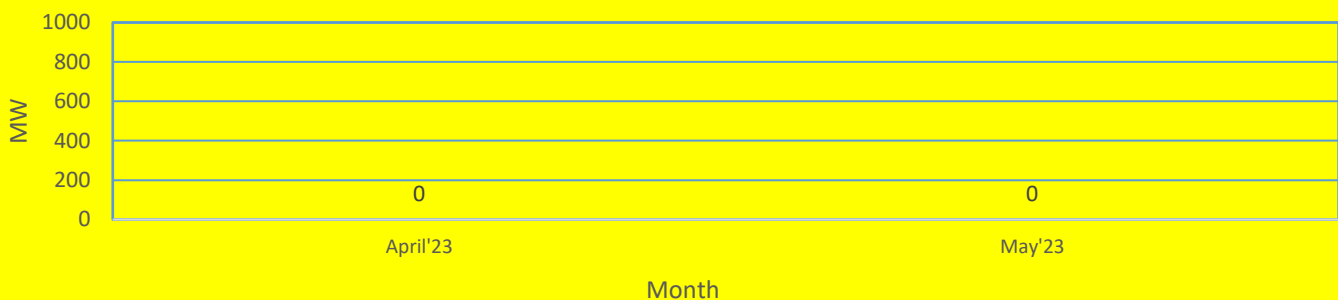


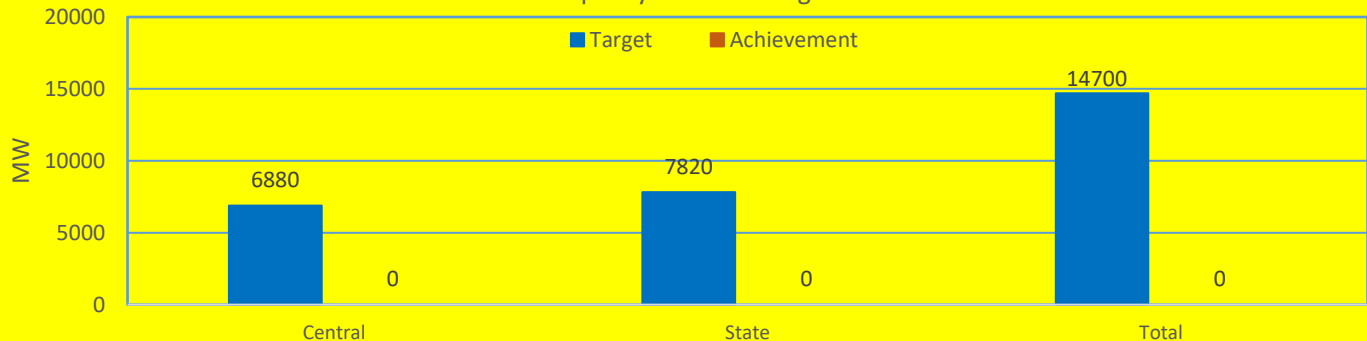


BROAD STATUS REPORT OF UNDER CONSTRUCTION THERMAL POWER PROJECTS (MAY, 2023)

Monthly Thermal Capacity Addition achievement (MW) during FY :2023-24



Tentative Thermal Capacity Addition Program for FY 2023-24



Thermal Project Monitoring Division
Central Electricity Authority
New Delhi

Ministry of Power
Government of India

www.cea.nic.in

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

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 last five years. 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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	North Karanpura STPP, Distt.- Chatra, Jharkhand	11-12
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	Talcher Thermal Power Project, Distt. – Angul, Odisha	15-16
	Patratu TPS, Distt.- Ramgarh, Jharkhand. [PVUNL (JV of NTPC & Govt. of Jharkhand)]	17-18
B	NEYVELI LIGNITE CORPORATION LIMITED (NLC Ltd.)	
	Ghatampur TPP, Distt. -Kanpur [NUPPL (JV of NLC & UPRVUNL)]	19-20
C	TEHRI HYDRO DEVELOPMENT CORPORATION LIMITED (THDC Ltd.)	
	Khurja STPP, Distt. -Bulandshahr, U.P.	21-22
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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	67538	1150.00	7012.05	280.31	75179.86	0.00	27254.45	2490.91	105726
Private	72598.00	1830.00	10574.24	308.89	85311.14	0.00	3931.00	122645	211887
Central	65100.00	3640.00	7237.91	0.00	75977.91	6780.00	15664.72	1632.30	100054.93
Total	205236	6620.00	24824.21	589.20	237269	6780.00	46850.17	126769	417668
% of Grand Total	49.14%	1.58%	5.94%	0.14%	56.81%	1.62%	11.22%	30.35%	100.00%

*Compiled from Installed Capacity Report on NPP site (as on 31.05.2023).

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

(as on 31.05.2023)

FY	2023-24	2024-25	2025-26	2026-27	2027-28	Total (MW)
Central	6880	4380	0	660	660	12580
State	7820	5040	0	0	0	12860
Private	0	0	0	0	0	0
Total	14700	9420	0	660	660	25440*

*Yelahanka CCPP (370 MW) and Uppur SCTPP (2x800 MW) have not been included in this capacity.

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

(as on 31.05.2023)

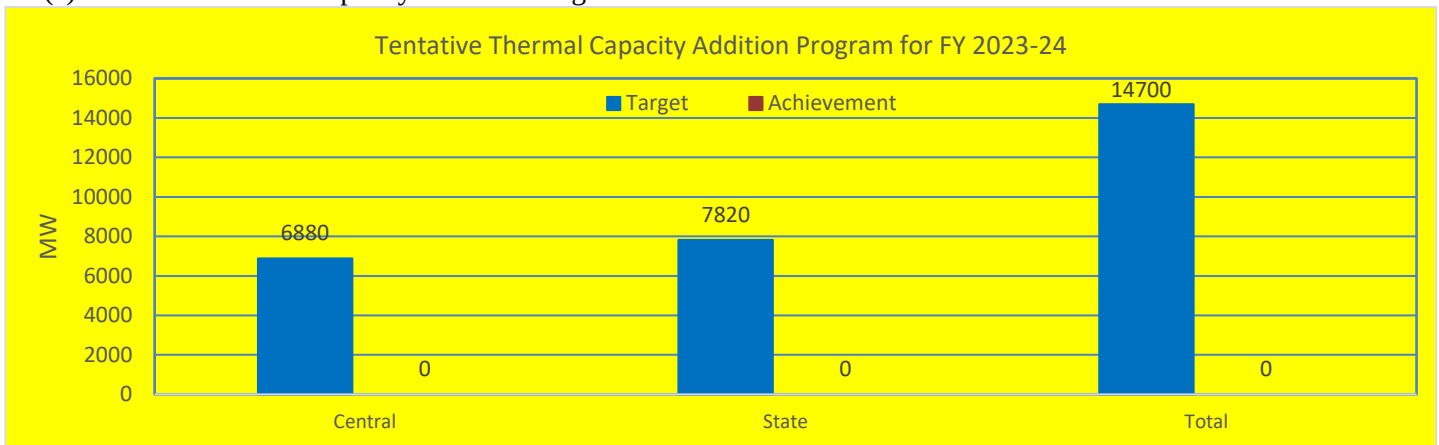
Sector	Super Critical #		Sub-Critical		Total	
	No. of Projects	Capacity (MW)	No. of Projects	Capacity (MW)	No. of Projects	Capacity (MW)
	[Units]		[Units]		[Units]	
Central	8 [18]	12580	0	0	8 [18]	12580
State	11 [20]	14460	1 [1]	370	12 [21]	14830
Private	0	0	0	0	0	0
Total	19 [38]	27040	1 [1]	370	20 [39]	27410

Out of the 19 Supercritical TPPs, 6 projects (13 units) of total capacity 9280 MW are based on Ultra Super critical technology [4 projects (9 units) in Central sector of capacity 6640 MW and 2 projects (4 units) in State sector of capacity 2640 MW]. The details of these projects are given in Table 1.2

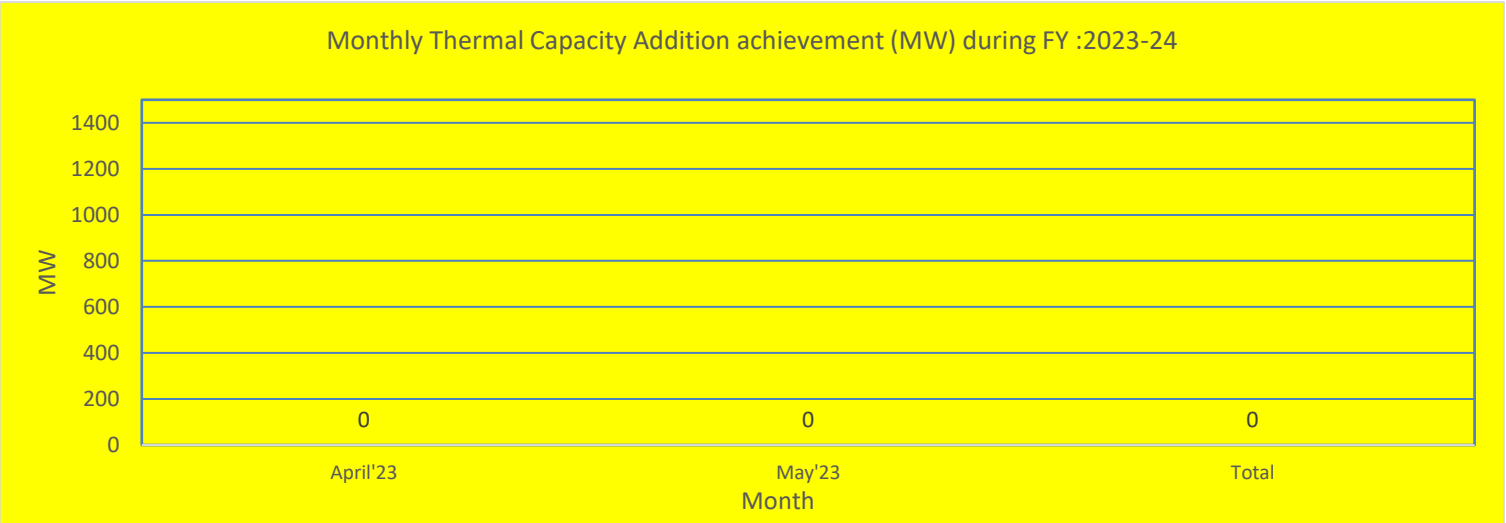
IV. Sector-wise Thermal Capacity Addition during last five years :

Sector	FY:2018 -19		FY:2019-20		FY:2020-21		FY:2021-22		FY:2022-23	
	Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
Central	2760	1960	6040	3940	5790	4080	5400	2370	3580	660
State	4506	2850	4256	2780	4276	846	4360	1590	2770	800
Private	Nil	972	Nil	45	525	0	525	525	0	0
Total	7266	5782	10296	6765	10591	4926	10285	4485	6350	1460

V.(a) Tentative Thermal Capacity Addition Program for FY 2023-24:



V.(b) Monthly Thermal Capacity Addition Achievement during FY 2023-24:



1.1 Tentative Thermal Capacity Addition Program and Actual Achievement for FY 2023-24 :

(as on 31.05.2023)

S. No.	Project Name	Implementing Agency	State	Boiler (SG) & Turbine(TG) Make	Unit No	Targeted Capacity (MW)	Anticipated Trial Run (In the beginning of FY 2023-24)	Trial Run Assessment as per latest review by CEA	Capacity Achieved (MW)	Actual Date of Capacity Addition
CENTRAL SECTOR										
1	Barh STPP St-I	NTPC	Bihar	SG-TPE/DPSI TG-Power Machines	U-2	660	Apr-2023	Jun-2023		
2	Telangana STPP St- I	NTPC	Telangana	SG-BHEL TG-GE	U-1	800	Jun-2023	Jun-2023		
					U-2	800	Jul-2023	Aug-2023		
3	North Karanpura STPP	NTPC	Jharkhand	SG-BHEL (EPC) TG-BHEL (EPC)	U-2	660	Nov-2023	Nov-2023		
4	Buxar TPP	SJVN	Bihar	SG-L&T (EPC) TG-L&T (EPC)	U-1	660	Dec-2023	Dec-2023		
					U-2	660	Mar-2024	Mar-2024		
5	Ghatampur TPP	NUPPL	Uttar Pradesh	SG-L&T-MHI TG-GE	U-1	660	Jul-2023	Jul-2023		
					U-2	660	Oct-2023	Oct-2023		
					U-3	660	Dec-2023	Dec-2023		
6	Khurja SCTPP	THDC	Uttar Pradesh	SG-L&T-MHI TG-BHEL	U-1	660	Feb-2024	Feb-2024		
Total (Central Sector)			No. of Units : 10			6880			0	
STATE SECTOR										
7	Dr. Narla Tata Rao TPS St-V	APGENCO	Andhra Pradesh	SG-BHEL TG-BHEL	U-1	800	Jun-2023	Jul-2023		
8	Jawaharpur STPP	UPRVUNL	Uttar Pradesh	SG-DPSI (EPC) TG-DPSI (EPC)	U-1	660	Jun-2023	Sep-2023		
					U-2	660	Dec-2023	Jan-2024		
9	Obra-C STPP	UPRVUNL	Uttar Pradesh	SG-DPSI (EPC) TG-DPSI (EPC)	U-1	660	Jun-2023	Sep-2023		
					U-2	660	Jan-2024	Jan-2024		
10	Panki TPS Extn.	UPRVUNL	Uttar Pradesh	SG-BHEL (EPC) TG-BHEL (EPC)	U-1	660	Jan-2024	Mar-2024		
11	North Chennai TPP St-III	TANGEDCO	Tamil Nadu	SG-BHEL TG-BHEL	U-1	800	Sep-2023	Oct-2023		
12	Udangudi STPP St-I	TANGEDCO	Tamil Nadu	SG-BHEL (EPC) TG-BHEL (EPC)	U-1	660	Mar-2024	Sep-2024		
13	Yadadri TPS	TSGENCO	Telangana	SG-BHEL (EPC) TG-BHEL (EPC)	U-1	800	Dec-2023	Dec-2023		
					U-2	800	Dec-2023	Dec-2023		
14	Bhusawal TPS	MAHAGENCO	Maharashtra	SG-BHEL (EPC) TG-BHEL (EPC)	U-6	660	Jul-2023	Oct-2023		
Total (State Sector)			No. of Units : 11			7820			0	
Total Targeted Capacity			No. of Units : 21			14700*			0	

*Yelahanka CCPP (KPCL) (370 MW) has not been included in this capacity. It has been constructed and its commissioning is subject to availability of gas from M/s GAIL (Anticipated in Sep-2023)

1.2 Under Construction Thermal Power Projects in the Country :

(as on 31.05.2023)

S.N o.	Project Name	State	Implemen- ting Agency	Boiler	Turbine	Technol- ogy	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 (%)
CENTRAL SECTOR																
1	Barh STPP St-I	Bihar	NTPC	Doosan	Power Machine , Russia	Supercritical	Mar-05	U-2	660	Dec-10	Jun-23	97%	8693	21312	21056	99%
								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	80%	10439	10439	7758	74%
								U-2	660	Sep-23	Mar-24	65%				
3	North Karanpura STPP	Jharkhand	NTPC	BHEL	BHEL	Supercritical	Feb-14	U-2	660	Dec-18	Nov-23	92%	14367	16243	14647	90%
								U-3	660	Jun-19	Jun-24	81%				
4	Patratu STPP	Jharkhand	PVUNL	BHEL	BHEL	Ultra Supercritical	Mar-18	U-1	800	Jan-22	Jul-24	65%	17112	18668	10955	59%
								U-2	800	Jul-22	Dec-24	60%				
								U-3	800	Jan-23	Mar-25	44%				
5	Talcher TPP St-III	Odisha	NTPC	BHEL	BHEL	Ultra Supercritical	Sep-22	U-1	660	Nov-26	Nov-26	0%	11844	11844	600	5%
								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	90%	17238	19406	15109	78%
								U-2	660	Nov-20	Oct-23	78%				
								U-3	660	May-21	Dec-23	73%				
7	Khurja SCTPP	Uttar Pradesh	THDC	L&T MHI	BHEL	Ultra Supercritical	Aug-19	U-1	660	Jul-23	Feb-24	68%	11089	11089	7503	68%
								U-2	660	Jan-24	Aug-24	61%				
8	Telangana STPP St- I	Telangana	NTPC	BHEL	GE Power system	Ultra Supercritical	Feb-16	U-1	800	May-20	Jun-23	96%	10599	10998	10589	96%
								U-2	800	Nov-20	Aug-23	94%				
Total Central Sector									12580				101381	119999	88216	
STATE SECTOR																
1	Dr.Narla Tata Rao TPS St-V	Andhra Pradesh	APGENCO	BHEL	BHEL	Supercritical	Dec-15	U-1	800	Apr-19	Jul-23	86%	5287	7741	7741	100%
2	Jawaharpur STPP	Uttar Pradesh	UPRVUNL	Doosan	Doosan	Ultra Supercritical	Dec-16	U-1	660	Dec-20	Sep-23	91%	8079	12320	10414	85%
								U-2	660	Apr-21	Jan-24	86%				
3	Obra-C STPP	Uttar Pradesh	UPRVUNL	Doosan India	Doosan India (GE)	Ultra Supercritical	Dec-16	U-1	660	Dec-20	Sep-23	90%	8778	11706	8913	76%
								U-2	660	Apr-21	Jan-24	75%				
4	Panki TPS Extn.	Uttar Pradesh	UPRVUNL	BHEL	BHEL	Supercritical	Mar-18	U-1	660	Sep-21	Mar-24	76%	5817	5817	4861	84%
5	Ennore SCTPP	Tamil Nadu	TANGEDCO	BHEL	BHEL	Supercritical	Sep-14	U-1	660	Jan-18	Apr-25	63%	9800	9800	6055	62%
								U-2	660	Mar-18	Jul-25	63%				
6	North Chennai TPP St-III	Tamil Nadu	TANGEDCO	BHEL	BHEL	Supercritical	Jan-16	U-1	800	Apr-19	Oct-23	93%	6376	8723	7875	90%
7	Udangudi STPP St-I	Tamil Nadu	TANGEDCO	BHEL	BHEL	Supercritical	Dec-17	U-1	660	Apr-21	Sep-24	68%	13077	13077	8093	62%
								U-2	660	Jun-21	Jan-25	65%				
8	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%				
9	Yadadri TPS	Telangana	TSGENCO	BHEL	BHEL	Supercritical	Oct-17	U-1	800	Oct-21	Dec-23	79%	25099	29965	21180	71%
								U-2	800	Oct-21	Dec-23	79%				
								U-3	800	Jun-22	Sep-24	72%				
								U-4	800	Jun-22	Aug-24	75%				
								U-5	800	Oct-22	Nov-24	70%				
10	Yelahanka CCPP	Karnataka	KPCL	BHEL	BHEL	Subcritical	Nov-15	GT+ ST	370	Feb-18	Sept-23	97%	1571	2311	2311	100%
11	Bhusawal TPS	Maharashtra	MAHAGENCO	BHEL	BHEL	Supercritical	Jan-18	U-6	660	May-22	Oct-23	87%	4548	4551	3435	75%
12	Sagardighi TPP St-III	West bengal	WBPDC	BHEL	BHEL	Supercritical	Dec-18	U-1	660	Jan-24	Sep-24	49%	3863	4567	1437	31%
Total State Sector									14830				105071	123356	84869	
Grand Total									27410				206453	243355	173085	

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

(as on 31.05.2023)

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
CENTRAL SECTOR											
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						
STATE SECTOR											
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 is 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						
PRIVATE SECTOR											
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. NCLT approval under process.	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-Cether Vessels /Turbine-Harbin China	Mar-11	U-3	300	Mar-14	Reworked bids(seven) received from the Resolution Applicants. Voting completed. Plan submitted by Sarda Energy & Minerals filed with NCLT for approval	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. PFC-REC consortium was declared successful Resolution Applicant. LOI issued on 09-01-2023. CoC approved plan submitted by RP for approval of NCLT on 14-02-2023.	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. Vedanta Ltd. Has bought the power plant under liquidation.	6200	8443.79	6408.47	May- 17
			Dec-09	U-2	600	Feb-15					
8	Chhattisgarh	Salora TPP / Vandana Vidyut/ Boiler- Cether Vessles /TG Harbin China	Sep-09	U-2	135	Sep-11	Liquidation Order date 16.12.2019 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 and implementation of Resolution plan has been completed.	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 / Monnet Power Co. Ltd. / BTG-BHEL	Jun-10	U-1	525	Dec-12	Liquidation Order date 23.10.2019. Jindal Steel and Power has acquired the asset under liquidation.	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		Jun-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		LILOing of Kahalgaon – Patna 400 kV D/C (Quad) line at Barh (NTPC) switchyard.			
		Configuration of Tx Line (S/C or D/C)		D/C			
LAND POSSESSION		Required – 3212 Acres, Under Possession – 3212 Acres		2014-15		568.49	
WATER ALLOCATION		100 Cusec from River Ganges		2015-16		1143.46	
MOEF CLEARANCE		11.09.2001		2016-17		1410.21	
CIVIL AVIATION CLEARANCE		09.08.2004		2017-18		1389.43	
CPCB CLEARANCE		Not Applicable		2018-19		1453.89	
SPCB CLEARANCE		Consent to Operate (Emission & Discharge) Granted by SPCB on 04.07.2017, For Unit#1, and is Valid upto 30.09.2021		2019-20		1502.47	
FOREST CLEARANCE		Not Applicable		2020-21		1123.15	
				2021-22		1185.00	
				2022-23		2284.00	
				EXPENDITURE OF MAY’2023		230.3	
				TOTAL EXPENDITURE (upto 31.05.2023)		21055.8	

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	BOILER	CIVIL	100%	100%	94%			
									STRUCTURE			100%	77%			
									PRESSURE PARTS			100%	90%			
1	COMPLETION OF BOILER FOUNDATION	Complete		Complete		Complete		2	TG	CIVIL	100%	100%	95%			
2	START OF BOILER ERECTION	May-06	Mar-11	Mar-07	Jul-11	Jan-08	Jan-12		STRUCTURE			100%	97%			
3	BOILER DRUM LIFTING (if sub-critical unit)	NA		NA		NA			TG ERECTION			100%	74%			
4	BOILER CEILING GIRDER LIFTING COMPLETION	Complete		Complete		Complete		3	ESP	UNDER PROGRESS	100%	98%	95%			
5	CONDENSER ERECTION START	Jun-07	Nov-08	Apr-08	Jan-09	Feb-09	Nov-13	4	FGD	CIVIL WORK	25%	12%	13%			
6	TG ERECTION START	Aug-07	Aug-11	Jun-08	Sep-11	Apr-09	Mar-12			MATERIAL SUPPLY	26%	25%	20%			
7	HP PIPING ERECTION START			May-09	Oct-19	Mar-09	Oct-23			ERECTION WORK	1%	Yet to start	Yet to start			
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	Dec-07	Feb-13	Oct-08	Jan-21	Aug-09	Oct-23	STATUS OF BOPS								
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION		Feb-13	Oct-08	Jan-21	Aug-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	UNIT-02	UNIT-03
10	TG BOX UP	Aug-08	Dec-13	Jun-09	Jan-15	Apr-10	Feb-24							% Completion	% Completion	% Completion
11	HP PIPING ERECTION COMPLETION			Aug-09	Jun-22	Jun-09	Dec-23	1	Chimney	NBCC	20.12.2005	19.07.2009	Completed	100%	100%	100 %
12	START OF OIL FLUSHING			Jul-09	Dec-21	May-09	Jan-23	2	Coal Handling Plant	L&T (Conveyor package)	22.09.2005	21.08.2009	U2-May'23(A); U3-Dec'23	100%	100%	68%
13	BOILER LIGHT UP	Aug-08	Aug-19	Jun-09	May-22	Apr-10	Feb-24			L&T (Wagon Tippler)		21.07.2009	Completed	100%	100 %	100 %
14	CHEMICAL CLEANING COMPLETION			Jul-09	May-22	May-10	Feb-24		L&T(Stacker Reclaimer)	21.09.2009	Completed	100%	100 %	100 %		
15	STEAM BLOWING START			Sep-09	Jul-22	Jul-10	Feb-24	3	Ash Handling Plant	Melco	15.04.2016	14.01.2019	U2-May'23(A); U3-Dec'23	100%	100%	60%
16	STEAM BLOWING COMPLETION	Jan-09	Jan-20	Nov-09	Oct-22	Sep-10	Mar-24	4	Fuel Oil System	Techno	07.05.2006	05.07.2009	U2-Completed U3-Jun'23	100%	100 %	78%
								5	Cooling Towers	Paharpur	28.12.2005	27.08.2009	U2-Jun'23; U3-Oct'23	100%	97%	82%
17	ROLLING & SYNC.	Mar-09	Sep-20	Jan-10	Mar-23	Nov-10	Apr-24	6	CW Pump house	KBL	17.07.2006	16.01.2014	U3-Aug'23	100%	100 %	95 %
								7	WPT Plant	SPML	28.05.2007	27.11.2008	U3-Dec'23	100%	100 %	87 %
18	FULL LOAD	Jul-09	Apr-21	Apr-10	Jun-23	Mar-11	Jun-24	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-Jun'23	100%	100%	96%
19	TRIAL RUN	Feb-10	Oct-21	Dec-10	Jun-23	Oct-11	Jun-24	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 %
20	COD	Mar-10	Nov-21	Jan-11	Jul-23	Nov-11	Jul-24	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

- ♦ Construction of Hazaribagh-Koderma-Tilaiya-Rajgir-Bakhtiyarpur rail route for ease of coal transportation.

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		16243.00
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		
			2010-11	8.17	
PPA	Jharkhand: 500 MW; Odisha: 396 MW; Bihar: 688 MW; WB: 99 MW; Unallocated: 297 MW.		2011-12	4.88	
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.		2012-13	5.75	
			2013-14	1362.18	
			2014-15	527.92	
			2015-16	615.73	
START UP POWER AGREEMENT	Through ATS – 400 KV NK Chandwa line. Line is under construction. Agreement yet to be done.		2016-17	2199.92	
POWER EVACUATION SYSTEM	Tx Line Developer	NKTL	2017-18	2044.46	
	Tx Line Name Tx Voltage Level	i) NKSTPP-Chandwa 400 KV, D/c line ii) NKSTPP-Gaya, 400 KV D/c line	2018-19	1747.91	
	Configuration of Tx Line (S/C or D/C)	D/C	2019-20	1762.62	
LAND POSSESSION	2263/ 2293 Acres. 30 Acres pending for acquisition.		2020-21	1243.28	
WATER ALLOCATION	20 Cusec from Garhi River – Raw water drawl agreement signed with DVC on 18.09.2020.		2021-22	1051.00	
MOEF CLEARANCE	29.11.2004		2022-23	1590.38	
CIVIL AVIATION CLEARANCE	13.02.2009		EXPENDITURE of MAY’ 2023		132.83
CPCB CLEARANCE	Not Applicable		TOTAL EXPENDITURE (upto 31.05.2023)		14646.83
SPCB CLEARANCE	Available. 31.12.2001 for Bihar. 11.12.2014 for Jharkhand				
FOREST CLEARANCE	03.11.2015				

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		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	Jun-23
6	TG ERECTION START	Jul-16	Nov-17	Jan-17	Jan-18	Jul-17	Mar-22
7	HP PIPING ERECTION START	Jul-17	Nov-20	Jan-18	Jun-23	Jul-18	Aug-23
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	Jan-17	Dec-18	Jul-17	Oct-19	Jan-18	Sep-23
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	Mar-17	Jan-19	Jul-17	Oct-19	Jan-18	Sep-23
10	TG BOX UP	Jun-17	Aug-19	Dec-17	Jan-22	Jun-18	Dec-23
11	HP PIPING ERECTION COMPLETION	Sep-17	Jan-21	Mar-18	Jul-23	Sep-18	Feb-24
12	START OF OIL FLUSHING	Jul-17	Jul-20	Jan-18	Feb-23	Jul-18	Nov-23
13	BOILER LIGHT UP	Aug-17	Dec-20	Feb-18	Jun-23	Aug-18	Jan-24
14	CHEMICAL CLEANING COMPLETION	Aug-17	Jan-21	Feb-18	Jun-23	Aug-18	Jan-24
15	STEAM BLOWING START	Sep-17	Jan-21	Mar-18	Jul-23	Sep-18	Mar-24
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%	99%	87%
		STRUCTURE	100%	97%	72%
		PRESSURE PARTS	100%	100%	51%
2	TG	CIVIL	100%	100%	98%
		STRUCTURE	100%	100%	98%
		TG ERECTION	NA	NA	NA
3	ESP	UNDER PROGRESS	100%	99%	74%
4	FGD	CIVIL WORK	51%	46%	46%
		MATERIAL SUPPLY	56%	49%	41%
		ERECTION WORK	20%	4%	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	U#1-Dec-18 U#2-Jun-19 U#3-Dec-20	U#2-Jun-23 U#3-Apr-23 (A)	100%	99%	100%
2	Coal Handling Plant	M/s BHEL (Conveyor package)	Feb-14	Dec-18	U#2-Sep-23 U#3-Dec-23	100%	78%	40%
		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#283-Sep-23	100%	70%	50%
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%	83%	63%
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-Jun-23	100%	52%	16%
11	Switch Yard	BHEL-TBG/Arun Construction Technico India Pvt. Ltd.	Feb-14	Dec-18	U#2-Jun-23 U#3-Jul-23	100%	86%	76%
12	Station Transformers	M/s BHEL	Feb-14	Mar-18	U#2-Aug-23 U#3-Mar-23 (A)	100%	25%	100%
13	Unit Transformers	M/s BHEL	Feb-14	Jul-18	U#2-Aug-23 U#3-Sep-23	100%	36%	36%
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 by CCL to NTPC for construction of external Coal Handling Plant.

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	Jun-2023		
Unit#2		Nov-2020	Aug-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
			2017-18		1062.65
			2018-19		2535.67
			2019-20		2599.45
			2020-21		1308.35
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		2021-22		828.00
POWER EVACUATION SYSTEM	Tx Line Developer	TSTRANSCO	2022-23		1195.27
	Tx Line Name Tx Voltage Level	i) TeSTPP-Narsapur, 400 KV, D/C Line. ii) TeSTPP- Ramadugu ,400 KV, D/C line.	EXPENDITURE OF MAY’2023		150.83
	Configuration of Tx Line (S/C or D/C)	D/C	TOTAL EXPENDITURE (upto 31.05.2023)		10588.54
LAND POSSESSION	Being accommodated within the land possessioned with NTPC Ramagundam project. No new land acquired for the project.				
WATER ALLOCATION	60 cusecs from Yellampally Barrage on Godavari river				
MOEF CLEARANCE	20.01.2016, Valid upto 19.01.2024				
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	May-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	May-23
16	STEAM BLOWING COMPLETION	Sep-19	Nov-22	Mar-20	Jun-23
17	ROLLING & SYNC.	Nov-19	Mar-23	May-20	Jul-23
18	FULL LOAD	Jan-20	Jun-23	Jul-20	Aug-23
19	TRIAL RUN	May-20	Jun-23	Nov-20	Aug-23
20	COD	Jun-20	Jul-23	Dec-20	Sep-23

STATUS OF MAIN PLANT PACKAGE (BTG) : SG - BHEL, TG - GE							
Sl.	Packages	AREA	UNIT-01		UNIT-02		
			% Completion	% Completion			
1	BOILER	CIVIL	100%	97%			
		STRUCTURE	100%	94%			
		PRESSURE PARTS	100%	99%			
2	TG	CIVIL	100%	100%			
		STRUCTURE	100%	100%			
		TG ERECTION	100%	100%			
3	ESP	UNDER PROGRESS	99%	95%			
4	FGD	CIVIL WORK	99%	99%			
		MATERIAL SUPPLY	100%	100%			
		ERECTION WORK	100%	98%			
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	UNIT-02 % Completion
1	Chimney	BHEL	05.02.16	30.08.19(U1) 28.02.20(U2)	Nov-22(A)	100%	100%
2	Coal HandlingPlant	Conveyor Package – Tata Projects Ltd	10.01.17	10.03.20	U1-Jun23 U2-Jul23	98%	90%
		Wagon Tippler – Tata Projects Ltd	10.01.17	10.03.20	Oct23	70%	
		Stacker Reclaimer - Tata Projects Ltd	10.01.17	10.03.20	U1-Sep22(A); U2-Aug23	100%	78%
3	Ash Handling	BHEL	05.02.16	27.11.19	U1-May23(A) U2-Jul23	100%	88%
4	Fuel Oil System	TATA Projects	10.01.17	09.01.20	U2-May23(A)	100%	100%
5	Cooling Towers	TATA Projects	10.01.17	10.01.20	U2-Jun23	100%	95%
6	CW Pump	TATA Projects	10.01.17	10.02.20	U2-Jun23	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-Apr23 (A); U2-Jun23	98%	90%
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-Jun23	100%	96 %
14	Railway Siding	TATA Projects	10.01.17	10.03.20	Aug23	76%	
15	Power evacuation	TSTransco	Ramadugu Line Apr-18; Narsapur Line Aug-17	Dec-19	Aug21(A)	100%	100%

CRITICAL ISSUES

- Poor site mobilization (BHEL) hampering site work progress.

REASONS OF DELAY

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

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		2022-23	453.14
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.		EXPENDITURE OF MAY’2023	56.14
POWER EVACUATION SYSTEM	Tx Line Developer	Yet to be awarded	TOTAL EXPENDITURE (upto 31.05.2023)	599.64
	Tx Line Name Tx Voltage Level	(400 kV Gas Insulated Switchyard)	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.	
	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.			
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	Make up water Pump House: 1st stage received, Application for 2nd stage under process; Make up Corridor: 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 % Completion	UNIT-02 % Completion
1	Chimney	BHEL	Sep-22	Nov-25	Nov-25 (U1) Mar-26 (U2)	0%	0%
2	Coal HandlingPlant	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 Roads & Bridges Deptt., GoO by July-23. (last commitment: Feb-23).
- - Closure of Anand Bazaar – Jaganathpur Road passing through Main Plant area.
- - Eviction of unauthorised inhabitants from Munda Basti area.

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		
			2015-16	-----	
PPA	85% allocated to Jharkhand, PPA signed on 30.03.2016. 15% of power will remain as unallocated quota at the disposal of GoI		2016-17	-----	
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.		2017-18	992.11	
	Bridge allocation granted by SLC(LT) upto 24-06-2024; Allocation from CCL; Coal quantity quantified is 9.17 MTPA.		2018-19	601.86	
START UP POWER AGREEMENT	Through 7.5 kms Transmission line : Patratu-Patratu (Main Plant to Katia Substation) D/C Line		2019-20	695.09	
POWER EVACUATION SYSTEM	Tx Line Developer	JUSNL	2020-21	1228.66	
	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).	2021-22	1846.48	
		Configuration of Tx Line (S/C or D/C)	D/C	2022-23	2849.76
	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		EXPENDITURE OF MAY'23	40.50
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.		TOTAL EXPENDITURE (upto 31.05.2023)	10955.39	
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.				
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	May-20	Jan-21
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	Jun-23	Aug-20	Sep-23	Feb-21	Jun-24
6	TG ERECTION START	Jun-20	Mar-22	Dec-20	Oct-22	Jun-21	Jul-23
7	HP PIPING ERECTION START	Jul-20	Sept-22	Jan-21	Jun-23	Jul-21	Jun-23
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	Jan-21	Mar-23	Jul-21	Jun-23	Jan-22	Dec-23
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	Jun-21	Oct-23	Dec-21	Feb-24	Jun-22	Jun-24
10	TG BOX UP	May-21	Mar-23	Nov-21	Dec-23	May-22	Jun-24
11	HP PIPING ERECTION COMPLETION	May-21	Nov-23	Nov-21	Mar-24	May-22	Apr-24
12	START OF OIL FLUSHING	Apr-21	Aug-23	Oct-22	Dec-23	Apr-22	May-24
13	BOILER LIGHT UP	Jun-21	Oct-23	Dec-21	Feb-24	Jun-22	Jun-24
14	CHEMICAL CLEANING COMPLETION	Jul-21	Nov-23	Jan-22	Mar-24	Jul-22	Jul-24
15	STEAM BLOWING START	Jul-21	Dec-23	Jan-22	Jun-24	Jul-22	Sep-24
16	STEAM BLOWING COMPLETION	Sep-21	Feb-24	Mar-22	Aug-24	Sep-21	Nov-24
17	ROLLING & SYNC.	Nov-21	Mar-24	May-22	Oct-24	Nov-22	Jan-25
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	Aug-24	Sep-22	Jan-25	Mar-23	Apr-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	78.0%	75.4%	68.6%
		STRUCTURE	74.7%	77.5%	66.4%
		PRESSURE PARTS	97.9%	80.9%	33.9%
2	TG	CIVIL	68.6%	50.4%	32.0%
		STRUCTURE	91.7%	91.2%	17.4%
3	ESP	UNDER PROGRESS	77.9%	80.1%	59.1%
4	FGD	CIVIL WORK	89%	70%	58%
		MATERIAL SUPPLY	71%	55%	25%
		ERECTION WORK	28%	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	U1-21.07.18; U2-26.07.18; U3-31.01.20	U1-45.03.21; U2-05.09.21; U3-45.03.22	Feb-25	100% RCC	94.0% RCC	64.5% RCC
2	Coal Handling Plant	BHEL PSWR	12.01.2020	08.08.2021	Feb-25	64.3% 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	61.5% RCC complete		
4	Fuel Oil System	BHEL PSWR	07.10.2020	08.06.2021	Feb-25	46% civil works		
5	ACC	BHEL	08.04.2022	14.10.2021	Feb-25	Footing RCC works-100%	Footing RCC works-67.6%	Footing RCC works-76%
6	CW Pump house	NA (ACC is envisaged)				(Air Cooled Condenser)		
7	WPT Plant	BHEL PSWR	14.01.2021	20.03.2021	Feb-25	44.0% RCC complete		
8	DM Plant	BHEL PSWR		27.03.2021	Feb-25	44.0% RCC complete		
9	Compressed Air System	BHEL PSWR	04.07.2020	03.02.2021	Feb-25	96.0% Structure erection completed		
10	Fire Protection System	BHEL-PESD, Hyderabad	25.05.2021	18.05.2021	Feb-25	98% RCC civil works		
11	Switch Yard	BHEL-TBG	01.05.2020	08.10.2021	Feb-25	84.9% 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

- Slow Progress in ACC civil works by BHEL
- Readiness of Power evacuation system by JUSNL.
 - (a) Patratu-Patratu 400 kV D/c line: Work in progress.
 - (b) Patratu-Koderma & Patratu-Chandil 400 kV D/c line: Price bid opened, award yet to be done.

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	19406.12
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);		2022-23	1511.60
WATER ALLOCATION	80 cusec from UP Irrigation department (44.6 km from GTPP)		EXPENDITURE OF MAY'2023	122
MOEF CLEARANCE	Clearance obtained date from concerned authority:- 17.06.2015 validity of it (If any):- 7 Years		TOTAL EXPENDITURE (upto 31.05.2023)	15108.64
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	Anticipated / Actual Date of Completion	Original Date of Completion	Anticipated / Actual Date of Completion	Original Date of Completion	Anticipated / 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	28.02.2023	12.06.2020	30.06.2023
12	START OF OILFLUSHING	30.11.2019	27.10.2020	31.05.2020	07.11.2022	30.11.2020	05.08.2023
13	BOILER LIGHT UP	30.11.2019	28.02.2022	30.05.2020	15.06.2023	30.11.2020	31.07.2023
14	CHEMICAL CLEANING COMPLETION	30.10.2019	24.07.2021	30.04.2020	30.06.2023	30.10.2020	15.07.2023
15	STEAM BLOWING START	15.12.2020	23.06.2022	30.05.2020	25.06.2023	30.11.2020	15.08.2023
16	STEAM BLOWING COMPLETION	30.01.2020	13.08.2022	15.06.2020	10.08.2023	15.12.2020	30.09.2023
17	ROLLING & SYNC.	01.03.2020	30.06.2023	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	31.08.23	30.11.20	31.11.23	01.06.21	31.01.24

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			93.50%	90.47%	85.48%		
			STRUCTURE			98.20%	95.70%	94.11%		
			PRESSURE PARTS			100%	100%	100%		
2	TG		CIVIL			99.53%	100%	98.00%		
			STRUCTURE			100%	100%	100%		
3	ESP		UNDER PROGRESS			100%	99.57%	93.86%		
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 activities have been completed. Site enabling activities (labor colony, cement storage etc.) are under progress.				
			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-Jun 23; 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	Jun23, Sep23, Nov23	46%	19%	9%	
			Wagon Tippler - BGR Energy System Ltd.	21.11.2016	U1-Jul19, U2&3-Jan20	U1-Jun23, U2&3-Nov23	20%	0%		
			Stacker Reclaimer - BGR Energy System Ltd.	21.11.2016	U1-Jun19, U2&3-Feb20	U1-Jul23, U2&3-Nov23	27%	9%		
3	Ash Handling Plant		BGR Energy System Ltd.	21.11.2016	Jul19, Mar20, Feb20	Jun23, Sep23, Nov23	70%	60%	55%	
4	Fuel Oil System		L&T MHI Power Boilers Pvt Ltd	21.11.2016	24.10.2019	Jun-23	99%			
5	Cooling Towers		BGR Energy System Ltd.	21.11.2016	20.11.2020	Jun23, Sep23, Nov23	Civil:94%, Mech.22%	Civil:57.99%, Mech. 0%	Civil:42.15%, Mech. 0%	
6	CW Pump house		BGR Energy System Ltd.	21.11.2016	20.11.2020	Jun23, Oct23, Dec23	99%	21%	20%	
7	WPT Plant		BGR Energy System Ltd.	21.11.2016	20.04.2019	Jun-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 (A)	100%			
10	Fire Protection System		BGR Energy System Ltd.	21.11.2016	20.11.2020	Jun23, Sep23, Nov23	58%	3%	0%	
11	Switch Yard		BGR Energy System Ltd.	21.11.2016	20.02.2020	Oct-2023	400kV-59%, 765kV-95%, Outdoor Switchyard-62%			
12	Station Transformers		GE-Power Systems India Pvt. Ltd.	02.08.2016	Apr19, Oct19, Apr20	Feb21(A), Aug22(A), Jun23	100.0%	100.0%	95.0%	
13	Unit Transformers		GE-Power Systems India Pvt. Ltd.	02.08.2016	Apr19, Oct19, Apr20	Jul22(A), Dec22 (A), Jun23	100.0%	100%	95.0%	
14	Railway Siding		RITES	29.03.2019	28.03.2021	Jun-23	Civil work – 93.19% Electrical – 85%			
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 in BoP areas i.e. CHP, AHP, CWPH, Water system, NDCT, Fire protection, ETP areas
- FGD's work commenced on 23-12-2022 (M/s L&T).

REASONS OF DELAY

Work of BoP areas had been put on hold in August 2021 site due to financial issues being faced by M/s BGR.

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

Khurja, Distt.-Bulandshahar, Uttar Pradesh -203 131

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

Project Developer / Implementing Agency - THDC			Main Plant Vendor: SG Pkg. - 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.				
COAL LINKAGE/FSA	For Coal linkage, Ministry of Coal, GoI vide allotment order dtd.17.01.2017 has allotted Amelia Coal Mine in District Singraulli, Madhya Pradesh to THDCIL to meet out fuel requirements of the project. 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.		2016-17		338.92
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.		2017-18		10.66
			2018-19		148.87
			2019-20		439.95
			2020-21		789.69
			2021-22		2158.93
POWER EVACUATION SYSTEM	Tx Line Developer	PGCIL and UPPTCL	2022-23		2825.84
	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).	EXPENDITURE OF MAY'2023		345.80
	Configuration of Tx Line (S/C or D/C)	D/C	TOTAL EXPENDITURE (upto 31.05.2023)		7503.19
LAND POSSESSION	Small Patches of land within the boundary of already acquired 1201 Acre land by UPSIDC and handed over to THDCIL .				
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.				
MOEF CLEARANCE	Environmental Clearance has been accorded to Khurja STPP by MOEF&CC on 30.03.2017 with validity upto 29.03.2024.				
CIVIL AVIATION CLEARANCE	Clearance for construction of chimney for Khurja STPP has been obtained from Airport Authority of India (AAI) on 19.04.2018 with validity up to 17.07.2023.				
CPCB CLEARANCE	NOT APPLICABLE				
SPCB CLEARANCE	“Consent to Establish” has been granted by SPCB Uttar Pradesh on 13.06.2018 with validity upto 01.06.2023.				
FOREST CLEARANCE	NOT APPLICABLE				

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

UNIT WISE MILESTONES (ANTICIPATED / ACTUAL)						STATUS OF MAIN PLANT PACKAGE (BTG) : M/s L&T MHI Power Boilers Pvt.									
Sl.	MILESTONE	UNIT-01		UNIT-02		Sl.	Packages	AREA				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	1	BOILER	CIVIL			100%	100%			
2	START OF BOILER ERECTION	29.10.2020	20.02.2021	29.04.2021	17.08.2021			STRUCTURE			57.67%	42.04%			
3	BOILER DRUM LIFTING (if sub-critical unit)	NA		NA				PRESSURE PARTS			100%	74.51%			
4	BOILER CEILING GIRDER LIFTING COMPLETION	28.05.2021	12.02.2022	28.11.2021	09.09.2022	2	TG	CIVIL			99.92%	99.10%			
5	CONDENSER ERECTION START	02.09.2021	25.03.2022	02.03.2022	19.01.2023			STRUCTURE			98.32%	85.60%			
6	TG ERECTION START	03.09.2021	25.05.2022	03.03.2022	25.02.2023			PRESSURE PARTS			1.2%	0.00%			
7	HP PIPING ERECTION START	28.06.2021	20.10.2022	28.12.2021	28.02.2023	3	ESP	UNDER PROGRESS				52.20%	8.21%		
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	29.05.2022	15.03.2023	29.11.2022	20.08.2023	4	FGD	CIVIL WORK			100 % RCC completed	100 % of RCC completed			
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	NA	NA	NA	NA			MATERIAL SUPPLY			60.87%	6.24%			
10	TG BOX UP	04.08.2022	31.06.2023	04.02.2023	30.12.2023			ERECTION WORK			34.77 %	6.25%			
11	HP PIPING ERECTION COMPLETION	26.10.2022	26.10.2023	26.04.2023	26.10.2023	STATUS OF BOPs									
12	BOILER LIGHT UP	29.10.2022	28.10.2023	29.04.2023	20.03.2024	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	CHEMICAL CLEANING COMPLETION	29.10.2022	30.10.2023	29.04.2023	30.04.2024	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-100%			
14	OIL FLUSHING COMPLETION	03.11.2022	22.08.2023	03.05.2023	22.12.2023	2	Coal Handling Plant	Thyssenkrupp Industries India Pvt. Ltd.	04.08.2021	04.12.2023	04.12.2023	50.00%			
15	STEAM BLOWING START	29.11.2022	01.11.2023	29.05.2023	01.05.2024	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 78% of RCC			
16	STEAM BLOWING COMPLETION	29.12.2022	30.11.2023	29.06.2023	30.05.2024	4	Fuel Oil System	M/s L&T MHI Power Boilers Pvt. Ltd	30.09.2021	08.10.2022	03.08.2023	100% LDO tanks; 88% FOPH			
17	ROLLING & SYNC.	02.04.2023	31.12.2023	02.10.2023	30.06.2024	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: 80% of civil work completed	U-2: 73% of civil work completed		
18	FULL LOAD	02.06.2023	31.01.2024	02.12.2023	20.07.2024	6	CW Pump house	Flowmore Ltd.	01.10.2021	30.09.2023	28.12.2023	85%			
19	TRIAL RUN	02.07.2023	20.02.2024	02.01.2024	18.08.2024	7	WPT Plant	Gaja Engineering Pvt. Ltd.	30.11.2021	25.09.2023	28.02.24	85%			
20	COD	02.08.2023	20.03.2024	02.02.2024	18.09.2024	8	DM Plant		30.11.2021	30.09.2023	25.09.23	95 %			
						9	DM Water Transfer Pump House								
						10	Compressed Air System	M/s L&T MHI Power Boilers Pvt. Ltd		08.10.22	30.07.23	Civil Work: 95%			
						11	Fire Protection System	Gaja Engineering Pvt. Ltd		31.08.23	31.08.23	95%			
						12	Switch Yard	GET&D	16.09.2020	25.03.2023/ 25.09.2023	30.06.2023/ 25.09.2023	79.0%			
						13	Ash Dyke Package	M/s JPW Infratech Pvt Ltd	11.03.2022	10.09.2024	10.09.2024	38%			
						14	Station Transformers	BHEL	09.08.2020	04.02.2022/ 30.07.2022	30.06.2023/ 30.09.2023	99%			
						15	Unit Transformers	BHEL	08.09.2020	15.07.2022	30.09.2023	96%			
						20	Railway Siding	M/s Jhajahariya Nirman Ltd; M/s ISC-CMIPL (JV)	13.11.2020	13.09.2022	30.06.2023	Civil work – 87 %			
						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

♦ No critical issues.

REASONS OF DELAY

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

♦ Slow work progress in some of the BoP areas i.e. CHP, AHP, DM Water Plant, WPT Plant. Air Compressor and Fire protection

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

Village-Chausa, Tehsil-Chausa, Distt.-Buxar (Bihar), Pin- 802114

E-Gen Portal Registration No. (U#1 - 1200002481; U#2 - 1200002482)

Project Developer / Implementing Agency - SJVN			Main Plant Vendor - M/s L&T (EPC)	
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
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.		YEAR WISE EXPENDITURE	
PPA	PPA signed with Govt. of Bihar on 05.01.2011 and further reconfirmed on 09.01.2018.		2013-14	46.68
			2014-15	15.18
			2015-16	378.08
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.		2016-17	23.96
			2017-18	21.73
			2018-19	68.21
START UP POWER AGREEMENT	Start up power will be arranged through South Bihar Power Distribution company Ltd. (SBPDCL).		2019-20	344.50
			2020-21	1100.05
			2021-22	2691.06
POWER EVACUATION SYSTEM	Tx Line Developer	BSPTCL, Govt. of Bihar	2022-23	2581.36
	Tx Line Name Tx Voltage Level	i) Buxar TPS- Naubatpur 400 KV, D/C	EXPENDITURE OF MAY'2023	159.50
		ii) Buxar TPS- Dumraon (New) 220 KV, D/C	TOTAL EXPENDITURE (upto 31.05.2023)	7757.55
		iii) Buxar TPS- Karmnasa (New) 220 KV, D/C		
	iv) Buxar TPS- Dehri 220 KV, D/C			
	Configuration of Tx Line (S/C or D/C)			D/C
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.			
WATER ALLOCATION	MoU for utilization of 55 cusec of water signed between STPL and Water Resource Deptt., Govt. of Bihar on 29.08.2016.			
MOEF CLEARANCE	Accorded by MOEF&CC on 28.02.2017.(Validity- 27.02.2024)			
CIVIL AVIATION CLEARANCE	Accorded by Airport Authority of India on 12.04.2017 (Fresh NOC issued on 18.11.2018). (Validity-17.11.2028)			
CPCB CLEARANCE	NOT APPLICABLE			
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.JUL.23
6	TG ERECTION START	21.SEP.21	21.SEP.22	20.JAN.22	15.AUG.23
7	HP PIPING ERECTION START	16.OCT.21	02.MAY.22	15.FEB.22	15.JUL.23
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	20.APR.22	15.JUN.23	21.AUG.22	30.SEP.23
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	NA		NA	
10	TG BOX UP	21.AUG.22	22.SEP.23	20.DEC.22	21.JAN.24
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.SEP.23	27.DEC.22	22.JAN.24
13	BOILER LIGHT UP	21.OCT.22	20.OCT.23	21.FEB.23	05.NOV.23
14	CHEMICAL CLEANING COMPLETION	15.OCT.22	25.OCT.23	15.FEB.23	10.DEC.23
15	STEAM BLOWING START	01.NOV.22	25.NOV.23	04.MAR.23	21.DEC.23
16	STEAM BLOWING COMPLETION	18.DEC.22	15.NOV.23	20.APR.23	10.JAN.23
17	ROLLING & SYNC.	20.FEB.23	30 DEC.23	21.JUN.23	05.FEB.24
18	FULL LOAD	21.MAR.23	10. DEC.23	21.JUL.23	15.MAR.24
19	TRIAL RUN	21.May.23	25.DEC.23	21.Sep.23	01.MAR.24
20	COD	07.JUL.23	31.Jan.24	07.JAN.24	01.Apr.24

STATUS OF MAIN PLANT PACKAGE (BTG) : M/s L&T ltd							
Sl.	Packages	AREA	UNIT-01		UNIT-02		
			% Completion	% Completion			
1	BOILER	CIVIL	95.75%	86.70%			
		STRUCTURE	92.45%	81.56%			
		PRESSURE PARTS	98.43%	38.57%			
2	TG	CIVIL	94.15%	73.82%			
		STRUCTURE	97.23%	75.13%			
		TG ERECTION	-	-			
3	ESP	UNDER PROGRESS	83.29%	65.16%			
4	FGD	CIVIL WORK	61.83%	51.37%			
		MATERIAL SUPPLY	79.75%	76.83%			
		ERECTION WORK	8.26%	0 %			
STATUS OF BOPs							
Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC- L&T)	Date of Award	Scheduled Date of Completion	Anticipated /Actual Date of Completion	UNIT-01 % Completion	UNIT-02 % Completion
1	Chimney	L&T Limited (EPC)	22.JUN.19	28.JUN.23	30.SEP.23	68.12%	
2	Coal Handling Plant	L&T (Conveyor pkg)	22.JUN.19	19.NOV.22	30.AUG.23	59.75%	
		L&T (Wagon tipler)	22.JUN.19	21.NOV.22	21.SEP.23	62.35%	
		L&T/ Thyssenkrup (Stacker reclaimr)	22.JUN.19	23.OCT.22	15.OCT.23	64.56%	
3	Ash Handling Plant	L&T /Macawber Beekay Pvt Ltd	22.JUN.19	19.JUL.23	30.SEP.23	63.85%	
4	Fuel Oil System	L&T/ Shalkoot Mechanique Pvt. Ltd	22.JUN.19	31.AUG.22	30.SEP.23	60.56%	
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.SEP.23 II-30.SEP.23	I-72.98% II-38.16%	
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-76.46% II-42.61%	
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.SEP.23 II-05.NOV.23	I-86.43% II-49.42%	
8	DM Plant	L&T/ Driplex Water Engineering Pvt Ltd	22.JUN.19	21.JUN.23	21.JUL.23	92.98%	
9	Compressed Air System	L&T / L&T-MHPS Boilers Pvt. Ltd	22.JUN.19	20.OCT.22	30.SEP.23	71.13%	
10	Fire Protection System	L&T/ Flowmore Limited	22.JUN.19	10.JUL.23	10.AUG.23	57.61%	
11	Switch Yard	L&T/ ABB Power Products & Systems India Ltd	22.JUN.19	21.NOV.22	15.JUL.23	85.31%	
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.JUN.23 II-31.JUL.23	I-85.43% II-73.57%	
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.AUG.23 II-29.NOV.23	I-43.45% II-25.61%	
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	31.JUL.23	98.16%	

CRITICAL ISSUES

- Slow work progress is BoP areas i.e. AHP, CHP, CWPH, WPT Plant, Railway siding & Chimney.
- Problem in land acquisition for railway siding and water intake pipeline corridor.
- Alternate arrangement for Coal transportation in progress. For Water supply arrangement is being explored.
- Deployment of CISF needed for smooth construction works at project site.

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.; Agitation by locals on 10.01.2023 and unrest activity on 11.01.2023.

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.; Agitation by locals on 10.01.2023 and unrest activity on 11.01.2023.

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

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

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	Sep-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	11705.90
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
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		2015-16	7.24
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		2016-17	423.77
			2017-18	277.83
START UP POWER AGREEMENT	Start up power from UPPTCL		2018-19	855.90
POWER EVACUATION SYSTEM	Tx Line Developer	UPPTCL	2019-20	2175.96
	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).	2020-21	1220.62
	Configuration of Tx Line (S/C or D/C)		2021-22	1826.42
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.		2022-23	1460.40
			EXPENDITURE OF MAY'2023	112.46
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.		TOTAL EXPENDITURE (upto 31.05.2023)	8913.14
MOEF CLEARANCE	Clearance obtained date 21.06.2016			
CIVIL AVIATION CLEARANCE	Clearance obtained date : 12.07.2016 Valid upto 21.07.2021			
CPCB CLEARANCE	Not Applicable			
SPCB CLEARANCE	Not Applicable			
FOREST CLEARANCE	Wild life Clearance obtained date 07.06.2016			

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	June-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	31-Jun-23
12	START OF OILFLUSHING	23-Feb-20	10-Mar-22	21-Jun-20	Jun-23
13	BOILER LIGHT UP	21-Apr-20	26-Apr-22	19-Aug-20	Jul'23
14	CHEMICAL CLEANING COMPLETION	25-Mar-20	16-Mar-22	25-Jul-20	02-Jun-23
15	STEAM BLOWING START	22-May-20	07-Nov-22	19-Sep-20	03-Jun-23
16	STEAM BLOWING COMPLETION	22-Jun-20	09-Dec-22	19-Oct-20	02-Oct-23
17	ROLLING & SYNC.	30-Jul-20	20-Apr-23	27-Nov-20	27-Oct-23
18	FULL LOAD	1-Sep-20	22-Aug-23	31-Dec-20	22-Nov-23
19	TRIAL RUN	21-Dec-20	25-Sep-23	21-Apr-21	01-Jan-24
20	COD	21-Dec-20	30-Sep-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	97.60%	78.85%			
		STRUCTURE					
		PRESSURE PARTS					
2	TG	CIVIL	98.01%	58.16%			
		STRUCTURE					
		PRESSURE PARTS					
3	ESP	PASS STATUS	97.74%	56.30%			
4	FGD	CIVIL WORK	95.15%	70.81%			
		MATERIAL SUPPLY	94%	65.5%			
		ERECTION WORK	35.54%	13.16%			
STATUS OF BOPs (DPSI-EPC)							
Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC- DPSI	Date of Award	Scheduled Date of Completion	Anticipated/ Actual Date of Completion	UNIT-01 % Completion	UNIT-02 % Completion
1	Chimney	M/s.Simplex	27.11.2018	01.12.2019	05.07.2023	99.37%	
2	Coal Handling Plant	KCC (Conveyor package)		19.05.2020	19.07.2023	71.20%	
		Aneja (Wagon Tripler)	23.11.2018	23.02.2020	07.10.2023	75.45%	
		Aneja (Stacker Reclaimer)	02.05.2018	05.04.2020	24.06.2023	79.49%	
3	Ash Handling Plant	AKC, PNC	09.04.2018	29.06.2020	31.12.2023	58.56%	
4	Fuel Oil System	AKC, Sangha, Singrauli, Jiwala	30.11.2018	04.05.2020	17.06.2023	95.56%	
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)	21.06.2023 30.08.2023	75.49%	63.86%
6	CW Pump house	GDCL	06.06.2018	05.07.2020	02.06.2023	98.94%	
7	WPT Plant	Rajpati Vishwakarma, Sahil Kumar, KNIL, IEIL	20.11.2018	13.09.2020	16.03.2023	97.38%	
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	10.06.2023	96.37%	
10	Fire Protection System	Lloyd	08.04.2019	17.10.2019	23.06.2023	53.99%	
11	Switch Yard	KNIL , GDCL, GET&D	01.08.2018	30.01.2020	02.04.2023	95.04%	
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	98.67%	
14	Railway Siding	DPSI	Civil Works:- 24.08.2019	Civil Works:- 23.02.2020	Civil Works:- 23.06.2023 S&T Works:- 21.11.2023 OHE works:- Aug-2023(Tentative)	79%	
15	Power Evacuation Lines	GET&D	08.11.2017	24.07.2020	12.04.2023	100%	

CRITICAL ISSUES

- Slow work progress in AHP/CHP/CT/Fire protection areas and Railway siding.
- Delay in supply of material in AHP.

REASONS OF DELAY

- COVID-19 I & II wave.
- Steel Price Hike, Dispute between main contractor M/s DPSI and its sub-vendors,

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

Jawaharpur STPS, Malawan, Distt.-Etah, U.P. – 207 001

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	Sep-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	8078.56
COAL COMBUSTION TECHNOLOGY	Ultra Super Critical		LATEST ESTIMATED COST	12320.00
APPROVAL DATE / NTP	Approval of DPR and Initial project cost by U. P. Government of DPRVide 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)		2022-23	1782.72
LAND POSSESSION	765 Acre land for Power House under Possession		EXPENDITURE OF MAY'2023	168.87
WATER ALLOCATION	Lower Ganga Canal - 38 cusec		TOTAL EXPENDITURE (upto 31.05.2023)	10414.47
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	01.07.2023
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	31.06.2023
13	BOILER LIGHT UP	26.04.2020	27.05.2022	23.08.2020	28.06.2023
14	CHEMICAL CLEANING COMPLETION	15.03.2020	03.05.2022	13.07.2020	29.08.2023
15	STEAM BLOWING START	26.05.2020	27.09.2022	21.09.2020	01.07.2023
16	STEAM BLOWING COMPLETION	21.06.2020	02.12.2022	21.10.2020	27.08.2023
17	ROLLING & SYNC.	21.08.2020	29.04.2023	21.12.2020	13.11.2023
18	FULL LOAD	01.09.2020	08.08.2023	01.01.2021	22.11.2023
19	TRIAL RUN	20.12.2020	30.09.2023	20.04.2021	30.01.2024
20	COD	21.12.2020	30.09.2023	21.04.2021	30.01.2024

STATUS OF MAIN PLANT PACKAGE (BTG) : M/S DPSI							
Sl.	Packages	AREA	UNIT-01		UNIT-02		
			% Completion	% Completion			
1	BOILER	CIVIL	100 %	100%			
		STRUCTURE	97.04 %	90.77%			
		PRESSURE PARTS	100%	100 %			
2	TG	CIVIL	100 %	99.10%			
		STRUCTURE	99.71 %	97.08%			
3	ESP	STRUCTURE	95.87%	47.55%			
4	FGD	CIVIL WORK	100%	100 %			
		MATERIAL SUPPLY	100%	96.47%			
		ERECTION WORK	95.87%	28.48%			
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 % Completion	UNIT-02 % Completion
1	Chimney	Simplex	16.03.2017	05.11.2019	10.08.2023	79.98%	
2	Coal Handling Plant	tkII/ NeoStructo(Conveyor package)	10.10.2017	23.04.2020	30.07.2023	93.56%	
		tkII/ NeoStructo (Wagon Tripler)	10.10.2017	24.12.2019	23.09.2023	97.63%	
		tkII/ NeoStructo (Stacker Reclaimer)	10.10.2017	15.09.2019	10.07.2023	98.14%	
3	Ash Handling Plant	Main vendor/subcontractor	30.12.2016	26.09.2020	19.02.2024	76.41%	
4	Fuel Oil System	Main vendor/	21.02.2017	10.04.2020	08.07.2023	88.32% (Piping#2)	
5	Cooling Towers	Paharpur	05.03.2018, 10.09.2018	26.11.2019, 27.03.2020	27.06.2023, 22.10.2023	97.26%	87.03%
6	CW Pump house	DPSI/ Jyoti	10.01.2017	05.12.2019	01.07.2023	97.03%	
7	WPT Plant	Civil : Tecknow	14.10.2018	06.09.2019	06.07.2023	97.19%	
8	DM Plant	EPC : Ion Exchange	21.08.2019	16.11.2019	28.06.2023	99.56%	
9	Compressed Air System	Atlas / Jyoti	13.03.2017	19.05.2020	30.07.2023	77.75%	
10	Fire Protection System	Lloyd	17.02.2017	05.04.2020	28.06.2023	98.38%	
11	Switch Yard	GE T&D	17.01.2017	26.03.2020	21.11.2023	96.32%	
12	Station Transformers	Zagson	31.01.2019	03.09.2019	24.07.2023	79.53%	
13	Unit Transformers	Zagson	16.08.2019	23.09.2019	09.09.2023	44.56%	
14	Railway Siding				-	Civil work 65%	
15	Power Evacuation Lines	DPSI		21.08.2020	29.04.2023	100 %	100 %

CRITICAL ISSUES

- Delay in completion of Rail Network for Coal transportation.
- Inadequate manpower by DPSI.
- Dispute between Main contractor M/s DPSI and their sub-vendors.
- Non-sequential supply of material in AHP.

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, U. P., Pincode-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		Mar-2024
CLEARANCES AND STATIC DATA			FINANCIAL DATA (Fig. in Rs. Crore)		
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		YEAR WISE EXPENDITURE		
PPA	Signed on 17.01.2017				
COAL LINKAGE/FSA	Allocated Mine - Saharpur Jamarpani mines, Jharkhand; Distance from mine - 896 km (non pithead). Expected grade of coal is G-10.		2018-19		543.29
	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)	2022-23		1243.57
	Configuration of Tx Line (S/C or D/C)		EXPENDITURE OF MAY'2023		31.85
LAND POSSESSION	It is extension project. Hence Land is available		TOTAL EXPENDITURE (upto 31.05.2023)		4861.23
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	20.06.2023
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	25.06.2023
14	CHEMICAL CLEANING COMPLETION	10.03.2021	15.06.2023
15	STEAM BLOWING START	09.04.2021	15.07.2023
16	STEAM BLOWING COMPLETION	30.04.2021	14.08.2023
17	ROLLING & SYNC.	31.05.2021	31.01.2024
18	FULL LOAD	30.06.2021	28.02.2024
19	TRIAL RUN	30.09.2021	31.03.2024
20	COD	30.09.2021	31.03.2024

STATUS OF MAIN PLANT PACKAGE (BTG) : M/s BHEL						
Sl.	Packages	AREA	UNIT-01			
			% Completion			
1	BOILER	CIVIL	85.00%			
		STRUCTURE WORKS	80.00%			
		PRESSURE PARTS	96.00%			
2	TG	CIVIL	78.00%			
		STRUCTURE WORKS	80.00%			
		TG AUX	65.00%			
3	ESP	PASS STATUS	92.83%			
4	FGD	CIVIL WORK	44.00%			
		MATERIAL SUPPLY	53.00%			
		ERECTION WORK	12.00%			
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	30.06.2023	99.69%
2	Coal Handling Plant	Thyseen Krupp & RVPR (Conveyor Package)		19.05.2020	31.07.2023	66.10%
		Thyseen Krupp & Kanwar (Wagon Tripler)	23.11.2018	23.02.2020	30.06.2023	75%(RCC)
		Thyseen Krupp & Kanwar (Stacker Reclaimer)	02.05.2018	05.04.2020	30.06.2023	10%(Mechanical Works)
3	Ash Handling Plant	Indure/ Kanwar	09.04.2018	29.06.2020	30.06.2023	41%
4	Fuel Oil System	GMW/ Simplex	30.11.2018	04.05.2020	30.06.2023	63%
5	Cooling Towers	Paharpur	01.08.2018, 14.12.2018	25.11.2019, 26.03.2020	30.06.2023	88%
6	CW Pump house	MHI/ Simplex	06.06.2018	05.07.2020	30.06.2023	70%
7	WPT Plant	GDCL	20.11.2018	13.09.2020	30.06.2023	67%
8	DM Plant	BGR & Simplex	03.10.2018	04.11.2019	31.06.2023	54%
9	Compressed Air System	ATLAS COPCO	23.11.2018	04.05.2020	30.06.2023	82%
10	Fire Protection System	BHEL	08.04.2019	17.10.2019	30.06.2023	39%
11	Switch Yard	JSPPL	01.08.2018	30.01.2020	15.06.2023	99%
12	Station Transformers	BHEL	10.11.2018	27.09.2019	15.06.2023	100%
13	Unit Transformers	BHEL	10.03.2019	06.02.2020	30.06.2023	60%
14	Railway Siding	BITES			30.06.2023	77.50%
15	Power Evacuation Lines	UPPTCL	08.11.2017	24.07.2020	Jun-2023	78%

CRITICAL ISSUES

- Slow progress in AHP, FOPH, Fire protection, DM Water Plant, WPT Plant and Wagon Tippler 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, Distt.- Jalgaon, Maharashtra, Pincode-425307

E-Gen Portal Registration No. (U#1 - 1200002450)

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		Oct-2023	
CLEARANCES AND STATIC DATA				FINANCIAL DATA (Fig. in Rs. Crore)		
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)		YEAR WISE EXPENDITURE		
PPA		Long Term Power Purchase Agreement dated 24.12.2010 with Maharashtra state Electricity Distribution Co. ltd for 100% of installed capacity				
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.		2018-19		51.21
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.		2019-20		564.66
				2020-21		889.57
				2021-22		1261.79
				2022-23		616.04
				EXPENDITURE OF MAY'2023		44.62
POWER EVACUATION SYSTEM		Tx Line Developer	MSETCL	TOTAL EXPENDITURE (upto 31.05.2023)		3434.64
		Tx Line Name Tx Voltage Level	LILOing of Bhusawal-II - Aurangabad I, 400 KV, D/C line at Thaptitanda			
		Configuration of Tx Line (S/C or D/C)				
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)				STATUS OF MAIN PLANT PACKAGE (BTG) : M/S BHEL		
Sl.	MILESTONE	UNIT-01		Sl.	Packages	AREA
		Original Date of Completion	Anticipated / Actual Date of Completion			UNIT-01 % Completion
1	COMPLETION OF BOILER FOUNDATION	25.11.2019	15.11.2019	1	BOILER	CIVIL
2	START OF BOILER ERECTION	30.11.2019	22.11.2019			STRUCTURE WORKS
3	BOILER DRUM LIFTING (if sub-critical unit)	NA	NA			PRESSURE PARTS
4	BOILER CEILING GIRDER LIFTING COMPLETION	30.06.2020	20.01.2021	2	TG	CIVIL
5	CONDENSER ERECTION START	31.10.2020	30.03.2022			STRUCTURE WORKS
6	TG ERECTION START	30.11.2020	03.03.2022			PRESSURE PARTS
7	HP PIPING ERECTION START	11.05.2021	22.03.2021	3	ESP	PASS STATUS
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	31.05.2021	04.11.2022	4	FGD	CIVIL WORK
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	10.11.2021	Mar,2023			MATERIAL SUPPLY
10	TG BOX UP	30.11.2021	10.04.2023			ERECTION WORK
11	HP PIPING ERECTION COMPLETION	25.04.2022	Jun,2023	STATUS OF BOPs		
12	START OF OILFLUSHING	04.12.2021	Mar,2023	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC- BHEL)
13	BOILER LIGHT UP	30.11.2021	Mar,2023			Date of Award
14	CHEMICAL CLEANING COMPLETION	20.12.2021	Jun,2023			Scheduled Date of Completion
15	STEAM BLOWING START	24.01.2022	Jun,2023	1	Chimney	M/s Powermech
16	STEAM BLOWING COMPLETION	19.02.2022	Aug- 2023			Anticipated/Actual Date of Completion
17	ROLLING & SYNC.	31.03.2022	Aug-2023	2	Coal Handling Plant	M/s BJCL & Macawber Beekay Pvt Ltd.(Conveyor package
18	FULL LOAD	30.04.2022	Aug-,2023			M/s BJCL& Promac (Wagon tippler)
19	TRIAL RUN	31.05.2022	Oct-2023			24.08.2019, 28.05.2019
20	COD	31.05.2022	Oct-2023	3	Ash Handling Plant	M/s BJCL & Macawber Beekay Pvt Ltd.
						24.08.2019, 23.12.2021
				4	Fuel Oil System	M/s. New Fire Engineers Pvt Ltd.
						19.09.2019
				5	Cooling Towers	M/s Hayagrev civil engineering Pvt Ltd
						1.11.2019, 05.03.2022
				6	CW Pump house	M/s Alpha power engineering services Pvt Ltd,G&J Pvt Ltd.
						29.01.2019
				7	WPT Plant	M/s Clear Water company
						17.02.2020
				8	DM Plant	M/s Wipro Enterprises Pvt Ltd
						14.01.2020
				9	Compressed Air System	M/s Elgi equipment Ltd.
						24.08.2020
				10	Fire Protection System	M/s Alpha power engineering services Pvt Ltd
						29.01.2021
				11	Switch Yard	M/s BNC Power Projects Ltd
						15.02.2021
				12	Station Transformers	M/s BHEL
						17.01.2018
				13	Unit Transformers	M/s BHEL
						17.01.2018
				14	Railway Siding	ISC Projects
						02.01.2021
				15	Power Evacuation Lines	MSETCL/BNC Power Projects
						15.02.2021

CRITICAL ISSUES

- i) Slow progress in AHP, CHP, WPT Plant
- ii) Slow progress in fire protection system.
- iii) Delay in supply of materials i.e. Borosilicate liner
- iv) Slow progress of FGD works.

REASONS OF DELAY

Due to Covid-19 pandemic.

Dr. NARLA TATA RAO TPS, St-V, Unit# 8 (1x 800 MW) / APGENCO (STATE SECTOR - SOUTHERN REGION)

Ibrahimpattam (Village & Mandalam), Distt.-Krishna (Andhra Pradesh), Pincode: 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#8	Dec-2015	Apr-2019	Jul-2023		
CLEARANCES AND STATIC DATA			FINANCIAL DATA (Fig. in Rs. Crore)		
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)				
PPA	PPA is available with DISCOMS of erstwhile APGENCO in combined AP. The same is being revised with APDISCOMS				
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				
START UP POWER AGREEMENT	Not Applicable				
POWER EVACUATION SYSTEM	Tx Line Developer				
	Tx Line Name Tx Voltage Level	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).			
	Configuration of Tx Line (S/C or D/C)				
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. NTPPS Project.				
WATER ALLOCATION	Irrigation department vide letter dt:05.03.2015 agreed to supply 25 Cusecs water from Krishna river upstream of Prakasam barrage, Vijayawada.				
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.				
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# 8 (1x 800 MW) / APGENCO (STATE SECTOR - SOUTHERN REGION)

UNIT WISE MILESTONES (ANTICIPATED / ACTUAL)			
Sl.	MILESTONE	UNIT-08	
		Original Date of Completion	Anticipated / Actual Date of Completion
1	COMPLETION OF BOILER FOUNDATION	15.11.2016	20.06.2017
2	START OF BOILER ERECTION	25.10.2016	22.05.2017
3	BOILER DRUM LIFTING (if sub-critical unit)	NA	NA
4	BOILER CEILING GIRDER LIFTING COMPLETION	06.04.2017	27.12.2017
5	CONDENSER ERECTION START	23.09.2017	22.08.2018
6	TG ERECTION START	05.12.2018	03.02.2021
7	HP PIPING ERECTION START	19.12.2018	10.01.2019
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	27.03.2018	03.03.2019
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	16.11.2018	24.10.2019
10	TG BOX UP	24.08.2019	13.06.2021
11	HP PIPING ERECTION COMPLETION	11.02.2019	15.07.2021
12	START OF OIL FLUSHING	17.06.2020	18.12.2020
13	BOILER LIGHT UP	15.05.2019	28.12.2019
14	CHEMICAL CLEANING COMPLETION	12.12.2018	12.03.2020
15	STEAM BLOWING START	27.12.2019	05.04.2021
16	STEAM BLOWING COMPLETION	09.02.2019	01.06.2021
17	ROLLING & SYNC.	22.02.2021	07.12.2021
18	FULL LOAD	30.04.2019	15.07.2023
19	TRIAL RUN	20.04.2019	31.07.2023
20	COD	14.06.2019	31.07.2023

STATUS OF MAIN PLANT PACKAGE (BTG) : M/S BHEL						
Sl.	Packages	AREA	UNIT-08			
			% Completion			
1	BOILER	CIVIL	97.30%			
		STRUCTURE	89.00%			
		PRESSURE PARTS				
2	TG	CIVIL	89.20%			
		STRUCTURE	95.23%			
		PRESSURE PARTS	97.00%			
3	ESP	PASS STATUS	98.00%			
4	FGD	CIVIL WORK	Price bid is opened, bid evaluation is under progress.			
		MATERIAL SUPPLY				
		ERECTION WORK				
STATUS OF BOPs						
Sl.	Packages/ Linked ProjectMilestones	Vendor/Contracting Agency	Date of Award	Scheduled Date of Completion	Anticipated/Actual Date of Completion	UNIT-01 % Completion
1	Chimney	M/s BGRESL	16.05.2017	11.05.2019	Major works completed.	97%
2	Coal HandlingPlant	M/s BGRESL (Conveyor package)	16.09.2016	30.03.2019	15.06.2023	50%
		M/s BGRESL (Wagon Tripler)	30.05.2018	30.01.2019	15.06.2023	80%
		M/s BGRESL (Stacker Reclaimer)	01.05.2018	30.06.2018	15.06.2023	45%
3	Ash Handling Plant	M/s BGRESL	24.10.2016	01.05.2019	15.06.2023	39%
4	Fuel Oil System	M/s BGRESL	18.02.2017	08.11.2018	05.03.2021	100%
5	Cooling Towers	M/s BGRESL	17.01.2017	16.05.2019	Major works completed. Charged on 11.9.2021.	85%
6	CW Pump house	M/s BGRESL	02.03.2017	20.05.2019	15.06.2023	95%
7	WPT Plant	M/s BGRESL	02.11.2016	15.12.2018	15.06.2023	80%
8	DM Plant	M/s BGRESL	02.11.2016	15.12.2018	15.06.2023	95%
9	Compressed Air System	M/s BGRESL	21.02.2017	23.06.2018	15.06.2023	90%
10	Fire Protection System	M/s BGRESL	15.02.2017	06.04.2019	15.06.2023	70%
11	Switch Yard	M/s BGRESL / M/s Sri Sai Contractors	16.09.2017	30.03.2018	15.06.2023	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	15.06.2023	90%
14	Railway Siding	M/s BGRESL	01.06.2019	31.10.2021	15.06.2023	30%
15	Power Evacuation Lines	Unit-8 Switchyard is extended from existing switchyard of Unit-7 and Power evacuation is proposed through lines onthe existing switchyard.				

CRITICAL ISSUES

- Poor work progress in AHP, CHP, Railway Siding, 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
- Inadequate 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, D/C line; ii) YTPS-Choutuppal,400 KV, D/C line; iii) YTPS-Damarcherla, 400 KV, D/C line; iv) YTPS-Janagaon, 400 KV, D/C line.	2019-20	2935.56
	Configuration of Tx Line (S/C or D/C)		2020-21	4427.54
			2021-22	3582.33
LAND POSSESSION	(Details about land area still to be acquired). Ac.5459.39 Gts		2022-23	5703.27
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 MAY’2023	239.84
MOEF CLEARANCE	EC obtained from MoEF&CC vide Lr.No.J-13012/18/2015-IA.I(T), Dt.29- 06-2017 with a validity of 7 years from the date of issue of MoEF clearance(i.e upto 29.06.2024)		TOTAL EXPENDITURE (upto 31.05.2023)	21179.67
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 lr.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,dt.30-07-2015 by EFS & T (For) Department.			

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

STATUS OF BTG WORKS												
Sl.	Packages	AREA	UNIT-01		UNIT-02		UNIT-03		UNIT-04		UNIT-05	
			% Completion		% Completion		% Completion		% Completion		% Completion	
1	BOILER	CIVIL	100.00%		100.00%		100.00%		100.00%		100.00%	
		STRUCTURE	76.06%		84.09%		69.73%		77.55%		68.51%	
		PRESSURE PARTS	91.78%		95.88%		68.59%		93.09%		78.49%	
2	TG	CIVIL	98.5%		98.00%		97.00%		97.00%		96.00%	
		STRUCTURE	99.63%		97.73%		92.97%		93.54%		83.62%	
		TG ERECTION	85.50%		85.50%		62.50%		69.50%		65.50%	
3	ESP	UNDER PROGRESS	99.79%		99.47%		98.87%		99.78%		90.97%	
4	FGD	CIVIL WORK	10.00		10.00		10.00		10.00		10.00	
		MATERIAL SUPPLY	5.00		5.00		5.00		5.00		5.00	
		ERECTION WORK	0.00		0.00		0.00		0.00		0.00	
UNIT WISE MILESTONES (ANTICIPATED / ACTUAL)												
Sl.	MILESTONE		UNIT-01		UNIT-02		UNIT-03		UNIT-04		UNIT-05	
			Original Date	Actual / Anticipated Date	Original Date	Actual / Anticipated Date	Original Date	Actual / Anticipated Date	Original Date	Actual / Anticipated Date	Original Date	Actual / Anticipated Date
1	COMPLETION OF BOILER FOUNDATION		08.01.20	08.01.20	29.12.19	29.12.19	11.02.20	11.02.20	16.02.20	16.02.20	23.03.20	23.03.20
2	START OF BOILER ERECTION		18.02.20	18.02.20	30.07.20	30.07.20	18.03.20	18.03.20	30.07.20	30.07.20	14.08.20	14.08.20
3	BOILER DRUM LIFTING (if sub-critical unit)		NA		NA		NA		NA		NA	
4	BOILER CEILING GIRDER LIFTING COMPLETION		31.01.21-	20.03.21	31.03.21	31.03.21	11.04.21	11.04.21	09.06.21	09.06.21	07.09.21	07.09.21
5	CONDENSER ERECTION START		31.03.21	20.10.21	31.05.21	03.01.22	30.05.21	13.12.22	31.07.21	24.10.22	15.10.21	09.10.22
6	TG ERECTION START		03.05.21	20.12.21	30.06.21	31.01.22	31.08.21	21.12.22	30.10.21	25.10.22	30.11.21	20.10.22
7	HP PIPING ERECTION START		01.04.21	16.09.21	01.05.21	01.01.22	01.06.21	15.07.22	01.07.21	31.07.22	01.08.21	31.07.22
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION		31.01.22	31.07.22	31.03.22	21.06.22	31.05.22	26.06.23	31.07.22	15.09.22	30.09.22	26.06.23
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION		15.07.22	15.03.23	15.09.22	15.02.23	15.11.22	01.08.23	15.01.23	10.07.23	15.03.23	15.08.23
10	TG BOX UP		31.05.22	30.03.23	31.07.22	05.02.23	31.08.22	30.01.24	30.10.22	31.12.23	30.11.22	31.12.23
11	HP PIPING ERECTION COMPLETION		13.10.22	30.07.23	13.11.22	30.07.23	13.12.22	30.11.23	13.01.23	15.12.23	13.02.23	15.12.23
12	START OF OIL FLUSHING		30.04.22	09.06.23	31.05.22	23.03.23	31.07.22	28.02.24	30.09.22	31.01.24	30.10.22	31.01.24
13	BOILER LIGHT UP		31.07.22	30.06.23	30.09.22	30.06.23	30.11.22	15.08.23	31.01.23	01.08.23	31.03.23	15.10.23
14	CHEMICAL CLEANING COMPLETION		05.09.22	05.08.23	29.09.22	01.08.23	29.10.22	30.09.23	29.11.22	30.08.23	29.12.22	30.11.23
15	STEAM BLOWING START		14.09.22	14.08.23	14.10.22	10.08.23	14.11.22	15.10.23	14.12.22	15.09.23	14.01.23	01.12.23
16	STEAM BLOWING COMPLETION		14.10.22	30.08.23	14.11.22	30.08.23	14.12.22	15.11.23	14.01.23	15.10.23	14.02.23	01.01.24
17	ROLLING & SYNC.		30.10.22	30.08.23	31.12.22	30.08.23	31.01.23	30.06.24	31.03.23	31.05.24	30.06.23	28.08.24
18	FULL LOAD		12.02.23	15.09.23	15.03.23	15.09.23	15.04.23	01.07.24	15.05.23	15.06.24	15.06.23	01.10.24
19	TRIAL RUN		Feb'23	Dec-23	Mar'23	Dec-23	Apr'23	Sep-24	May'23	Aug-24	Jun'23	Nov-24
20	COD											

YADADRI TPS, Unit# 1, 2, 3, 4 & 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 24.02.20 12.02.20	31.07.22	30.07.23 30.09.23 31.12.23	Shell Concreting-100%		Shell Concreting-100%		SC-100%
						Flue can Erection 100%		Flue can Erection 99.31%		FCE-100%
2	Coal Handling Plant (Civil)	Powermech (Conveyor package)	09.08.20	31.12.22	30.10.23	66.75%				
		Powermech (Wagon tripler)	10.12.20	30.06.23	31.03.24	96.00%				
		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	46.94%				
4	Fuel Oil System	BHEL/Thermosystems	19.02.21	31.07.22	30.06.23	83.50%				
5	Cooling Towers	BHEL/NBCC for Unit #1 (Now M/s Paharpur) BHEL/Gammon for Unit#2 BHEL/NBCC for Unit#3 BHEL/Gammon for Unit#4 BHEL/NBCC for Unit#5	09.01.21 18.12.20 06.02.21 25.02.21 18.03.21	30.10.22 28.02.23 31.03.23 30.04.23 31.05.23	31.08.23 31.08.23 31.12.23 31.12.23 31.12.23	14.30%	14.49%	11.76%	10.38%	8.79%
6	CW Pump house	CW pump house & channel - BHEL/HES			30.07.23	98.91%	98.91%	57.02%	57.02%	57.02%
7	WPT Plant	BHEL/SCC	03.02.21	31.01.22	31.08.23	64.56%				
8	DM Plant	BHEL/SCC	01.10.20	31.01.22	30.06.23	97.67%				
9	Compressed Air System	BHEL/HES	12.02.21	31.05.22	31.12.22	99.17%				
10	Fire Protection System	BHEL	-	31.07.22	31.08.23	6%				
11	Switch Yard	BHEL/Bluechip	13.02.21	31.07.22	31.08.23	93.66%				
12	Generator Transformers	BHEL/EIPL for Unit-1 BHEL/KEPL for Unit-2	14.12.19 17.10.20	30.10.22 31.12.22	30.06.23 30.06.23	98.5%	97%	98.5%	97%	90%
13	Station Transformers	BHEL/EIPL for Unit-3 BHEL/KEPL for Unit-4	26.10.19 22.10.19	31.01.23 31.03.23	30.06.23 30.07.23					
14	Unit Transformers	BHEL/KEPL for Unit-5	18.12.19	31.05.23	30.08.23					
15	Railway Siding	Work in progress		06.12.23	06.12.23	35%				
16	Power Evacuation Lines	TS TRANSCO/MEIL	06.08.20	24.02.22	06.02.23	87%				

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).
- 3) Environmental Clearance

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)-560 064

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	Sep.-2023		
CLEARANCES AND STATIC DATA			FINANCIAL DATA (Fig. in Rs. Crore)		
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		YEAR WISE EXPENDITURE		
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
			2021-22		263.80
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.		2022-23		167.74
WATER ALLOCATION	15 MLD Tertiary treated plant at JAKKUR is supplying water to YCCP Plant		EXPENDITURE OF May’2023		1.78
MOEF CLEARANCE	Approval No : State Level environment impact assessment authority(SEIAA) no SEIAA20IND 2014 DATED 1/9/2015		TOTAL EXPENDITURE (upto 31.05.2023)		2312.74
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)				STATUS OF MAIN PLANT PACKAGE (BTG) : (BHEL-BTG VENDOR)							
Sl.	MILESTONE		UNIT-01 (GT+ST)		Sl.	Packages	AREA	UNIT-01 (GT+ST)			
			Original Date of Completion	Anticipated / Actual Date of Completion				% Completion			
1	COMPLETION OF BOILER FOUNDATION		30.06.2016	14.11.2016	1	BOILER	CIVIL	100%			
2	START OF BOILER ERECTION		01.07.2016	09.11.2016			STRUCTURE	99%			
							PRESSURE PARTS	99%			
3	BOILER DRUM LIFTING (if sub-critical unit)		10.03.2017	07.04.2017	2	Gas T/ TG	CIVIL	100%			
							STRUCTURE	99%			
							TG ERECTION	99%			
4	BOILER CEILING GIRDER LIFTING COMPLETION		30.11.2016	21.12.2016	3	ESP	Not Applicable		Not Applicable		
5	CONDENSER ERECTION START		14.08.2017	Nov-17	4	FGD	CIVIL WORK	Not Applicable			
							MATERIAL SUPPLY				
							ERECTION WORK				
6	TG ERECTION START		-	-	STATUS OF BOPs						
7	HP PIPING ERECTION START	-	-	Sep-17	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
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION		30.06.2017	27.11.2017	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%
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION		30.06.2017	27.11.2017	2	Coal Handling Plant	NA	NA	NA	NA	NA
10	TG BOX UP	ST	30.09.2017	Feb, 2021	3	Ash Handling Plant	NA	NA	NA	NA	NA
		GT	30.09.2017	Sept, 2021	4	Fuel Oil System	NA	NA	NA	NA	NA
11	HP PIPING ERECTION COMPLETION		-	Nov-21	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%
12	START OF OILFLUSHING	ST	30.09.2017	Dec, 2020	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%
		GT	09.10.2017	29.08.2018	7	WPT Plant	NA	NA	NA	NA	NA
13	BOILER LIGHT UP		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%
14	CHEMICAL CLEANING COMPLETION		02.11.2017	Aug'23	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%
15	STEAM BLOWING START		01.12.2017	Aug.23	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%
16	STEAM BLOWING COMPLETION		15.12.2017	Sept-23	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%
17	ROLLING & SYNC.		16.12.2017	Sep'23	12	Station Transformers	M/s BHEL/BJCL (Civil)	10.04.2017	-	31.03.2020	100%
18	FULL LOAD		17.12.2017	Sep' 23	13	Generator Transformers	M/s BHEL PSSR	03.11.2015	04.04.2018	21.01.19-GT 23.12.19-ST	100%
19	TRIAL RUN		07.02.2018	Sep'23	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%
20	COD		01.03.2018	Sep'23	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	Apr-2025		
Unit#2		27.03.18	Jul-2025		
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	
			2022-23	410.67	
			EXPENDITURE OF MAY'2023		0
			TOTAL EXPENDITURE (upto 31.05.2023)		6055.13
START UP POWER AGREEMENT	By TAGEDCO		(Tripartite agreement between TANGEDCO, M/s BHEL (EPC contractor), PFC (Lender) signed on 21.11.2016 and Loan agreement between PFC andTANGEDCO signed on 18.01.2017.)		
POWER EVACUATION SYSTEM	Tx Line Developer	TANGEDCO			
	Tx Line Name	Ennore SEZ SCTPP - North Chennai (765KV PS), 400 KV, D/C line			
	Tx Voltage Level				
	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 lr. Dt.09.04.2021				
CIVIL AVIATION CLEARANCE	Airport Authority has been addressed to issue NOC vide Letter No: Se/C/P&E/EE/EMC/AEE/C/F.ETPS-SEZTPP/D768 dt 17.4.2010. No Objection certificate issued by Airport Authority of India for the construction of chimney for the proposed Ennore SEZ TPP- 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 & 2 (2X660 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	13.08.15	14.09.17	13.10.15	07.06.18
2	START OF BOILER ERECTION	25.08.15	15.09.17	28.10.15	08.06.18
3	BOILER DRUM LIFTING (if sub-critical unit)	NA		NA	
4	BOILER CEILING GIRDER LIFTING COMPLETION	28.01.16	30.11.18	28.03.16	16.05.19
5	CONDENSER ERECTION START	27.04.17	Sep-23	20.06.17	20.06.22
6	TG ERECTION START	10.06.17	Oct-23	10.08.17	Aug-23
7	HP PIPING ERECTION START	27.04.16	16.09.21	27.06.16	16.11.21
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	28.12.16	15.02.20	27.02.17	29.03.21
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	28.04.17	30.08.24	28.06.17	30.11.24
10	TG BOX UP	27.09.17	30.09.24	27.11.17	30.12.24
11	HP PIPING ERECTION COMPLETION	27.05.17	30.09.24	27.07.16	30.12.24
12	START OF OILFLUSHING	27.10.17	05.10.24	27.12.17	10.01.25
13	BOILER LIGHT UP	30.05.17	30.09.24	29.09.17	30.12.24
14	CHEMICAL CLEANING COMPLETION	10.06.17	10.10.24	10.08.17	10.02.25
15	STEAM BLOWING START	20.06.17	05.12.24	20.08.17	25.03.25
16	STEAM BLOWING COMPLETION	15.07.17	05.01.25	15.09.17	30.04.25
17	ROLLING & SYNC.	27.11.17	28.02.25	27.01.18	30.05.25
18	FULL LOAD	27.10.17	30.03.25	27.12.17	30.06.25
19	TRIAL RUN	27.11.17	30.04.25	27.01.18	30.07.25
20	COD (TRIAL RUN)	27.01.18	30.04.25	27.03.18	30.07.25

STATUS OF MAIN PLANT PACKAGE (BTG) : M/S BHEL							
Sl.	Packages	AREA	UNIT-01		UNIT-02		
			% Completion	% Completion			
1	BOILER	CIVIL	100.00%		90.00%		
		STRUCTURE	97.49%		92.19%		
		PRESSURE PARTS	97.49%		92.19%		
2	TG	CIVIL	51.10%		75.95%		
		STRUCTURE	51.10%		75.95%		
		TG ERECTION	Yet to start		Yet to start		
3	ESP	UNDER PROGRESS	78.94%		68.33%		
4	FGD	CIVIL WORK	Specification under finalization.				
		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 % Completion	UNIT-02 % Completion
1	Chimney	M/s Simplex	30.01.17	28.03.17	June,24	100 % (Civil)	100 % (Civil)
2	Coal Handling Plant	Contractor for erection M/s Promac	09.02.17	27.10.17	Feb,24	100 % (Civil), 25.75% (Mech)	
		M/s.Bevcon (Conveyor package supply), M/s.FLSIDITH- Pipe	18.03.17	27.10.17	Feb,24	48.42 % (Civil)	
		M/s.Promac : Stacker Reclaimer supply, M/s.Elecon : Vibrating	09.02.17	27.10.17	Feb,24	40 %	
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	Sept,24	48.39%	
4	Fuel Oil System	M/s.New Fire Engineers Pvt Ltd.	13.06.17	30.03.17	Jul,24	51.03%	
5	Cooling Towers	M/s.Simplex (Design – Paharpur)	30.01.17	29.04.17	Sept,24 (U-1) Dec,24 (U-2)	31.80%	20.70%
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 from M/s.Simplex)	27.12.19	29.04.22	Aug,24	25.08%	
7	WPT Plant	M/s.Otoklin Global business services for supply and erection	18.01.18	30.03.17	Aug,24	40.61%	
8	DM Plant	M/s Cornerstone (De-scoped from M/s.Simplex)	27.09.14	30.03.17	Aug,24	41.25%	
9	Compressed Air System	M/s.ELGI Equipments Ltd.	27.11.17	30.03.17	Jul,24	95.39%	
10	Fire Protection System	BHEL- PE&SD	July,18	30.03.17	Aug,24	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	Jul,23	85.12%	
12	Station Transformers	M/s Cornerstone	19.11.19	30.03.17	Jul,23	67.24%	
13	Unit Transformers	M/s Cornerstone	19.11.19	30.08.17	Jul,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 765 KV pooling station and 2 nos 400 KV lines to ETPS – work under progress.	

CRITICAL ISSUES

- Slow progress in civil works of 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
POWER EVACUATION SYSTEM	Tx Line Developer	TANTransco	2020-21		366.61
	Tx Line Name Tx Voltage Level	Uppur SCTPP – Virudhunagar, 765 KV, D/C line	2021-22		-----
	Configuration of Tx Line (S/C or D/C)		2022-23		
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.		EXPENDITURE OF May,2023		0.00
WATER ALLOCATION	Tamil Nadu Maritime Board has issued NOC for construction of Jetty for drawal and discharge of cooling water, vide 27.4.2015.		TOTAL EXPENDITURE (upto 31.05.2023)		2554.00
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		Revised schedule of activity is not available. Project is expected to commissioned by 2024-25.		Revised schedule of activity is not available. Project is expected to commissioned by 2024-25.
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		20.01.20	
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 % Completion	UNIT-02 % 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 GOTTN 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.

Strategic Consultant M/s.E&Y report and recommendations were placed before the TANGEDCO The Board after deliberations directed that the subject shall be referred to the Aravind Subramanian Committee(EAC to Hon'ble CM of TN) seeking their expert views. As instructed by Board, all the relevant data's are furnished to the committee. Committee report is awaited.

REASONS OF DELAY

NGT Ordered to stop the work.

NORTH CHENNAI STPP, St - III, Unit# 1 (1X800 MW) / TANGEDCO (STATE SECTOR - SOUTHERN REGION)

Athipattu village, Ponneri Tk, Distt.-Thiruvallur, Chennai (T.N.) - 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	Oct-2023		
CLEARANCES AND STATIC DATA			FINANCIAL DATA (Fig. in Rs. Crore)		
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)				
PPA	NOT APPLICABLE. State sector project.		YEAR WISE EXPENDITURE		
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.		2012-13		0.21
			2013-14		0.40
			2014-15		0.13
			2015-16		0.25
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.		2016-17		198.08
POWER EVACUATION SYSTEM	Tx Line Developer	TANTRANSCO	2017-18		929.75
	Tx Line Name Tx Voltage Level	NCTPS St-III -North Chennai (PS), 765 KV, D/C line	2018-19		2243.52
	Configuration of Tx Line (S/C or D/C)		2019-20		2090.62
LAND POSSESSION	The proposed site is within the existing NCTPS complex and land is already under possession of TANGEDCO.		2020-21		928.95
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.		2021-22		760.29
			2022-23		694.13
			EXPENDITURE OF MAY'2023		22.01
			TOTAL EXPENDITURE (upto 31.05.2023)		7875.39
MOEF CLEARANCE	Environmental clearance issued by MoEF on 20.01.2016 valid for a period of seven years.		(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.)		
CIVIL AVIATION CLEARANCE	Chimney constructed for full height and the same was informed to Airports Authority of India.				
CPCB CLEARANCE	NOT APPLICABLE. State sector project.				
SPCB CLEARANCE	Approval has been obtained on 13.04.2017.				
FOREST CLEARANCE	Not applicable, since the site is not coming under Forest area.				

NORTH CHENNAI STPP, St - III, Unit# 1 (1X800 MW) / 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	Feb,21
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	Feb 20
13	CHEMICAL CLEANING COMPLETION	27.02.19	Jun, 23
15	STEAM BLOWING START	31.12.18	Aug, 23
16	STEAM BLOWING COMPLETION	29.01.19	Sep, 23
17	ROLLING & SYNC.	28.02.19	Sep,23
18	FULL LOAD	28.03.19	Oct,23
19	TRIAL RUN	28.04.19	Oct-23
20	COD	28.07.19	Oct-23

STATUS OF MAIN PLANT PACKAGE (BTG)						
Sl.	Packages	AREA	UNIT-01			
			% Completion			
1	BOILER	CIVIL	100.00%			
		STRUCTURE	99.52%			
		PRESSURE PARTS	99.98%			
2	TG	CIVIL	100.00%			
		STRUCTURE	99.00%			
		TG ERECTION	99.92%			
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	80%
3	Ash Handling Plant		25.11.17	28.07.19	30.08.2023	72%
4	Fuel Oil System		27.07.17	28.06.19	15.06.2023	99%
5	Cooling Towers		16.05.17	21.09.19	31.07.2023	92.5%
6	CW Pump house		09.01.18	28.05.19	15.06.2023	97%
7	WPT Plant		16.06.17	17.05.19	05.06.2023	93%
8	DM Plant		06.10.17	28.05.19	05.06.2023	93%
9	Compressed Air System		10.12.17	28.08.19	31.01.2022	100%
10	Fire Protection System		01.07.17	14.05.19	15.06.2023	90%
11	Switch Yard		19.08.17	26.10.19	25.06.2023	96%
12	Station Transformers	BHEL	24.07.18	28.04.19	05.09.2020	100%
13	Unit Transformers	BHEL	06.03.18	27.02.19	31.01.2023	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	July, 2023	93%

CRITICAL ISSUES

- Slow progress in AHP/CHP,
- 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 (2x660 MW) / TANGEDCO (STATE SECTOR - SOUTHERN REGION)

Distt.- Thoothukudi, Tamil Nadu

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	Sep-2024	
Unit#2		Mar-2021	Jan – 2025	
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	230/11 KV Karaigudi Feeder		2019-20	654.76
POWER EVACUATION SYSTEM	Tx Line Developer		2020-21	1778.54
			2021-22	1711.00
	Tx Line Name Tx Voltage Level	Udangudi STPP – Ottapidaram, 400 KV, D/C line (BHEL/L&T)	2022-23	2817.92
	Configuration of Tx Line (S/C or D/C)		EXPENDITURE OF May’2023	170.384
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 31.05.2023)	8092.58
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 (2x660 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	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	01.06.23
6	TG ERECTION START	12.09.19	01.02.23	12.11.19	15.06.23
7	HP PIPING ERECTION START	30.10.19	16.04.23	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	31.12.23	02.09.20	31.12.23
10	TG BOX UP	30.07.20	31.03.24	30.09.20	31.07.24
11	HP PIPING ERECTION COMPLETION	06.08.20	31.01.24	06.10.20	29.02.24
12	START OF OILFLUSHING	30.07.20	30.04.24	30.09.20	31.08.24
13	BOILER LIGHT UP	09.07.20	31.03.24	09.09.20	31.07.24
14	CHEMICAL CLEANING COMPLETION	30.07.20	30.04.24	30.09.20	31.08.24
15	STEAM BLOWING START	13.08.20	30.04.24	13.11.20	31.08.24
16	STEAM BLOWING COMPLETION	03.09.20	30.06.24	03.11.20	31.10.24
17	ROLLING & SYNC.	12.11.20	31.07.24	12.01.21	30.11.24
18	FULL LOAD	31.12.20	31.08.24	28.02.21	31.12.24
19	TRIAL RUN	07.01.21	Sep-24	07.03.21	Jan-25
20	COD	25.02.21	Sep,24	25.04.21	Jan-25

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	80.34%		84.45%		
		PRESSURE PARTS	94.22%		96.23%		
2	TG	CIVIL	98.72%		75.00%		
		STRUCTURE	82.39%		66.60%		
		TG ERECTION	56.36%		58.93%		
3	ESP	UNDER PROGRESS	93.57%		94.94%		
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 % Completion	UNIT-02 % Completion
1	Chimney	M/s.BHEL/ M/s Bygging- Civil Structural Erection	08.10.18	26.10.19 03.12.20	30.06.23 31.07.23	99.46% 88.32%	
2	Coal Handling Plant	M/s. BHEL/ M/s Kanwar/ M/s Priya- Civil	01.03.22	25.06.20	11.09.23	59.35%	
		M/s. BHEL/ M/s.RPP /URC	15.07.19	25.06.20	02.10.23	19.10%	
		Structural Erection					
		M/s. BHEL/IGG	09.05.19	-	13.04.24	-	
3	Ash Handling Plant	M/s.BHEL/ RPP/Srinic- Civil M/s.BHEL/ M/s.RPP/URC- Structural Erection M/s. BHEL Mechanical Equipment	11.05.20 15.07.19 15.03.19	25.06.20 25.06.20 30.11.20	18.07.23 24.06.23 24.07.23 23.03.24	45.55% - -	
4	Fuel Oil System	M/s.BHEL/ M/s.RPP Civil	25.07.19	22.01.20	30.06.23	98.49%	
5	Cooling Towers	M/s.BHEL/ M/s.Gammon	16.12.2019	22.10.20	22.12.23 22.02.24	27.37%	12.82%
6	CW Pump house	M/s.BHEL/ M/s.B&B; M/s.BHEL/ M/s.Akash Techno	04.06.19	17.01.20	31.07.23 02.10.23	67.21% 69.45%	
7	WPT Plant	M/s.BHEL/ M/s.B&B	04.06.19	07.02.20	24.07.23	73.63%	
8	DM Plant	M/s.BHEL/ M/s.RPP	25.07.19	12.10.19	15.07.23	62.14%	
9	Compressed Air System	M/s.BHEL / M/s.Power Mech	07.01.22	01.11.20	30.06.23	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	30.06.23	87.36%	
12	Station Transformers	M/s.BHEL / M/s Power Mech	30.12.21	15.06.20	30.06.23	94.29%	
13	Generator Transformers						
14	Unit Transformers						
15	Railway Siding	NA	NA	NA	NA	NA	
16	Power Evacuation Lines	Udangudi STPP – Ottapidaram, 400 KV, D/C line (BHEL/L&T)	27.01.20	11.10.20	31.07.23	95.00%	

CRITICAL ISSUES

- Delay in CHP package, re-tendering by M/s BHEL is impacting coal firing /COD schedule.
- Poor progress in AHP, DM water plant, NDCT area
- FGD work is yet to be awarded.
- Fire protection work is yet to start.Sub-vendor not finalized.

REASONS OF DELAY

COVID 19, Labor shortage / Vendor Mobilization delay by Contractor, Fishermen issue at Coal Jetty

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

PS-Sagardighi, PO-Manigram, Block-Sagardighi, Subdivision-Jangipur, Distt.-Murshidabad (W. B.), Pin-742 237

E-Gen Portal Registration No. (U#1 - 1200002116)

Project Developer / Implementing Agency - WBPDC			Main Plant Vendor - M/s BHEL (EPC Contract)	
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual	Trial Run Date
Unit#1	27 th 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)		YEAR WISE EXPENDITURE	
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	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- Baharampore 400 KV, D/C line, v) STPP- Gokarna 400 KV D/C line.	2021-22	330.97
	Tx Line Name		2022-23	662.34
	Tx Voltage Level		EXPENDITURE OF MAY’2023	55.62
	Configuration of Tx Line (S/C or D/C)		TOTAL EXPENDITURE (upto 31.05.2023)	1437.19
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 be 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)			
Sl.	MILESTONE	UNIT-01	
		Original Date of Completion	Anticipated / Actual Date of Completion
1	COMPLETION OF BOILER FOUNDATION	19.04.2021	16.10.2021
2	START OF BOILER ERECTION	29.04.2021	27.03.2021
3	BOILER DRUM LIFTING (if sub-critical unit)	NA	NA
4	BOILER CEILING GIRDER LIFTING COMPLETION	30.12.2021	22.06.2022
5	CONDENSER ERECTION START	03.03.2022	03.08.2022
6	TG ERECTION START	02.05.2022	28.08.2022
7	HP PIPING ERECTION START	25.11.2022	Jun-23
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	30.12.2022	Sept'23
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	29.05.2023	Feb'24
10	TG BOX UP	01.06.2023	Jan'24
11	HP PIPING ERECTION COMPLETION	26.08.2023	Mar'24
12	START OF OILFLUSHING	28.03.2023	Oct'23
13	BOILER LIGHT UP	13.06.2023	Feb'24
14	CHEMICAL CLEANING COMPLETION	28.06.2023	Mar,24
15	STEAM BLOWING START	13.07.2023	Apr'24
16	STEAM BLOWING COMPLETION	12.08.2023	May'24
17	ROLLING & SYNC.	01.09.2023	Jun'24
18	FULL LOAD	01.11.2023	Jun.'24
19	TRIAL RUN	01.01.2024	Sept.,-2024
20	COD	Jan-24	Oct.,2024

STATUS OF MAIN PLANT PACKAGE (BTG) : M/s BHEL						
Sl.	Packages	AREA	UNIT-01			
			% Completion			
1	BOILER	CIVIL	100%			
		STRUCTURE	37.42%			
		PRESSURE PARTS	43.12%			
2	TG	CIVIL	100%			
		STRUCTURE	-			
3	ESP	CIVIL WORKS	100%			
		STRUCTURAL WORKS	82.60%			
4	FGD	NOT STARTED YET				
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	17.08.2021 (ZERO)	17.05.2023		41.00%
2	Coal Handling Plant	Conveyor package: Bengal Tools Limited	27.12.2018 (ZERO)	15.12.2023		20.05%.
		Twin Wagon Tippler : ThyssenKrupp	DATE AS PER	13.12.2023		
		Existing Stacker Reclaimer of Stage-II will be used				
3	Ash Handling Plant	M/s. MacawberBeekey Pvt. Ltd.	27.12.2018 (ZERO) DATE AS PER CONTRACT 01.07.2020	28.03.2024		37.5%
4	Fuel Oil System	M/s. BHEL		27.08.2023		0%
5	Cooling Towers	M/s. Paharpur Cooling Towers Limited		31.12.2022	Sept'2023	92.14%
6	CW Pump house	M/s. BHEL		09.12.2023		27.5%
8	WPT Plant	Will be used from Existing				Existing from Stage – II Project will be used.
9	DM Plant					
11	Compressed Air System	M/s. BHEL	27.12.2018 (ZERO) DATE AS PER CONTRACT 01.07.2020	25.08.2023		9%
12	Fire Protection System	M/s. BHEL		24.03.2024		0%
15	Switch Yard	M/s. BHEL		22.03.2024		52%
16	Station Transformers	M/s. BHEL		30.03.2023		35%
18	Unit Transformers	M/s. BHEL		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- Baharampore 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 BoI-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.
 3. 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	Circulating Water System	Synch.	Synchronization
DM Water Plant	De Mineralization Water 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	UT	Unit Transformer
FD Fan	Forced Draft Fan	GHP	Gypsum Handling Plant
FGD	Flue Gas Desulfurization	LHP	Limestone Handling Plant
FL	Full Load	ARV	Air Release Valve
FO System	Fuel Oil System	WPT	Water Pre Treatment
FSA	Fuel Supply Agreement	ETP	Effluent Treatment Plant
GT	Generator Transformer	CPU/COLTCS	Condensate Polishing Unit/Condenser On Load Tube Cleaning System
HCSD	High Concentrated Slurry Disposal		
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		