Package i.e. Steam Generator & Associated Packages)	YEAR WISE EXPENDITURE		
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. 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.	2016-17		338.92
COAL LINKAGE/FSA	For Coal linkage, Ministry of Coal, GoI vide allotment order dtd.17.01.2017 has allotted Amelia Coal Mine in District Singrauli, Madhya Pradesh to THDCIL to meet out fuel requirements of the project. Grade of Coal: G9 (Avg. GCV = 4746 Kcal/Kg). Net Geological Reserve in Amelia Coal Mine is 162.05 Million Ton (OC) out of this Extractable Coal Reserve is 139.48 Million Ton.	2017-18		10.66
START UP POWER AGREEMENT	Connectivity has been granted by CTU vide its letter NoC/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 Power Grid 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.	2018-19		148.87
POWER EVACUATION SYSTEM	Tx Line Developer	PGCIL and UPPTCL		
	Tx Line Name Tx Voltage Level	i) Khurja STPP- Aligarh 400 KV, D/C line (PGCIL) ii) Aligarh-Shamli 400 KV line , D/C, LILOing at Khurja STPP (UPPTCL).		
	Configuration of Tx Line (S/C or D/C)	D/C		
LAND POSSESSION	Small Patches of land within the boundary of already acquired 1201 Acre land by UPSIDC and handed over to THDCIL .	2019-20		439.95
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.	2020-21		789.69
MOEF CLEARANCE	Environmental Clearance has been accorded to Khurja STPP by MOEF&CC on 30.03.2017 with validity upto 29.03.2024.	2021-22		2158.93
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.	EXPENDITURE OF FEB '2023		260.13
CPCB CLEARANCE	NOT APPLICABLE	TOTAL EXPENDITURE (upto 28.02.2023)		6413.56
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			



**KHURJA SUPER STPP, Unit# 1 & 2 (2x660 MW) / THDC (CENTRAL SECTOR)**

UNIT WISE MILESTONES ( ANTICIPATED / ACTUAL)					
Sl.	MILESTONE	UNIT-01		UNIT-02	
		Original Date	Actual / Anticipated Date	Original Date	Actual / Anticipated Date
1	COMPLETION OF BOILER FOUNDATION	29.09.2020	20.01.2021	29.03.2021	15.11.2021
2	START OF BOILER ERECTION	29.10.2020	20.02.2021	29.04.2021	17.08.2021
3	BOILER DRUM LIFTING (if sub-critical unit)	NA		NA	
4	BOILER CEILING GIRDER LIFTING COMPLETION	28.05.2021	12.02.2022	28.11.2021	09.09.2022
5	CONDENSER ERECTION START	02.09.2021	25.03.2022	02.03.2022	19.01.2023
6	TG ERECTION START	03.09.2021	25.05.2022	03.03.2022	25.02.2023
7	HP PIPING ERECTION START	28.06.2021	20.10.2022	28.12.2021	28.02.2023
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	29.05.2022	15.03.2023	29.11.2022	20.08.2023
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	NA	NA	NA	NA
10	TG BOX UP	04.08.2022	31.05.2023	04.02.2023	30.11.2023
11	HP PIPING ERECTION COMPLETION	26.10.2022	26.04.2023	26.04.2023	26.10.2023
12	BOILER LIGHT UP	29.10.2022	28.10.2023	29.04.2023	20.03.2024
13	CHEMICAL CLEANING COMPLETION	29.10.2022	30.10.2023	29.04.2023	30.04.2023
14	OIL FLUSHING COMPLETION	03.11.2022	22.06.2023	03.05.2023	22.12.2023
15	STEAM BLOWING START	29.11.2022	01.11.2023	29.05.2023	01.05.2024
16	STEAM BLOWING COMPLETION	29.12.2022	30.11.2023	29.06.2023	30.05.2024
17	ROLLING & SYNC.	02.04.2023	31.12.2023	02.10.2023	30.06.2024
18	FULL LOAD	02.06.2023	31.01.2024	02.12.2023	20.07.2024
19	TRIAL RUN	02.07.2023	20.02.2024	02.01.2024	18.08.2024
20	COD	02.08.2023	20.02.2024	02.02.2024	18.08.2024

STATUS OF MAIN PLANT PACKAGE (BTG) : M/s L&T MHI Power Boilers Pvt.				
Sl.	Packages	AREA	UNIT-01	UNIT-02
			%	%
1	BOILER	CIVIL	100%	100%
		STRUCTURE	51.13%	33.80%
		PRESSURE PARTS	100%	48.86%
2	TG	CIVIL	99.22%	95.9%
		STRUCTURE	96.16%	55.35%
		PRESSURE PARTS	0.00%	0.00%
3	ESP	UNDER PROGRESS	32.26%	6.43%
4	FGD	CIVIL WORK	100% of Piling & 27.71% RCC completed	100% of Piling & 22.77% of RCC completed
		MATERIAL SUPPLY	60.87%	6.24%
		ERECTION WORK	19.0%	1.0%

STATUS OF BOPs							
Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC- BHEL)	Date of Award	Scheduled Date of Completion	Anticipated /Actual Date of Completion	UNIT-01	UNIT-02
						% Completion	% Completion
1	Chimney	L&T MHI Power Boilers Pvt. Ltd	27.09.2020	14.04.2023	14.10.2023	Unit-1: RCC- 100%; Unit-2: RCC-92.2%	
2	Coal Handling Plant	Thyssenkrupp Industries India Pvt. Ltd.	04.08.2021	04.12.2023	04.12.2023	46.00%	
3	Ash Handling Plant	M/s L&T MHI Power Boilers Pvt. Ltd	11.06.2020	20.02.2023	20.08.2023	100% of Piling and 70% of RCC	
4	Fuel Oil System	M/s L&T MHI Power Boilers Pvt. Ltd	30.09.2021	08.10.2022	08.04.2023	100% LDO tanks; 80% FOPH	
5	Cooling Towers	M/s Paharpur Cooling Towers Ltd	16.04.2021/ 13.10.2021	14.06.2023/ 14.12.2023	14.06.2023/ 14.12.2023	U-1: 68% of civil work completed	U-2: 60% of civil work completed
6	CW Pump house	Flowmore Ltd.	01.10.2021	30.09.2023	28.12.2023	85%	
7	WPT Plant	Gaja Engineering Pvt. Ltd.	30.11.2021	30.09.2023	27.08.23 25.09.23	61%	
8	DM Plant						
9	DM Water Transfer Pump House						
10	Compressed Air System	M/s L&T MHI Power Boilers Pvt. Ltd		08.10.22	08.04.23	Civil Work: 93%	
11	Fire Protection System			31.08.23	31.08.23	40.0%	
12	Switch Yard	GET&D	16.09.2020	25.03.2023/ 25.09.2023	25.03.2023/ 25.09.2023	75.0%	
13	Ash Dyke Package	M/s JPW Infratech Pvt Ltd	11.03.2022	10.09.2024	10.09.2024	25%	
14	Station Transformers	BHEL	09.08.2020	04.02.2022/ 30.07.2022	31.03.2023/ 30.09.2023	99%	
15	Unit Transformers	BHEL	08.09.2020	15.07.2022	30.04.2023	90.5%	
20	Railway Siding	M/s Jhajhariya Nirman Ltd; M/s ISC-CMPL (JV)	13.11.2020	13.09.2022	31.03.2023	Civil work – 84.25 %	
21	Power Evacuation Lines	M/s Unitech Power Transmission M/s Hyosung India	02.03.2021	01.06.2022	24.12.2022(A)	100% Tx line work completed	

**CRITICAL ISSUES**

- ♦ Slow work progress is BOP areas i.e. CHP, AHP, DM, PT Plant. Air Compressor and Fire protection
- ♦ Land compensation has already been released to all farmers. UPSIDC has handed over the entire 1201 Acre land to THDCIL and work is in progress on all fronts.

**REASONS OF DELAY**

- ♦ 6 Months Post Award delay due to COVID-19 Pandemic.

**BUXAR THERMAL POWER PROJECT, Unit# 1 & 2 (2x660 MW) / SJVN (CENTRAL SECTOR)**

Village-Chausa, Tehsil-Chausa, Distt.-Buxar, Pin- 802114, Bihar  
E-Gen Portal Registration No. (U#1 - 1200002481; U#2 - 1200002482)

Project Developer / Implementing Agency - SJVN		Main Plant Vendor - M/S L&T		
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual	Trial Run Date
Unit#1	Jun-2019	May-2023	Dec-2023	
Unit#2		Sep-2023	Mar-2024	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (Fig. in Rs. Crore)	
FUEL TYPE	Coal, Indigenous		ORIGINAL ESTIMATED COST OF THE PROJECT	10439.09
COAL COMBUSTION TECHNOLOGY	Supercritical		LATEST ESTIMATED COST	Not Revised
APPROVAL DATE / NTP	Investment Approval accorded by Govt. of India vide MoP		DATE OF FINANCIAL CLOSURE	26.11.2020
EPC/BTG/BoP Contractor Details (Package Wise)	Main Plant works has been awarded in single EPC package to M/s. L&T on 22.06.2019.		<b>YEAR WISE EXPENDITURE</b>	
PPA	PPA signed with Govt. of Bihar on 05.01.2011 and further reconfirmed on 09.01.2018.		2013-14	46.68
COAL LINKAGE/FSA	Allocated Mine - CCL, Magadh-Amrapali; Distance from mine - 465 km (non pithead). Letter of Assurance (LoA) for 4.976 MTPA of G9 to G14 grade coal issued by Central Coalfields Ltd. (CCL) on 10.12.2018. Coal may be supplied either from Amrapali coal block or Magadh coal block.		2014-15	15.18
	START UP POWER AGREEMENT		2015-16	378.08
POWER EVACUATION SYSTEM	Tx Line Developer	BSPTCL, Govt. of Bihar	2016-17	23.96
	Tx Line Name Tx Voltage Level	i) Buxar TPS- Naubatpur 400 KV, D/C ii) Buxar TPS- Dumraon (New) 220 KV, D/C iii) Buxar TPS- Karmnasa (New) 220 KV, D/C iv) Buxar TPS- Dehri 220 KV, D/C	2017-18	21.73
	Configuration of Tx Line (S/C or D/C)	D/C	2018-19	68.21
	LAND POSSESSION	Total Land Required-1283 Acre;1058.335 Acre (for Main Plant), 147 acre (for Rail Corridor) and 78 acre (for Water Pipeline corridor & intake etc.) land under possession.	2019-20	344.50
WATER ALLOCATION	MoU for utilization of 55 cusec of water signed between STPL and Water Resource Deptt., Govt. of Bihar on 29.08.2016.	2020-21	1100.05	
MOEF CLEARANCE	Accorded by MOEF&CC on 28.02.2017.(Validity- 27.02.2024)	2021-22	2691.06	
CIVIL AVIATION CLEARANCE	Accorded by Airport Authority of India on 12.04.2017 (Fresh NOC issued on 18.11.2018). (Validity-17.11.2028)	EXPENDITURE OF FEB '2023	129.10	
CPCB CLEARANCE	NOT APPLICABLE	TOTAL EXPENDITURE (upto 28.02.2023)	7197.06	
SPCB CLEARANCE	"Consent to Establish" (NOC) granted by Bihar State Pollution Control Board on 03.09.2019.			
FOREST CLEARANCE	NOT APPLICABLE			



**BUXAR THERMAL POWER PROJECT, Unit# 1 & 2 (2x660 MW) / SJVN (CENTRAL SECTOR)**

UNIT WISE MILESTONES ( ANTICIPATED / ACTUAL)					
Sl.	MILESTONE	UNIT-01		UNIT-02	
		Original Date	Actual / Anticipated Date	Original Date	Actual / Anticipated Date
1	COMPLETION OF BOILER FOUNDATION	21.JUL.20	01.MAY.21	19.NOV.20	28.OCT.21
2	START OF BOILER ERECTION	20.AUG.20	21.OCT.20	20.DEC.20	23.NOV.21
3	BOILER DRUM LIFTING (if sub-critical unit)	NA		NA	
4	BOILER CEILING GIRDER LIFTING COMPLETION	19.APR.21	31.JAN.22	20.AUG.21	30.NOV.22
5	CONDENSER ERECTION START	03.AUG.21	31.MAY.22	03.DEC.21	03.APR.23
6	TG ERECTION START	21.SEP.21	21.SEP.22	20.JAN.22	15.APR.23
7	HP PIPING ERECTION START	16.OCT.21	02.MAY.22	15.FEB.22	15.APR.23
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	20.APR.22	30.APR.23	21.AUG.22	30.SEP.23
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	NA		NA	
10	TG BOX UP	21.AUG.22	22.JUN.23	20.DEC.22	21.NOV.23
11	HP PIPING ERECTION COMPLETION	30.JUL.22	28.AUG.23	29.NOV.22	29.SEP.23
12	START OF OIL FLUSHING	28.AUG.22	23.JUN.23	27.DEC.22	22.NOV.23
13	BOILER LIGHT UP	21.OCT.22	20.AUG.23	21.FEB.23	05.NOV.23
14	CHEMICAL CLEANING COMPLETION	15.OCT.22	25.AUG.23	15.FEB.23	10.NOV.23
15	STEAM BLOWING START	01.NOV.22	25.SEP.23	04.MAR.23	21.NOV.23
16	STEAM BLOWING COMPLETION	18.DEC.22	15.OCT.23	20.APR.23	10.DEC.23
17	ROLLING & SYNC.	20.FEB.23	30 NOV.23	21.JUN.23	05.FEB.24
18	FULL LOAD	21.MAR.23	10. DEC.23	21.JUL.23	15.FEB.24
19	TRIAL RUN	21.May.23	25.DEC.23	21.Sep.23	01.MAR.24
20	COD	07.JUL.23	31.DEC.23	07.JAN.24	07.MAR.24

STATUS OF MAIN PLANT PACKAGE (BTG) : M/s L&T ltd				
Sl.	Packages	AREA	UNIT-01	UNIT-02
			% Completion	% Completion
1	BOILER	CIVIL	95.45%	80.71%
		STRUCTURE	65.66%	53.04%
		PRESSURE PARTS	86.70%	16.72%
2	TG	CIVIL	92.53%	50.14%
		STRUCTURE	94.95%	30.37%
		TG ERECTION	-	-
3	ESP	UNDER PROGRESS	59.15%	12.98%
4	FGD	CIVIL WORK	39.23%	29.32%
		MATERIAL SUPPLY	61.20%	59.88%
		ERECTION WORK	3.51%	0 %

STATUS OF BOPs							
Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC- BHEL)	Date of Award	Scheduled Date of Completion	Anticipated /Actual Date of Completion	UNIT-01	UNIT-02
						% Completion	% Completion
1	Chimney	L&T Limited (EPC)	22.JUN.19	28.JUN.23	31.JUL.23	24.29%	
2	Coal Handling Plant	L&T (Conveyor pkg)	22.JUN.19	19.NOV.22	30.AUG.23	7.54%	
		L&T (Wagon tippler)	22.JUN.19	21.NOV.22	21.SEP.23	26.10%	
		L&T/ Thyssenkrup (Stacker reclaimers)	22.JUN.19	23.OCT.22	15.OCT.23	8.05%	
3	Ash Handling Plant	L&T /Macawber Beekay Pvt ltd	22.JUN.19	19.JUL.23	30.SEP.23	15.27%	
4	Fuel Oil System	L&T/ Shalkoot Mechanique Pvt. Ltd	22.JUN.19	31.AUG.22	31.JUL.23	37.55%	
5	Cooling Towers	L&T/ Paharpur Cooling Towers Ltd	I-22.JUN.19 II-22.JUN.19	I-20.FEB.23 II-20.JUN.23	I-15.JUL.23 II-30.SEP.23	I-46.13% II-21.78%	
6	CW Pump house	L&T/ Xylem Water Solutions India Pvt Ltd	I-22.JUN.19 II-22.JUN.19	I-23.FEB.23 II-23.JUN.23	I-10.JUL.23 II-20.SEP.23	I-19.85% II-15.17%	
7	WPT Plant	L&T/ Driplex Water Engineering Pvt Ltd	I-22.JUN.19 II-22.JUN.19	I-05.APR.23 II-05.AUG.23	I-05.JUN.23 II-05.AUG.23	I-28.55% II-19.47%	
8	DM Plant	L&T/ Driplex Water Engineering Pvt Ltd	22.JUN.19	21.JUN.23	21.JUN.23	79.42%	
9	Compressed Air System	L&T / L&T-MHPS Boilers Pvt. Ltd	22.JUN.19	20.OCT.22	20.JUL.23	28.48%	
10	Fire Protection System	L&T/ Flowmore Limited	22.JUN.19	10.JUL.23	10.JUL.23	14.87%	
11	Switch Yard	L&T/ ABB Power Products & Systems India Ltd	22.JUN.19	21.NOV.22	30.APR.23	62.75%	
12	Station Transformers	L&T/ ABB Power Products & Systems India Ltd	I-22.JUN.19 II-22.JUN.19	I-22.APR.22 II-22.AUG.22	I-30.APR.23 II-31.JUL.23	I-35.85% II-16.42%	
13	Unit Transformers	L&T/ ABB Power Products & Systems India Ltd	I-22.JUN.19 II-22.JUN.19	I-29.MAR.23 II-29.SEP.23	I-31.MAY.23 II-29.SEP.23	I-6.39% II-5.97%	
14	Railway Siding	RTES Ltd.	13.JUN.19	31.OCT.22	31.DEC.23	22.85 %	
15	Power Evacuation Lines	BSPTCL, Govt. of Bihar	23.NOV.21	31.DEC.22	30.APR.23	84.57 %	

**CRITICAL ISSUES**

- Problem in land acquisition for railway siding and water intake pipeline corridor
- Deployment of CISF for smooth construction works at project site.
- Slow work progress is BoP areas i.e. AHP, CHP, CT,CWPH, PT Plant, Railway siding, Chimney

**REASONS OF DELAY**

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

BOP: Delayed acquisition of land for Water Corridor & Intake and Rail Corridor., Covid-19 Pandemic and subsequent lockdowns, Non-availability of industrial Oxygen cylinders due to Covid-19, State government restriction for transportation of aggregates, sand mining etc.

**OBRA 'C' TPP, Unit# 1 & 2 (2x660 MW) / UPRVUNL (STATE SECTOR - NORTHERN REGION)**

Village-Obra, Tehsil-Obra, District-Sonebhadra, Pin-231219 Uttar Pradesh

E-Gen Portal Registration No. (U#1 - 1200001696; U#2 - 1200001697)

Project Developer / Implementing Agency - UPRVUNL		Main Plant Vendor - (BTG) : M/s. Doosan Power Systems India Pvt. Ltd.		
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual	Trial Run Date
Unit#1	Dec-2016	Dec-2020		Jun-2023
Unit#2		Apr-2021		Jan-2024
CLEARANCES AND STATIC DATA		FINANCIAL DATA (Fig. in Rs. Crore)		
FUEL TYPE	Coal, Indigenous		ORIGINAL ESTIMATED COST OF THE PROJECT	8777.71
COAL COMBUSTION TECHNOLOGY	Ultra-Supercritical		LATEST ESTIMATED COST	10416.00
APPROVAL DATE / NTP	Date of NTP or Approval Date: 22.12.2016		DATE OF FINANCIAL CLOSURE	13.11.2013; 30.05.2019 for additional amount
EPC/BTG/BoP Contractor Details (Package Wise)	22.12.2016. EPC contract awarded to M/s Doosan Power Systems India Pvt. Ltd., Gurugram(Haryana)		YEAR WISE EXPENDITURE	
PPA	PPA signed with UP Power Corporation Ltd for 100% share to state of UP			
COAL LINKAGE/FSA	Allocated Mine - Saharpur Jamarpani mines, Jharkhand; Distance from mine - 651 km (non pithead); Allocation Date: 13.08.2015. Grade of Coal -G10		2015-16	7.24
START UP POWER AGREEMENT	Start up power from UPPTCL		2016-17	423.77
POWER EVACUATION SYSTEM	Tx Line Developer	UPPTCL	2017-18	277.83
	Tx Line Name Tx Voltage Level	i) LILO of 765 kV Anpara'D'- Unnao S/C at Obra 'C' TPS; ii) 400 kV D/C Jaunpur- Obra line (upto LILO point of Obra'B' – Obra 'C' Line).	2018-19	855.90
	Configuration of Tx Line (S/C or D/C)		2019-20	2175.96
LAND POSSESSION	Brown Field project, therefore Land already in Possession. For ash dyke construction, land acquisition of 113.42 Ha under progress. Initially ash disposal of Obra 'C' will be made in existing obra 'B' Ash Pond and in parallel land aquisition work for Obra'C' is in progress.		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.		2021-22	1826.42
MOEF CLEARANCE	Clearance obtained date 21.06.2016		EXPENDITURE OF FEB'2023	81.53
CIVIL AVIATION CLEARANCE	Clearance obtained date : 12.07.2016 Valid upto 21.07.2021		TOTAL EXPENDITURE (upto 28.02.2023)	8358.09
CPCB CLEARANCE	Not Applicable			
SPCB CLEARANCE	Not Applicable			
FOREST CLEARANCE	Wild life Clearance obtained date 07.06.2016			

**OBRA 'C' TPP, Unit# 1 & 2 (2x660 MW) / UPRVUNL (STATE SECTOR - NORTHERN REGION)**

UNIT WISE MILESTONES ( ANTICIPATED / ACTUAL)					
Sl.	MILESTONE	UNIT-01		UNIT-02	
		Original Date of Completion	Anticipated / Actual Date of Completion	Original Date of Completion	Anticipated / Actual 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 (if sub-critical unit)	NA		NA	
4	BOILER CEILING GIRDER LIFTING COMPLETION	21-Sep-18	7-Mar-19	21-Jan-19	10-Nov-19
5	CONDENSER ERECTION START	23-Nov-18	17-Aug-20	23-Mar-19	2-Apr-22
6	TG ERECTION START	22-Jan-19	2-Nov-20	23-May-19	10-Mar-23
7	HP PIPING ERECTION START	12-Jan-19	1-Mar-20	22-May-19	2-Jan-21
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	22-Sep-19	27-Sep-20	23-Jan-20	20-Apr-22
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	22-Sep-19	27-Sep-20	23-Jan-20	20-Apr-22
10	TG BOX UP	22-Feb-20	15-Dec-21	20-Jun-20	01-Jun-23
11	HP PIPING ERECTION COMPLETION	20-Mar-20	14-Mar-22	20-Jul-20	18-Mar-23
12	START OF OILFLUSHING	23-Feb-20	10-Mar-22	21-Jun-20	31-Mar-23
13	BOILER LIGHT UP	21-Apr-20	26-Apr-22	19-Aug-20	29-Jun-23
14	CHEMICAL CLEANING COMPLETION	25-Mar-20	16-Mar-22	25-Jul-20	02-May-23
15	STEAM BLOWING START	22-May-20	07-Nov-22	19-Sep-20	03-May-23
16	STEAM BLOWING COMPLETION	22-Jun-20	09-Dec-22	19-Oct-20	02-Oct-23
17	ROLLING & SYNC.	30-Jul-20	16-Apr-23	27-Nov-20	27-Oct-23
18	FULL LOAD	1-Sep-20	22-May-23	31-Dec-20	22-Nov-23
19	TRIAL RUN	21-Dec-20	25-Jun-23	21-Apr-21	01-Jan-24
20	COD	21-Dec-20	30-Jun-23	21-Apr-21	05-Jan-24

STATUS OF MAIN PLANT PACKAGE (BTG) : Doosan Power Systems India Pvt.					
Sl.	Packages	AREA	UNIT-01	UNIT-02	
			% Completion	% Completion	
1	BOILER	CIVIL	97.14%	74.21%	
		STRUCTURE			
		PRESSURE PARTS			
2	TG	CIVIL	97.63%	51.26%	
		STRUCTURE			
		PRESSURE PARTS			
3	ESP	PASS STATUS	96.86%	55.22%	
4	FGD	CIVIL WORK	94.44%	70.81%	
		MATERIAL SUPPLY	94%	65.5%	
		ERECTION WORK	33.7%	11.13%	

STATUS OF BOPs (DPSI-EPC)							
Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC-BHEL)	Date of Award	Scheduled Date of Completion	Anticipated/ Actual Date of Completion	UNIT-01	UNIT-02
						% Completion	% Completion
1	Chimney	M/s.Simplex	27.11.2018	01.12.2019	05.07.2023	98.55%	
2	Coal Handling Plant	KCC (Conveyor package)		19.05.2020	18.07.2023	59.87%	
		Aneja (Wagon Tripler)	23.11.2018	23.02.2020	07.10.2023	66.8%	
		Aneja (Stacker Reclaimer)	02.05.2018	05.04.2020	24.06.2023	74.87%	
3	Ash Handling Plant	AKC, PNC	09.04.2018	29.06.2020	31.12.2023	53.71%	
4	Fuel Oil System	AKC, Sangha, Singrauli, Jiwala	30.11.2018	04.05.2020	17.05.2023	94.90%	
5	Cooling Towers	PCTL	01.08.2018(C T-01), 14.12.2018(C T-02)	25.11.2019(C T-01), 26.03.2020(C T-02)	21.03.2023 30.08.2023	73.8%	63.62%
6	CW Pump house	GDCL	06.06.2018	05.07.2020	02.04.2023	98.12%	
7	WPT Plant	Rajpati Vishwakarma, Sahil Kumar, KNIL, IEIL	20.11.2018	13.09.2020	16.03.2023	96.66%	
8	DM Plant	Rajpati Vishwakarma, Sahil Kumar, KNIL, IEIL	03.10.2018	04.11.2019	04.03.2023	99.44%	
9	Compressed Air System	GDCL	23.11.2018	04.05.2020	10.05.2023	95.38%	
10	Fire Protection System	Lloyd	08.04.2019	17.10.2019	23.04.2023	45.46%	
11	Switch Yard	KNIL, GDCL, GET&D	01.08.2018	30.01.2020	02.04.2023	94.81%	
12	Station Transformers	GDCL, GET&D	10.11.2018	27.09.2019	28.06.2022	100.00 %	
13	Unit Transformers	GDCL, GET&D	10.03.2019	06.02.2020	25.01.2023	97.94%	
14	Railway Siding	DPSI	Civil Works:- 24.08.2019	Civil Works:- 23.02.2020	Civil Works:- 23.05.2023 S&T Works:- 21.11.2023 OHE works:- Aug-2023(Tentative)	72 %	
15	Power Evacuation Lines	GET&D	08.11.2017	24.07.2020	28.03.2023	90%	

**CRITICAL ISSUES**

<ul style="list-style-type: none"> <li>- The problem of power evacuation from Obra-C is yet to be fixed (Problem created due to cross connection of 765 KV LILO line at Obra-C dead end tower)</li> <li>- Slow work progress in AHP/CHP/CT/Fire protection areas and Railway siding.</li> </ul>
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**REASONS OF DELAY**

<ul style="list-style-type: none"> <li>- COVID-19 I &amp; II wave.</li> <li>- Steel Price Hike, Dispute between DPSI and its sub-vendors,</li> </ul>
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**JAWAHARPUR STPS, Unit# 1 & 2 (2X660 MW) / UPRVUNL (STATE SECTOR - NORTHERN REGION)**

Jawaharpur STPS, Malawan, Etah, UP - 207001

E-Gen Portal Registration No. (U#1 - 1200002452; U#2 - 1200002496)

Project Developer / Implementing Agency - UPRVUNL		Main Plant Vendor - M/S Doosan Power Systems India		
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual	Trial Run Date
Unit#1	Dec-2016	Dec-2020		Jun-2023
Unit#2		Apr-2021		Dec-2023
CLEARANCES AND STATIC DATA		FINANCIAL DATA (Fig. in Rs. Crore)		
FUEL TYPE	Coal, Indigenous		ORIGINAL ESTIMATED COST OF THE PROJECT	8078.56
COAL COMBUSTION TECHNOLOGY	Ultra Super Critical		LATEST ESTIMATED COST	10566.27
APPROVAL DATE / NTP	Approval of DPR and Intial project cost by U.P.Government of DPR Vide letter dated 04.09.2015		DATE OF FINANCIAL CLOSURE	
EPC/BTG/BoP Contractor Details (Package Wise)	22.12.2016- date of Award to EPC Contractor M/s Doosan Power Systems India Power Limited - scope including BTG,BOP		YEAR WISE EXPENDITURE	
PPA	Details of PPA signed or under process whichever is applicable with defining share % if any.		2016-17	445.21
COAL LINKAGE/FSA	Allocated Mine - Saharpur Jamarpani mines, Jharkhand; Distance from mine - 1190 km (non pithead)		2017-18	400.26
	Bridge Linkage from CCL/ECL for 4.461 MTPA		2018-19	844.96
START UP POWER AGREEMENT	For 220 KV signed with UPPTCL		2019-20	2295.94
POWER EVACUATION SYSTEM	Tx Line Developer	PGCIL & UPPTCL	2020-21	2034.08
	Tx Line Name Tx Voltage Level	i) LILO of 765kV Mainpuri - Gr. Noida S/C at Jawaharpur TPS; ii) Jawaharpur TPS-Firozabad 400kV D/C line.	2021-22	2224.36
	Configuration of Tx Line (S/C or D/C)		EXPENDITURE OF FEB'2023	208.71
LAND POSSESSION	765 Acre land for Power House under Possession		TOTAL EXPENDITURE (upto 28.02.2023)	9838.12
WATER ALLOCATION	Lower Ganga Canal - 38 cusec			
MOEF CLEARANCE	MOEF clearance granted in 63rd Meeting of the reconstituted EAC (Thermal Power) was held on 29th & 30th August, 2016			
CIVIL AVIATION CLEARANCE	Chimney clearance from AAI vide letter dated 12.06.2015			
CPCB CLEARANCE	NA			
SPCB CLEARANCE	Ref No- 58264/UPPCB/Aligarh(UPPCBRO)/CTE/ETAH/ 2019 dated 24.10.2019 valid up to 09.10.2024			
FOREST CLEARANCE	Clearance obtained vide letter no. 1904/14-1 dated 15.03.2016			

**JAWAHARPUR STPS, Unit# 1 & 2 (2X660 MW) / UPRVUNL (STATE SECTOR - NORTHERN REGION)**

UNIT WISE MILESTONES ( ANTICIPATED / ACTUAL)					
Sl.	MILESTONE	UNIT-01		UNIT-02	
		Original Date of Completion	Anticipated / Actual Date of Completion	Original Date of Completion	Anticipated / Actual 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 (if sub-critical unit)	NA		NA	
4	BOILER CEILING GIRDER LIFTING COMPLETION	06.09.2018	14.06.2019	06.01.2019	14.11.2019
5	CONDENSER ERECTION START	22.01.2019	16.09.2020	22.05.2019	12.06.2021
6	TG ERECTION START	22.01.2019	23.11.2020	22.05.2019	25.02.2022
7	HP PIPING ERECTION START	18.02.2019	01.11.2019	22.06.2019	15.02.2021
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	21.09.2019	10.11.2020	21.01.2020	30.11.2021
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	-	-	-	-
10	TG BOX UP	22.02.2020	25.07.2022	20.06.2020	09.04.2023
11	HP PIPING ERECTION COMPLETION	23.08.2019	10.07.2022	23.12.2019	30.11.2022
12	START OF OILFLUSHING	23.02.2020	12.02.2022	21.06.2020	10.04.2023
13	BOILER LIGHT UP	26.04.2020	27.05.2022	23.08.2020	19.04.2023
14	CHEMICAL CLEANING COMPLETION	15.03.2020	03.05.2022	13.07.2020	30.06.2023
15	STEAM BLOWING START	26.05.2020	27.09.2022	21.09.2020	01.06.2023
16	STEAM BLOWING COMPLETION	21.06.2020	02.12.2022	21.10.2020	27.06.2023
17	ROLLING & SYNC.	21.08.2020	01.05.2023	21.12.2020	12.08.2023
18	FULL LOAD	01.09.2020	08.05.2023	01.01.2021	23.08.2023
19	TRIAL RUN	20.12.2020	29.06.2023	20.04.2021	30.12.2023
20	COD	21.12.2020	30.06.2023	21.04.2021	31.12.2023

STATUS OF MAIN PLANT PACKAGE (BTG) : M/S DPSI				
Sl.	Packages	AREA	UNIT-01	UNIT-02
			% Completion	% Completion
1	BOILER	CIVIL	100 %	100%
		STRUCTURE	95.34 %	89.69%
		PRESSURE PARTS	100%	100 %
2	TG	CIVIL	100 %	99.10%
		STRUCTURE	99.71 %	98.37%
3	ESP	STRUCTURE	91.10%	40.70%
4	FGD	CIVIL WORK	100%	100 %
		MATERIAL SUPPLY	99.3%	95.7%
		ERECTION WORK	79.7%	24.9%

STATUS OF BOPs (DPSI-EPC)							
Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC-BHEL)	Date of Award	Scheduled Date of Completion	Anticipated/Actual Date of Completion	UNIT-01	UNIT-02
						% Completion	% Completion
1	Chimney	Simplex	16.03.2017	05.11.2019	21.04.2023	79.21%	
2	Coal Handling Plant	tkII/ NeoStructo(Conveyor package)	10.10.2017	23.04.2020	01.06.2023	93.49%	
		tkII/ NeoStructo (Wagon Tripler)	10.10.2017	24.12.2019	26.07.2023	97.52%	
		tkII/ NeoStructo (Stacker Reclaimer)	10.10.2017	15.09.2019	12.05.2023	98.14%	
3	Ash Handling Plant	Main vendor/subcontractor	30.12.2016	26.09.2020	05.02.2024	73.59%	
4	Fuel Oil System	Main vendor/	21.02.2017	10.04.2020	01.06.2023	88.28% (Piping#2)	
5	Cooling Towers	Paharpur	05.03.2018, 10.09.2018	26.11.2019, 27.03.2020	25.03.2023, 24.06.2023	96.46%	86.78%
6	CW Pump house	DPSI/ Jyoti	10.01.2017	05.12.2019	31.03.2023	98.63%	
7	WPT Plant	Civil : Tecknow	14.10.2018	06.09.2019	07.04.2023	92.69%	
8	DM Plant	EPC : Ion Exchange	21.08.2019	16.11.2019	31.03.2023	99.56%	
9	Compressed Air System	Atlas / Jyoti	13.03.2017	19.05.2020	01.06.2023	77.61%	
10	Fire Protection System	Lloyd	17.02.2017	05.04.2020	30.03.2023	96.85%	
11	Switch Yard	GE T&D	17.01.2017	26.03.2020	24.07.2023	90.53%	
12	Station Transformers	Zagson	31.01.2019	03.09.2019	11.04.2023	79.53%	
13	Unit Transformers	Zagson	16.08.2019	23.09.2019	13.05.2023	39.87%	
14	Railway Siding				-	Civil work 65%	
15	Power Evacuation Lines	DPSI		21.08.2020	01.05.2023	100 %	100 %

**CRITICAL ISSUES**

- Delay in commissioning of GTs.
- Delay in completion of Rail Network for Coal transportation.
- Inadequate manpower by DPSI.
- Dispute between Main contractor DPSI and their sub vendors.

**REASONS OF DELAY**

1st and 2nd wave of COVID-19 pandemic have caused delay in project, the project is approximately 18 Months delayed.

**PANKI THERMAL POWER PROJECT, Unit# 1 (1X660MW) / UPRVUNL (STATE SECTOR - NORTHERN REGION)**

Panki TPP, Distt. Kanpur UP, 208020

E-Gen Portal Registration No. (U#1 - 1200001768)

Project Developer / Implementing Agency - UPRVUNL		Main Plant Vendor - M/s BHEL		
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual	Trial Run Date
Unit#1	Mar-2018	Sep-2021		Jan-2024
<b>CLEARANCES AND STATIC DATA</b>		<b>FINANCIAL DATA (Fig. in Rs. Crore)</b>		
FUEL TYPE	Coal, Indigenous		ORIGINAL ESTIMATED COST OF THE PROJECT	5816.70
COAL COMBUSTION TECHNOLOGY	Super Critical		LATEST ESTIMATED COST	Not Revised
APPROVAL DATE / NTP	20.03.2018		DATE OF FINANCIAL CLOSURE	22.06.2018
EPC/BTG/BoP Contractor Details (Package Wise)	BHEL, LOA: 31.03.2018		<b>YEAR WISE EXPENDITURE</b>	
PPA	Signed on 17.01.2017		2018-19	543.29
COAL LINKAGE/FSA	Allocated Mine - Saharpur Jamarpani mines, Jharkhand; Distance from mine - 896 km (non pithead). Expected grade of coal is G-10. FSA on 30.01.2017		2019-20	837.26
START UP POWER AGREEMENT	20.10.2020		2020-21	1131.48
POWER EVACUATION SYSTEM	Tx Line Developer	UPPTCL	2021-22	951.81
	Tx Line Name Tx Voltage Level	Panki TPS - Panki , 400 KV, D/C line (UPPTCL)	EXPENDITURE OF FEB'2023	34.62
	Configuration of Tx Line (S/C or D/C)		TOTAL EXPENDITURE (upto 28.02.2023)	4563.57
LAND POSSESSION	It is extension project. Hence Land is available			
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			

**PANKI THERMAL POWER PROJECT, Unit# 1 (1X660MW) / UPRVUNL (STATE SECTOR - NORTHERN REGION)**

UNIT WISE MILESTONES ( ANTICIPATED / ACTUAL)			
Sl.	MILESTONE	UNIT-01	
		Original Date of Completion	Anticipated / Actual 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 (if sub-critical unit)	NA	NA
4	BOILER CEILING GIRDER LIFTING COMPLETION	20.11.2019	23.02.2020
5	CONDENSER ERECTION START	30.04.2020	28.08.2021
6	TG ERECTION START	30.04.2020	04.10.2021
7	HP PIPING ERECTION START	03.11.2019	30.06.2022
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	30.09.2020	17.12.2021
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	22.02.2021	25.05.2023
10	TG BOX UP	31.01.2021	28.02.2023
11	HP PIPING ERECTION COMPLETION	29.08.2020	31.03.2023
12	START OF OILFLUSHING	30.01.2021	30.06.2022
13	BOILER LIGHT UP	28.02.2021	25.05.2023
14	CHEMICAL CLEANING COMPLETION	10.03.2021	15.06.2023
15	STEAM BLOWING START	09.04.2021	31.06.2023
16	STEAM BLOWING COMPLETION	30.04.2021	14.07.2023
17	ROLLING & SYNC.	31.05.2021	30.07.2023
18	FULL LOAD	30.06.2021	15.10.2023
19	TRIAL RUN	30.09.2021	31.01.2024
20	COD	30.09.2021	28.02.2024

STATUS OF MAIN PLANT PACKAGE (BTG) : M/s BHEL			
Sl.	Packages	AREA	UNIT-01
			% Completion
1	BOILER	CIVIL	100.00%
		STRUCTURE WORKS	76.41%
		PRESSURE PARTS	97.40%
2	TG	CIVIL	96.55%
		STRUCTURE WORKS	98.00%
		TG AUX	49.50%
3	ESP	PASS STATUS	92.23%
4	FGD	CIVIL WORK	43.88%
		MATERIAL SUPPLY	53.00%
		ERECTION WORK	9.45%

STATUS OF BOPS						
Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency	Date of Award	Scheduled Date of Completion	Anticipated/Actual Date of Completion	UNIT-01
						% Completion
1	Chimney	Bygging	27.11.2018	01.12.2019	31.03.2023	99.44%
2	Coal Handling Plant	Thyssen Krupp & RVPR (Conveyor Package)		19.05.2020	30.06.2023	58.28%
		Thyssen Krupp & Kanwar (Wagon Tripler)	23.11.2018	23.02.2020	31.03.2023	99.53%(RCC)
		Thyssen Krupp & Kanwar (Stacker Reclaimer)	02.05.2018	05.04.2020	31.03.2023	94.83%(Civil Works) 63.26%(Erection)
3	Ash Handling Plant	Indure/ Kanwar	09.04.2018	29.06.2020	30.06.2023	83.00%
4	Fuel Oil System	GMW/ Simplex	30.11.2018	04.05.2020	31.03.2023	93%
5	Cooling Towers	Paharpur	01.08.2018, 14.12.2018	25.11.2019, 26.03.2020	31.03.2023	99.8%
6	CW Pump house	MHI/ Simplex	06.06.2018	05.07.2020	31.03.2023	70%
7	WPT Plant	GDCL	20.11.2018	13.09.2020	31.03.2023	87%
8	DM Plant	BGR & Simplex	03.10.2018	04.11.2019	31.03.2023	89%
9	Compressed Air System	ATLAS COPCO	23.11.2018	04.05.2020	31.03.2023	89%
10	Fire Protection System	BHEL	08.04.2019	17.10.2019	31.03.2023	35%
11	Switch Yard	JSPPL	01.08.2018	30.01.2020	15.03.2023	99%
12	Station Transformers	BHEL	10.11.2018	27.09.2019	15.03.2023	100%
13	Unit Transformers	BHEL	10.03.2019	06.02.2020	31.03.2023	25%
14	Railway Siding	RITES			28.02.2023	72.5%
15	Power Evacuation Lines	UPPTCL	08.11.2017	24.07.2020	Mar-2023	75%

**CRITICAL ISSUES**

- Slow progress in CWP, AHP, WPT, Wagon Tippler ,Fire protection causing delay in the project.
- Inadequate manpower at site.

**REASONS OF DELAY**

Due to COVID 19 outbreak and its consequences.

**BHUSAWAL SUPERCRITICAL TPP, Unit# 1 (1X660 MW) / MAHAGENCO (STATE SECTOR - WESTERN REGION)**

Village Pimpri Sekam, Tal Bhusawal, Dist Jalgaon, Maharashtra, 425307

E-Gen Portal Registration No. (U#1 - 120002450)

Project Developer / Implementing Agency - MAHAGENCO		Main Plant Vendor - M/S BHEL (EPC Contract-17.01.2018)		
Unit No.	LoA	Original Trial Run Date	Anticipated / Actual	Trial Run Date
Unit#1	Jan-2018	May-2022		Jul-2023
<b>CLEARANCES AND STATIC DATA</b>		<b>FINANCIAL DATA (Fig. in Rs. Crore)</b>		
FUEL TYPE	Coal, Indigenous		ORIGINAL ESTIMATED COST OF THE PROJECT	4548.00
COAL COMBUSTION TECHNOLOGY	Super Critical		LATEST ESTIMATED COST	4550.97
APPROVAL DATE / NTP	25-09-2009		DATE OF FINANCIAL CLOSURE	NA
EPC/BTG/BoP Contractor Details (Package Wise)	M/s BHEL (EPC Contract, LoA:17.01.2018)		<b>YEAR WISE EXPENDITURE</b>	
PPA	Long Term Power Purchase Agreement dated 24.12.2010 with Maharashtra state Electricity Distribution Co. ltd for 100% of installed capacity		2018-19	59.41
COAL LINKAGE/FSA	Allocated Mine - WCL, Umred/Ghugus; Distance from mine – 403/430km; Allocation Date: 11-09-2020, Source:WCL mines ,Grade: G9/G10, Quantity : 318 million tonne.		2019-20	584.06
START UP POWER AGREEMENT	Maharashtra State Electricity Transmission Company Ltd (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.		2020-21	1381.85
POWER EVACUATION SYSTEM	Tx Line Developer	MSETCL	2021-22	1173.80
	Tx Line Name Tx Voltage Level	LILoing of Bhusawal-II - Aurangabad I, 400 KV, D/C line at Thaptitanda	EXPENDITURE OF FEB'2023	64.74
	Configuration of Tx Line (S/C or D/C)		TOTAL EXPENDITURE (upto 28.02.2022)	4017.46
LAND POSSESSION	Total Land Required: 120.39 Hectare Total land acquired: 118.415 Hectare Total land in use: 118.415 Hectare			
WATER ALLOCATION	Source: - Tapi River Quantity: - 18.85 MM3 Per Annum.			
MOEF CLEARANCE	Clearance obtained date from concerned authority: 27/11/2012 validity : 26/11/2022			
CIVIL AVIATION CLEARANCE	Clearance obtained date from concerned authority: 27/08/2008 validity : 23/02/2022			
CPCB CLEARANCE	Not Applicable			
SPCB CLEARANCE	Clearance obtained date from concerned authority: 10/06/2020 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.			



BHUSAWAL SUPERCRITICAL TPP, Unit# 1 (1X660 MW) / MAHAGENCO (STATE SECTOR - WESTERN REGION)			
UNIT WISE MILESTONES ( ANTICIPATED / ACTUAL)			
Sl.	MILESTONE	UNIT-01	
		Original Date of Completion	Anticipated / Actual 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 (if sub-critical unit)	NA	NA
4	BOILER CEILING GIRDER LIFTING COMPLETION	30.06.2020	20.01.2021
5	CONDENSER ERECTION START	31.10.2020	30.03.2022
6	TG ERECTION START	30.11.2020	03.03.2022
7	HP PIPING ERECTION START	11.05.2021	22.03.2021
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	31.05.2021	04.11.2022
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	10.11.2021	Mar,2023
10	TG BOX UP	30.11.2021	Mar,2023
11	HP PIPING ERECTION COMPLETION	25.04.2022	Apr,2023
12	START OF OILFLUSHING	04.12.2021	Mar,2023
13	BOILER LIGHT UP	30.11.2021	Mar,2023
14	CHEMICAL CLEANING COMPLETION	20.12.2021	Apr,2023
15	STEAM BLOWING START	24.01.2022	May,2023
16	STEAM BLOWING COMPLETION	19.02.2022	May, 2023
17	ROLLING & SYNC.	31.03.2022	May,2023
18	FULL LOAD	30.04.2022	July,2023
19	TRIAL RUN	31.05.2022	July-2023
20	COD	31.05.2022	July,2023

STATUS OF MAIN PLANT PACKAGE (BTG) : M/S BHEL						
Sl.	Packages	AREA	UNIT-01		UNIT-01 % Completion	
1	BOILER	CIVIL			92%	
		STRUCTURE WORKS				
		PRESSURE PARTS				
2	TG	CIVIL			89%	
		STRUCTURE WORKS				
		PRESSURE PARTS				
3	ESP	PASS STATUS			97%	
4	FGD	CIVIL WORK			46%	
		MATERIAL SUPPLY				
		ERECTION WORK				

STATUS OF BOPS						
Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC- BHEL)	Date of Award	Scheduled Date of Completion	Anticipated/Actual Date of Completion	UNIT-01
						% Completion
1	Chimney	M/s Powermech	30.05.2019	28.02.2022	Apr-2023	99%
2	Coal Handling Plant	M/s BJCL & Macawber Beekay Pvt Ltd.(Conveyor package)	27.05.2019	30.04.2022	Jul,2023	64%
		M/s BJCL& Promac (Wagon tippler)	28.05.2019	30.04.2022	Jul,2023	47%
		M/s BJCL& Promac(Stacker Reclaimer)	24.08.2019, 28.05.2019	30.04.2022	May,2023	64%
3	Ash Handling Plant	M/s BJCL & Macawber Beekay Pvt Ltd.	24.08.2019, 23.12.2021	31.03.2022	June,2023	60%
4	Fuel Oil System	M/s. New Fire Engineers Pvt Ltd.	19.09.2019	21.11.2021	Feb,2023	95%
5	Cooling Towers	M/s Hayagrev civil engineering Pvt Ltd	1.11.2019, 05.03.2022	31.03.2022	June, 2023	93%
6	CW Pump house	M/s Alpha power engineering services Pvt Ltd,G&J Pvt Ltd.	29.01.2019	28.02.2022	May,2023	95%
7	WPT Plant	M/s Clear Water company	17.02.2020	12.12.2021	May,2023	54%
8	DM Plant	M/s Wipro Enterprises Pvt Ltd	14.01.2020	30.11.2021	May,2023	97%
9	Compressed Air System	M/s Elgi equipment Ltd.	24.08.2020	04.11.2021	Mar,2023	88%
10	Fire Protection System	M/s Alpha power engineering services Pvt Ltd	29.01.2021	20.05.2021	Mar,2023	91%
11	Switch Yard	M/s BNC Power Projects Ltd	15.02.2021	28.02.2022	Jan,2023	100%
12	Station Transformers	M/s BHEL	17.01.2018	08.07.2021	Jan,2023	65%
13	Unit Transformers	M/s BHEL	17.01.2018	20.01.2022	Apr,2023	65%
14	Railway Siding	ISC Projects	02.01.2021	31.03.2022	Aug,2023	73%
15	Power Evacuation Lines	MSETCL/BNC Power Projects	15.02.2021	28.02.2022	June,2023	100%

**CRITICAL ISSUES**

- i) Slow progress in BoP area –AHP, WPT, CHP, Railway siding (due to re-tendering of some package ).
- ii) Inadequate manpower of BHEL at site
- iii) Delay in supply of BoI i.e. Borosilicate liner , Oil module (M/s. Hydac), SCR and FGD dampers.
- iv) Very slow progress in Fire protection system

**REASONS OF DELAY**

Due to Covid-19 pandemic.

**SRI DAMODARAM SANJIVIAIAH TPS, St- II, Unit# 1 (1X800 MW) / APPDCL (STATE SECTOR - SOUTHERN REGION)**

Nelatur (Village), near Krishnapatnam, Muthukuru (Mandal), SPSR Nellore (District) Andhra Pradesh – 524 347  
E-Gen Portal Registration No. (U#1 -1200001078)

Project Developer / Implementing Agency -APPDCL		Main Plant Vendor - BTG order placed on BHEL on 02.11.2015		
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual	Trial Run Date
Unit#1	Nov-2015	Jun-2019		Mar-2023
CLEARANCES AND STATIC DATA		FINANCIAL DATA (Fig. in Rs. Crore)		
FUEL TYPE	Coal, Indigenous		ORIGINAL ESTIMATED COST OF THE PROJECT	4276.03
COAL COMBUSTION TECHNOLOGY	Supercritical		LATEST ESTIMATED COST	7922.72
APPROVAL DATE / NTP	16 Feb, 2013		DATE OF FINANCIAL CLOSURE	17.09.2014
EPC/BTG/BoP Contractor Details (Package Wise)	BTG contractor: BHEL and BoP:TPL		YEAR WISE EXPENDITURE	
PPA	PPA entered with APDISCOMS to sell 90% of the declared capacity		2015-16	7.08
COAL LINKAGE/FSA	Allocated Mine - MCL, Talcher (Odisha); Distance from mine - 1225 km (non pithead); MCL has issued LoA to supply 3.548 MTPA vide letter dated 04-03-2018.		2016-17	568.03
START UP POWER AGREEMENT	From the existing Stage-I (2x800 MW) Units.		2017-18	1664.72
POWER EVACUATION SYSTEM	Tx Line Developer	APTRANSCO	2018-19	2886.73
	Tx Line Name Tx Voltage Level	Power evacuation system is available. Power will be evacuated through existing 400 kV lines connected to switchyard St-I.	2019-20	1062.04
	Configuration of Tx Line (S/C or D/C)		2020-21	885.36
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)		2021-22	920.53
WATER ALLOCATION	Seawater about 6,556 Cum/Hr		EXPENDITURE OF FEB'2023	35.51
MOEF CLEARANCE	MoEF clearancce obtained on 02-07-2015 for 7 Years		TOTAL EXPENDITURE (upto 28.02.2023)	8813.24
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			
FOREST CLEARANCE	RC. No. 646/2013/WL-1, Dt. 23.02.2012			

**SRI DAMODARAM SANJIVIAH TPS, St- II, Unit# 1 (1X800 MW) / APPDCL (STATE SECTOR - SOUTHERN REGION)**

UNIT WISE MILESTONES ( ANTICIPATED / ACTUAL)				STATUS OF MAIN PLANT PACKAGE (BTG) : M/s BHEL							
Sl.	MILESTONE	UNIT-01		Sl.	Packages	AREA	UNIT-01				
		Original Date of Completion	Anticipated / Actual Date of Completion				% Completion				
1	COMPLETION OF BOILER FOUNDATION	17.04.2017	27.05.2017	1	BOILER	CIVIL	100%				
2	START OF BOILER ERECTION	06.04.2017	26.06.2017			STRUCTURE					
3	BOILER DRUM LIFTING (if sub-critical unit)	NA	NA			PRESSURE PARTS					
4	BOILER CEILING GIRDER LIFTING COMPLETION	06.04.2017	04.02.2018	2	TG	CIVIL	99%				
5	CONDENSER ERECTION START	26.08.2017	24.08.2018			STRUCTURE					
6	TG ERECTION START	23.11.2017	03.10.2018	3	ESP	TG ERECTION					
7	HP PIPING ERECTION START	01.04.2018	21.11.2019	4	FGD	UNDER PROGRESS	99%				
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	27.03.2018	01.07.2019			CIVIL WORK					
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	16.11.2018	18.12.2019			MATERIAL SUPPLY		Tender was cancelled as no response from bidders. Revised specification is under preparation.			
10	TG BOX UP	14.11.2018	29.02.2020		ERECTION WORK						
11	HP PIPING ERECTION COMPLETION	15.05.2019	18.01.2022	<b>STATUS OF BOPs</b>							
12	START OF OILFLUSHING	30.11.2018	19.03.2020	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency	Date of Award	Scheduled Date of Completion	Anticipated/Actual Date of Completion	UNIT-01 % Completion	
13	BOILER LIGHT UP	11.12.2018	31.12.2019	1	Chimney	TPL / Bygging	11.04.2017	17.04.2019	31.10.2019	100%	
14	CHEMICAL CLEANING COMPLETION	25.12.2018	07.12.2020	2	Coal Handling Plant	(Conveyor package) TPL / ISGEC	13.10.2017	31.05.2019	30.11.2022	98%	
15	STEAM BLOWING START	27.12.2018	20.03.2021			(Wagon tippler)	-	-	-	-	NOT APPLICABLE
16	STEAM BLOWING COMPLETION	21.01.2019	08.06.2021			(Stacker Reclaimer)	-	-	-	-	NOT APPLICABLE
17	ROLLING & SYNC.	14.01.2019	10.11.2021	3	Ash Handling Plant	TPL / MBPL	13.07.2018	31.05.2019	31.10.2022	98%	
18	FULL LOAD	14.03.2019	30.01.2023	4	Fuel Oil System	TPL / United System	06.04.2018	01.04.2019	20.04.2021	100%	
19	TRIAL RUN	15.04.2019	Mar'23	5	Cooling Towers	TPL / Hayagrev	24.07.2017	09.03.2019	18.03.2021	100%	
20	COD	Jun-2019	Mar'23	6	CW Pump house	TPL / Xylem & DSS	21.11.2016	20.02.2019	27.05.2021	100%	
				7	WPT Plant	TPL / BGR	25.12.2017	04.02.2019	05.12.2019	100%	
				8	DM Plant	TPL / BGR		30.04.2019	22.01.2021	100%	
				9	Compressed Air System	TPL / ELGI	24.11.2018	25.02.2019	29.12.2019	100%	
				10	Fire Protection System	TPL / AGNICE	10.08.2018	27.04.2019	31.10.2022	95%	
				11	Switch Yard	TPL / ABB	02.02.2018	30.04.2019	11.10.2019	100%	
				12	Station Transformers	M/s BHEL		06.12.2018	14.10.2019	100%	
				13	Unit Transformers	M/s BHEL		06.12.2018	31.08.2022	97%	
				14	Railway Siding	Not Applicable	-	-	-	-	
				15	Power Evacuation Lines	Generated power will be evacuated with exiting 400kv lines connected to switch yard				Available	

**CRITICAL ISSUES**

<ul style="list-style-type: none"> <li>➤ Boiler tube leakage delaying the commissioning of the Unit.</li> <li>➤ FGD work is yet to be awarded. ( Revised specs is under preparation )</li> </ul>
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**REASONS OF DELAY**

<ul style="list-style-type: none"> <li>- 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.</li> <li>- Unit started for partial trial load operations on 21.03.2022 and loaded up to 270 MW. TG vibrations occurred. Shut down of unit was done on 28.3.22. After TG vibration rectification work, restart of unit will be done in August 2022.</li> </ul>
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**Dr. NARLA TATA RAO TPS, St-V, Unit# 1 (1x 800 MW) / APGENCO (STATE SECTOR - SOUTHERN REGION)**

Ibrahimpatnam (Village &amp; Mandalam), Krishna District, Andhra Pradesh. PIN: 521456

E-Gen Portal Registration No. (U#8 - 1200000271)

Project Developer / Implementing Agency - APGENCO		Main Plant Vendor - M/S BHEL (BTG)		
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual	Trial Run Date
Unit#1	Dec-2015	Apr-2019		Jun-2023
<b>CLEARANCES AND STATIC DATA</b>		<b>FINANCIAL DATA (Fig. in Rs. Crore)</b>		
FUEL TYPE	Coal, Indigenous		ORIGINAL ESTIMATED COST OF THE PROJECT	5286.54
COAL COMBUSTION TECHNOLOGY	Supercritical		LATEST ESTIMATED COST	7586.67
APPROVAL DATE / NTP	Administrative approval accorded on 09.07.2014		DATE OF FINANCIAL CLOSURE	
EPC/BTG/BoP Contractor Details (Package Wise)	BTG/BHEL(LoA:15.12.2015) and BoP: M/s BGR (LoA: 06.07.2016)		<b>YEAR WISE EXPENDITURE</b>	
PPA	PPA is available with DISCOMS of erstwhile APGENCO in combined AP. The same is being revised with APDISCOMS		2015-16	6.60
COAL LINKAGE/FSA	Allocated Mine - MCL (non-pithead); Distance from mine - 930 km (non pithead); MCL issued LoI for supply of 3.548 MTPA vide letter dated 12-11-2018. Grade of coal - G13; Bridge Linkage - Not Applicable		2016-17	422.91
START UP POWER AGREEMENT	Not Applicable		2017-18	2099.15
POWER EVACUATION SYSTEM	Tx Line Developer	Power evacuation will be through 3 nos. of 400 KV feeders which are ready with extension of existing 400 KV switchyard of Stage-IV. Unit-8 (St.-V) switchyard is extended from existing switchyard of Unit-7 (St.-IV).	2018-19	1495.18
	Tx Line Name Tx Voltage Level		2019-20	1032.00
	Configuration of Tx Line (S/C or D/C)		2020-21	585.00
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. NTPS Project.		2021-22	773.50
WATER ALLOCATION	Irrigation department vide letter dt:05.03.2015 agreed to supply 25 Cusecs water from Krishna river upstream of Prakasam barrage, Vijayawada.		EXPENDITURE OF FEB '2023	70.25
MOEF CLEARANCE	MoEF issued clearance for imported coal vide letter dated:26.06.2015 and the same was revised vide letter dt:11.04.2019.		TOTAL EXPENDITURE (upto 28.02.2023)	7533.14
CIVIL AVIATION CLEARANCE	Aviation clearance was obtained vide letter dated:15.10.2012			
CPCB CLEARANCE	CPCB clearance 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 Clearance is Not applicable			

**Dr. NARLA TATA RAO TPS, St-V, Unit# 1 (1x 800 MW) / APGENCO (STATE SECTOR - SOUTHERN REGION)**

UNIT WISE MILESTONES ( ANTICIPATED / ACTUAL)				STATUS OF MAIN PLANT PACKAGE (BTG) : M/S BHEL								
Sl.	MILESTONE	UNIT-01		Sl.	Packages	AREA	UNIT-01					
		Original Date of Completion	Anticipated / Actual Date of Completion				% Completion					
1	COMPLETION OF BOILER FOUNDATION	15.11.2016	20.06.2017	1	BOILER	CIVIL					97.30%	
2	START OF BOILER ERECTION	25.10.2016	22.05.2017			STRUCTURE						89.00%
3	BOILER DRUM LIFTING (if sub-critical unit)	NA	NA			PRESSURE PARTS						
4	BOILER CEILING GIRDER LIFTING COMPLETION	06.04.2017	27.12.2017	2	TG	CIVIL					89.20%	
5	CONDENSER ERECTION START	23.09.2017	22.08.2018			STRUCTURE						95.23%
6	TG ERECTION START	05.12.2018	03.02.2021			PRESSURE PARTS						97.00%
7	HP PIPING ERECTION START	19.12.2018	10.01.2019	3	ESP	PASS STATUS					98.00%	
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	27.03.2018	03.03.2019	4	FGD	CIVIL WORK					Price bid is opened, bid evaluation is under progress.	
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	16.11.2018	24.10.2019			MATERIAL SUPPLY						
10	TG BOX UP	24.08.2019	13.06.2021			ERECTION WORK						
11	HP PIPING ERECTION COMPLETION	11.02.2019	15.07.2021	STATUS OF BOPs								
12	START OF OIL FLUSHING	17.06.2020	18.12.2020	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency	Date of Award	Scheduled Date of Completion	Anticipated/Actual Date of Completion	UNIT-01 % Completion		
13	BOILER LIGHT UP	15.05.2019	28.12.2019	1	Chimney	M/s BGRESL	16.05.2017	11.05.2019	Major works completed.	97%		
14	CHEMICAL CLEANING COMPLETION	12.12.2018	12.03.2020	2	Coal Handling Plant	M/s BGRESL (Conveyor package)	16.09.2016	30.03.2019	31.12.2022	50%		
15	STEAM BLOWING START	27.12.2019	05.04.2021			M/s BGRESL (Wagon Tripler)	30.05.2018	30.01.2019	31.12.2022	80%		
16	STEAM BLOWING COMPLETION	09.02.2019	01.06.2021			M/s BGRESL (Stacker Reclaimer)	01.05.2018	30.06.2018	31.12.2022	45%		
17	ROLLING & SYNC.	22.02.2021	07.12.2021	3	Ash Handling Plant	M/s BGRESL	24.10.2016	01.05.2019	31.12.2022	39%		
18	FULL LOAD	30.04.2019	15.05.2023	4	Fuel Oil System	M/s BGRESL	18.02.2017	08.11.2018	05.03.2021	100%		
19	TRIAL RUN	20.04.2019	15.06.2023	5	Cooling Towers	M/s BGRESL	17.01.2017	16.05.2019	Major works completed. Charged on 11.9.2021.	85%		
20	COD	14.06.2019	30.06.2023	6	CW Pump house	M/s BGRESL	02.03.2017	20.05.2019	30.11.2022	95%		
				7	WPT Plant	M/s BGRESL	02.11.2016	15.12.2018	30.11.2022	80%		
				8	DM Plant	M/s BGRESL	02.11.2016	15.12.2018	30.11.2022	95%		
				9	Compressed Air System	M/s BGRESL	21.02.2017	23.06.2018	31.12.2022	90%		
				10	Fire Protection System	M/s BGRESL	15.02.2017	06.04.2019	31.12.2022	70%		
				11	Switch Yard	M/s BGRESL / M/s Sri Sai Contractors	16.09.2017	30.03.2018	30.11.2022	95%		
				12	Station Transformers	M/s BHEL / M/s KSL Contractors	30.01.2019	06.01.2020	12.06.2019	100%		
				13	Unit Transformers	M/s BHEL / M/s KSL Contractors	05.03.2020	06.12.2020	30.11.2022	90%		
				14	Railway Siding	M/s BGRESL	01.06.2019	31.10.2021	31.12.2022	30%		
				15	Power Evacuation Lines	Unit-8 Switchyard is extended from existing switchyard of Unit-7 and Power evacuation is proposed through lines on the existing switchyard.						

**CRITICAL ISSUES**

- Poor work progress in AHP, CHP, Railway Siding, WPT area, supply & erection of C&I system incl PLCs of AHP/CHP.
- Delay in Readiness of fronts for RHS Mills and feeders, Hot Air ducting & coal pipes
- Enhancement of manpower in CHP/AHP areas ( M/s BGR scope)
- FGD work is yet to be awarded.

**REASONS OF DELAY**

- Due to change in Boiler design for implementation of revised norms regarding reduction of Nox levels initial delay was occurred.
- Due to the impact of Covid-19 and subsequent lockdowns in first & second wave has severely impacted the labour & supplies.
- All the labour stranded at site during first lockdown left the site after relaxation of lockdown and partial lockdowns imposed by various states during second wave of covid has affected the supplies. BOP supplies are severely impacted due to steep increase in raw material prices.
- BOP supplies are severely impacted due to steep increase in raw material prices

**YADADRI TPS, Unit# 1, 2, 3, 4 & 5 (5x800 MW) / TSGENCO (STATE SECTOR - SOUTHERN REGION)**

Veerlapalem village, Damercharla Mandal, Nalgonda, Telangana -508208

E-Gen Portal Registration No. (U#1-1200001092; U#2-1200001093; U#3-1200001094; U#4-1200001095; U#5-1200001096)

Project Developer / Implementing Agency - TSGENCO		Main Plant Vendor - BHEL (EPC)		
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual COD Date	
Unit#1	Oct-2017	Oct-2021	Dec-2023	
Unit#2		Oct-2021	Dec-2023	
Unit#3		Jun-2022	Sep-2024	
Unit#4		Jun-2022	Aug-2024	
Unit#5		Oct-2022	Nov-2024	
CLEARANCES AND STATIC DATA		FINANCIAL DATA (Fig. in Rs. Crore)		
FUEL TYPE	Coal, Indigenous		ORIGINAL ESTIMATED COST OF THE PROJECT	25099.42
COAL COMBUSTION TECHNOLOGY	Supercritical		LATEST ESTIMATED COST	29965.48
APPROVAL DATE / NTP	04.10.2014 (MoU entered with BHEL)		DATE OF FINANCIAL CLOSURE	*
EPC/BTG/BoP Contractor Details (Package Wise)	LOI was issued to M/s BHEL as EPC contractor (BTG & BOP) 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.		YEAR WISE EXPENDITURE	
PPA	Power purchase Agreement entered on 11.03.2020 with TSDISCOMS		2015-16	499.46
COAL LINKAGE/FSA	Allocated Mine - SCCL; Distance from mine - 270 km (non pithead); Ministry of Coal vide File No.23014/1/2018-CLD, Dt:15-02-2018 has granted coal linkage from SCCL for supply of 14 MTPA of coal (grade-G9).		2016-17	59.29
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.		2017-18	941.44
POWER EVACUATION SYSTEM	Tx Line Developer	TSTRANSCO	2018-19	2129.24
	Tx Line Name Tx Voltage Level	i) YTPS –Dindi, 400 KV, S/C line; ii) YTPS-Choutuppal,400 KV, S/C line; iii) YTPS-Damarcherla, 400 KV, S/C line;	2019-20	2935.56
	Configuration of Tx Line (S/C or D/C)	iv) YTPS-Janagaon, 400 KV, S/C line.	2020-21	4427.54
LAND POSSESSION	(Details about land area still to be acquired). Ac.5459.39 Gts		2021-22	3582.33
WATER ALLOCATION	Water Source from river Krishna Qty- 208cuses(i.e.6.60 TMC per year) allotted vide G.O.Ms.No.13, Dt:30.01.2015		EXPENDITURE OF FEB '2023	822.09
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 28.02.2023)	20046.17
CIVIL AVIATION CLEARANCE	1.NOCID:NADI/SOUTH/B/071216/149982,Dt:26.07.2016. 2.NOCID:NADI/SOUTH/B/071216/149984,Dt:26.07.2016. 3.NOCID:NADI/SOUTH/B/071216/149988,Dt:26.07.2016.		* M/s REC Ltd vide Lr dt 11-08-2015. M/s PFC Ltd vide Lr dt 19-07-2015	
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 Ir.no.F.No.8.07/2015-FC dt.07-07-2015 Subsequent G.O. was issued by Govt. of Telangana vide G.O.Ms.No.38,d.30-07-2015 by EFS & T (For) Department.			





## YADADRI TPS, Unit# 1, 2, 3, 4 &amp; 5 (5x800 MW) / TSGENCO (STATE SECTOR - SOUTHERN REGION)

## STATUS OF BOPs

Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency	Date of Award	Scheduled Date of Completion	Anticipated/Actual Date of Completion	UNIT-01	UNIT-02	UNIT-03	UNIT-04	UNIT-05
						% Completion	% Completion	% Completion	% Completion	% Completion
1	Chimney	Bygging India Ltd for Unit #1&2;Paharpur for Unit #3&4; ByggingIndia Ltdfor Unit #5	03.02.20	31.07.22	30.05.23 30.09.23 31.12.23	Shell Concreting-100%		Shell Concreting-100%		SC-100%
			24.02.20 12.02.20			Flue can Erection 87.67%		Flue can Erection 58.36%		FCE- 13.28%
2	Coal Handling Plant (Civil)	Powermech (Conveyor package)	09.08.20	31.12.22	30.10.23	65.92%				
		Powermech (Wagon tripler)	10.12.20	30.06.23	31.03.24	94.86%				
		Powermech (Stacker Reclaimer )	08.10.20	30.06.23	30.06.23	98.59%				
3	Ash Handling Plant	BHEL/ Powermech	08.06.21	31.12.22	31.12.23	45.65%				
4	Fuel Oil System	BHEL/Thermosystems	19.02.21	31.07.22	30.05.23	80.74%				
5	Cooling Towers	BHEL/NBCC for Unit #1 (Now M/s Paharpur)	09.01.21	30.10.22	31.08.23	11.87%	12.82%	10.56%	9.69%	7.98%
		BHEL/Gammon for Unit#2	18.12.20	28.02.23	31.08.23					
		BHEL/NBCC for Unit#3	06.02.21	31.03.23	31.12.23					
		BHEL/Gammon for Unit#4	25.02.21	30.04.23	31.12.23					
BHEL/NBCC for Unit#5	18.03.21	31.05.23	31.12.23							
6	CW Pump house	CW pump house & channel - BHEL/HES			30.05.23	93.92%	93.92%	51.57%	51.57%	51.57%
7	WPT Plant	BHEL/SCC	03.02.21	31.01.22	30.03.23	63.15%				
8	DM Plant	BHEL/SCC	01.10.20	31.01.22	30.03.23	92.77%				
9	Compressed Air System	BHEL/HES	12.02.21	31.05.22	30.03.23	99.17%				
10	Fire Protection System	BHEL	-	31.07.22	30.05.23	5%				
11	Switch Yard	BHEL/Bluechip	13.02.21	31.07.22	30.05.23	85.39%				
12	Generator Transformers	BHEL/EIPL for Unit-1	14.12.19	30.10.22	31.12.22	98.5%	97%	98.5%	97%	90%
13	Station Transformers	BHEL/KEPL for Unit-2	17.10.20	31.12.22	31.12.22					
		BHEL/EIPL for Unit-3	26.10.19	31.01.23	31.01.23					
		BHEL/KEPL for Unit-4	22.10.19	31.03.23	31.03.23					
14	Unit Transformers	BHEL/KEPL for Unit-5	18.12.19	31.05.23	31.05.23					
15	Railway Siding	Work in progress		06.12.23	06.12.23	30%				
16	Power Evacuation Lines	TS TRANSCO/MEIL	06.08.20	24.02.22	06.02.23	85%				

## CRITICAL ISSUES

- 1) . Slow progress in BoP area – AHP, CHP, CT, Fire Protection area and Railway siding. (due to re-tendering of some packages )
- 2) FGD work is yet to start (BHEL scope).

## REASONS OF DELAY

- 1) Delay in agency finalization of Main plant civil works and Boiler erection works.
- 2) 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.
- 3) The impact of monsoons and unprecedented 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.
- 4) 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.



**YELAHANKA COMBINED CYCLE PP (YCCPP), Unit# 1 (1x370 MW) / KPCL (STATE SECTOR - SOUTHERN REGION)**

Yelahanka Combined Cycle Power Plant (YCCPP), Doddballapura Road, Bengaluru, Karnataka-560064

E-Gen Portal Registration No. (U#1 -1200002031 )

Project Developer / Implementing Agency - KPCL		Main Plant Vendor - BHEL (EPC Contract-03.11.2015)		
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual	Trial Run Date
Unit#1	Nov-2015	Feb-2018		Jun-2023
<b>CLEARANCES AND STATIC DATA</b>		<b>FINANCIAL DATA (Fig. in Rs. Crore)</b>		
FUEL TYPE	RLNG (Regasified Liquefied Natural Gas)		ORIGINAL ESTIMATED COST OF THE PROJECT	1571.18
COAL COMBUSTION TECHNOLOGY	NOT APPLICABLE		LATEST ESTIMATED COST	2055.23
APPROVAL DATE / NTP	Approval Date: Government Of Karnataka Order No. EN78PPC2010 Bengaluru dated:05.07.2011		DATE OF FINANCIAL CLOSURE	31.03.2021
EPC/BTG/BoP Contractor Details (Package Wise)	EPC Contractor: M/s BHEL LOA Date:03.11.2015		<b>YEAR WISE EXPENDITURE</b>	
PPA	Under Process		2015-16	4.87
COAL LINKAGE/FSA	NOT APPLICABLE		2016-17	152.89
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		2017-18	1050.00
POWER EVACUATION SYSTEM	Tx Line Developer	KPTCL	2018-19	140.93
	Tx Line Name Tx Voltage Level	3 nos. of 220 kV lines are ready (Dec-2018) for the power evacuation	2019-20	171.41
	Configuration of Tx Line (S/C or D/C)		2020-21	219.28
LAND POSSESSION	The land was acquired during 1994 to establish Diesel generation plant and DG plant has been operated from 1994 to Aug 2013. The DC plant was stopped from Aug 2013 due to High operating cost & environmental issues. The YCCPP is established in the same plant by dismantling required space as per the order of GoK.		2021-22	263.80
WATER ALLOCATION	15 MLD Tertiary treated plant at JAKKUR is supplying water to YCCP Plant		EXPENDITURE OF FEB '2023	4.83
MOEF CLEARANCE	Approval No : State Level environment impact assessment authority(SEIAA) no SEIAA20IND 2014 DATED 1/9/2015		TOTAL EXPENDITURE (upto 28.02.2022)	2372.26
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	Letter No: SEIAA 20 IND 2014 dated 01.09.2015			

**YELAHANKA COMBINED CYCLE PP (YCCPP), Unit# 1 (1x370 MW) / KPCL (STATE SECTOR - SOUTHERN REGION)**

UNIT WISE MILESTONES ( ANTICIPATED / ACTUAL)				
Sl.	MILESTONE	UNIT-01 (GT+ST)		
		Original Date of Completion	Anticipated / Actual Date of Completion	
1	COMPLETION OF BOILER FOUNDATION	30.06.2016	14.11.2016	
2	START OF BOILER ERECTION	01.07.2016	09.11.2016	
3	BOILER DRUM LIFTING (if sub-critical unit)	10.03.2017	07.04.2017	
4	BOILER CEILING GIRDER LIFTING COMPLETION	30.11.2016	21.12.2016	
5	CONDENSER ERECTION START	14.08.2017	Nov-17	
6	TG ERECTION START	-	-	
7	HP PIPING ERECTION START	-	Sep-17	
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	30.06.2017	27.11.2017	
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	30.06.2017	27.11.2017	
10	TG BOX UP	ST	30.09.2017	Feb, 2021
		GT	30.09.2017	Sept, 2021
11	HP PIPING ERECTION COMPLETION	-	Nov-21	
12	START OF OILFLUSHING	ST	30.09.2017	Dec, 2020
		GT	09.10.2017	29.08.2018
13	BOILER LIGHT UP	NA	NA	
14	CHEMICAL CLEANING COMPLETION	02.11.2017	Apr'23	
15	STEAM BLOWING START	01.12.2017	Apr.23	
16	STEAM BLOWING COMPLETION	15.12.2017	May-23	
17	ROLLING & SYNC.	16.12.2017	Jun'23	
18	FULL LOAD	17.12.2017	Jun' 23	
19	TRIAL RUN	07.02.2018	Jun'23	
20	COD	01.03.2018	Jul'23	

STATUS OF MAIN PLANT PACKAGE (BTG) : (BHEL-BTG VENDOR)			
Sl.	Packages	AREA	UNIT-01 (GT+ST)
			% Completion
1	BOILER	CIVIL	100%
		STRUCTURE	99%
		PRESSURE PARTS	99%
2	Gas T/ TG	CIVIL	100%
		STRUCTURE	99%
		TG ERECTION	99%
3	ESP	Not Applicable	Not Applicable
4	FGD	CIVIL WORK	Not Applicable
		MATERIAL SUPPLY	
		ERECTION WORK	

STATUS OF BOPS						
Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC- BHEL)	Date of Award	Scheduled Date of Completion	Anticipated/Actual Date of Completion	UNIT-01 % Completion
1	Chimney	M/s BHEL (Mech.) M/s BJCL (Civil)	Nov, 2015 18.08.2016	14.10.2017 -	06.04.2017 10.11.2016	100% 100%
2	Coal Handling Plant	NA	NA	NA	NA	NA
3	Ash Handling Plant	NA	NA	NA	NA	NA
4	Fuel Oil System	NA	NA	NA	NA	NA
5	Cooling Towers	M/s BHEL/ Paharpur (Mech.) M/s BHEL/ BJCL (Civil)	09.11.2015 05.01.2017	09.02.2018 -	31.12.2021 31.03.2021	100% 100%
6	CW Pump house	M/s BHEL (Mech.) M/s BHEL/BJCL (Civil)	09.11.2015 02.11.2016	09.05.2018 -	11.07.2020 30.11.2020	100% 100%
7	WPT Plant	NA	NA	NA	NA	NA
8	DM Plant	M/s BHEL/GE (Mech.) M/s BHEL/BJCL (Civil)	09.11.2015 06.02.2017	09.05.2018 -	06.02.2021 31.03.2017	100% 100%
9	Compressed Air System	M/s BHEL/ELGI (Mech.) M/s BHEL/BJCL (Civil)	Nov,2015 10.03.2018	17.08.2017 -	16.05.2019 31.10.2019	100% 100%
10	Fire Protection System	M/s BHEL (Mech.) M/s BHEL/BJCL (Civil)	09.11.2015 20.11.2020	09.05.2018 -	15.07.2021 30.04.2021	100% 100%
11	Switch Yard	M/s BHEL-TBG (Elect.) M/s BHEL (TBG) (Civil)	03.01.2015 17.04.2017	04.04.2018 -	19.01.2019 05.11.2018	100% 100%
12	Station Transformers	M/s BHEL/BJCL (Civil)	10.04.2017	-	31.03.2020	100%
13	Generator Transformers	M/s BHEL PSSR	03.11.2015	04.04.2018	21.01.19-GT 23.12.19-ST	100%
14	Unit Transformers	M/s BHEL PSSR (Elect.) M/s BHEL/BJCL (Civil)	03.01.2015 10.04.2017	04.04.2018 -	21.01.2019- ST 31.03.2020	100%
15	Railway Siding	NA	NA	NA	NA	NA
16	Power Evacuation Lines	KPTCL	21.12.2017	System ready	28.12.2018	95%

**CRITICAL ISSUES**

Project is ready. Commissioning is pending due to non-availability of Gas from M/s GAIL.

**REASONS OF DELAY**

Non-mobilization of required man power & prioritization of works by M/s BHEL (EPC contractor).

**ENNORE SEZ STPP, Unit# 1 & 2 (2X660 MW) / TANGEDCO (STATE SECTOR - SOUTHERN REGION)**

Village-Voyalur, Minjur, Distt-Thiruvallur (Tamil Nadu)-601203

E-Gen Portal Registration No. (U#No - 1200001984, U#2 No - 1200001985)

Project Developer / Implementing Agency - TANGEDCO		Main Plant Vendor - M/s BHEL (EPC)		
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual	Trial Run Date
Unit#1	Sep-2014	27.01.18		Jul-2024
Unit#2		27.03.18		Sep-2024
CLEARANCES AND STATIC DATA		FINANCIAL DATA (Fig. in Rs. Crore)		
FUEL TYPE	Coal, Indigenous & Imported		ORIGINAL ESTIMATED COST OF THE PROJECT	9800.00
COAL COMBUSTION TECHNOLOGY	Supercritical		LATEST ESTIMATED COST	9800.00
APPROVAL DATE / NTP	27.09.2014		DATE OF FINANCIAL CLOSURE	
EPC/BTG/BoP Contractor Details (Package Wise)	M/s BHEL (EPC), LoA: 27.09.2014		YEAR WISE EXPENDITURE	
PPA	State sector project. Hence entire 100% power from this project will be utilized by TAMILNADU		2016-17	558.04
COAL LINKAGE/FSA	Allocated Mine - Chandrabila Coal Block, Odisha; Distance from mine - 1300 km (non pithead); Total requirement is 5.95MTPA, comprising of indigenous 3.68 MTPA & imported 2.26 MTPA respectively. MoU has already been signed between MMTC & TANGEDCO on 25.06.2012 for the supply of Import coal for this project. Bridge Linkage with SCCL available for indigenous coal.		2017-18	2276.51
			2018-19	4688.11
			2019-20	1550.04
			2020-21	750.13
			2021-22	260.14
			EXPENDITURE OF FEB'2023	16.24
			TOTAL EXPENDITURE (upto 28.02.2023)	5982.12
START UP POWER AGREEMENT	By TANGEDCO		(Tripartite agreement between TANGEDCO, M/s BHEL (EPC contractor), PFC (Lender) signed on 21.11.2016 and Loan agreement between PFC and TANGEDCO signed on 18.01.2017.)	
POWER EVACUATION SYSTEM	Tx Line Developer	TANGEDCO		
	Tx Line Name	Ennore SEZ SCTPP - North Chennai		
	Tx Voltage Level	(765KV PS), 400 KV, D/C line		
	Configuration of Tx. Line (S/C or D/C)			
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 utilized for the development of the subject project)			
WATER ALLOCATION	Supply of 4 MGD water from CMWSSB obtained. However desalination plant is envisaged in the project.			
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 Ir. 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- 2X800 MW Project vide Lr.Ref:AAI/SR/NOC/dt 13.5.2010-validity 7years available. Validity extended upto 13.5.2022 vide their letter dt 19.5.2017.			
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			

## ENNORE SEZ STPP, Unit# 1 &amp; 2 (2X660 MW) / TANGEDCO (STATE SECTOR - SOUTHERN REGION)

UNIT WISE MILESTONES ( ANTICIPATED / ACTUAL)						STATUS OF MAIN PLANT PACKAGE (BTG) : M/S BHEL										
Sl.	MILESTONE	UNIT-01		UNIT-02		Sl.	Packages	AREA	UNIT-01	UNIT-02						
		Original Date	Actual / Anticipated Date	Original Date	Actual / Anticipated Date				% Completion	% Completion						
1	COMPLETION OF BOILER FOUNDATION	13.08.15	14.09.17	13.10.15	07.06.18	1	BOILER	CIVIL	100.00%	100.00%						
2	START OF BOILER ERECTION	25.08.15	15.09.17	28.10.15	08.06.18			STRUCTURE	93.22%	85.64%						
3	BOILER DRUM LIFTING (if sub-critical unit)	NA		NA				PRESSURE PARTS	93.22%	85.64%						
4	BOILER CEILING GIRDER LIFTING COMPLETION	28.01.16	30.11.18	28.03.16	16.05.19	2	TG	CIVIL	60.21%	71.90%						
5	CONDENSER ERECTION START	27.04.17	May-23	20.06.17	20.06.22			STRUCTURE	60.21%	71.90%						
6	TG ERECTION START	10.06.17	Jun-23	10.08.17	May-23	3	ESP	TG ERECTION	Yet to start	Yet to start						
7	HP PIPING ERECTION START	27.04.16	16.09.21	27.06.16	16.11.21			UNDER PROGRESS	77.00%	66.37%						
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	28.12.16	15.02.20	27.02.17	29.03.21	4	FGD	CIVIL WORK	Specification under finalization.							
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	28.04.17	08.11.23	28.06.17	08.01.24			MATERIAL SUPPLY								
10	TG BOX UP	27.09.17	15.03.24	27.11.17	15.05.24			ERECTION WORK								
11	HP PIPING ERECTION COMPLETION	27.05.17	25.01.24	27.07.16	25.03.24	STATUS OF BOPs (BHEL-EPC)										
12	START OF OILFLUSHING	27.10.17	20.03.24	27.12.17	20.05.24	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC-BHEL)	Date of Award	Scheduled Date of Completion	Anticipated/ Actual Date of Completion	UNIT-01 % Completion	UNIT-02 % Completion			
13	BOILER LIGHT UP	30.05.17	30.12.23	29.09.17	28.02.24	1	Chimney	M/s Simplex	30.01.17	28.03.17	10/23	100 % (Civil)	100 % (Civil)			
14	CHEMICAL CLEANING COMPLETION	10.06.17	15.01.24	10.08.17	15.03.24			Contractor for erection M/s Promac	09.02.17	27.10.17	Dec.23	100 % (Civil), 38.7% (Mech)				
15	STEAM BLOWING START	20.06.17	25.01.24	20.08.17	25.03.24	2	Coal Handling Plant	M/s.Beicon (Conveyor package supply), M/s.FLSDTH- Pipe	18.03.17	27.10.17	Dec.23	48.37 % (Civil)				
16	STEAM BLOWING COMPLETION	15.07.17	15.03.24	15.09.17	15.05.24			M/s.Promac : Stacker Reclaimer supply, M/s.Elecon : Vibrating	09.02.17	27.10.17	Dec.23	40 %				
17	ROLLING & SYNC.	27.11.17	15.04.24	27.01.18	15.06.24	3	Ash Handling Plant	M/s.Indure (for supply and erection for mechanical packages) , M/s.Turbo Engineers for Slurry disposal pipes supply M/s.Weir for Slurry pumps supply, M/s.Atlas Copco& M/s.Ingersoll for Compressor supply M/s.Suraj	14.09.17	27.10.17	Nov.23	48.13%				
18	FULL LOAD	27.10.17	15.05.24	27.12.17	15.09.24	4	Fuel Oil System	M/s.New Fire Engineers Pvt ltd.	13.06.17	30.03.17	Oct.,23	50.79%				
19	TRIAL RUN	27.11.17	15.07.24	27.01.18	15.09.24	5	Cooling Towers	M/s.Simplex (Design – Paharpur)	30.01.17	29.04.17	Nov.23 (U-1) Jan.24 (U-2)	31.12%	19.17%			
20	COD (TRIAL RUN)	27.01.18	30.07.24	27.03.18	30.09.24	6	CW Pump house	CW Pump House - M/s Cornerstone ( De-scoped from M/s.Simplex),CW Piping: BHEL / M/s.Vijay Gowtham- ( De-scoped	27.12.19	29.04.22	Dec.23	11.06%				
						7	WPT Plant	M/s.Okoklin Global business services for supply and erection	18.01.18	30.03.17	Nov.23	33.48%				
						8	DM Plant	M/s Cornerstone (De-scoped from M/s.Simplex)	27.09.14	30.03.17	Nov.23	41.17%				
						9	Compressed Air System	M/s.ELGI Equipments Ltd.	27.11.17	30.03.17	Sept.23	92.6%				
						10	Fire Protection System	BHEL- PE&SD	July,18	30.03.17	Nov.23	5%				
						11	Switch Yard	BHEL-TBG ( Awarded to Sakthi Kanna Construction Ltd & M/s.Vijay Gowtham- De-scoped from M/s.Simplex)	27.09.14	30.03.17	Sept.23	86.17%				
						12	Station Transformers	M/s Cornerstone	19.11.19	30.03.17	Sept.23	44.6%				
						13	Unit Transformers	M/s Cornerstone	19.11.19	30.08.17	Sept.23					
						14	Railway Siding	NA	NA	NA	NA	NA	NA			
						15	Power Evacuation Lines	TANGEDCO Ennore SEZ SCTPP- North Chennai(765 KV PS), 400 KV, D/C line			Mar.,2023	Power will be evacuated through DC 400 KV TL, i.e. 2 nos 400 KV lines to 160 KV pooling station and 2 nos 400 KV lines to ETPS – work under progress.				

## CRITICAL ISSUES

- Slow progress in CWP , Fire Protection, CHP,AHP (non performance by contractor, hence re-tendering of some package )
- Delay in readiness of Chimney due to delay in supply of borosilicate lining materials.
- Inadequate manpower of BHEL at site
- External Conveyor package work held up due to NGT issues
- FGD work is yet to be awarded.

## REASONS OF DELAY

- Zero date is 27.09.2014, Works commenced at Site on 09.10.2016. Project works temporarily suspended from 07.09.2015 to 18.10. 2016 due to litigation. Original completion schedule is March 2018. 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.
- 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.
- Project activities became slow since 24th March 2020 due to lock down enforced by GOI in view of COVID-19 outbreak. Permission accorded by Distt Collector (Thiruvallur) for resumption of work at site with only 600 manpower on 25.04.2020.Work resumed by BHEL from 18.05.2020.

**UPPUR STPP, Unit# 1 & 2 (2x800 MW) / TANGEDCO (STATE SECTOR - SOUTHERN REGION)**Uppur STPP, Ramnad District - 623503, Tamil Nadu  
E-Gen Portal Registration No. (U#1 - NA; U#2 - NA)

Project Developer / Implementing Agency - TANGEDCO		Main Plant Vendor - M/S BHEL		
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual	Trial Run Date
Unit#1	Feb-2016		On Hold	
Unit#2			On Hold	
CLEARANCES AND STATIC DATA		FINANCIAL DATA (Fig. in Rs. Crore)		
FUEL TYPE	Coal, Indigenous & Imported (MMTC)		ORIGINAL ESTIMATED COST OF THE PROJECT	12778.00
COAL COMBUSTION TECHNOLOGY	Supercritical		LATEST ESTIMATED COST	Not Applicable
APPROVAL DATE / NTP	BGT-SE/E/T & H(P)/OT No. 01/ 2015-16. BOP-SE/E/T&H(P)/OT.No.1/2020-21. SWIOP-SE/C/TP/OT.NO.2/2016-17.		DATE OF FINANCIAL CLOSURE	Financial tie up with M/s. PFC
EPC/BTG/BoP Contractor Details (Package Wise)	Order placed on M/s. BHEL on 27/02/2016.		YEAR WISE EXPENDITURE	
PPA	NOT APPLICABLE. State sector project.		2016-17	16.74
COAL LINKAGE/FSA	Allocated Mine - SCCL (A.P.) to provide coal 3.942 MTPA; Distance from mine - 700 km (non pithead); Also, MoU entered with M/s. MMTC for supply of imported coal of 5.02 MTPA on dated 25-05-2015.		2017-18	226.62
			2018-19	1594.15
START UP POWER AGREEMENT	230KV/11 Karaigudi Feeder		2019-20	924.32
			2020-21	366.61
POWER EVACUATION SYSTEM	Tx Line Developer	TANTransco	2021-22	
	Tx Line Name Tx Voltage Level	Uppur SCTPP – Virudhunagar, 765 KV, D/C line	EXPENDITURE OF FEB,2023	0.00
	Configuration of Tx Line (S/C or D/C)		TOTAL EXPENDITURE (upto 28.02.2023)	2554.00
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.			
WATER ALLOCATION	Tamil Nadu Maritime Board has issued NOC for construction of Jetty for drawal and discharge of cooling water, vide 27.4.2015.			
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			

\* NOTE : The EPC contracts awarded to M/s. BHEL & M/S L&T have 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 on 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. Further, as informed by TANGEDCO, CMD has accorded approval on 27.08.2021 to form a high committee comprising of three directors and four Chief Engineers to re-study the shifting of UPPUR Project. High Level Committee have furnished report on 22.10.2021 and recommended that the 2X800 MW Uppur Project shall be executed at Uppur itself. TANGEDCO Board in its 102nd meeting held on 29.10.2021 has directed to obtain opinion from the Consultant M/s. Ernst & Young regarding the viability and feasibility of this project and the same is in progress.

**UPPUR STPP, Unit# 1 & 2 (2x800 MW) / TANGEDCO (STATE SECTOR - SOUTHERN REGION)**

UNIT WISE MILESTONES ( ANTICIPATED / ACTUAL)					
Sl.	MILESTONE	UNIT-01		UNIT-02	
		Original Date	Actual / Anticipated Date	Original Date	Actual / Anticipated Date
1	COMPLETION OF BOILER FOUNDATION				
2	START OF BOILER ERECTION	03.06.18		03.06.18	
3	BOILER DRUM LIFTING (if sub-critical unit)	NA		NA	
4	BOILER CEILING GIRDER LIFTING COMPLETION				
5	CONDENSER ERECTION START	23.01.20		23.01.20	
6	TG ERECTION START	19.03.20		19.03.20	
7	HP PIPING ERECTION START	19.12.19		19.12.19	
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	22.07.19		22.07.19	
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	20.01.20	Revised schedule of activity is not available. Project is expected to commissioned by 2024-25.	20.01.20	Revised schedule of activity is not available. Project is expected to commissioned by 2024-25.
10	TG BOX UP	13.02.20		13.02.20	
11	HP PIPING ERECTION COMPLETION	19.12.19		19.12.19	
12	START OF OILFLUSHING	19.03.20		19.03.20	
13	BOILER LIGHT UP	12.02.20		12.02.20	
14	CHEMICAL CLEANING COMPLETION	19.03.20		19.03.20	
15	STEAM BLOWING START	16.04.20		16.04.20	
16	STEAM BLOWING COMPLETION	16.04.20		16.04.20	
17	ROLLING & SYNC.	06.05.20		06.05.20	
18	FULL LOAD	03.06.20		03.06.20	
19	TRIAL RUN	Nov-20	Nov-20		
20	COD	01.02.21	01.02.21		

STATUS OF MAIN PLANT PACKAGE (BTG)				
Sl.	Packages	AREA	UNIT-01	UNIT-02
			% Completion	% Completion
1	BOILER	CIVIL	23%	30%
		STRUCTURE	55%	31%
		PRESSURE PARTS	1%	0%
2	TG	CIVIL	Works yet to commence	
		STRUCTURE		
		TG ERECTION		
3	ESP	UNDER PROGRESS	14%	6%
4	FGD	CIVIL WORK	Contract is yet to be awarded	
		MATERIAL SUPPLY		
		ERECTION WORK		

STATUS OF BOPs							
Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency	Date of Award	Scheduled Date of Completion	Anticipated /Actual Date of Completion	UNIT-01	UNIT-02
						% Completion	% Completion
1	Chimney	The contract was short closed due to huge price escalation sought by M/s RIL.				The contract was short closed due to huge price escalation sought by M/s RIL.	The contract was short closed due to huge price escalation sought by M/s RIL.
2	Coal Handling Plant						
3	Ash Handling Plant						
4	Fuel Oil System						
5	Cooling Towers						
6	CW Pump house						
7	WPT Plant						
8	DM Plant						
9	Compressed Air System						
10	Fire Protection System						
11	Switch Yard						
12	Station Transformers						
13	Unit Transformers						
14	Railway Siding						
15	Power Evacuation Lines						

**CRITICAL ISSUES**

The EPC contracts awarded to M/s. BHEL & M/S L&T have 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 on 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. Against NGT order, SLP was filed by TANGEDCO in Supreme court on 16.04.2021. Honourable Supreme court of India granted stay on the impugned judgment passed by NGT on 01.07.2021. In the review meeting of energy department chaired by Hon'ble Chief Minister on 22.07.2021, it was requested to restudy the shifting of Uppur project considering the energy demand. CMD has accorded approval on 27.08.2021 to form a high level committee comprising of three Directors and four Chief Engineers to restudy the shifting of Uppur Project. TANGEDCO Board in its 102nd meeting held on 29.10.2021 has directed to obtain opinion from the Consultant M/s Ernst & Young regarding the viability and feasibility of this project and the same is in progress. Consultant has furnished the report on 07.01.22 and recommended "To develop the Project at Uppur site itself" and the same was placed before the TANGEDCO Board in its 105th meeting held on 19.01.2022. The Board Directed to place the subject in the next Board meeting for deliberations. In the next Board meeting held on 19.3.2022, the Board directed to restudy the viability & feasibility of consultant's report submitted.

**REASONS OF DELAY**

NGT Ordered to stop the work.



**NORTH CHENNAI STPP St - III, Unit# 1 (1X800MW) / TANGEDCO (STATE SECTOR - SOUTHERN REGION)**

Athipattu village, Ponneri Tk, Distt.-Thiruvallur, Chennai - 600 120.

E-Gen Portal Registration No. (U#1 - 1200002174 )

Project Developer / Implementing Agency - TANGEDCO		Main Plant Vendor - M/s BHEL (BTG)		
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual	Trial Run Date
Unit#1	Jan-2016	Apr-2019		Sep-2023
<b>CLEARANCES AND STATIC DATA</b>		<b>FINANCIAL DATA (Fig. in Rs. Crore)</b>		
FUEL TYPE	Coal, Indigenous & Imported(MMTC)		ORIGINAL ESTIMATED COST OF THE PROJECT	6376.00
COAL COMBUSTION TECHNOLOGY	Super critical		LATEST ESTIMATED COST	8722.86
APPROVAL DATE / 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	28.1.2017
EPC/BTG/BoP Contractor Details (Package Wise)	BTG contractor-BHEL(LoA: 29.01.2016), BOP contractor-M/s BGR(LoA: 28.10.2016)		<b>YEAR WISE EXPENDITURE</b>	
PPA	NOT APPLICABLE. State sector project.		2012-13	0.21
COAL LINKAGE/FSA	Allocated Mine - SCCL; Distance from mine - 606 km (non pithead); Ministry of Coal recommended for longterm coal linkage for 1.971 MTPA Indigenous coal to SCCL. FSA Executed between TANGEDCO and SCCL for indigenous coal. MoU has been entered with M/s. MMTC for supply of Imported coal of 1.450 MTPA on 25.05.2015.		2013-14	0.40
START UP POWER AGREEMENT	Start up Power Arrangement is through 220 KV level by LILO of NCTPS-1 to Ennore Feeder. Station Transformer was charged on 05.09.2020.		2014-15	0.13
POWER EVACUATION SYSTEM	Tx Line Developer	TANTRANSCO	2015-16	0.25
	Tx Line Name Tx Voltage Level	NCTPS St-III -North Chennai (PS), 765 KV, D/C line	2016-17	198.08
	Configuration of Tx Line (S/C or D/C)		2017-18	929.75
LAND POSSESSION	The proposed site is within the existing NCTPS complex and land is already under possession of TANGEDCO.		2018-19	2243.52
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.		2019-20	2090.62
MOEF CLEARANCE	Environmental clearance issued by MoEF on 20.01.2016 valid for a period of seven years.		2020-21	928.95
CIVIL AVIATION CLEARANCE	Chimney constructed for full height and the same was informed to Airports Authority of India.		2021-22	760.29
CPCB CLEARANCE	NOT APPLICABLE. State sector project.		EXPENDITURE OF FEB '2023	13.02
SPCB CLEARANCE	Approval has been obtained on 13.04.2017.		TOTAL EXPENDITURE (upto 28.02.2023)	7700.67
FOREST CLEARANCE	Not applicable, since the site is not coming under Forest area.		(In-principal 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.)	



**NORTH CHENNAI STPP, St - III, Unit# 1 (1X800MW) / TANGEDCO (STATE SECTOR - SOUTHERN REGION)**

UNIT WISE MILESTONES ( ANTICIPATED / ACTUAL)			
Sl.	MILESTONE	UNIT-01	
		Original Date of Completion	Anticipated / Actual Date of Completion
1	COMPLETION OF BOILER FOUNDATION	31.10.2016	14.06.18
2	START OF BOILER ERECTION	29.11.16	30.08.17
3	BOILER DRUM LIFTING (if sub-critical unit)	NA	NA
4	BOILER CEILING GIRDER LIFTING COMPLETION	11.05.17	31.07.18
5	CONDENSER ERECTION START	29.08.17	02.01.19
6	TG ERECTION START	28.10.17	25.02.19
7	HP PIPING ERECTION START	24.10.17	25.03.18
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	28.02.18	31.12.19
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	26.09.18	07.12.22
10	TG BOX UP	07.11.18	May,23
11	HP PIPING ERECTION COMPLETION	13.04.19	30.11.22
14	START OF OILFLUSHING	29.11.18	03.11.20
12	BOILER LIGHT UP	29.10.18	Mar,23
13	CHEMICAL CLEANING COMPLETION	27.02.19	Mar,23
15	STEAM BLOWING START	31.12.18	May,23
16	STEAM BLOWING COMPLETION	29.01.19	July,23
17	ROLLING & SYNC.	28.02.19	Jul,23
18	FULL LOAD	28.03.19	Aug,23
19	TRIAL RUN	28.04.19	Sep-23
20	COD	28.07.19	Sep-23

STATUS OF MAIN PLANT PACKAGE (BTG)			
Sl.	Packages	AREA	UNIT-01
			% Completion
1	BOILER	CIVIL	100.00%
		STRUCTURE	98.74%
		PRESSURE PARTS	99.98%
2	TG	CIVIL	100.00%
		STRUCTURE	99.00%
		TG ERECTION	99.65%
3	ESP	UNDER PROGRESS	100.00%
4	FGD	CIVIL WORK	WORK AWARDED on 22.2.2021. DESIGN AND ENGINEERING WORKS UNDER PROGRESS.
		MATERIAL SUPPLY	
		ERECTION WORK	

STATUS OF BOPs - BGRESL/Chennai						
Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency	Date of Award	Scheduled Date of Completion	Anticipated /Actual Date of Completion	UNIT-01
						% Completion
1	Chimney	M/s. BGR ESL	10.03.17	25.06.19	15.01.2023	97%
2	Coal Handling Plant		21.07.17	25.07.19	30.09.2023	79.5%
3	Ash Handling Plant		25.11.17	28.07.19	30.08.2023	72%
4	Fuel Oil System		27.07.17	28.06.19	15.03.2023	99%
5	Cooling Towers		16.05.17	21.09.19	31.05.2023	92.5%
6	CW Pump house		09.01.18	28.05.19	18.03.2023	97%
7	WPT Plant		16.06.17	17.05.19	15.03.2023	93%
8	DM Plant		06.10.17	28.05.19	15.03.2023	92.5%
9	Compressed Air System		10.12.17	28.08.19	31.01.2022	100%
10	Fire Protection System		01.07.17	14.05.19	15.03.2023	90%
11	Switch Yard		19.08.17	26.10.19	15.03.2023	95.5%
12	Station Transformers	BHEL	24.07.18	28.04.19	05.09.2020	100%
13	Unit Transformers	BHEL	06.03.18	27.02.19	15.03.2023	99%
14	Railway Siding	NA	NA	NA	NA	NA
15	Power Evacuation Lines	TANTRANSOCO, NCTPS St-III -North Chennai (PS), 765 KV, D/C line	12.01.18	11.11.19	March, 2023	93%

**CRITICAL ISSUES**

-Slow progress in AHP/CHP,  
 - CW Pumps- problem in thrust bearing temperature rise in 2 nos. of CW pumps out of total 3 pumps. CW pumps rectification will take around 2 months time.  
 -Delay in readiness of Chimney due to delay in supply of borosilicate lining materials.  
 -FGD work is yet to be started (BHEL Scope).

**REASONS OF DELAY**

Due to COVID Lock down in 2020 & 2021 and non-availability of Industrial Oxygen in 2020 & 21, Delay in CW pipe line readiness.

**UDANGUDI STPP - St-I, Unit# 1 & 2 (2x660MW) / TANGEDCO (STATE SECTOR - SOUTHERN REGION)**

Distt. Thoothukudi, Tamil Nadu [TANGEDCO]

E-Gen Portal Registration No. (. Unit-1: 1200002175, Unit -2: 1200002176 )

Project Developer / Implementing Agency - TANGEDCO		Main Plant Vendor - M/s BHEL (EPC)		
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual	Trial Run Date
Unit#1	Dec-2017	Jan-2021		Mar-2024
Unit#2		Mar-2021		Jun - 2024
CLEARANCES AND STATIC DATA		FINANCIAL DATA (Fig. in Rs. Crore)		
FUEL TYPE	Coal, Indigenous & Imported (Indonesia)		ORIGINAL ESTIMATED COST OF THE PROJECT	13076.71
COAL COMBUSTION TECHNOLOGY	Supercritical		LATEST ESTIMATED COST	13076.71
APPROVAL DATE / NTP	BGT-SE/E/T & H(P)/OT No. 01/ 2015-16. BOP-SE/E/T&H(P)/OT.No.1/2020-21. SWIOP-SE/C/TP/OT.NO.2/2016-17.		DATE OF FINANCIAL CLOSURE	Financial tie up with M/s. PFC
EPC/BTG/BoP Contractor Details (Package Wise)	Awarded to BHEL as EPC contractor on 07.12.2017		YEAR WISE EXPENDITURE	
PPA	NOT APPLICABLE. State sector project.		2017-18	118.93
COAL LINKAGE/FSA	Allocated Mine - Chandrabila Coal Block for indigenous coal of G13 Grade for 3.647 MTPA and MDO selection is under process. Distance from mine (appx) : Railway distance for movement of coal through Rail-cum-Sea route via Paradip port is 200 km.(Chandrabila to Paradip port), from Paradip port to Udangudi captive Port, sea distance is 1224 Nautical Miles. Total requirement is 5.893 MTPA with Indigenous coal of 3.647 MTPA and import coal of 2.246 MTPA. Import coal (2.246 MTPA) will be procured to the requirements. Bridge Linkage with SCCL available for indigenous coal		2018-19	336.43
START UP POWER AGREEMENT	230KV/11 Karaigudi Feeder		2019-20	654.76
POWER EVACUATION SYSTEM	Tx Line Developer		2020-21	1778.54
	Tx Line Name Tx Voltage Level	Udangudi STPP – Ottapidaram, 400 KV, D/C line (BHEL/L&T)	2021-22	1711.00
	Configuration of Tx Line (S/C or D/C)		EXPENDITURE OF FEB'2023	196.87
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.		TOTAL EXPENDITURE (upto 28.02.2023)	7494.635
WATER ALLOCATION	Tamil Nadu Maritime Board has issued NOC for construction of Jetty for drawal and discharge of cooling water, vide 27.4.2015.			
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 up to 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 8.2.2016.			
FOREST CLEARANCE	NOT APPLICABLE			

**UDANGUDI STPP - St-I, Unit# 1 & 2 (2x660MW) / TANGEDCO (STATE SECTOR - SOUTHERN REGION)**

UNIT WISE MILESTONES ( ANTICIPATED / ACTUAL)					
Sl.	MILESTONE	UNIT-01		UNIT-02	
		Original Date	Actual / Anticipated Date	Original Date	Actual / Anticipated Date
1	COMPLETION OF BOILER FOUNDATION	12.09.18	10.04.21	12.11.18	21.04.21
2	START OF BOILER ERECTION	27.09.18	20.09.19	27.11.18	16.09.19
3	BOILER DRUM LIFTING (if sub-critical unit)	-	-	-	-
4	BOILER CEILING GIRDER LIFTING COMPLETION	09.02.19	26.06.21	09.04.19	18.06.21
5	CONDENSER ERECTION START	15.08.19	28.12.22	15.10.19	15.03.23
6	TG ERECTION START	12.09.19	01.02.23	12.11.19	01.04.23
7	HP PIPING ERECTION START	30.10.19	21.06.23	30.10.19	21.08.23
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	27.02.20	15.12.22	27.04.2020	20.12.22
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	02.07.20	28.03.2023	02.09.20	05.03.2023
10	TG BOX UP	30.07.20	10.11.23	30.09.20	25.12.23
11	HP PIPING ERECTION COMPLETION	06.08.20	24.09.23	06.10.20	10.11.23
12	START OF OILFLUSHING	30.07.20	11.10.23	30.09.20	30.11.23
13	BOILER LIGHT UP	09.07.20	27.06.23	09.09.20	04.05.23
14	CHEMICAL CLEANING COMPLETION	30.07.20	26.07.23	30.09.20	10.09.23
15	STEAM BLOWING START	13.08.20	12.11.23	13.11.20	30.12.2023
16	STEAM BLOWING COMPLETION	03.09.20	28.12.23	03.11.20	10.02.24
17	ROLLING & SYNC.	12.11.20	28.01.24	12.01.21	10.03.24
18	FULL LOAD	31.12.20	15.02.24	28.02.21	05.04.24
19	TRIAL RUN	07.01.21	Mar-24	07.03.21	Jun-24
20	COD	25.02.21	Mar.,24	25.04.21	Jun-24

STATUS OF MAIN PLANT PACKAGE (BTG) : M/S BHEL				
Sl.	Packages	AREA	UNIT-01	UNIT-02
			% Completion	% Completion
1	BOILER	CIVIL	80.13%	82.13%
		STRUCTURE	76.45%	79.51%
		PRESSURE PARTS	92.71%	94.84%
2	TG	CIVIL	96.08%	62.62%
		STRUCTURE	76.77%	63.17%
		TG ERECTION	46.58%	50.03%
3	ESP	UNDER PROGRESS	99.13%	99.93%
4	FGD	CIVIL WORK	Work yet to be awarded	
		MATERIAL SUPPLY		
		ERECTION WORK		

STATUS OF BOPs (BHEL-EPC)								
Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC-BHEL)	Date of Award	Scheduled Date of Completion	Anticipated /Actual Date of Completion	UNIT-01		UNIT-02
						% Completion	% Completion	% Completion
1	Chimney	M/s.BHEL/ M/s Bygging- Civil Structural Erection	08.10.18	26.10.19 03.12.20	15.03.23 19.06.23	99.46% 60.67%		
2	Coal Handling Plant	M/s. BHEL/ M/s Kanwar/ M/s Priya- Civil	01.03.22	25.06.20	11.09.23	48.67%		
		M/s. BHEL/ M/s.RPP/URC Structural Erection	15.07.19	25.06.20	02.10.23	15.10%		
		M/s. BHEL/IGG	09.05.19	-	13.04.24	-		
3	Ash Handling Plant	M/s.BHEL/ RPP/Srinic- Civil	11.05.20	25.06.20	18.07.23	42.72%		
		M/s.BHEL/ M/s.RPP/URC- Structural Erection	15.07.19 15.03.19	25.06.20 30.11.20	24.06.23 24.07.23 23.03.24	-		
		M/s. BHEL Mechanical Equipment				-		
4	Fuel Oil System	M/s.BHEL/ M/s.RPP Civil	25.07.19	22.01.20	10.04.23	98.33%		
5	Cooling Towers	M/s.BHEL/ M/s.Gammon	16.12.2019	22.10.20	22.12.23 22.02.24	19.91%	12.59%	
6	CW Pump house	M/s.BHEL/ M/s.B&B; M/s.BHEL/ M/s.Akash Techno	04.06.19	17.01.20	05.05.23 02.10.23	50.14%		
7	WPT Plant	M/s.BHEL/ M/s.B&B	04.06.19	07.02.20	24.07.23	65.44%		
8	DM Plant	M/s.BHEL/ M/s.RPP	25.07.19	12.10.19	15.05.23	33.68%		
9	Compressed Air System	M/s.BHEL/ M/s.Power Mech	07.01.22	01.11.20	20.05.23	98.40%		
10	Fire Protection System	M/s. BHEL	-	22.10.20	13.03.24	-		
11	Switch Yard	M/s. BHEL/ M/s. RB Electrical	25.06.21	23.05.19	30.03.23	96.70%		
12	Station Transformers							
13	Generator Transformers	M/s.BHEL/ M/s.Power Mech	30.12.21	15.06.20	10.04.23	68.83%		
14	Unit Transformers							
15	Railway Siding	NA	NA	NA	NA	NA		
16	Power Evacuation Lines	Udangudi STPP – Otrapidaram, 400 KV, D/C line (BHEL/L&T)	27.01.20	11.10.20	31.01.23	93.00%		

**CRITICAL ISSUES**

<ul style="list-style-type: none"> <li>- Poor progress in AHP, CHP, DM plant, NDCT area</li> <li>- FGD work is yet to be awarded. Fire protection work is yet to start.</li> <li>- Fisherman issue at coal jetty.</li> </ul>
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**REASONS OF DELAY**

COVID 19, Labor shortage / Vendor Mobilization delay by Contractor, Fishermen issue at Coal Jetty
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**SAGARDIGHI TPP, St-III, Unit# 1 (1X660 MW) / WBPDC (STATE SECTOR - EASTERN REGION)**

PS-Sagardighi, PO-Manigram, Pin-742237, Block-Sagardighi, Subdivision-Jangipur, District-Murshidabad, West Bengal  
E-Gen Portal Registration No. (U#1 - 1200002116)

Project Developer / Implementing Agency - WBPDC		Main Plant Vendor - M/S BHEL (EPC Contract-27.12.2018)	
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual Trial Run Date
Unit#1	Dec-2018	Jan-2024	Sep-2024
CLEARANCES AND STATIC DATA		FINANCIAL DATA (Fig. in Rs. Crore)	
FUEL TYPE	Coal, Indigenous	ORIGINAL ESTIMATED COST OF THE PROJECT	3862.65*
COAL COMBUSTION TECHNOLOGY	Super Critical	LATEST ESTIMATED COST	4567.32#
APPROVAL DATE / NTP	Notice to Proceed Date : 01.07.2020; The proposal was approved in the State Cabinet held on 23.03.2018.	DATE OF FINANCIAL CLOSURE	02.01.2017
EPC/BTG/BoP Contractor Details (Package Wise)	EPC contract awarded to BHEL (LOA : 27.12.2018)	<b>YEAR WISE EXPENDITURE</b>	
PPA	Power Purchase Agreement executed with WBSEDCL	2018-19	70.00
COAL LINKAGE/FSA	Allocated Mine - Pachhwara (North) Captive Coal Mine of WBPDC. Distance from mine - 150 km (non pithead); Coal will be sourced mainly from captive coal mines of WBPDC	2019-20	56.25
START UP POWER AGREEMENT	Start up power shall be obtained from the other running units of the Sagardighi Thermal Power Project	2020-21	362.47
POWER EVACUATION SYSTEM	Tx Line Developer	2021-22	330.97
	Tx Line Name Tx Voltage Level	EXPENDITURE OF FEB'2023	81.59
	Configuration of Tx Line (S/C or D/C)	TOTAL EXPENDITURE (upto 28.02.2023)	1233.66
LAND POSSESSION	Adequate land is available for the project. (WBPDC have 365 Ha of land under possession for Phases I, II & III of the plant and another 184 Ha for ash disposal.)	* Approved in the State Cabinet held on 23.03.2018 # Awaiting Approval	
WATER ALLOCATION	Source:River Bhagirathi/Hooghly Quantity:74.36 cusec of water in total for the entire Project. Permission vide F. No. TE-15015/1/2019/NMCG, Dated: 01.07.2019 accorded by National		
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		
CIVIL AVIATION CLEARANCE	NOC for height Clearance vide NOC ID: MALD/EAST/B/100316/175516, Dated: 19.10.2016 obtained from		
CPCB CLEARANCE	Not Applicable		
SPCB CLEARANCE	Online application for Grant of Consent to Establish / NoC has been made to WBPCB on 27.03.2021		
FOREST CLEARANCE	Not Applicable		

**SAGARDIGHI TPP, St-III, Unit# 1 (1X660 MW) / WBPDC (STATE SECTOR - EASTERN REGION)**

UNIT WISE MILESTONES ( ANTICIPATED / ACTUAL)				STATUS OF MAIN PLANT PACKAGE (BTG) : M/S BHEL							
Sl.	MILESTONE	UNIT-01		Sl.	Packages	AREA	UNIT-01				
		Original Date of Completion	Anticipated / Actual Date of Completion				% Completion				
1	COMPLETION OF BOILER FOUNDATION	19.04.2021	16.10.2021	1	BOILER	CIVIL	100%				
2	START OF BOILER ERECTION	29.04.2021	27.03.2021			STRUCTURE	33%				
3	BOILER DRUM LIFTING (if sub-critical unit)	NA	NA			PRESSURE PARTS	22.53%				
4	BOILER CEILING GIRDER LIFTING COMPLETION	30.12.2021	22.06.2022	2	TG	CIVIL	100%				
5	CONDENSER ERECTION START	03.03.2022	03.08.2022			STRUCTURE	-				
6	TG ERECTION START	02.05.2022	28.08.2022	3	ESP	CIVIL WORKS	100%				
7	HP PIPING ERECTION START	25.11.2022	Apr'23			STRUCTURAL WORKS	74.67%				
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	30.12.2022	Sept'23	4	FGD	NOT STARTED YET					
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	29.05.2023	Feb'23	<b>STATUS OF BOPs</b>							
10	TG BOX UP	01.06.2023	Jan'24	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC-BHEL)	Date of Award	Scheduled Date of Completion	Anticipated/Actual Date of Completion	UNIT-01 % Completion	
11	HP PIPING ERECTION COMPLETION	26.08.2023	Mar'24	1	Chimney	M/s. BHEL	17.08.2021 (ZERO)	17.05.2023		20.5%	
12	START OF OILFLUSHING	28.03.2023	Oct'23	2	Coal Handling Plant	Conveyor package: Bengal Tools Limited	27.12.2018 (ZERO)	15.12.2023		19.05%	
13	BOILER LIGHT UP	13.06.2023	Feb'24			Twin Wagon Tippler : ThyssenKrupp	DATE AS PER	13.12.2023			
14	CHEMICAL CLEANING COMPLETION	28.06.2023	Mar.24			Existing Stacker Reclaimer of Stage-II will be used					
15	STEAM BLOWING START	13.07.2023	Apr'24	3	Ash Handling Plant	M/s. MacawberBeekey Pvt. Ltd.	27.12.2018 (ZERO)	28.03.2024		29%	
16	STEAM BLOWING COMPLETION	12.08.2023	May'24	4	Fuel Oil System	M/s. BHEL	DATE AS PER	27.08.2023		0%	
17	ROLLING & SYNC.	01.09.2023	Jun'24	5	Cooling Towers	M/s. Baharpur Cooling Towers Limited	PER CONTRACT	16.06.2023		86.73%	
18	FULL LOAD	01.11.2023	Jun.'24	6	CW Pump house	M/s. BHEL	01.07.2020)	09.12.2023		26.5%	
19	TRIAL RUN	01.01.2024	Sept.,-2024	8	WPT Plant	Will be used from Existing				Existing from Stage – II Project will be used.	
20	COD	Jan-24	Oct.,2024	9	DM Plant						
				11	Compressed Air System	M/s. BHEL		25.08.2023		7.5%	
				12	Fire Protection System	M/s. BHEL	27.12.2018 (ZERO)	24.03.2024		0%	
				15	Switch Yard	M/s. BHEL	DATE AS PER	22.03.2024		35%	
				16	Station Transformers	M/s. BHEL	CONTRACT	30.03.2023		25%	
				18	Unit Transformers	M/s. BHEL	01.07.2020)	27.08.2023			
				19	Railway Siding	Railway siding exists. M/s. Rites will do the modification job for connecting Twin Wagon Tippler for Stage 3.					
				20	Power Evacuation Lines	Power Evacuation from the proposed unit shall be done through the existing electrical network consisting of following feeders i) STPP – New Sagardighi, 220 KV, D/c line, ii) STPP- Farakka, 400 KV D/c line, iii) STPP-Purulia 400 KV D/c line, iv) STPP-Subhashgram 400KV D/c line, v) STPP-Jeerat 400KV D/c line, vi) STPP- Baharpore 400 KV, D/C line, vii) STPP- Gokarna 400 KV D/C line.					

**CRITICAL ISSUES**

Delay in sequential supply of critical items mainly Boiler, Pressure Parts (Water Wall panels & Back pass Panel); Delay in supply of critical piping (MS, CRH, HRH, BFP outlet common header to Eco inlet); Delay in ordering of Bol-CPU, control valve, control cable; Slow progress in FOPH, Air compressor, Fire protection. FGD work is yet to start.

**REASONS OF DELAY**

Effect of COVID -19 during Project Tenure:, Scarcity of Industrial Oxygen affected fabrication work. Quarantine of workers & officials.  
2. Restrictions affected mobilization. Delay in sequential supply of Critical Items, mainly Boiler Pressure Parts from BHEL-Trichy works.

## ABBREVIATIONS

Abbreviation	Description		
AHP	Ash Handling Plant	NDCT	Natural Draft Cooling Tower
ATT	Air Tightness Test	NLTH	Non Linear Time History
BFP	Boiler Feed Pump	PAF	Project Affected Families
BLU	Boiler Light Up	PA Fan	Primary Air Fan
BOP	Balance of Plant	PPA	Power Purchase Agreement
BTG	Boiler Turbine Generator	ROW	Right Of Way
C&I	Control & Instrumentation	SBO	Steam Blowing Operation
CHP	Coal Handling Plant	SCAPH	Steam Coil Air Pre Heater
COD	Commercial Operation Date	SCR	Selective Catalytic Reduction
CRH	Cold Re Heat	SG	Steam Generator
CST	Condensate Storage Tank	ST	Station Transformer
CW System	Cooling Water System	Synch.	Synchronization
DM Plant	De Mineralization Plant	TDBFP	Turbine Driven Boiler Feed Pump
EOT	Electric Overhead Travelling	TG	Turbine Generator
EPC	Erection Procurement & Commissioning	WT	Wagon Tippler
ESP	Electro Static Precipitator	WTP	Water Treatment Plant
FD Fan	Forced Draft Fan	UT	Unit Transformer
FGD	Flue Gas Desulfurization	GHP	Gypsum Handling Plant
FL	Full Load	LHP	Limestone Handling Plant
FO System	Fuel Oil System	ARV	Air Release Valve
FSA	Fuel Supply Agreement	WPT	Water Pre Treatment
GT	Generator Transformer	ETP	Effluent Treatment Plant
HCSD	High Concentrated Slurry Disposal	CPU/COLTCS	Condensate Polishing Unit/Condenser On Load Tube Cleaning System
HPT	High Pressure Turbine		
HRH	Hot Re Heat		
HT	Hydraulic Test		
ICB	Imported Coal Based		
ID Fan	Induced Draft Fan		
IDCT	Induced Draft Cooling Tower		
LOA	Letter of Award		
MDBFP	Motor Driven Boiler Feed Pump		
MGR	Merry Go Round		
MOEF&CC	Ministry of Environment, Forests & Climate Change		