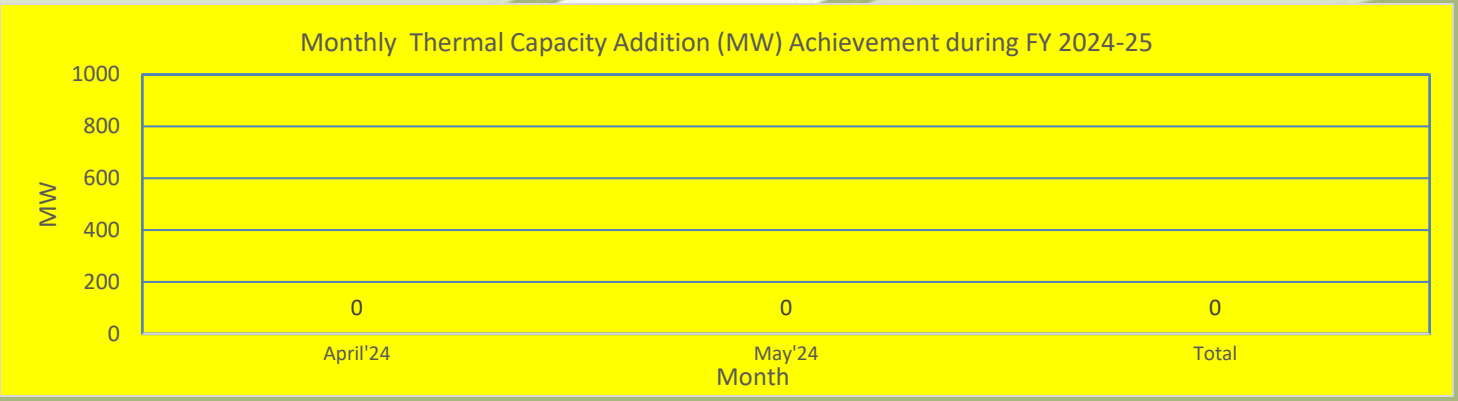
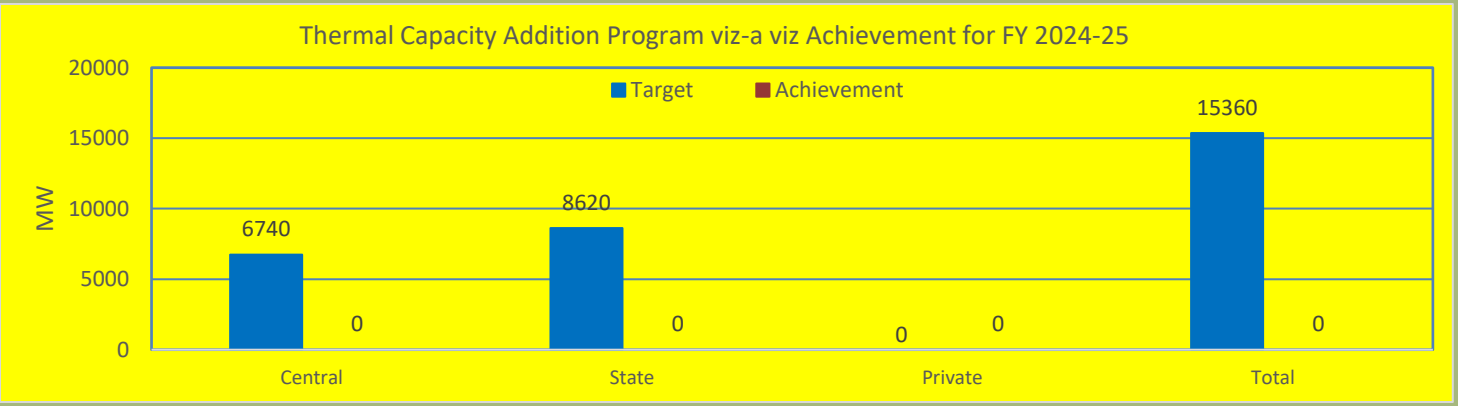
BROAD STATUS REPORT OF UNDER CONSTRUCTION THERMAL POWER PROJECTS (MAY, 2024)





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 overrunsof 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)

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

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EXECUTIVE SUMMARY

I. All India Installed Capacity (MW)*

	Thermal					Nuclear	Hydro	RES	Grand total
Sector	Coal	Lignite	Gas	Diesel	Total				
State	69438	1150	7012	280	77880	0	27254	2537	107671
Private	73512	1830	10568	309	86219	0	3931	142482	232633
Central	68020	3640	7238	0	78898	8180	15743	1632	104453
Total	210970	6620	24818	589	242997	8180	46928	146652	444757
% of Grand Total	47.43%	1.49%	5.58%	0.13%	54.64%	1.84%	10.55%	32.97%	100.00%

*Compiled from Installed Capacity Report on CEA's website (as on 31.05.2024).

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

(as on 31.05.2024)

FY	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	Total (MW)
Central	6740	1600	660	1460	2400	2400	15260
State	8620	800	1320	0	0	800	11540
Private	0	0	800	800	0	0	1600
Total	15360	2400	2780	2260	2400	3200	28400*

*Yelahanka CCPP (370 MW), Uppur SCTPP (2x800 MW) and Ennore Exp TPP (1x660 MW) have not been included in this capacity.

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

(as on 31.05.2024)

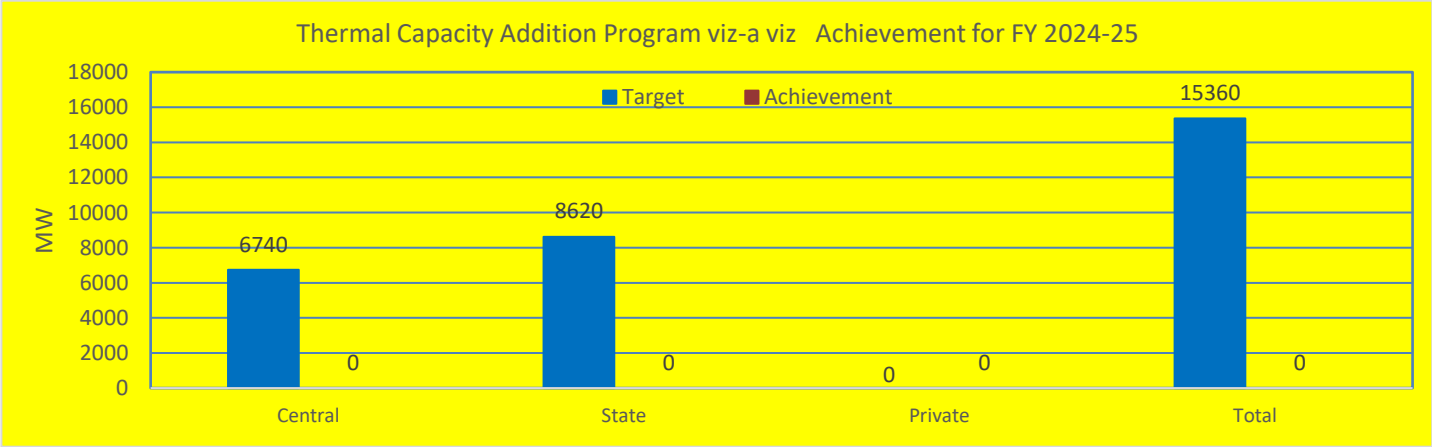
Sector	Super Critical #		Sub-Critical		Total	
	No. of Projects [Units]	Capacity (MW)	No. of Projects [Units]	Capacity (MW)	No. of Projects [Units]	Capacity (MW)
Central	10 [21]	15260	0	0	10 [21]	15260
State	12 [19]	13800	1 [1]	370	13 [20]	14170
Private	1 [2]	1600	0	0	1 [2]	1600
Total	23 [42]	30660	1 [1]	370	24 [43]	31030

Out of the 23 Supercritical TPPs, 10 projects (19 units) of total capacity 14360 MW are based on Ultra Super critical technology.
[6 projects (14 units) in Central sector of capacity 10640 MW,
[3 projects (3 units) in State sector of capacity 2120 MW and
[1 project (2 units) in Private sector of capacity 1600 MW]. The details of these projects are given in Table 1.2

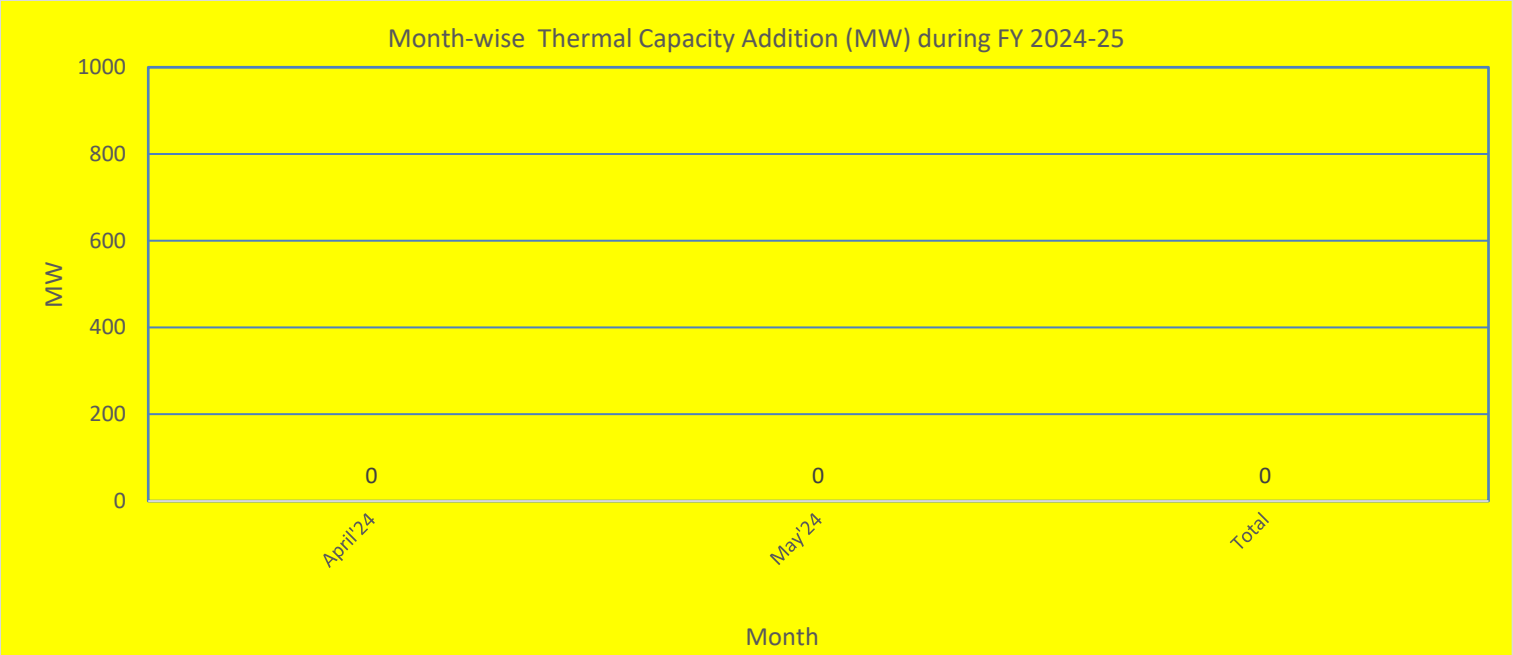
IV. Sector-wise Thermal Capacity Addition during last five years :

	FY:2019-20		FY:2020-21		FY:2021-22		FY:2022-23		FY:2023-24	
Sector	Target	Achieve-ment	Target	Achieve-ment	Target	Achieve-ment	Target	Achieve-ment	Target	Achieve-ment
Central	6040	3940	5790	4080	5400	2370	3580	660	6880	2920
State	4256	2780	4276	846	4360	1590	2770	800	7820	2120
Private	Nil	45	525	0	525	525	0	0	0	364
Total	10296	6765	10591	4926	10285	4485	6350	1460	14700	5404

V.(a) Thermal Capacity Addition Program & Achievement for FY 2024-25 (as on 31-05-2024):



V.(b) Month-wise Thermal Capacity Addition upto May-2024 (FY 2024-25):



1.1 Tentative Thermal Capacity Addition Program and Actual Achievement for FY 2024-25:

(as on 31.05.2024)

S. No.	Project Name	Implementing Agency	State	Boiler (SG) & Turbine(TG) Make	Unit No	Targeted Capacity (MW)	Anticipated Trial Run (as on 01-04-2024)	Trial Run Assessment as per latest review by CEA	Capacity Achieved (MW)	Actual Date of Capacity Addition
CENTRAL SECTOR										
1	Ghatampur TPP	NUPPL	Uttar Pradesh	SG-L&T-MHI | TG-GE	U-1	660	Jun-2024	Jul-2024		
2	Buxar TPP	SJVN	Bihar	SG-L&T (EPC) | TG-L&T (EPC)	U-1	660	Sep-2024	Sep-2024		
3	Khurja SCTPP	THDC	Uttar Pradesh	SG-L&T-MHI | TG-BHEL	U-1	660	Sep-2024	Sep-2024		
4	Barh STPP St-I	NTPC	Bihar	SG-TPE/DPSI | TG-Power Machines	U-3	660	Nov-2024	Dec-2024		
5	Ghatampur TPP	NUPPL	Uttar Pradesh	SG-L&T-MHI | TG-GE	U-2	660	Nov-2024	Nov-2024		
6	Buxar TPP	SJVN	Bihar	SG-L&T (EPC) | TG-L&T (EPC)	U-2	660	Dec-2024	Dec-2024		
7	North Karanpura STPP	NTPC	Jharkhand	SG-BHEL (EPC) | TG-BHEL (EPC)	U-3	660	Dec-2024	Jan-2025		
8	Patratu STPP	PVUNL	Jharkhand	SG-BHEL (EPC) | TG-BHEL (EPC)	U-1	800	Dec-2024	Dec-2024		
9	Khurja SCTPP	THDC	Uttar Pradesh	SG-L&T-MHI | TG-BHEL	U-2	660	Dec-2024	Dec-2024		
10	Ghatampur TPP	NUPPL	Uttar Pradesh	SG-L&T-MHI | TG-GE	U-3	660	Mar-2025	Mar-2025		
Total (Central Sector)			**No. of Units : 10**			**6740**	**6740 (10)**		**0**	
STATE SECTOR										
11	North Chennai TPP St-III	TANGEDCO	Tamil Nadu	SG-BHEL | TG-BHEL	U-1	800	May-2024	Jun-2024		
12	Jawaharpur STPP	UPRVUNL	Uttar Pradesh	SG-DPSI (EPC) | TG-DPSI (EPC)	U-2	660	Jun-2024	Sep-2024		
13	Obra-C STPP	UPRVUNL	Uttar Pradesh	SG-DPSI (EPC) | TG-DPSI (EPC)	U-2	660	Jul-2024	Sep-2024		
14	Bhusawal TPS	MAHAGENCO	Maharashtra	SG-BHEL (EPC) | TG-BHEL (EPC)	U-6	660	Sep-2024	Sep-2024		
15	Panki TPS Extn.	UPRVUNL	Uttar Pradesh	SG-BHEL (EPC) | TG-BHEL (EPC)	U-1	660	Sep-2024	Sep-2024		
16	Yadadri TPS	TSGENCO	Telangana	SG-BHEL (EPC) | TG-BHEL (EPC)	U-1	800	Sep-2024	Sep-2024		
17	Yadadri TPS	TSGENCO	Telangana	SG-BHEL (EPC) | TG-BHEL (EPC)	U-2	800	Sep-2024	Sep-2024		
18	Udangudi STPP St-I	TANGEDCO	Tamil Nadu	SG-BHEL (EPC) | TG-BHEL (EPC)	U-1	660	Oct-2024	Oct-2024		
19	Yadadri TPS	TSGENCO	Telangana	SG-BHEL (EPC) | TG-BHEL (EPC)	U-3	800	Dec-2024	Dec-2024		
20	Sagardighi TPP St-III	WBPDCL	West Bengal	SG-BHEL (EPC) | TG-BHEL (EPC)	U-5	660	Jan-2025	Jan-2025		
21	Udangudi STPP St-I	TANGEDCO	Tamil Nadu	SG-BHEL (EPC) | TG-BHEL (EPC)	U-3	660	Feb-2025	Feb-2025		
22	Yadadri TPS	TSGENCO	Telangana	SG-BHEL (EPC) | TG-BHEL (EPC)	U-4	800	Feb-2025	Feb-2025		
Total (State Sector)			**No. of Units : 12**			**8620**	**8620 (12)**		**0**	
Total Targeted Capacity			**No. of Units : 22**			**15360***	**15360 (22)**		**0**	

*Yelahanka CCPP (KPCL) (370 MW) has not been included in this capacity. It has been constructed and its trial run is pending due to non-availability of gas from M/s GAIL (Anticipated in June.-2024)

1.2 Under Construction Thermal Power Projects in the Country:

(as on 31.05.2024)

S.No.	Project Name	State	Implementing Agency	Boiler	Turbine	Technology	LOA Date	Unit No	Cap. (MW)	Org Trial Run	Antici-pated 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-3	660	Oct-11	Dec-24	91%	8693	22375	22375	100%
2	Buxar TPP	Bihar	SJVN	L&T	L&T	Supercritical	Jun-19	U-1	660	May-23	Sep-24	92%	10439	10439	9452	91%
								U-2	660	Sep-23	Dec-24	84%				
3	Lara STPP St-II	Chhattisgarh	NTPC	BHEL	BHEL	Ultra Supercritical	Aug-23	U-1	800	Dec-27	Dec-27	0%	15530	15530	776	5%
								U-2	800	Jun-28	Jun-28	0%				
4	North Karanpura STPP	Jharkhand	NTPC	BHEL	BHEL	Supercritical	Feb-14	U-3	660	Jun-19	Jan-25	90%	14367	16243	15560	96%
5	Patratu STPP	Jharkhand	PVUNL	BHEL	BHEL	Ultra Supercritical	Mar-18	U-1	800	Jan-22	Dec-24	71%	17112	18668	13582	73%
								U-2	800	Jul-22	Sep-25	67%				
								U-3	800	Jan-23	Nov-25	52%				
6	Singrauli STPP, St-III	Madhya Pradesh	NTPC	BHEL	BHEL	Ultra Supercritical	Mar-24	U-1	800	May-29	May-29	0%	17195	17195	533	3%
								U-2	800	Feb-30	Feb-30	0%				
7	Talcher TPP St-III	Odisha	NTPC	BHEL	BHEL	Ultra Supercritical	Sep-22	U-1	660	Nov-26	Mar-27	25%	11844	11844	1522	13%
								U-2	660	May-27	Jun-27	17%				
8	NLC Talabira TPP	Odisha	NLC	BHEL	BHEL	Ultra Supercritical	Jan-24	U-1	800	May-28	May-28	0%	19422	27213	955	3%
								U-2	800	Nov-28	Nov-28	0%				
								U-3	800	Apr-29	Apr-29	0%				
9	Ghatampur TPP	Uttar Pradesh	NUPPL	L&T MHPS	GE Power system	Supercritical	Aug-16	U-1	660	May-20	Jul-24	92%	17238	19406	17117	88%
								U-2	660	Nov-20	Nov-24	84%				
								U-3	660	May-21	Mar-25	76%				
10	Khurja SCTPP	Uttar Pradesh	THDC	L&T MHI	BHEL	Ultra Supercritical	Aug-19	U-1	660	Jul-23	Sep-24	86%	11089	10389	10389	94%
								U-2	660	Jan-24	Dec-24	75%				
							Total Central Sector		**15260**				**142930**	**169302**	**92261**	
STATE SECTOR																
1	Jawaharpur STPP	Uttar Pradesh	UPRVUNL	Doosan	Doosan	Ultra Supercritical	Dec-16	U-2	660	Apr-21	Sep-24	92%	10566	14628	12623	86%
2	Obra-C STPP	Uttar Pradesh	UPRVUNL	Doosan India	Doosan India (GE)	Ultra Supercritical	Dec-16	U-2	660	Apr-21	Sep-24	87%	8778	11706	10730	92%
3	Panki TPS Extn.	Uttar Pradesh	UPRVUNL	BHEL	BHEL	Supercritical	Mar-18	U-1	660	Sep-21	Sep-24	82%	5817	6729	5700	85%
4	Ennore SCTPP	Tamil Nadu	TANGEDCO	BHEL	BHEL	Supercritical	Sep-14	U-1	660	Jan-18	Sep-26	74%	9800	16444	9888	60%
								U-2	660	Mar-18	Nov-26	70%				
5	North Chennai TPP St-III	Tamil Nadu	TANGEDCO	BHEL	BHEL	Supercritical	Jan-16	U-1	800	Oct-19	Jun-24	96%	6376	10158	8853	87%
6	Udangudi STPP St-I	Tamil Nadu	TANGEDCO	BHEL	BHEL	Supercritical	Dec-17	U-1	660	Jun-21	Oct-24	85%	13077	13077	10207	78%
								U-2	660	Jun-21	Feb-25	83%				
7	Bhusawal TPS	Maharashtra	MAHAGENCO	BHEL	BHEL	Supercritical	Jan-18	U-6	660	May-22	Sep-24	96%	4548	6350	4507	71%
8	Sagardighi TPP St-III	West Bengal	WBPDCL	BHEL	BHEL	Supercritical	Dec-18	U-5	660	Jan-24	Jan-25	77%	3863	4567	2125	47%
9	Yadadri TPS	Telangana	TSGENCO	BHEL	BHEL	Supercritical	Oct-17	U-1	800	Oct-21	Sep-24	92%	29965	34543	26584	77%
								U-2	800	Oct-21	Sep-24	93%				
								U-3	800	Jun-22	Dec-24	88%				
								U-4	800	Jun-22	Feb-25	89%				
								U-5	800	Oct-22	Apr-25	85%				
10	DCRTPP Extn.	Haryana	HPGCL	BHEL	BHEL	Ultra Supercritical	Feb-24	U-3	800	Sep-29	Sep-29	0%	6900	6900	1	0%
							Total State Sector		**11540**				**99689**	**125102**	**91218**	
PRIVATE SECTOR																
1	Mahan STPP, Ph-II	Madhya Pradesh	Mahan Energen Ltd	BHEL (Supply)	BHEL (Supply)	Ultra Supercritical	Aug-23	U-3	800	Nov-26	Dec-26	8%	12439	12439	839	7%
								U-4	800	May-27	May-27	6%				
							Total Private Sector		**1600**				**12439**	**12439**	**839**	
							Grand Total		**28400**				**255058**	**306843**	**184317**	

1.3 Under construction TPPs where work is on hold / not likely to be commissioned (As on 31.05.2024)

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 was held up due to withdrawal of PPA by DISCOM (Rajasthan), due to land issue in linked mines and consequently higher tariff. On 04-08-2022, a meeting was held (Additional Secretary-Coal, GoI along with NLCIL Directors met Chief Secretary-GoR and Principal Secretary-Energy) and it was jointly decided not to pursue with the Barsingsar TPS Extension project (1X250 MW) along with Hadla Mine.	2112.59	2112.59	158.25	Jan- 21
2	*Rajasthan*	Bithnok TPP /NLC/Reliance Infra/ Chinese	Nov-16	U-1	250	May-20	Project was held up due to withdrawal of PPA by DISCOM(Rajasthan) due to increased project cost and time over run. On 04-08-2022 a meeting was held (Additional Secretary-Coal, GoI along with NLCIL Directors met Chief Secretary-GoR and Principal Secretary-Energy) to revive the Bithnok TPS. Based on the decision, a consultant was appointed to prepare feasibility. Further, as per the discussions held with Rajasthan government officials, it has been agreed that NLC and GoR will jointly work to revive the Bithnok Thermal Power Project along with Bithnok Mines. The consultant has prepared the feasibility report for revival of the project and the same is under "scrutiny and approval".	2196.3	2196.3	173.82	Jan- 21
TOTAL CENTRAL SECTOR [No. of Projects: 2, No. of Units: 2]					**500**						
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(P&M) of the company on a standalone basis through e-auction. Further, the liquidator has also sold the Land including buildings at the Plant Site on 9th Feb 2023.	6571.94	9343.15	3785.6	Jan- 16
			Sep-09	U-2	660	Mar-14					
2	*Andhra Pradesh*	Thamminapatnam TPP, St-II / Meenakshi Energy Pvt.Ltd. SG-Cether vessels TG- Chinese	Dec-09	U-3	350	May-12	Vedanta Ltd. Has bought this plant under NCLT route. The project is likely to be commissioned during 2024-25. (U#1: Sep-2024, U#2: Oct-2024)	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 Enforcement directorate has attached the assets of the corporate debtor and as a result of which the auction of the assets are kept on hold.	11120	11120	NA	NA
			Mar-11	U-2	660	Dec-14					
			Mar-11	U-3	660	Apr-15					
			Mar-11	U-4	660	Aug-15					
4	*Chhattisgarh*	Akaltara TPP (Naiyara) / KSK Mahandi Power Company Ltd.- Boiler- SEPCO CHINA (Shanhai china) / TG- SEPCO (Dongfong china)	Apr-09	U-4	600	Apr-13	CIRP commenced on 3rd October 2019 & currently under NCLT. PPL and REC have submitted EOI on 21-7-2023 and shortlisted as PRAs.	16190	27080	18730	Dec- 16
			Apr-09	U-5	600	Aug-13					
			Apr-09	U-6	600	Dec-13					
5	*Chhattisgarh*	Binjkote TPP/ SKS Power Generation (Chhattisgarh) Ltd. Boiler-Cethar Vessels /Turbine-Harbin China	Mar-11	U-3	300	Mar-14	Reworked bids (seven) received from the Resolution Applicants. Voting is completed. Plan submitted by Sarda Energy & Minerals filed with NCLT for approval has been sent back by NCLT for reconsideration by CoC. The plant is likely to be revived by 2030-31.	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	Adani Power Limited resolution plan submitted for NCLT approval on 10.03.2024 (e-filing). NCLT approval awaited.	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	Vedanta Ltd. has bought the power plant under liquidation. Plant is likely to be revived by FY 2030-31	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	The liquidator successfully sold the assets of corporate debtor as per provision of IBC, 2016.	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	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 / Corporate Power Ltd. EPC-BHEL	Dec-09	U-1	270	Apr-12	The liquidator is making endeavor to sell the company as per provision of IBC, 2016 and the regulation laid there in.	2900	3120	3120	Nov- 12
			Dec-09	U-2	270	May-12					
11	*Jharkhand*	Matrishri Usha TPP, Ph-II / Corporate Power Ltd. EPC-BHEL	Mar-11	U-3	270	Oct-12		3182	3182	2207	Sep- 12
			Mar-11	U-4	270	Jan-13					
12	*Jharkhand*	Tori TPP, Ph-I / Essar PowerLtd. BTG- Harbin China	Aug-08	U-1	600	Jul-12	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
			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				
			Oct-10	U-2	270	Sep-14					

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
14	*Maharashtra*	Amravati TPP Ph-II / Ratan India Power Pvt. Ltd. BTG- BHEL	Oct-10	U-3	270	Nov-14	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-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		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	Majority of Plant material has been auctioned and removed from site. 706 Acres of Land and approx. 4000 MT of material is yet to be auctioned as they were under Litigation.	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	The coal linkage matter for this project is sub judice and once it is resolved, developer will be looking for funding options and further process.	3189	3450	422.27	Mar- 15
			Sep-11	U-2	300	Mar-17					
18	*Madhya Pradesh*	Gorgi TPP / D.B. Power (MP) Ltd. BTG- BHEL	Mar-11	U-1	660	Jun-13	The company has requested a COD extension with GoMP, and a revival will be planned accordingly on the final permission.	3941	3941	475.79	Sep- 15
19	*Odisha*	Utkal TPP (Odisha) / Ind Barath/BTG-Cethar Vessels	May-09	U-2	350	Dec-11	JSW Energy has bought the plant under NCLT route. U#2 is likely to be commissioned in June-2024 (2024-25).	3150	4254	4254	Apr- 17
20	*Odisha*	KVK Nilanchal TPP/ KVK Nilanchal / BTG-Harbin China	Nov-09	U-1	350	Dec-11	Project sold to successful bidder M/s Padmaprabhu Commodity Trading Pvt Ltd in the E-auction held on 26th August 2022	4990	6000	1708.36	Mar- 15
			Nov-09	U-2	350	Feb-12					
			Nov-09	U-3	350	Feb-12					
21	*Odisha*	Lanco Babandh TPP / LBP Ltd./ BTG- DEC Chinese	Nov-09	U-1	660	Apr-13	the Liquidator has partially sold the assets of the company on a standalone basis through e-auction dated 27.08.2021	6930	10430	7615	Mar- 17
			Nov-09	U-2	660	Aug-13					
22	*Odisha*	Malibrahmani TPP / Monnet Power Co.Ltd. / BTG-BHEL	Jun-10	U-1	525	Dec-12	Jindal Steel & Power has acquired the asset under liquidation; Plant is likely to be revived by FY 2024-25	5093	6330	5329.75	Dec- 14
			Jun-10	U-2	525	Feb-13					
23	*Tamil Nadu*	Tuticorin TPP (Ind- Barath) / IBPIL / BTG- Shangdong China	May-10	U-1	660	May-12	Successful bidder has been identified. However, the Liquidation process has been stayed by the Hon'ble NCLAT.	3595	3595	2000	May- 15
24	*West Bengal*	Hiranmaye Energy Ltd. (IndiaPower 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:24, No. of Units:51]					23055						
GRAND TOTAL [No. of Projects: 26, No. of Units: 53]					**23555**						

Status as on 31.05.2024

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	30-Oct-2021 (A)
Unit#2		Dec-2010	30-Jun-2023 (A)
Unit#3		Oct-2011	Dec-2024

CLEARANCES AND STATIC DATA

FUEL TYPE	Coal, Indigenous, Non-pit head	
COAL COMBUSTION TECHNOLOGY	Supercritical	
APPROVAL DATE / NTP	Feb-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.	
PPA	Bihar (incl. Home state share): 1025 MW, Jharkhand: 202 MW, Orissa: 418 MW, Sikkim: 38 MW and unallocated: 297MW.	
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.	
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	
POWER EVACUATION SYSTEM	Tx Line Developer	PGCIL
	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	
WATER ALLOCATION	100 Cusec from River Ganges	
MOEF CLEARANCE	11.09.2001	
CIVIL AVIATION CLEARANCE	09.08.2004	
CPCB CLEARANCE	Not Applicable	
SPCB CLEARANCE	Consent to Operate (Emission & Discharge) Granted by SPCB on 04.07.2017, For Unit#1, and is Valid upto 30.09.2021	
FOREST CLEARANCE	Not Applicable	

FINANCIAL DATA (Fig. in Rs. Crore)

ORIGINAL ESTIMATED COST OF THE PROJECT	8693.00
LATEST ESTIMATED COST	22228.28
DATE OF FINANCIAL CLOSURE	21.02.2005
YEAR WISE EXPENDITURE	
2010-11	921.81
2011-12	1286.25
2012-13	1384.43
2013-14	1581.22
2014-15	568.49
2015-16	1143.46
2016-17	1410.21
2017-18	1389.43
2018-19	1453.89
2019-20	1502.47
2020-21	1123.15
2021-22	1185.00
2022-23	2284.00
2023-24	1322.27
EXPENDITURE OF MAY'2024	66.20
TOTAL EXPENDITURE (upto 31.05.2024)	22374.71

Status as on 30.05.2024

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

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	May-06	Mar-11	Mar-07	Jul-11	Jan-08	Jan-12
3	BOILER DRUM LIFTING (if sub-critical unit)	NA		NA		NA	
4	BOILER CEILING GIRDER LIFTING COMPLETION	Complete		Complete		Complete	
5	CONDENSER ERECTION START	Jun-07	Nov-08	Apr-08	Jan-09	Feb-09	Nov-13
6	TG ERECTION START	Aug-07	Aug-11	Jun-08	Sep-11	Apr-09	Mar-12
7	HP PIPING ERECTION START			May-09	Oct-19	Mar-09	Sep-23
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	Dec-07	Feb-13	Oct-08	Jan-21	Aug-09	Feb-24
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION		Feb-13	Oct-08	Jan-21	Aug-09	Apr-24
10	TG BOX UP	Aug-08	Dec-13	Jun-09	Jan-15	Apr-10	July-24
11	HP PIPING ERECTION COMPLETION			Aug-09	Jun-22	Jun-09	Jan-24
12	START OF OIL FLUSHING			Jul-09	Dec-21	May-09	Aug-24
13	BOILER LIGHT UP	Aug-08	Aug-19	Jun-09	May-22	Apr-10	Jul-24
14	CHEMICAL CLEANING COMPLETION			Jul-09	May-22	May-10	Jun-24
15	STEAM BLOWING START			Sep-09	Jul-22	Jul-10	Aug-24
16	STEAM BLOWING COMPLETION	Jan-09	Jan-20	Nov-09	Oct-22	Sep-10	Sept-24
17	ROLLING & SYNC.	Mar-09	Sep-20	Jan-10	Mar-23	Nov-10	Nov-24
18	FULL LOAD	Jul-09	Apr-21	Apr-10	Jun-23	Mar-11	Dec-24
19	TRIAL RUN	Feb-10	Oct-21	Dec-10	Jun-23	Oct-11	Dec-24
20	COD	Mar-10	Nov-21	Jan-11	Aug-23	Nov-11	Jan-25

STATUS OF MAIN PLANT PACKAGE (BTG) / SG - DPSI, TG - Power Machine, Russia

Sl.	Packages	AREA	UNIT-01 % Completion	UNIT-02 % Completion	UNIT-03 % Completion
1	BOILER	CIVIL	100%	100%	94%
		STRUCTURE			85%
		PRESSURE PARTS			99%
2	TG	CIVIL	100%	100%	96%
		STRUCTURE			97%
		TG ERECTION			86%
3	ESP	UNDER PROGRESS	100%	100%	95%
4	FGD	CIVIL WORK	28%	13%	18%
		MATERIAL SUPPLY	39%	30%	30%
		ERECTION WORK	1%	Yet to start	Yet to start

STATUS OF BOPs

Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (DPSI)	Date of Award	Scheduled Date of Completion	Anticipated/Actual Date of Completion	UNIT-01 % Completion	UNIT-02 % Completion	UNIT-03 % Completion
1	Chimney	NBCC	20.12.2005	19.07.2009	Completed	100%	100%	100 %
2	Coal Handling Plant	L&T (Conveyor package)	22.09.2005	21.08.2009	U2-May'23(A); U3- Nov'24	100%	100%	75%
		L&T (Wagon Tippler)		21.07.2009	Completed	100%	100 %	100 %
		L&T(Stacker Reclaimer)		21.09.2009	Completed	100%	100 %	100 %
3	Ash Handling Plant	Melco	15.04.2016	14.01.2019	U2-May'23(A); U3- Nov'24	100%	100%	72%
4	Fuel Oil System	Techno	07.05.2006	05.07.2009	U2-Completed U3-completed	100%	100 %	78%
5	Cooling Towers	Paharpur	28.12.2005	27.08.2009	U2-Jun'23(A); U3- Nov'24	100%	100%	90%
6	CW Pump house	KBL	17.07.2006	16.01.2014	U3- Nov'24	100%	100 %	96%
7	WPT Plant	SPML	28.05.2007	27.11.2008	U3- Nov'24	100%	100 %	87%
8	DM Plant	Driplex	24.03.2006	23.09.2008	Completed	100%	100 %	100 %
9	Compressed Air System	Power Machines	24.03.2005	29.10.2014	U3-Completed	100%	100%	96%
10	Fire Protection System	Minimax	24.03.2006	23.07.2008	U2-Nov'22(A); U3-Nov'24	100%	100%	83%
11	Switch Yard	BHEL	23.03.2006	06.11.2009	Completed	100%	100 %	100 %
12	Station Transformers	ABB	10.10.2005	11.09.2008	U3- Nov'24	100%	100%	95%
13	Unit Transformers	TRIL/BHEL/Kanohar	22.05.2006	21.01.2009	U3- Nov'24	100%	100%	95%
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

- Supply of Stator from M/s Power Machines, Russia. There may be delay in manufacturing of Generator stator due to geo-political situation and sanctions imposed on Russian Federation. It is likely to supplied by August-2024.

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.

Status as on 31.05.2024

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 contract)	
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	28-Feb-2024(A)
Unit#3		Jun-2019	Jan-2025

CLEARANCES AND STATIC DATA

FUEL TYPE	Coal, Pithead	
COAL COMBUSTION TECHNOLOGY	Supercritical	
APPROVAL DATE / NTP	Feb-2014	
EPC/BTG/BoP Contractor Details (Package Wise)	BTG (EPC) – BHEL	
PPA	Jharkhand: 500 MW; Odisha: 396 MW; Bihar: 688 MW; WB: 99 MW; Unallocated: 297 MW.	
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.	
START UP POWER AGREEMENT	Through ATS – 400 KV NK Chandwa line. Line is under construction. Agreement yet to be done.	
POWER EVACUATION SYSTEM	Tx Line Developer	NKTL
	Tx Line Name Tx Voltage Level	i) NKSTPP-Chandwa 400 KV, D/c line ii) NKSTPP-Gaya, 400 KV D/c line
	Configuration of Tx Line (S/C or D/C)	D/C
LAND POSSESSION	2263/ 2293 Acres. 30 Acres pending for acquisition.	
WATER ALLOCATION	20 Cusec from Garhi River – Raw water drawl agreement signed with DVC on 18.09.2020.	
MOEF CLEARANCE	29.11.2004	
CIVIL AVIATION CLEARANCE	13.02.2009	
CPCB CLEARANCE	Not Applicable	
SPCB CLEARANCE	Available. 31.12.2001 for Bihar. 11.12.2014 for Jharkhand	
FOREST CLEARANCE	03.11.2015	

FINANCIAL DATA (Fig. in Rs. Crore)

ORIGINAL ESTIMATED COST OF THE PROJECT	14367.00
LATEST ESTIMATED COST	16243.00
DATE OF FINANCIAL CLOSURE	28.01.2014
YEAR WISE EXPENDITURE	
2010-11	8.17
2011-12	4.88
2012-13	5.75
2013-14	1362.18
2014-15	527.92
2015-16	615.73
2016-17	2199.92
2017-18	2044.46
2018-19	1747.91
2019-20	1762.62
2020-21	1243.28
2021-22	1051.00
2022-23	1590.38
2023-24	1081.29
EXPENDITURE OF MAY, 2024	92.46
TOTAL EXPENDITURE (upto 31.05.2024)	15560.20

Status as on 31.05.2024

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	Jul-23	Jul-18	Dec-23
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	Jan-17	Dec-18	Jul-17	Oct-19	Jan-18	Jul-24
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	Mar-17	Jan-19	Jul-17	Oct-19	Jan-18	Aug-24
10	TG BOX UP	Jun-17	Aug-19	Dec-17	Jan-22	Jun-18	Jul-24
11	HP PIPING ERECTION COMPLETION	Sep-17	Jan-21	Mar-18	Sep-23	Sep-18	Jun-24
12	START OF OIL FLUSHING	Jul-17	Jul-20	Jan-18	Feb-23	Jul-18	Jun-24
13	BOILER LIGHT UP	Aug-17	Dec-20	Feb-18	Jun-23	Aug-18	Oct-24
14	CHEMICAL CLEANING COMPLETION	Aug-17	Jan-21	Feb-18	Jun-23	Aug-18	Ottt-24
15	STEAM BLOWING START	Sep-17	Jan-21	Mar-18	Jul-23	Sep-18	Oct-24
16	STEAM BLOWING COMPLETION	Oct-17	Feb-21	Apr-18	Aug-23	Oct-18	Nov-24
17	ROLLING & SYNC.	Dec-17	21.10.2022	Jun-18	09.11.23	Dec-18	Dec-24
18	FULL LOAD	Feb-18	20.12.2022	Aug-18	19.01.24	Feb-19	Jan-25
19	TRIAL RUN	Jun-18	**18.01.2023**	Dec-18	**28.02.2024**	Jun-19	**Jan-25**
20	COD	-	**01.03.2023**	-	**20.03.24**	-	Feb-25

STATUS OF MAIN PLANT PACKAGE (BTG) : BHEL

Sl.	Packages	AREA	UNIT-01 % Completion	UNIT-02 % Completion	UNIT-03 % Completion
1	BOILER	CIVIL	100%	100%	92%
		STRUCTURE	100%	100%	83%
		PRESSURE PARTS	100%	100%	90%
2	TG	CIVIL	100%	100%	100%
		STRUCTURE	100%	100%	100%
		TG ERECTION	NA	NA	NA
3	ESP	UNDER PROGRESS	100%	100%	92%
4	FGD	CIVIL WORK	89.33%	76.33%	49%
		MATERIAL SUPPLY	74%	66%	69%
		ERECTION WORK	54%	33.5%	7.5%

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	UNIT-03 % Completion
1	Chimney	M/s BHEL	Feb-14	U#1-Dec-18 U#2-Jun-19 U#3-Dec-20	U#2-Oct-23 (A) U#3-Apr-23 (A)	100%	100%	100%
2	Coal Handling Plant	M/s BHEL (Conveyor package)	Feb-14	Dec-18	U#2-Feb-24(A) U#3-Nov-24	100%	100%	83%
		M/s BHEL (Wagon Tripler)	Feb-14	NA	NA	NA	NA	NA
		M/s BHEL(Stacker Reclaimer)	Feb-14	Dec-18	U#1-Nov-22 (A) U#2&3-Nov-24	100%	100%	98%
3	Ash Handling Plant	M/s BHEL	Feb-14	Dec-18	U#1-Jan'23(A) U#2-Mar'24 U#3-Nov'24	100%	100%	75%
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	U#2 – Oct'23(A) U#3 – Nov'24	100%	C-100%; M-100%	C-100%; M-30%
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-Mar'24(A) U#3-Nov'24	100%	100%	50%
11	Switch Yard	BHEL-TBG/Arun Construction Technico India Pvt. Ltd.	Feb-14	Dec-18	U#2-Sep'23(A) U#3-Mar'24(A)	100%	100%	100%
12	Station Transformers	M/s BHEL	Feb-14	Mar-18	U#2-Dec'23(A) U#3-May'24	100%	100%	100%
13	Unit Transformers	M/s BHEL	Feb-14	Jul-18	U#2-Feb'24 U#3-Nov'24	100%	100%	66%
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) NK-Gaya-June'24	100% (Chandwa)	100% (Chandwa)	54% (Gaya)

CRITICAL ISSUES

- Handing over of balance 20 acres Private land corridor to NTPC by CCL for external CHP.
- Slow Progress & delay in Supply of missing materials by EPC (BHEL) agency.
- Delay in readiness of 400 kV NK-Gaya transmission line.
- Major Fire Incident occurred on 19-04-2024 in plant premises. Damage assessment completed, trial run may delay.

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 31months; 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

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 contract)	
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual Trial Run Date
Unit#1	Mar-2018	Jan-22	Dec-2024
Unit#2		Jul-22	Sept-2025
Unit#3		Jan-23	Nov-2025

CLEARANCES AND STATIC DATA

FUEL TYPE	Coal, Pithead	
COAL COMBUSTION TECHNOLOGY	Ultra Supercritical	
APPROVAL DATE / NTP	Nov-2017	
EPC/BTG/BoP Contractor Details (Package Wise)	EPC package awarded to BHEL on 08.03.2018.	
PPA	85% allocated to Jharkhand, PPA signed on 30.03.2016. 15% of powerwill remain as unallocated quota at the disposal of GoI	
COAL LINKAGE/FSA	12 MTPA for Ph-I from Banhardih Coal Mine at a distance of about 110 km. Banhardi Coal Mine transferred to PVUNL vide deed of adherence signed on 02.06.2017. Bridge allocation granted by SLC(LT) upto 24-06-2024; Allocation from CCL; Coal quantity quantified is 9.17 MTPA.	
START UP POWER AGREEMENT	Through 7.5 kms Transmission line : Patratu-Patratu (Main Plant to Katia Substation) D/C Line	
POWER EVACUATION SYSTEM	Tx Line Developer	JUSNL
	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).
	Configuration of Tx Line (S/C or D/C)	D/C
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	
WATER ALLOCATION	Project is envisaged with Air Cooled Condenser Technology. In principle commitment for 27 cusecs water available from Nalkari DamReservoir vide agreement dt 25.01.2016 with GoJ.	
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.	

FINANCIAL DATA (Fig. in Rs. Crore)

ORIGINAL ESTIMATED COST OF THE PROJECT	17112.00
LATEST ESTIMATED COST	18668.00
DATE OF FINANCIAL CLOSURE	
YEAR WISE EXPENDITURE	
2015-16	-----
2016-17	-----
2017-18	992.11
2018-19	601.86
2019-20	695.09
2020-21	1228.66
2021-22	1846.48
2022-23	2849.76
2023-24	2250.39
EXPENDITURE OF MAY'24	38.55
TOTAL EXPENDITURE (upto 31.05.24)	13582

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	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	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	Sep-23	Aug-20	Apr-24	Feb-21	Jul-24
6	TG ERECTION START	Jun-20	Mar-22	Dec-20	Oct-22	Jun-21	June-24
7	HP PIPING ERECTION START	Jul-20	Sept-22	Jan-21	Jun-23	Jul-21	Jun-24
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	Jan-21	Mar-23	Jul-21	Aug-23	Jan-22	Dec-24
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	Jun-21	Apr-24	Dec-21	Sept-24	Jun-22	Jun-25
10	TG BOX UP	May-21	Mar-23	Nov-21	Mar-24	May-22	Dec-24
11	HP PIPING ERECTION COMPLETION	May-21	Jun-24	Nov-21	Oct-24	May-22	May-25
12	START OF OIL FLUSHING	Apr-21	18.11.23	Oct-22	Nov-24	Apr-22	May-25
13	BOILER LIGHT UP	Jun-21	Aug-24	Dec-21	Feb-25	Jun-22	Jul-25
14	CHEMICAL CLEANING COMPLETION	Jul-21	Jun-24	Jan-22	Mar-25	Jul-22	Jul-25
15	STEAM BLOWING START	Jul-21	Aug-24	Jan-22	Apr-25	Jul-22	Jul-25
16	STEAM BLOWING COMPLETION	Sep-21	Sept-24	Mar-22	May-25	Sep-21	Aug-25
17	ROLLING & SYNC.	Nov-21	Oct-24	May-22	Jul-25	Nov-22	Sep-25
18	FULL LOAD	Dec-21	Nov-24	Jun-22	Aug-25	Dec-22	Oct-25
19	TRIAL RUN	Jan-22	**Dec-24**	Jul-22	**Sept-25**	Jan-23	**Nov-25**
20	COD	Mar-22	Sept-24	Sep-22	Mar-25	Mar-23	Sept-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	84%	77%	71%
		STRUCTURE	85%	85%	67%
		PRESSURE PARTS	99%	91%	56%
2	TG	CIVIL	74%	57%	32%
		STRUCTURE	97%	100%	46%
3	ESP	UNDER PROGRESS	87%	92%	69%
4	FGD	CIVIL WORK	70%	71%	58%
		MATERIAL SUPPLY	83%	57%	45%
		ERECTION WORK	30%	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	U1-05.03.21; U2-05.09.21; U3-05.03.22	Feb-25	88%	70%	59%
2	Coal Handling Plant	BHEL PSWR	12.01.2020	08.08.2021	Feb-25	77.4% RCC complete 93.4% Structure 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	78.1% RCC complete; 50.4% Structure complete		
4	Fuel Oil System	BHEL PSWR	07.10.2020	08.06.2021	Feb-25	74% civil works		
5	ACC	BHEL	08.04.2022	14.10.2021	Feb-25	64.96%	35.28%	29.06%
6	CW Pump house	NA (ACC is envisaged)				(Air Cooled Condenser)		
7	WPT Plant	BHEL PSWR	14.01.2021	20.03.2021	Feb-25	66% RCC complete		
8	DM Plant	BHEL PSWR		27.03.2021	Feb-25	66% RCC complete		
9	Compressed Air System	BHEL PSWR	04.07.2020	03.02.2021	Feb-25	97% Structure erection completed		
10	Fire Protection System	BHEL-PESD, Hyderabad	25.05.2021	18.05.2021	Feb-25	99% RCC civil works		
11	Switch Yard	BHEL-TBG	01.05.2020	08.10.2021	Feb-25	92% RCC complete		
12	Station Transformers	BHEL-Bhopal		18.02.2021	Feb-25	33%		
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	31% (Award of sub pkg yet to be done)		
15	Power Evacuation Lines	JUSNL		08.10.2021	Feb-25	Patratu-Patratu Line – Civil:32%; Patratu-Koderma Line-Civil:0%		

CRITICAL ISSUES

Delay in Readiness of Power evacuation system by JUSNL;

Slow Progress in ACC works by BHEL;

Availability of encumbrance free land for Ash Mound

REASONS OF DELAY

- Poor performance of few sub-agencies of BHEL.

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(BTG) -BHEL (EPC contract)	
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual Trial Run Date
Unit#1	Sep-2022	Nov-2026	Mar-2027
Unit#2		May-2027	Jun-2027

CLEARANCES AND STATIC DATA

FUEL TYPE	Coal	
COAL COMBUSTION TECHNOLOGY	Ultra-supercritical	
APPROVAL DATE / NTP	Investment Approval: 26.08.2022	
EPC/BTG/BoP Contractor Details (Package Wise)	EPC Package for TTPP St-III(2X660 MW) awarded to M/s BHEL on 27.09.2022	
PPA	PPA signed; Odisha SEB: 50% (660 MW) on 02.08.2022; Tamil Nadu SEB: 35% (460 MW) on 26.09.2022; Unallocated- 15%	
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	
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.	
POWER EVACUATION SYSTEM	Tx Line Developer	Yet to be awarded
	Tx Line Name Tx Voltage Level	(400 kV Gas Insulated Switchyard)
	Configuration of Tx Line (S/C or D/C)	-
LAND POSSESSION	Total Land: 194.82 Acre(Main Plant-191 Acre, Railway Siding-1.48 Acre; Make up water -2.34 Acre to be acquired) ROU/ROW of Land- 77.63 for Make up water Corridor. Approval under process.	
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.	

FINANCIAL DATA (Fig. in Rs. Crore)

ORIGINAL ESTIMATED COST OF THE PROJECT	11843.75
LATEST ESTIMATED COST	11843.75
DATE OF FINANCIAL CLOSURE	
YEAR WISE EXPENDITURE	
2021-22	49.10
2022-23	494.40
2023-24	802.59
EXPENDITURE OF MAY'2024	100.91
TOTAL EXPENDITURE (upto 31.05.2024)	1521.89

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.

Status as on 31-05-2024

TALCHER THERMAL POWER PROJECT, St-III, Unit# 1 & 2 (2X660 MW) / 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	Jan-24	25.01.2024	Sept-24
2	START OF BOILER ERECTION	26.09.2023	Jan-24	26.01.2024	Sept-24
3	BOILER DRUM LIFTING (if sub-critical unit)	NA		NA	
4	BOILER CEILING GIRDER LIFTING COMPLETION	25.07.2024	Jan-25	25.11.2024	Mar-25
5	CONDENSER ERECTION START	31.07.2024	May-25	30.11.2024	Sept-25
6	TG ERECTION START	07.08.2024	Jun-25	07.12.2024	Oct-25
7	HP PIPING ERECTION START	04.08.2024	Jan-25	04.12.2024	Aug-25
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	26.07.2025	Mar-26	26.11.2025	Sep-26
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	29.11.2025	May-26	29.03.2026	Nov-26
10	TG BOX UP	25.09.2025	Jul-26	25.01.2026	Nov-26
11	HP PIPING ERECTION COMPLETION	25.01.2026	Jun-26	25.05.2026	Jan-27
12	START OF OIL FLUSHING	27.09.2025	Jul-26	27.01.2026	Nov-26
13	BOILER LIGHT UP	13.01.2026	Nov-26	13.05.2026	Mar-27
14	CHEMICAL CLEANING COMPLETION	26.01.2026	Nov-26	26.05.2026	Mar-27
15	STEAM BLOWING START	27.02.2026	Dec-26	27.06.2026	Apr-27
16	STEAM BLOWING COMPLETION	26.03.2026	Dec-26	26.07.2026	Apr-27
17	ROLLING & SYNC.	26.05.2026	Jan-27	26.09.2026	May-27
18	FULL LOAD	25.06.2025	Feb-27	25.10.2026	Jun-27
19	TRIAL RUN	24.11.2026	**Mar-27**	24.05.2027	**Jun-27**
20	COD	24.12.2026	Mar-27	24.06.2027	Jul-27

STATUS OF MAIN PLANT PACKAGE (BTG) : BHEL (EPC contract)

Sl.	Packages	AREA	UNIT-01 % Completion	UNIT-02 % Completion
1	BOILER	CIVIL	95%	65%
		STRUCTURE	17%	0%
		PRESSURE PARTS	0%	0%
2	TG	CIVIL	60%	26%
		STRUCTURE	0%	0%
		TG ERECTION	0%	0%
3	ESP	UNDER PROGRESS	41.60%	15.20%
4	FGD	CIVIL WORK	7%	2%
		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)	54%	
2	Coal HandlingPlant	Conveyor Package - BHEL	Sep-22	Jan-26	Jan-26 (U1) May-26 (U2)	10%	
		Track Hopper- BHEL	Sep-22	NA	Jan-26 (U1) May-26 (U2)	10%	
		Stacker Reclaimer - BHEL	Sep-22	Jan-26	Jan-26 (U1) May-26 (U2)	8%	
3	Ash Handling	BHEL	Sep-22	Apr-26	Apr-26 (U1) Aug-26 (U2)	9%	
4	Fuel Oil System	BHEL	Sep-22	Nov-25	Nov-25 (U1) Mar-26 (U2)	12%	12%
5	Cooling Towers	BHEL	Sep-22	Dec-25	Dec-25 (U1) Apr-26 (U2)	28%	28%
6	CW Pump House and Piping	BHEL	Sep-22	Nov-25	Nov-25 (U1) Mar-26 (U2)	18%	18%
7	WPT Plant	BHEL	Sep-22	Sep-25	Sep-25 (U1) Jan-26 (U2)	5%	5%
8	DM Plant	BHEL	Sep-22	Jul-25	Jul-25 (U1) Nov-25 (U2)	12.80%	12.80%
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)	13.60%	13.60%
11	Switch Yard	BHEL	Sep-22	Mar-26	Mar-26 (U1) Jul-26 (U2)	31.60%	
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	a. ISTS connectivity: Talcher Stage-III to ISTS Pandiabili [Power Grid] pooling station (App. 120kms); b. STU connectivity: Talcher stage-III to Meramundali-B [OPTCL] (App.12kms).					

CRITICAL ISSUES

1. Closure of Anand Bazaar – Jaganathpur Road passing through Main Plant area is awaited. This is critical in view of Safety and Security in construction area. Alternate road (Jaganathpur bypass road) has already been constructed by NTPC.

2. Relocation of Bi-weekly Haat (Anand Bazar): There is a bi-weekly market located near the entrance gate of TTPS through which trucks/ trailers carrying construction/ project materials pass. Relocation of the haat is required from NTPC land as the area becomes very crowded and is a bottleneck for safe movement of materials and Safety of public.

REASONS OF DELAY

-NA-

Status as on 31-05-2024

LARA SUPER THERMAL POWER PROJECT, St-II, Unit# 1 & 2 (2X800 MW) / NTPC (CENTRAL SECTOR)

Lara Super Thermal Power Project, Village - Chhapora, PO/PS- Pussore. Distt.-Raigarh(C.G.)-496440
E-Gen Portal Registration No. (U#1 - 1200003870 ; U#2 - 1200003871)

Project Developer / Implementing Agency - NTPC		Main Plant Vendor (BTG) -BHEL(EPC contract)	
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual Trial Run Date
Unit#1	Aug-2023	Dec-2027	Dec-2027
Unit#2		Jun-2028	Jun-2028

CLEARANCES AND STATIC DATA

FUEL TYPE	Coal Based	
COAL COMBUSTION TECHNOLOGY	Ultra-Supercritical	
APPROVAL DATE / NTP	29.08.23	
EPC/BTG/BoP Contractor Details (Package Wise)	BHEL-EPC	
PPA	PPA signed. Consent from Beneficiaries available Chhattisgarh: 50%, Power allocation to following states as per MoP allocation: Gujarat, Madhya Pradesh, Maharashtra, Goa, Daman & Diu, DNH	
COAL LINKAGE/FSA	7 MMTPA coal from Talaipalli Coal block allocated to NTPC	
START UP POWER AGREEMENT	To be finalised by CTU	
POWER EVACUATION SYSTEM	Tx Line Developer	To be finalised by CTU
	Tx Line Name Tx Voltage Level	• ISTS connectivity: Talcher Stage-III to ISTS Pandiabili [Power Grid] pooling station • STU connectivity: Talcher stage-III to Meramundali-B [OPTCL]
	Configuration of Tx Line (S/C or D/C)	To be finalised by CTU
LAND POSSESSION	Available; Land available for Stage-II: ~ 520 acres	
WATER ALLOCATION	Available; 76 cusec for Stage-II; Source is Mahanadi River, from Saradih Barrage (38 kms from Plant).	
MOEF CLEARANCE	Available (issued on 17.07.23)	
CIVIL AVIATION CLEARANCE	Available Valid up to 17.05.2030	
CPCB CLEARANCE	Not applicable	
SPCB CLEARANCE	In Process	
FOREST CLEARANCE	Not applicable	

FINANCIAL DATA (Fig. in Rs. Crore)

ORIGINAL ESTIMATED COST OF THE PROJECT	15530.00
LATEST ESTIMATED COST	15530.00
DATE OF FINANCIAL CLOSURE	
YEAR WISE EXPENDITURE	
2022-23	252
2023-24	500
EXPENDITURE OF MAY'2024	1
TOTAL EXPENDITURE (upto 31.05.2024)	776.2

Status as on 31-05-2024

LARA SUPER THERMAL POWER PROJECT, Unit# 1 & 2 (2X800 MW, St-II) / NTPC (CENTRAL SECTOR)

UNIT WISE MILESTONES (ANTICIPATED / ACTUAL)

Sl.	MILESTONE (Tentative Dates)	UNIT-01		UNIT-02	
		Original Date	Actual / Anticipated Date	Original Date	Actual / Anticipated Date
1	COMPLETION OF BOILER FOUNDATION				
2	START OF BOILER ERECTION	Oct-2024	Oct-2024	April-2025	April-2025
3	BOILER DRUM LIFTING (if sub-critical unit)				
4	BOILER CEILING GIRDER LIFTING COMPLETION	Aug-2025	Aug-2025	Feb-2026	Feb-2026
5	CONDENSER ERECTION START	Oct-2025	Oct-2025	Apr-2026	April-2026
6	TG ERECTION START	Nov-2025	Nov-2025	May-2026	May-2026
7	HP PIPING ERECTION START	Sept-2025	Sept-2025	Mar-2026	Mar-2026
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION				
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	Feb-2027	Feb-2027	Aug-2027	Aug-2027
10	TG BOX UP	Jan-2027	Jan-2027	Oct-2027	Oct-2027
11	HP PIPING ERECTION COMPLETION	April-2027	April-2027	Oct-2027	Oct-2027
12	START OF OIL FLUSHING	Dec-2026	Dec-2026	June-2026	June-2026
13	BOILER LIGHT UP	June-2027	June-2027	Dec-2027	Dec-2027
14	CHEMICAL CLEANING COMPLETION	June-2027	June-2027	Dec-2027	Dec-2027
15	STEAM BLOWING START	June-2027	June-2027	Dec-2027	Dec-2027
16	STEAM BLOWING COMPLETION	July-2027	July-2027	Feb-2028	Feb-2028
17	ROLLING & SYNC.	Oct-2027	Oct-2027	April-2028	April-2028
18	FULL LOAD	Nov-2027	Nov-2027	May-2028	May-2028
19	TRIAL RUN	Dec-2027	**Dec-2027**	Jun-2028	**Jun-2028**
20	COD	Jan-2028	Jan-2028	Jul-2028	Jul-2028

STATUS OF MAIN PLANT PACKAGE (BTG) : BHEL

Sl.	Packages	AREA	UNIT-01 % Completion	UNIT-02 % 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	Aug'23	U#1-Oct26 U#2-Feb27	U#1-Oct26 U#2-Feb27	0%	0%
2	Coal HandlingPlant	Conveyor Package -	Aug'23	U#1-Dec26 U#2-Apr27	U#1-Dec26 U#2-Apr27	0%	0%
		Wagon Tippler – NA	NA	NA	NA	NA	NA
		Stacker Reclaimer -	Aug'23	U#1-Dec26 U#2-Apr27	U#1-Dec26 U#2-Apr27	0%	0%
3	Ash Handling	BHEL	Aug'23	U#1-Feb27 U#2-Jun27	U#1-Feb27 U#2-Jun27	0%	0%
4	Fuel Oil System	BHEL	Aug'23	U#1-Oct26 U#2-Feb27	U#1-Oct26 U#2-Feb27	0%	0%
5	Cooling Towers	BHEL	Aug'23	U#1-Sep26 U#2-Jan27	U#1-Sep26 U#2-Jan27	0%	0%
6	CW Pump	BHEL	Aug'23	U#1-Sep26 U#2-Jan27	U#1-Sep26 U#2-Jan27	0%	0%
7	WPT Plant	BHEL	Aug'23	U#1-Aug26 U#2-Dec26	U#1-Aug26 U#2-Dec26	0%	0%
8	DM Plant	BHEL	Aug'23	U#1-Jun26 U#2-Oct26	U#1-Jun26 U#2-Oct26	0%	0%
9	Compressed Air System	BHEL	Aug'23	U#1-Sep26 U#2-Jan27	U#1-Sep26 U#2-Jan27	0%	0%
10	Fire Protection System	BHEL	Aug'23	U#1-Jul27 U#2-Nov27	U#1-Jul27 U#2-Nov27	0%	0%
11	Switch Yard	BHEL	Aug'23	U#1-Feb27 U#2-Jun27	U#1-Feb27 U#2-Jun27	0%	0%
12	Station Txer	BHEL	Aug'23	U#1-Feb26 U#2-Jun26	U#1-Feb26 U#2-Jun26	0%	0%
13	Unit Txer	BHEL	Aug'23	U#1-Apr27 U#2-Aug27	U#1-Apr27 U#2-Aug27	0%	0%
14	Railway Siding	RITES	Application filed to Railways for FR approval			0%	0%
15	Power evacuation	Application for connectivity submitted					

CRITICAL ISSUES

REASONS OF DELAY

Singrauli STPP, St-III, Unit#8 & 9 (2X800 MW) / NTPC (CENTRAL SECTOR)

Shaktinagar, Sonebhadra, Uttar Pradesh

E-Gen Portal Registration No. (U#8 –1200003908, U#9 –1200003909)

Project Developer / Implementing Agency -NTPC		Main Plant Vendor - M/s BHEL (EPC contract)	
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual Trial Run Date
Unit#8	05-03-2024	May-29	May-29
Unit#9		Feb-30	Feb-30

CLEARANCES AND STATIC DATA	
FUEL TYPE	Coal, Pithead
COAL COMBUSTION TECHNOLOGY	Ultra-Supercritical
APPROVAL DATE / NTP	03.03.2024 (Investment Approval)
PPA	PPA signed with UPPCL, PSPCL, RUVNL, UPCL, Consent available from J&K
COAL LINKAGE/FSA	21.04.2020,NCL,G-10 and 5.61 MTPA
START UP POWER AGREEMENT	400 kV D/c Interconnection Between VSTPP-V to Singruali-III with twin Moose conductor.
POWER EVACUATION SYSTEM	Power evacuation proposed at 400 kV with provision of 6 nos. outgoing line bays. To be finalised by CTUIL
LAND POSSESSION	Land is available and in possession.
WATER ALLOCATION	48 cusec from Rihand reservoir
MOEF CLEARANCE	Available vide MoEF&CC Letter dated 13.07.2020
CIVIL AVIATION CLEARANCE	Available vide AAI Letter dated 27.11.2018
CPCB CLEARANCE	Available
SPCB CLEARANCE	Available
FOREST CLEARANCE	Available

FINANCIAL DATA (Fig. in Rs. Crore)	
ORIGINAL ESTIMATED COST OF THE PROJECT	17195.31
LATEST ESTIMATED COST	17195.31
DATE OF FINANCIAL CLOSURE	03.03.2024
YEAR WISE EXPENDITURE	
EXPENDITURE OF MAY'24	532.92
TOTAL EXPENDITURE (up to 31.05.24)	532.92

Status as on 31-05-2024

Singrauli STPP, St-III, Unit#8 & 9 (2X800 MW) / NTPC (CENTRAL SECTOR)

UNIT WISE MILESTONES (ANTICIPATED/ ACTUAL)

Sl.	Milestone	UNIT-08		UNIT-09	
		Original Date of Completion	Actual / Anticipated Date of Completion	Original Date of Completion	Actual / Anticipated Date of Completion
1	Completion Of Boiler Foundation	Nov-25	Nov-25	Aug-26	Aug-26
2	Start Of Boiler Erection	Nov-25	Nov-25	Aug-26	Aug-26
3	Boiler Ceiling Girder Lifting Completion	Mar-26	Mar-26	Dec-26	Dec-26
4	Condenser Erection Start	Oct-26	Oct-26	Jul-27	Jul-27
5	TG Erection Start	Nov-26	Nov-26	Aug-27	Aug-27
6	HP Piping Erection Start	Jun-26	Jun-26	Mar-27	Mar-27
7	Boiler Hydro Test (Drainable) Completion	Sep-27	Sep-27	Jun-28	Jun-28
8	Boiler Hydro Test (Non-Drainable) Completion	Nov-27	Nov-27	Aug-28	Aug-28
9	TG BOX UP	Mar-28	Mar-28	Dec-28	Dec-28
10	HP Piping Erection Completion	May-28	May-28	Feb-29	Feb-29
11	Start Of Oil Flushing	Apr-28	Apr-28	Jan-29	Jan-29
12	Boiler Light Up	May-28	May-28	Feb-29	Feb-29
13	Chemical Cleaning Completion	Jun-28	Jun-28	Mar-29	Mar-29
14	Steam Blowing Start	Aug-28	Aug-28	May-29	May-29
15	Steam Blowing Completion	Sep-28	Sep-28	Jun-29	Jun-29
16	Rolling & Sync.	Mar-29	Mar-29	Dec-29	Dec-29
17	Full Load	Apr-29	Apr-29	Jan-30	Jan-30
18	Trial Run	**May-29**	**May-29**	**Feb-30**	**Feb-30**
19	COD	Jun-29	Jun-29	Mar-30	Mar-30

STATUS OF MAIN PLANT PACKAGE (BTG-BHEL)

Sl	PACKAGE	AREA	UNIT-01	UNIT-02
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 (DPSI)	Date of Award	Scheduled Date of Comp.	Ant/ Actual Date of Comp.	UNIT 08	UNIT 09
1	Chimney	BHEL is in process of tendering Civil Packages				0%	0%
2	Coal Handling Plant					0%	0%
						0%	0%
						0%	0%
3	Ash Handling Plant					0%	0%
4	Fuel Oil System					0%	0%
5	Cooling Towers					0%	0%
6	CW Pump house					0%	0%
7	WPT Plant					0%	0%
8	DM Plant					0%	0%
9	Compressed Air System					0%	0%
10	Fire Protection System					0%	0%
11	Switch Yard					0%	0%
12	Station Transformers					0%	0%
13	Unit Transformers					0%	0%
14	Railway Siding					0%	0%
15	Power Evacuation Lines					0%	0%

CRITICAL AREAS

REASONS OF DELAY

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-2024		
Unit#2		Nov-2020	Nov-2024		
Unit#3		May-2021	Mar-2025		

CLEARANCES AND STATIC DATA

FUEL TYPE	Coal, Indigenous	
COAL COMBUSTION TECHNOLOGY	Supercritical	
APPROVAL DATE / NTP	GoI Sanction - 27.07.2016	
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	
PPA	75% PPA Signed with Uttar Pradesh Power Corporation Ltd.(UPPCL). Balance 25% PPA signed with Assam PDCL.	
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.	
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).	
POWER EVACUATION SYSTEM	Tx Line Developer	M/S GTL
	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
	Configuration of Tx Line (S/C or D/C)	Both
LAND POSSESSION	Total Pocket land-52.33 Ha. (As per initial approval); Total Pocket land registered/ Acquired- 47.4790 Ha. (As per current reconciliation);	
WATER ALLOCATION	80 cusec from UP Irrigation department (44.6 km from GTPP)	
MOEF CLEARANCE	Clearance obtained date from concerned authority-: 17.06.2015 validity of it (If any).:- 7 Years	
CIVIL AVIATION CLEARANCE	Clearance obtained date from concerned authority:- 13.12.2013 Validity : - 5 Years, NUPPL had sent compliance to AAI regarding the	
CPCB CLEARANCE	NOT APPLICABLE	
SPCB CLEARANCE	Clearance obtained date from concerned authority,:- 17.11.2017; validity of it.- 5 Years	
FOREST CLEARANCE	NOT APPLICABLE	

FINANCIAL DATA (Fig. in Rs. Crore)

ORIGINAL ESTIMATED COST OF THE PROJECT	17237.80
LATEST ESTIMATED COST	19406.12
DATE OF FINANCIAL CLOSURE	22.06.2021
YEAR WISE EXPENDITURE	
2016-17	927.76
2017-18	1228.45
2018-19	3517.83
2019-20	3525.17
2020-21	2260.09
2021-22	1901.77
2022-23	1511.60
2023-24	1860.98
EXPENDITURE OF MAY'2024	156.24
TOTAL EXPENDITURE (upto 31.05.2024)	17116.66

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	Jun-24
13	BOILER LIGHT UP	30.11.2019	28.02.2022	30.05.2020	Jun-24	30.11.2020	Nov-24
14	CHEMICAL CLEANING COMPLETION	30.10.2019	24.07.2021	30.04.2020	Jun-24	30.10.2020	Sep-24
15	STEAM BLOWING START	15.12.2020	23.06.2022	30.05.2020	Jun-24	30.11.2020	Oct-24
16	STEAM BLOWING COMPLETION	30.01.2020	13.08.2022	15.06.2020	Jul-24	15.12.2020	Dec-24
17	ROLLING & SYNC.	01.03.2020	04.11.2023	31.08.2020	Sep-24	01.03.2021	Jan-25
18	FULL LOAD	01.04.2020	Jun-24	31.10.2020	Oct-24	01.04.2021	Feb-25
19	TRIAL RUN	29.05.20	**Jul-24**	27.11.20	**Nov-24**	29.05.21	**Mar-25**
20	COD	01.06.20	Aug-24	30.11.20	Dec-24	01.06.21	Apr-25

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	96%	93%	94%
		STRUCTURE	99%	98%	97%
		PRESSURE PARTS	100%	100%	100%
2	TG	CIVIL	100%	100%	99%
		STRUCTURE	100%	100%	100%
3	ESP	UNDER PROGRESS	100%	100%	99%
4	FGD	CIVIL WORK	GA-3 Package material shifting from FGD area is under progress, 1900Mt of GA-3 material already shifted.		
		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 24; U2-Jul 24; U3-Octt 24	99.5%	84%	43%
2	Coal Handling Plant	Conveyor Pkg – BGR Energy System Ltd.	21.11.2016	20.07.2019	Jun24, Oct 24, Nov 24	78%	19%	9%
		Wagon Tippler - BGR Energy System Ltd.	21.11.2016	U1-Jul19, U2&3-Jan20	U1-Jun 24, U2&3-Aug 24	70%	0%	
		Stacker Reclaimer - BGR Energy System Ltd.	21.11.2016	U1-Jun19, U2&3-Feb20	SR1-Sep 24, SR2-Oct 24	27%	9%	
3	Ash Handling Plant	BGR Energy System Ltd.	21.11.2016	Jul19, Mar20, Feb20	Jun24, Oct24, Dec24	68%	74%	58%
4	Fuel Oil System	L&T MHI Power Boilers Pvt Ltd	21.11.2016	24.10.2019	Jun-24	99%		
5	Cooling Towers	BGR Energy System Ltd.	21.11.2016	20.11.2020	Jun24, Oct24, Feb25	Civil:99%, Mech.85%	Civil: 66%, Mech. 0%	Civil:42%, Mech. 0%
6	CW Pump house	BGR Energy System Ltd.	21.11.2016	20.11.2020	Jun24, Jul24, Aug24	99%	56%	36%
7	WPT Plant	BGR Energy System Ltd.	21.11.2016	20.04.2019	Jun-24	99%		
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	Jun24, Sep24, Oct24	70%	14.8%	4%
11	Switch Yard	BGR Energy System Ltd.	21.11.2016	20.02.2020	Jul'24	400kV-59%, 765kV-96%, Outdoor Switchyard-86%		
12	Station Transformers	GE-Power Systems India Pvt. Ltd.	02.08.2016	Apr19, Oct19, Apr20	Feb21(A), Aug22(A), Jun-24	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), Jun-24	100.0%	100%	95.0%
14	Railway Siding	RITES	29.03.2019	28.03.2021	Jun-24	Civil work – 99.25% Electrical – 97%		
15	Power Evacuation Lines	Ghatampur Transmission Ltd	12.06.2018	26.02.2020	17.05.2020(A)	400kV D/C GTPS-Kanpur -100%		
				26.09.2020	27.03.2021(A)	765kV S/C GTPS-Agra -100%		
				26.03.2021	25.12.2021(A)	765kV S/C GTPS-Hapur - 100%		

CRITICAL ISSUES

- Slow work progress in BoP areas i.e. CHP, AHP areas.
- Delay in material supply in CHP (Wagon Tippler, S/R)
- Delay in making conveyor gallery from mobile crusher to Tippler Floor

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.

Status as on 31-05-2024

NLC TALABIRA TPP, Unit# 1, 2 & 3 (3X800 MW) / NLC (CENTRAL SECTOR)

Office of the CGM & Project Head, Talabira Thermal Power Project, NLC India Ltd, Ainthapalli, Sambalpur – 768 001

E-Gen Portal Registration No. (U#1 - 1200003602 ; U#2 - 1200003603 ; U#3 - 1200003604)

Project Developer / Implementing Agency -NLCIL		Main Plant Vendor - M/s BHEL (EPC contract)	
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual Trial Run Date
Unit#1	12-01-2024	May-2028 (Tentative)	May-2028 (Tentative)
Unit#2		Nov-2028 (Tentative)	Nov-2028 (Tentative)
Unit#3		Apr-2029 (Tentative)	Apr-2029 (Tentative)

CLEARANCES AND STATIC DATA

FUEL TYPE	Coal, Pithead
COAL COMBUSTION TECHNOLOGY	Ultra-Supercritical
APPROVAL DATE / NTP	NTP - Within 11 months from the date of submission of price bid (29.12.2023)
PPA	"100% PPA available. PPA signed with: a) TANGEDCO for 1500 MW on 16.03.2022(62.50%) b) Puducherry Electricity Dept for 100 MW on 09.05.2022 (4.17%) c) KSEBL for 400 MW on 19.10.2022 (16.67%) d) GRIDCO for 400 MW on 28.09.2023 (16.67%)"
COAL LINKAGE/FSA	Coal Linkage from Talabira II & III OCP 10.56 Million Tonnes of coal per annum. GCV of about 3700 kCal/kg. [Grade: G-12]
START UP POWER AGREEMENT	Start up power will be drawn from CTU network, planned at 36th month from the date of NTP. Start up power agreement will be made with ERLDC as per CERC guidelines and prior to 36th month.
POWER EVACUATION SYSTEM	Out of 2400 MW project, the 2000 MW will be connected at CTU substation, and 400 MW will be connected at STU substation. The power required for Interstate Transmission will be evacuated through 2 Nos. D/C 765 KV transmission lines (LILO) to Jharsuguda (Sundargarh) Substation & Angul Substation of PGCIL, which is at a distance of about 25 km. The power required for the state of Odisha will be evacuated through 1 no. D/C 400 kV transmission line to nearby OPTCL Substation (Lapanga).
LAND POSSESSION	"Requirement- 1694.5 Ac. Advance Posession: 692 Ac. Land in Use: 0 Ac."
WATER ALLOCATION	The Govt. of Odisha has granted approval for 90 cusecs for the Phase-I 3X 800 MW and Phase-II 1x800 MW project from Hirakud Reservoir.
MOEF CLEARANCE	"EC Obtained on 02.02.2021 (Validity 7 years from 02.02.2021)"
CIVIL AVIATION CLEARANCE	Obtained on 18.07.2018 from AAI
CPCB CLEARANCE	Not Applicable
SPCB CLEARANCE	Not Applicable
FOREST CLEARANCE	Not Applicable

FINANCIAL DATA (Fig. in Rs. Crore)

ORIGINAL ESTIMATED COST OF THE PROJECT	19,422.44
LATEST ESTIMATED COST	27,212.96
DATE OF FINANCIAL CLOSURE	
YEAR WISE EXPENDITURE	
2017-18	1.01
2018-19	28.3
2019-20	2.82
2020-21	2.05
2021-22	21.31
2022-23	519.40
2023-24 (tentative)	16.62
Expenditure of May'24	125.05
TOTAL EXPENDITURE (up to 31.05.24-tentative)	954.95

Status as on 31-05-2024

NLC TALABIRA TPP, Unit# 1, 2 & 3 (3X800 MW) / NLC (CENTRAL SECTOR)

UNIT WISE MILESTONES (ANTICIPATED / ACTUAL)

SI.	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						
2	Start Of Boiler Erection						
3	Boiler Ceiling Girder Lifting Completion						
4	Condenser Erection Start						
5	TG Erection Start						
6	HP Piping Erection Start						
7	Boiler Hydro Test (Drainable) Completion						
8	Boiler Hydro Test (Non-Drainable) Completion						
9	TG BOX UP						
10	HP Piping Erection Completion						
11	Start Of Oil Flushing						
12	Boiler Light Up						
13	Chemical Cleaning Completion						
14	Steam Blowing Start						
15	Steam Blowing Completion						
16	Rolling & Sync.						
17	Full Load						
18	Trial Run						
19	COD						

STATUS OF MAIN PLANT PACKAGE (BTG) - M/s BHEL

SI	PACKAGE	AREA	UNIT-01	UNIT-02	UNIT-03
1	BOILER	CIVIL			
		STRUCTURE			
		PRESSURE PARTS			
2	TG	CIVIL			
		STRUCTURE			
		TG ERECTION			
3	ESP	UNDER PROGRESS			
4	FGD	CIVIL WORK			
		MATERIAL SUPPLY			
		ERECTION WORK			

STATUS OF BOPs

Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (DPSI)	Date of Award	Scheduled Date of Comp.	Ant/ Actual Date of Comp.	UNIT01	UNIT02	UNIT03
1	Chimney							
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 AREAS

-

REASONS OF DELAY

-

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 - L&T/MHI and TG - BHEL	
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual Trial Run Date
Unit#1	Aug-2019	Jul-2023	Sept-2024
Unit#2		Jan-2024	Dec-2024

CLEARANCES AND STATIC DATA

FUEL TYPE	Coal, Indigenous	
COAL COMBUSTION TECHNOLOGY	Ultra Supercritical	
APPROVAL DATE / NTP	07.03.2019.	
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)	
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.	
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.	
POWER EVACUATION SYSTEM	Tx Line Developer	PGCIL and UPPTCL
	Tx Line Name Tx Voltage Level	i) Khurja STPP- Aligarh 400 KV, D/C line (PGCIL) ii) Aligarh-Shamli 400 KV line , D/C, LILOing at Khurja STPP (UPPTCL).
	Configuration of Tx Line (S/C or D/C)	D/C
LAND POSSESSION	Small Patches of land within the boundary of already acquired 1201 Acre land by UPSIDC and handed over to THDCIL .	
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	

FINANCIAL DATA (Fig. in Rs. Crore)

ORIGINAL ESTIMATED COST OF THE PROJECT	11089.42
LATEST ESTIMATED COST	Not Revised
DATE OF FINANCIAL CLOSURE	
YEAR WISE EXPENDITURE	
2016-17	338.92
2017-18	10.66
2018-19	148.87
2019-20	439.95
2020-21	789.69
2021-22	2158.93
2022-23	2825.84
2023-24	3145.21
EXPENDITURE OF May'2024	224.47
TOTAL EXPENDITURE (upto 31.05.2024)	10388.81

Status as on 31-05-2024

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

UNIT WISE MILESTONES (ANTICIPATED / ACTUAL)

Sl.	MILESTONE	UNIT-01		UNIT-02	
		Original Date	Actual / Anticipated Date	Original Date	Actual / Anticipated Date
1	COMPLETION OF BOILER FOUNDATION	29.09.2020	20.01.2021	29.03.2021	15.11.2021
2	START OF BOILER ERECTION	29.10.2020	20.02.2021	29.04.2021	17.08.2021
3	BOILER DRUM LIFTING (if sub-critical unit)	NA		NA	
4	BOILER CEILING GIRDER LIFTING COMPLETION	28.05.2021	12.02.2022	28.11.2021	09.09.2022
5	CONDENSER ERECTION START	02.09.2021	25.03.2022	19.01.2022	19.01.2023
6	TG ERECTION START	03.09.2021	25.05.2022	03.03.2022	25.02.2023
7	HP PIPING ERECTION START	28.06.2021	20.10.2022	28.12.2021	28.02.2023
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	29.05.2022	15.03.2023	29.11.2022	02.11.2023
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	NA	NA	NA	NA
10	TG BOX UP	04.08.2022	20.07.2023	04.02.2023	15.06.24
11	HP PIPING ERECTION COMPLETION	26.10.2022	15.01.24	26.04.2023	Jun-24
12	BOILER LIGHT UP	29.10.2022	Mar-24	29.04.2023	Aug-24
13	CHEMICAL CLEANING COMPLETION	29.10.2022	18.02.24	29.04.2023	Jul-24
14	OIL FLUSHING COMPLETION	03.11.2022	07.11.2023	03.05.2023	July-24
15	STEAM BLOWING START	29.11.2022	18.5.24	29.05.2023	Aug-24
16	STEAM BLOWING COMPLETION	29.12.2022	June-24	29.06.2023	Sep-24
17	ROLLING & SYNC.	02.04.2023	July-24	02.10.2023	Oct-24
18	FULL LOAD	02.06.2023	Aug-24	02.12.2023	Nov-24
19	TRIAL RUN	02.07.2023	Sep-24	02.01.2024	Dec-24
20	COD	02.08.2023	Oct-24	02.02.2024	Jan-25

STATUS OF MAIN PLANT PACKAGE (BTG) : SG:L&T MHI, TG: BHEL

Sl.	Packages	AREA	UNIT-01 %	UNIT-02 %
1	BOILER	CIVIL	100%	100%
		STRUCTURE	90%	62%
		PRESSURE PARTS	100%	100%
2	TG	CIVIL	100%	100%
		STRUCTURE	100%	100%
		PRESSURE PARTS	100%	55%
3	ESP	UNDER PROGRESS	88%	13%
4	FGD	CIVIL WORK	100 % RCC completed	90%
		MATERIAL SUPPLY	98%	89%
		ERECTION WORK	88 %	30%

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	UNIT-02 % Completion
1	Chimney	L&T MHI Power Boilers Pvt. Ltd	27.09.2020	14.04.2023	U#1-Mar'24 U#2-Aug'24	Unit-1: RCC- 100%; Unit-2: RCC-100%	
2	Coal Handling Plant	Thyssenkrupp Industries India Pvt. Ltd.	04.08.2021	04.12.2023	July.'24	72%	
3	Ash Handling Plant	M/s L&T MHI Power Boilers Pvt. Ltd	11.06.2020	20.02.2023	Aug'24	100% of Piling and 92% of RCC	
4	Fuel Oil System	M/s L&T MHI Power Boilers Pvt. Ltd	30.09.2021	08.10.2022	15,Dec-23	100% LDO tanks; 100% FOPH	
5	Cooling Towers	M/s Paharpur Cooling Towers Ltd	16.04.2021/ 13.10.2021	14.06.2023/ 14.12.2023	Jun-24/ Jul-24	U-1: 100% of civil work completed	U-2: 96% of civil work completed
6	CW Pump house	Flowmore Ltd.	15.03.2022	28.12.2023	Civil-Jun-24 Mech-Oct 24	77%	
7	WPT Plant	Gaja Engineering Pvt. Ltd.	30.11.2021	25.08.2023	17-01-24	Civil : 100% Mech: 91%	
8	DM Plant		30.11.2021	30.09.2023	30-06-24	Civil : 100% Mech: 94%	
9	DM Water Transfer Pump House						
10	Compressed Air System	M/s L&T MHI Power Boilers Pvt. Ltd	04-02-2022	08.10.22	31-01-24	Civil Work: 100% Erection:100%	
11	Fire Protection System	Gaja Engineering Pvt. Ltd		31.08.23	Jun-24	Civil – 100%; Mech-82%	
12	Switch Yard	GET&D	16.09.2020	25.03.2023/ 25.09.2023	U#1– Jun-24 U#2 – Sep-24	94.0%	
13	Ash Dyke Package	M/s JPW Infratech Pvt Ltd	11.03.2022	10.09.2024	10.09.2024	60%	
14	Station Transformers	BHEL	09.08.2020	04.02.2022/ 30.07.2022	24.07.2023/ 31.07.2024	ST-1:100% ST-2:80%	
15	Unit Transformers	BHEL	08.09.2020	15.07.2022	Jun-2024	Civil: 100% Mfg: 100%	
20	Railway Siding	M/s Jhajhariya Nirman Ltd; M/s ISC-CMIPL (JV)	13.11.2020	13.09.2022	Jul-24	98%	
21	Power Evacuation Lines	M/s Unitech Power Transmission M/s Hyosung India	02.03.2021	01.06.2022	24.12.2022(A)	100% Tx line work completed	

CRITICAL ISSUES

- Slow progress in BoP areas – CHP, AHP, Air Compressor plant.
- Construction of LILOing work of 400 kV Aligarh – Shamli line by UPPTCL for evacuation of UP's share of power from Khurja STPP (854.4 MW)

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 contract)	
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual Trial Run Date
Unit#1	Jun-2019	May-2023	Sept-2024
Unit#2		Sep-2023	Dec-2024

CLEARANCES AND STATIC DATA

FUEL TYPE	Coal, Indigenous	
COAL COMBUSTION TECHNOLOGY	Supercritical	
APPROVAL DATE / NTP	Investment Approval accorded by Govt. of India vide MoP	
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.	
PPA	PPA signed with Govt. of Bihar on 05.01.2011 and further reconfirmed on 09.01.2018.	
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.	
START UP POWER AGREEMENT	Start up power will be arranged through South Bihar Power Distribution company Ltd. (SBPDCL).	
POWER EVACUATION SYSTEM	Tx Line Developer	BSPTCL, Govt. of Bihar
	Tx Line Name Tx Voltage Level	i) Buxar TPS- Naubatpur 400 KV, D/C ii) Buxar TPS- Dumraon (New) 220 KV, D/C iii) Buxar TPS- Karmnasa (New) 220 KV, D/C iv) Buxar TPS- Dehri 220 KV, D/C
	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	

FINANCIAL DATA (Fig. in Rs. Crore)

ORIGINAL ESTIMATED COST OF THE PROJECT	10439.09
LATEST ESTIMATED COST	Not Revised
DATE OF FINANCIAL CLOSURE	26.11.2020
YEAR WISE EXPENDITURE	
2013-14	46.68
2014-15	15.18
2015-16	378.08
2016-17	23.96
2017-18	21.73
2018-19	68.21
2019-20	344.50
2020-21	1100.05
2021-22	2691.06
2022-23	2581.36
2023-24	2485.60
EXPENDITURE OF May'2024	157.13
TOTAL EXPENDITURE (upto 31.05.2024)	9451.96

Status as on 31-05-2024

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	25-May-24
6	TG ERECTION START	21.SEP.21	21.SEP.22	20.JAN.22	24-May-24
7	HP PIPING ERECTION START	16.OCT.21	02.MAY.22	15.FEB.22	30-May-24
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	20.APR.22	16.JUN.23	21.AUG.22	Sep-24
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	NA		NA	
10	TG BOX UP	21.AUG.22	20-DEC-23	20.DEC.22	Sep-24
11	HP PIPING ERECTION COMPLETION	30.JUL.22	Jun-24	29.NOV.22	Sep-24
12	START OF OIL FLUSHING	28.AUG.22	4 Jan-24	27.DEC.22	Oct-24
13	BOILER LIGHT UP	21.OCT.22	Jul-24	21.FEB.23	Sep-24
14	CHEMICAL CLEANING COMPLETION	15.OCT.22	Jun-24	15.FEB.23	Sep-24
15	STEAM BLOWING START	01.NOV.22	Aug-24	04.MAR.23	Oct-24
16	STEAM BLOWING COMPLETION	18.DEC.22	Aug-24	20.APR.23	Oct-24
17	ROLLING & SYNC.	20.FEB.23	Sep-24	21.JUN.23	Nov-24
18	FULL LOAD	21.MAR.23	Sep-24	21.JUL.23	Dec-24
19	TRIAL RUN	21.May.23	**Sep-24**	21.Sep.23	**Dec-24**
20	COD	07.JUL.23	Oct-24	07.JAN.24	Jan-25

STATUS OF MAIN PLANT PACKAGE (BTG) : M/s L&T

Sl.	Packages	AREA	UNIT-01 % Completion	UNIT-02 % Completion
1	BOILER	CIVIL	100%	95.23%
		STRUCTURE	97.86%	89.30%
		PRESSURE PARTS	100%	91.31%
2	TG	CIVIL	100%	88.28%
		STRUCTURE	100%	94.020
		TG ERECTION	98.40%	73.20%
3	ESP	UNDER PROGRESS	96.35%	77.30%
4	FGD	CIVIL WORK	81.10%	64.45%
		MATERIAL SUPPLY	97.90%	97.70%
		ERECTION WORK	31.20%	8.30%

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	Jun24	86.20%	
2	Coal Handling Plant	L&T (Conveyor pkg)	22.JUN.19	19.NOV.22	Jun24	74.50%	
		L&T (Wagon tipler)	22.JUN.19	21.NOV.22	Jun24	76.20%	
		L&T/ Thyssenkrup (Stacker reclaimer)	22.JUN.19	23.OCT.22	Jun24	81.20%	
3	Ash Handling Plant	L&T /Macawber Beekay Pvt ltd	22.JUN.19	19.JUL.23	June.24	78.70%	
4	Fuel Oil System	L&T/ Shalkoot Mechanique Pvt. Ltd	22.JUN.19	31.AUG.22	Jun24	92.30%	
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	Jun24 Jul,24	92.20% 62.20%	
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	Jun,24 Jul,24	90.50% 63.10%	
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	Jun,24 Jun,24	96.10% 71.20%	
8	DM Plant	L&T/ Driplex Water Engineering Pvt Ltd	22.JUN.19	21.JUN.23	31.AUG.23	100%	
9	Compressed Air System	L&T / L&T-MHPS Boilers Pvt. Ltd	22.JUN.19	20.OCT.22	Jun,24	94.80%	
10	Fire Protection System	L&T/ Flowmore Limited	22.JUN.19	10.JUL.23	Jun,24	77.50%	
11	Switch Yard	L&T/ ABB Power Products & Systems India Ltd	22.JUN.19	21.NOV.22	Jun,24	99.10%	
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	Feb,24 Aug,24	100% 87.30%	
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	Jun,24 Sep,24	62.70% 60.20%	
14	Railway Siding	RITES Ltd.	13.JUN.19	31.OCT.22	Dec,24	40.40%	
15	Power Evacuation Lines	BSPTCL, Govt. of Bihar	23.NOV.21	31.DEC.22	05-03-24	100% (400 KV lines only)	

CRITICAL ISSUES

- Slow work progress in BoP areas i.e. AHP, CHP & Railway siding.
- Delay in readiness of Switchyard and challenges in land acquisition affecting railway siding and water intake pipeline corridor pose obstacles to project advancement.
- Frequent local agitation.

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)

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 (EPC contract)			
Unit No.	LOA	Original Trial Run Date	Anticipated /	Actual	Trial Run Date
Unit#1	Dec-2016	Dec-2020	02-02-2024		
Unit#2		Apr-2021	Sep-2024		

CLEARANCES AND STATIC DATA

FUEL TYPE	Coal, Indigenous	
COAL COMBUSTION TECHNOLOGY	Ultra-Supercritical	
APPROVAL DATE / NTP	Date of NTP or Approval Date: 22.12.2016	
BTG/BoP Contractor Details (Package Wise)	22.12.2016. EPC contract awarded to M/s Doosan Power Systems India Pvt. Ltd., Gurugram (Haryana)	
PPA	PPA signed with UP Power Corporation Ltd for 100% share to state of UP	
COAL LINKAGE/FSA	Allocated Mine - Saharpur Jamarpani mines, Jharkhand; Distance from mine - 651 km (non pithead); Allocation Date: 13.08.2015. Grade of Coal -G10	
START UP POWER AGREEMENT	Start up power from UPPTCL	
POWER EVACUATION SYSTEM	Tx Line Developer	UPPTCL
	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).
	Configuration of Tx Line (S/C or D/C)	
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 acquisition work for Obra'C' is in progress.	
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.	
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	

FINANCIAL DATA (Fig. in Rs. Crore)

ORIGINAL ESTIMATED COST OF THE PROJECT	8777.71
LATEST ESTIMATED COST	11705.85
DATE OF FINANCIAL CLOSURE	13.11.2013; 30.05.2019 for additional amount.
YEAR WISE EXPENDITURE	
2015-16	7.24
2016-17	423.77
2017-18	277.83
2018-19	855.90
2019-20	2175.96
2020-21	1220.62
2021-22	1826.42
2022-23	1460.40
2023-24	2047.66
EXPENDITURE OF MAY'2024	9.75
TOTAL EXPENDITURE (upto 31.05.2024)	10729.79

Status as on 31-05-2024

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

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	May-23
7	HP PIPING ERECTION START	12-Jan-19	1-Mar-20	22-May-19	7-Oct-23
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	Jun-24
11	HP PIPING ERECTION COMPLETION	20-Mar-20	14-Mar-22	20-Jul-20	June-24
12	START OF OILFLUSHING	23-Feb-20	10-Mar-22	21-Jun-20	June-24
13	BOILER LIGHT UP	21-Apr-20	26-Apr-22	19-Aug-20	30-30-24
14	CHEMICAL CLEANING COMPLETION	25-Mar-20	16-Mar-22	25-Jul-20	01-04-24
15	STEAM BLOWING START	22-May-20	07-Nov-22	19-Sep-20	Jun-24
16	STEAM BLOWING COMPLETION	22-Jun-20	09-Dec-22	19-Oct-20	Jul-24
17	ROLLING & SYNC.	30-Jul-20	25-Apr-23	27-Nov-20	Aug-24
18	FULL LOAD	1-Sep-20	26-Dec-23	31-Dec-20	Sep-24
19	TRIAL RUN	21-Dec-20	02-02-24	21-Apr-21	Sep-24
20	COD	21-Dec-20	09-02-24	21-Apr-21	Oct-24

STATUS OF MAIN PLANT PACKAGE (BTG) : M/s Doosan (EPC contract)

Sl.	Packages	AREA	UNIT-01 % Completion	UNIT-02 % Completion
1	BOILER	CIVIL	100%	90.84%
		STRUCTURE		
		PRESSURE PARTS		
2	TG	CIVIL	100%	82.32%
		STRUCTURE		
		PRESSURE PARTS		
3	ESP	PASS STATUS	99.37%	63.77%
4	FGD	CIVIL WORK	96.72%	76.72%
		MATERIAL SUPPLY	94%	65.50%
		ERECTION WORK	64.68%	27.05%

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	31.12.2023	100%	
2	Coal Handling Plant	KCC (Conveyor package)		19.05.2020	Jun-24	99.00%	
		Aneja (Wagon Tripler)	23.11.2018	23.02.2020	Sep-24	99.00%	
		Aneja (Stacker Reclaimer)	02.05.2018	05.04.2020	Oct-24	97.42%	
3	Ash Handling Plant	AKC, PNC	09.04.2018	29.06.2020	Sep-24	81.54%	
4	Fuel Oil System	AKC, Sangha, Singrauli, Jiwala	30.11.2018	04.05.2020	Dec,2023	100%	
5	Cooling Towers	PCTL	01.08.2018(CT-01), 14.12.2018(CT-02)	25.11.2019(CT-01), 26.03.2020(CT-02)	Dec,2023 Sep-24	100%	78.93%
6	CW Pump house	GDCL	06.06.2018	05.07.2020	02.04.2023	100%	
7	WPT Plant	Rajpati Vishwakarma, Sahil Kumar, KNIL, IEIL	20.11.2018	13.09.2020	Apr,2023	100%	
8	DM Plant	Rajpati Vishwakarma, Sahil Kumar, KNIL,IEIL	03.10.2018	04.11.2019	Mar,2023	100%	
9	Compressed Air System	GDCL	23.11.2018	04.05.2020	Mar,2023	100%	
10	Fire Protection System	Lloyd	08.04.2019	17.10.2019	Sep-24	61.5%	
11	Switch Yard	KNIL , GDCL, GET&D	01.08.2018	30.01.2020	Apr,2023	100%	
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	Jul-24	98.67%	
14	Railway Siding	DPSI	Civil Works:- 24.08.2019	Civil Works:- 23.02.2020	Civil Works:- 23.05.2023 S&T Works- 21.12.2023 OHE works:- Jul-24 (Tentative)	90%	
15	Power Evacuation Lines	GET&D	08.11.2017	24.07.2020	12.04.2023	100%	

CRITICAL ISSUES

- Delay in readiness of AHP (Material supply pending by M/s Indure)
-Delay in readiness of coal Mills, 2nd path of PA, ID & FD fan.
-Delay in readiness of Dry ash evacuation system, ESP passes, Ash slurry pump house.

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)

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 (EPC contract)	
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual Trial Run Date
Unit#1	Dec-2016	Dec-2020	09-02-2024
Unit#2		Apr-2021	Sep-2024

CLEARANCES AND STATIC DATA

FUEL TYPE	Coal, Indigenous	
COAL COMBUSTION TECHNOLOGY	Ultra Super Critical	
APPROVAL DATE / NTP	Approval of DPR and Initial project cost by U. P. Government of DPRVide letter dated 04.09.2015	
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	
PPA	Details of PPA signed or under process whichever is applicable with defining share % if any.	
COAL LINKAGE/FSA	Allocated Mine - Saharpur Jamarpani mines, Jharkhand; Distance from mine - 1190 km (non pithead) Bridge Linkage from CCL/ECL for 4.461 MTPA	
START UP POWER AGREEMENT	For 220 KV signed with UPPTCL	
POWER EVACUATION SYSTEM	Tx Line Developer	PGCIL & UPPTCL
	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.
	Configuration of Tx Line (S/C or D/C)	
LAND POSSESSION	765 Acre land for Power House under Possession	
WATER ALLOCATION	Lower Ganga Canal - 38 cusec	
MOEF CLEARANCE	MOEF clearance granted in 63rd Meeting of the reconstituted EAC (Thermal Power) was held on 29th & 30th August, 2016	
CIVIL AVIATION CLEARANCE	Chimney clearance from AAI vide letter dated 12.06.2015	
CPCB CLEARANCE	NA	
SPCB CLEARANCE	Ref No- 58264/UPPCB/Aligarh(UPPCBRO)/CTE/ETAH/ 2019 dated 24.10.2019 valid up to 09.10.2024	
FOREST CLEARANCE	Clearance obtained vide letter no. 1904/14-1 dated 15.03.2016	

FINANCIAL DATA (Fig. in Rs. Crore)

ORIGINAL ESTIMATED COST OF THE PROJECT	8078.56
LATEST ESTIMATED COST	14628.09
DATE OF FINANCIAL CLOSURE	
YEAR WISE EXPENDITURE	
2016-17	445.21
2017-18	400.26
2018-19	844.96
2019-20	2295.94
2020-21	2034.08
2021-22	2224.36
2022-23	1782.72
2023-24	2255.34
EXPENDITURE OF MAY'2024	45.65
TOTAL EXPENDITURE (upto 31.05.2024)	12623.42

Status as on 31-05-2024

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

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	28.07.2023
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	01.08.2023
13	BOILER LIGHT UP	26.04.2020	27.05.2022	23.08.2020	02.11.2023
14	CHEMICAL CLEANING COMPLETION	15.03.2020	03.05.2022	13.07.2020	02.11.2023
15	STEAM BLOWING START	26.05.2020	27.09.2022	21.09.2020	Mar-24
16	STEAM BLOWING COMPLETION	21.06.2020	02.12.2022	21.10.2020	April-24
17	ROLLING & SYNC.	21.08.2020	29.04.2023	21.12.2020	Jun-24
18	FULL LOAD	01.09.2020	19.01.2024	01.01.2021	Aug-24
19	TRIAL RUN	20.12.2020	**09.02.2024**	20.04.2021	**Sep-24**
20	COD	21.12.2020	21.02.2024	21.04.2021	Oct-24

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

Sl.	Packages	AREA	UNIT-01	UNIT-02
			% Completion	% Completion
1	BOILER	CIVIL	100 %	100%
		STRUCTURE	98.97 %	95.19%
		PRESSURE PARTS	100%	100 %
2	TG	CIVIL	100 %	99.10%
		STRUCTURE	99.71%	98.64%
3	ESP	STRUCTURE	99.88%	75.30%
4	FGD	CIVIL WORK	100%	100 %
		MATERIAL SUPPLY	100%	100%
		ERECTION WORK	96.99%	60.56%

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	Aug-24	86.32%	
2	Coal Handling Plant	tkII/ NeoStructo(Conveyor package)	10.10.2017	23.04.2020	Jul-24	96.12%	
		tkII/ NeoStructo (Wagon Tripler)	10.10.2017	24.12.2019	Jul-24	99.12%	
		tkII/ NeoStructo (Stacker Reclaimer)	10.10.2017	15.09.2019	Jul-24	99.60%	
3	Ash Handling Plant	Main vendor/subcontractor	30.12.2016	26.09.2020	Oct-24	88.40%	
4	Fuel Oil System	Main vendor/	21.02.2017	10.04.2020	31.01.2024	100% (Piping#2)	
5	Cooling Towers	Paharpur	05.03.2018, 10.09.2018	26.11.2019, 27.03.2020	25.05.2023, Aug-24	100%	90.95%
6	CW Pump house	DPSI/ Jyoti	10.01.2017	05.12.2019	Jul-24	98.05%	
7	WPT Plant	Civil : Tecknow	14.10.2018	06.09.2019	30.12.2023	100%	
8	DM Plant	EPC : Ion Exchange	21.08.2019	16.11.2019	31.01.2024	100%	
9	Compressed Air System	Atlas / Jyoti	13.03.2017	19.05.2020	30-04-24	100%	
10	Fire Protection System	Lloyd	17.02.2017	05.04.2020	Sep-24	69.80%	
11	Switch Yard	GE T&D	17.01.2017	26.03.2020	Sep-24	98.45%	
12	Station Transformers	Zagson	31.01.2019	03.09.2019	31-01-24	100%	
13	Unit Transformers	Zagson	16.08.2019	23.09.2019	Jun-24	90.64%	
14	Railway Siding				-	Civil work 65%	
15	Power Evacuation Lines	DPSI		21.08.2020	29.04.2023	100 %	100 %

CRITICAL ISSUES

- Delay in readiness of Ash Handling plant (Material supply pending by M/s Indure)
- Delay in readiness of Wagon Tippler, coal mills, Bunker & ESP
- Inadequate manpower

REASONS OF DELAY

1st and 2nd wave of COVID-19 pandemic have caused delay in project.

PANKI THERMAL POWER PROJECT, Unit# 1 (1X660MW) / UPRVUNL (STATE SECTOR)

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(EPC-contract)	
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual Trial Run Date
Unit#1	Mar-2018	Sep-2021	Sep-2024

CLEARANCES AND STATIC DATA

FUEL TYPE	Coal, Indigenous	
COAL COMBUSTION TECHNOLOGY	Super Critical	
APPROVAL DATE / NTP	20.03.2018	
EPC/BTG/BoP Contractor Details (Package Wise)	BHEL, LOA: 31.03.2018	
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. FSA on 30.01.2017	
START UP POWER AGREEMENT	20.10.2020	
POWER EVACUATION SYSTEM	Tx Line Developer	UPPTCL
	Tx Line Name Tx Voltage Level	Panki TPS - Panki , 400 KV, D/C line (UPPTCL)
	Configuration of Tx Line (S/C or D/C)	
LAND POSSESSION	It is extension project. Hence Land is available	
WATER ALLOCATION	Lower Ganga Canal and Tertiary Treatment Plant, Bingawan (Kanpur)	
MOEF CLEARANCE	Clearance obtained vide letter no. J-13012/35/2013-IA- I(T) dated :- 29.06.2017	
CIVIL AVIATION CLEARANCE	Clearance obtained vide letter no. AAI/NOC/2012/453/104-106 dated:- 18.01.2013	
CPCB CLEARANCE	MOEF clearance obtained on 29.06.2017	
SPCB CLEARANCE	Clearance obtained vide letter no. 24271/UPPCB/Kanpur Nagar(UPPCBRO)/CTE/Kanpur Nagar/2018 dated : 25.06.2018	
FOREST CLEARANCE	Clearance obtained vide letter no. 484/14-1 dated:- 11.08.2015	

FINANCIAL DATA (Fig. in Rs. Crore)

ORIGINAL ESTIMATED COST OF THE PROJECT	5816.70
LATEST ESTIMATED COST	Not Revised
DATE OF FINANCIAL CLOSURE	22.06.2018
YEAR WISE EXPENDITURE	
2018-19	543.29
2019-20	837.26
2020-21	1131.48
2021-22	951.81
2022-23	1243.57
2023-24	776.78
EXPENDITURE OF May-2024	192.65
TOTAL EXPENDITURE (upto 31.05.2024)	5699.53

Status as on 31-05-2024

PANKI THERMAL POWER PROJECT, Unit# 1 (1X660 MW) / UPRVUNL (STATE SECTOR)

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	30.11.2020
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	30.09.2020	17.12.2021
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	22.02.2021	30.09.2023
10	TG BOX UP	31.01.2021	30-Mar-23
11	HP PIPING ERECTION COMPLETION	29.08.2020	30.12.2021
12	START OF OILFLUSHING	30.01.2021	30.12.2023
13	BOILER LIGHT UP	28.02.2021	18.11.2023
14	CHEMICAL CLEANING COMPLETION	10.03.2021	15.12.2023
15	STEAM BLOWING START	09.04.2021	18.03.2024
16	STEAM BLOWING COMPLETION	30.04.2021	30.04.2024
17	ROLLING & SYNC.	31.05.2021	Jun-2024
18	FULL LOAD	30.06.2021	Sep- 2024
19	TRIAL RUN	30.09.2021	**Sep-2024**
20	COD	30.09.2021	Oct-2024

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

Sl.	Packages	AREA	UNIT-01
			% Completion
1	BOILER	CIVIL	90.00%
		STRUCTURE WORKS	86.36%
		PRESSURE PARTS	97.30%
2	TG	CIVIL	82.00%
		STRUCTURE WORKS	88.00%
		TG AUX	86.00%
3	ESP	PASS STATUS	92.83%
4	FGD	CIVIL WORK	50.00%
		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	Jun'24	99.69%
2	Coal Handling Plant	Thyseen Krupp & RVPR (Conveyor Package)		19.05.2020	Aug'24	72%
		Thyseen Krupp & Kanwar (Wagon Tripler)	23.11.2018	23.02.2020	Jun'24	
		Thyseen Krupp & Kanwar (Stacker Reclaimer)	02.05.2018	05.04.2020	Jun'24	
3	Ash Handling Plant	Indure/ Kanwar	09.04.2018	29.06.2020	Sep'24	61%
4	Fuel Oil System	GMW/ Simplex	30.11.2018	04.05.2020	Jun'24	75%
5	Cooling Towers	Paharpur	01.08.2018, 14.12.2018	25.11.2019, 26.03.2020	Jul'24	95%
6	CW Pump house	MHI/ Simplex	06.06.2018	05.07.2020	Jul'24	70%
7	WPT Plant	GDCL	20.11.2018	13.09.2020	Jul'24	70%
8	DM Plant	BGR & Simplex	03.10.2018	04.11.2019	Sep'24	65%
9	Compressed Air System	ATLAS COPCO	23.11.2018	04.05.2020	Jun'24	84.5%
10	Fire Protection System	BHEL	08.04.2019	17.10.2019	Sep'24	49%
11	Switch Yard	JSPPL	01.08.2018	30.01.2020	Jun'24	99%
12	Station Transformers	BHEL	10.11.2018	27.09.2019	Jun'24	85%
13	Unit Transformers	BHEL	10.03.2019	06.02.2020	Jun'24	82.5%
14	Railway Siding	RITES		05-10-2020	Jun'24	85%
15	Power Evacuation Lines	UPPTCL	08.11.2017	24.07.2020	Apr'23	100%

CRITICAL ISSUES

- Delay in completion of CWPH, AHP, CHP and DM Plant
- Delay in readiness of LHS coal bunkers & Mills, 2nd path of PA fan, FD fan & ID fan.
- Inadequate manpower at site (BHEL) and frequent labour strike.

REASONS OF DELAY

Due to COVID 19 outbreak and its consequences.

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

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 contract)	
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual Trial Run Date
Unit#1	Sep-2014	27.01.18	Sept-2026
Unit#2		27.03.18	Nov-2026

CLEARANCES AND STATIC DATA

FUEL TYPE	Coal, Indigenous & Imported	
COAL COMBUSTION TECHNOLOGY	Supercritical	
APPROVAL DATE / NTP	27.09.2014	
EPC/BTG/BoP Contractor Details (Package Wise)	M/s BHEL (EPC), LoA: 27.09.2014	
PPA	State sector project. Hence entire 100% power from this project will be utilized by TAMILNADU	
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.	
START UP POWER AGREEMENT	By TAGEDCO	
POWER EVACUATION SYSTEM	Tx Line Developer	TANGEDCO
	Tx Line Name Tx Voltage Level	Ennore SEZ SCTPP - North Chennai (765KV PS), 400 KV, D/C line
	Configuration of Tx. Line (S/C or D/C)	
LAND POSSESSION	Acquisition of Land does not arise since own Land of TANGEDCO (Out of 1100 acres available at Ash Dyke of NCTPS , only 500 Acres of ash dyke is utilized for the development of the subject project)	
WATER ALLOCATION	Supply of 4 MGD water from CMWSSB obtained. However desalination plant is envisaged in the project.	
MOEF CLEARANCE	MOEF Letter No. J 13012 / 36/2010-1A.II(T) dt.07.01.2014. Validity extended upto 31.12.2023 as per MoEF 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	

FINANCIAL DATA (Fig. in Rs. Crore)

ORIGINAL ESTIMATED COST OF THE PROJECT	9800.00
LATEST ESTIMATED COST	16444.32
DATE OF FINANCIAL CLOSURE	
YEAR WISE EXPENDITURE	
2016-17	558.04
2017-18	2276.51
2018-19	4688.11
2019-20	1550.04
2020-21	750.13
2021-22	260.14
2022-23	410.67
2023-24	2850.62
EXPENDITURE OF May'2024	51.36
TOTAL EXPENDITURE (upto 31.05.2024)	9888.01

(Tripartite agreement between TANGEDCO, M/s BHEL (EPC contractor), PFC (Lender) signed on 21.11.2016 and Loan agreement between PFC and TANGEDCO signed on 18.01.2017.)

Status as on 31-05-2024

ENNORE SEZ STPP, Unit# 1 & 2 (2X660 MW) / TANGEDCO (STATE 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	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	Feb-24	20.06.17	20.06.22
6	TG ERECTION START	10.06.17	May-24	10.08.17	31.01.24
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	02.03.26	28.06.17	02.05.26
10	TG BOX UP	27.09.17	30.04.25	27.11.17	30.01.25
11	HP PIPING ERECTION COMPLETION	27.05.17	30.03.26	27.07.16	30.05.26
12	START OF OIL FLUSHING	27.10.17	05.06.25	27.12.17	05.03.25
13	BOILER LIGHT UP	30.05.17	30.03.26	29.09.17	30.05.26
14	CHEMICAL CLEANING COMPLETION	10.06.17	10.04.26	10.08.17	10.06.26
15	STEAM BLOWING START	20.06.17	20.04.26	20.08.17	20.06.26
16	STEAM BLOWING COMPLETION	15.07.17	15.05.26	15.09.17	15.07.26
17	ROLLING & SYNC.	27.11.17	30.07.26	27.01.18	30.09.26
18	FULL LOAD	27.10.17	30.08.26	27.12.17	31.10.26
19	TRIAL RUN	27.11.17	**30.09.26**	27.01.18	**30.11.26**
20	COD (TRIAL RUN)	27.01.18	30.10.26	27.03.18	30.12.26

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%	93.60%
		PRESSURE PARTS	97.49%	93.60%
2	TG	CIVIL	92.33%	95.71%
		STRUCTURE	92.33%	95.71%
		TG ERECTION	Erection started - 31.01.24	Erection started - 31.01.24
3	ESP	UNDER PROGRESS	79.12%	73.16%
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	Aug,24	60%	60%
2	Coal Handling Plant	Contractor for erection M/s Promac	09.02.17	27.10.17	Feb,25	100 % (Civil), 32% (Mech)	
		M/s.Bevcon (Conveyor package supply), M/s.FLSIDTH- Pipe	18.03.17	27.10.17	Feb,25	40.84%	
		M/s.Promac : Stacker Reclaimer supply, M/s.Elecon : Vibrating	09.02.17	27.10.17	Feb,25	80 %	
3	Ash Handling Plant	M/s.Indure (for supply and erection for mechanical packages) , M/s.Turbo Engineers for Sluury disposal pipes supply M/s.Weir for Slurry pumps supply, M/s.Atlas Copco& M/s.Ingersoll for Compressor supply M/s.Suraj	14.09.17	27.10.17	Dec,24	56.58%	
4	Fuel Oil System	M/s.New Fire Engineers Pvt ltd.	13.06.17	30.03.17	Dec,24	60.29%	
5	Cooling Towers	M/s.Simplex (Design – Paharpur)	30.01.17	29.04.17	Oct,24 (U-1) Jan,25 (U-2)	81.32%	28.64%
6	CW Pump house	CW Pump House - M/s Cornerstone (De- scoped from M/s.Simplex),CW Piping: BHEL / M/s Vijay Gowtham- (De-scoped	27.12.19	29.04.22	Feb,25	37.14%	51.96%
7	WPT Plant	M/s.Otoklin Global business services for supply and erection	18.01.18	30.03.17	Aug,24	Civil work 57%	
8	DM Plant	M/s Cornerstone (De-scoped from M/s.Simplex)	27.09.14	30.03.17	Aug,24	62.16%	
9	Compressed Air System	M/s.ELGI Equipments Ltd.	27.11.17	30.03.17	Sep,24	99.13%	
10	Fire Protection System	BHEL- PE&SD	July,18	30.03.17	Dec,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	Sep,24	94.24%	
12	Station Transformers	M/s Cornerstone	19.11.19	30.03.17	Feb,25	74.50%	
13	Unit Transformers	M/s Cornerstone	19.11.19	30.08.17	Feb,25		
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

-Delay in completion of coal & water pipe conveyor route passing over river and falling in the coastal zone area.
- In External coal handling plant area, erection of structure for a portion held up due to NGT order. Getting amendment in EC from MoEF & CC is in process.
- Slow progress in NDCT-II, CHP, AHP, EOT crane

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 (Thiruvalur) for resumption of work at site with only 600 manpower on 25.04.2020.Work resumed by BHEL from 18.05.2020

Status as on 31-05-2024

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

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(BTG) - M/s BHEL	
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual Trial Run Date
Unit#1	Jan-2016	Apr-2019	Jun-2024

CLEARANCES AND STATIC DATA

FUEL TYPE	Coal, Indigenous & Imported(MMTC)	
COAL COMBUSTION TECHNOLOGY	Super critical	
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	
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.	
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.	
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.	
POWER EVACUATION SYSTEM	Tx Line Developer	TANTRANSCO
	Tx Line Name Tx Voltage Level	NCTPS St-III -North Chennai (PS), 765 KV, D/C line
	Configuration of Tx Line (S/C or D/C)	
LAND POSSESSION	The proposed site is within the existing NCTPS complex and land is already under possession of TANGEDCO.	
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.	
MOEF CLEARANCE	Environmental clearance issued by MoEF on 20.01.2016 valid for a period of seven years.	
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.	

FINANCIAL DATA (Fig. in Rs. Crore)

ORIGINAL ESTIMATED COST OF THE PROJECT	6376.00
LATEST ESTIMATED COST	10158.00
DATE OF FINANCIAL CLOSURE	28.1.2017
YEAR WISE EXPENDITURE	
2012-13	0.21
2013-14	0.40
2014-15	0.13
2015-16	0.25
2016-17	198.08
2017-18	929.75
2018-19	2243.52
2019-20	2090.62
2020-21	928.95
2021-22	760.29
2022-23	694.13
2023-24	944.74
EXPENDITURE OF May'2024	21.02
TOTAL EXPENDITURE (upto 31.05.2024)	8,853.17

(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.)

Status as on 31-05-2024

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

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	Aug-23
11	HP PIPING ERECTION COMPLETION	13.04.19	30.11.22
14	START OF OILFLUSHING	29.11.18	03.11.20
12	BOILER LIGHT UP	29.10.18	May-23
13	CHEMICAL CLEANING COMPLETION	27.02.19	22-06-23
15	STEAM BLOWING START	31.12.18	23-09-23
16	STEAM BLOWING COMPLETION	29.01.19	24-11-23
17	ROLLING & SYNC.	28.02.19	14-01-24
18	FULL LOAD	28.03.19	Jun-24
19	TRIAL RUN	28.04.19	**Jun-24**
20	COD	28.07.19	Jun-24

STATUS OF MAIN PLANT PACKAGE (BTG-BHEL)

Sl.	Packages	AREA	UNIT-01 % Completion
1	BOILER	CIVIL	100%
		STRUCTURE	100%
		PRESSURE PARTS	100%
2	TG	CIVIL	100%
		STRUCTURE	100%
		TG ERECTION	100%
3	ESP	UNDER PROGRESS	100%
4	FGD	CIVIL WORK	M/s BHEL – FGD Civil Piping and Pipe cap works are in 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	15.01.2024	100%
2	Coal Handling Plant		21.07.17	25.07.19	31.08.2024	93.33%
3	Ash Handling Plant		25.11.17	28.07.19	31.07.2024	90%
4	Fuel Oil System		27.07.17	28.06.19	15.03.2024	100%
5	Cooling Towers		16.05.17	21.09.19	30.06.2024	93%
6	CW Pump house		09.01.18	28.05.19	30.06.2024	97%
7	WPT Plant		16.06.17	17.05.19	15.06.2024	95%
8	DM Plant		06.10.17	28.05.19	15.06.2024	95%
9	Compressed Air System		10.12.17	28.08.19	31.01.2022	100%
10	Fire Protection System		01.07.17	14.05.19	15.06.2024	90.5%
11	Switch Yard		19.08.17	26.10.19	05.04.2024	100%
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	100%
14	Railway Siding	NA	NA	NA	NA	NA
15	Power Evacuation Lines	TANTRANSCO, NCTPS St-III -North Chennai (PS), 765 KV, D/C line	12.01.18	11.11.19	Nov-2023	100%

CRITICAL ISSUES

- AHP- under reamed piling & Ash dyke pipeline erection pending due to NGT issue
- Delay in CHP Readiness: Alternate arrangement for ECHS is made from NCTPS, St-I.

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.

Status as on 31-05-2024

UDANGUDI STPP, St-I, Unit# 1 & 2 (2x660 MW) / TANGEDCO (STATE SECTOR)

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 contract)	
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual Trial Run Date
Unit#1	Dec-2017	Jan-2021	Oct -2024
Unit#2		Mar-2021	Feb –2025

CLEARANCES AND STATIC DATA

FUEL TYPE	Coal, Indigenous & Imported (Indonesia)	
COAL COMBUSTION TECHNOLOGY	Supercritical	
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.	
EPC/BTG/BoP Contractor Details (Package Wise)	Awarded to BHEL as EPC contractor on 07.12.2017	
PPA	NOT APPLICABLE. State sector project.	
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	
START UP POWER AGREEMENT	230/11 KV Karaigudi Feeder	
POWER EVACUATION SYSTEM	Tx Line Developer	
	Tx Line Name Tx Voltage Level	Udangudi STPP – Ottapidaram, 400 KV, D/C line (BHEL/L&T)
	Configuration of Tx Line (S/C or D/C)	
LAND POSSESSION	Land required for the project is under TANGEDCO Possession. EPC Contracts awarded to M/s. BHEL & M/S L&T has been suspended as per the NGT(SZ), Chennai Judgment dated 17.03.2021, delivered on Appeal No. 144 of 2016(SZ) filed in the designated court for a period of six months or until further orders.	
WATER ALLOCATION	Tamil Nadu Maritime Board has issued NOC for construction of Jetty for drawal and discharge of cooling water, vide 27.4.2015.	
MOEF CLEARANCE	Ministry of Environment and Forest has accorded clearance for the above Project on 18.05.2016.	
CIVIL AVIATION CLEARANCE	Clearance expired on 21.11.2019. Clearance further extended 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	

FINANCIAL DATA (Fig. in Rs. Crore)

ORIGINAL ESTIMATED COST OF THE PROJECT	13076.71
LATEST ESTIMATED COST	13076.71
DATE OF FINANCIAL CLOSURE	Financial tie up with M/s. PFC
YEAR WISE EXPENDITURE	
2017-18	118.93
2018-19	336.43
2019-20	654.76
2020-21	1778.54
2021-22	1711.00
2022-23	2817.92
2023-24	2028.91
EXPENDITURE OF May’2024	194.350
TOTAL EXPENDITURE (upto 31.05.2024)	10,206.975

Status as on 31-05-2024

UDANGUDI STPP, St-I, Unit# 1 & 2 (2x660 MW) / TANGEDCO (STATE 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	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	01.04.23
6	TG ERECTION START	12.09.19	01.02.23	12.11.19	30.03.23
7	HP PIPING ERECTION START	30.10.19	16.04.23	30.10.19	15.05.23
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	30.06.24	02.09.20	31.08.24
10	TG BOX UP	30.07.20	30.06.24	30.09.20	30.09.24
11	HP PIPING ERECTION COMPLETION	06.08.20	02.07.24	06.10.20	02.11.24
12	START OF OILFLUSHING	30.07.20	08.06.24	30.09.20	08.08.24
13	BOILER LIGHT UP	09.07.20	30.07.24	09.09.20	30.09.24
14	CHEMICAL CLEANING COMPLETION	30.07.20	18.06.24	30.09.20	18.08.24
15	STEAM BLOWING START	13.08.20	20.06.24	13.11.20	20.10.24
16	STEAM BLOWING COMPLETION	03.09.20	31.08.24	03.11.20	31.10.24
17	ROLLING & SYNC.	12.11.20	31.08.24	12.01.21	30.12.24
18	FULL LOAD	31.12.20	31.09.24	28.02.21	31.01.25
19	TRIAL RUN	07.01.21	**Oct-24**	07.03.21	**Feb-25**
20	COD	25.02.21	Oct-24	25.04.21	Feb-25

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

Sl.	Packages	AREA	UNIT-01 % Completion	UNIT-02 % Completion
1	BOILER	CIVIL	92.64%	94.35%
		STRUCTURE	88.39%	94.35%
		PRESSURE PARTS	96.74%	97.62%
2	TG	CIVIL	99.13%	96.74%
		STRUCTURE	91.86%	83.77%
		TG ERECTION	85.74%	80.11%
3	ESP	UNDER PROGRESS	95.82%	96.04%
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	20.03.24 31.05.24	100% 100%	
2	Coal Handling Plant	M/s. BHEL/ M/s Kanwar/ M/s Priya- Civil	01.03.22	25.06.20	23.08.24	90.92%	
		M/s. BHEL/ M/s.RPP /URC Structural Erection	15.07.19	25.06.20	16.08.24	51.40%	
		M/s. BHEL/IGG	09.05.19	-	31.03.25	-	
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	23.08.24 15.01.25 15.01.25 15.01.25	63.82% - -	
4	Fuel Oil System	M/s.BHEL/ M/s.RPP Civil	25.07.19	22.01.20	25.06.24	97.20%	
5	Cooling Towers	M/s.BHEL/ M/s.Gammon	16.12.2019	22.10.20	31.08.24 15.11.24	79.21%	43.02%
6	CW Pump house	M/s.BHEL/ M/s.B&B; M/s.BHEL/ M/s.Akash Techno	04.06.19	17.01.20	20.06.24 30.06.24	81.91% 75.65%	
7	WPT Plant	M/s.BHEL/ M/s.B&B	04.06.19	07.02.20	25.07.24	90.69%	
8	DM Plant	M/s.BHEL/ M/s.RPP	25.07.19	12.10.19	25.06.24	78.49%	
9	Compressed Air System	M/s.BHEL / M/s.Power Mech	07.01.22	01.11.20	25.05.25	100%	
10	Fire Protection System	M/s. BHEL	-	22.10.20	25.08.24	5.84%	
11	Switch Yard	M/s. BHEL/ M/s. RB Electrical	25.06.21	23.05.19	29.02.24	100%	
12	Station Transformers	M/s.BHEL / M/s Power Mech	30.12.21	15.06.20	30.06.24	98.76%	
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	29.02.24	100%	

CRITICAL ISSUES

-Slow progress in areas viz. DM Water System, Sea water system
- The slow progress in GIS switchyard, NDCTs & critical piping erection;
- FGD work is yet to be awarded.(by TANGEDCO)

REASONS OF DELAY

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

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

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 contract)	
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual COD Date
Unit#1	Oct-2017	Oct-2021	Sept-2024
Unit#2		Oct-2021	Sept-2024
Unit#3		Jun-2022	Dec-2024
Unit#4		Jun-2022	Feb-2025
Unit#5		Oct-2022	Apr-2025

CLEARANCES AND STATIC DATA

FUEL TYPE	Coal, Indigenous	
COAL COMBUSTION TECHNOLOGY	Supercritical	
APPROVAL DATE / NTP	04.10.2014 (MoU entered with BHEL)	
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.	
PPA	Power purchase Agreement entered on 11.03.2020 with TSDISCOMS	
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).	
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.	
POWER EVACUATION SYSTEM	Tx Line Developer	TSTRANSCO
	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.
	Configuration of Tx Line (S/C or D/C)	
LAND POSSESSION	(Details about land area still to be acquired). Ac.5459.39 Gts	
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	
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)	
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.	
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.	

FINANCIAL DATA (Fig. in Rs. Crore)

ORIGINAL ESTIMATED COST OF THE PROJECT	29965.48
LATEST ESTIMATED COST	34542.95
DATE OF FINANCIAL CLOSURE	*
YEAR WISE EXPENDITURE	
2015-16	499.46
2016-17	59.29
2017-18	941.44
2018-19	2129.24
2019-20	2935.56
2020-21	4427.54
2021-22	3582.33
2022-23	5703.27
2023-24	5409.16
EXPENDITURE OF May'2024	805.84
TOTAL EXPENDITURE (upto 31.05.2024)	26583.65

* M/s REC Ltd vide Lr dt 11-08-2015. M/s PFC Ltd vide Lrdt 19-07-2015

Status as on 31-05-2024

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

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	88.12%	94.43%	80.16%	89.80%	82.92%
		PRESSURE PARTS	100.00%	100.00%	95.68%	100%	99.56%
2	TG	CIVIL	99.00%	98.50%	98.00%	97.00%	96.00%
		STRUCTURE	99.63%	99.74%	98.6%	97.72%	90.96%
		TG ERECTION	91.05%	94.50%	69.50%	70.50%	66.50%
3	ESP	UNDER PROGRESS	96.90%	97.19%	94.15%	95.82%	89.31%
4	FGD	CIVIL WORK	33.00%	33.00%	33.00%	33.00%	33.00%
		MATERIAL SUPPLY	72.00%	72.00%	72.00%	72.00%	72.00%
		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	26.05.23	31.07.22	15.09.22	30.09.22	26.05.23
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	31.06.24	30.10.22	30.06.24	30.11.22	31.08.24
11	HP PIPING ERECTION COMPLETION	13.10.22	30.06.24	13.11.22	28.06.24	13.12.22	15.10.24	13.01.23	28.11.24	13.02.23	15.07.24
12	START OF OIL FLUSHING	30.04.22	09.06.23	31.05.22	23.03.23	31.07.22	30.09.24	30.09.22	30.11.24	30.10.22	30.09.24
13	BOILER LIGHT UP	31.07.22	14.05.24	30.09.22	14.05.24	30.11.22	31.06.24	31.01.23	31.07.24	31.03.23	31.08.24
14	CHEMICAL CLEANING COMPLETION	05.09.22	20.06.24	29.09.22	31.05.24	29.10.22	15.06.24	29.11.22	30.08.24	29.12.22	30.10.24
15	STEAM BLOWING START	14.09.22	30.06.24	14.10.22	30.06.24	14.11.22	31.08.24	14.12.22	30.11.24	14.01.23	30.11.24
16	STEAM BLOWING COMPLETION	14.10.22	30.07.24	14.11.22	30.07.24	14.12.22	30.09.24	14.01.23	30.12.24	14.02.23	30.12.24
17	ROLLING & SYNC.	30.10.22	06.08.24	31.12.22	06.08.24	31.01.23	30.10.24	31.03.23	10.02.25	31.05.23	31.01.25
18	FULL LOAD	15.02.23	15.08.24	15.03.23	15.08.24	15.04.23	01.12.24	15.05.23	20.02.25	15.06.23	28.02.25
19	TRIAL RUN	Feb'23	**Sept-24**	Mar'23	**Sept-24**	Apr'23	**Dec-24**	May'23	**Feb-25**	Jun'23	**Apr-25**
20	COD										

Status as on 31-05-2024

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

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	UNIT-03 % Completion	UNIT-04 % Completion	UNIT-05 % 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	30.12.23	Shell Concreting-100% Flue can Erection 100%		Shell Concreting-100% Flue can Erection 100%		SC-100% FCE-100%
2	Coal Handling Plant (Civil)	Powermech (Conveyor package)	09.08.20	31.12.22	15.06.24	98.48%				
		Powermech (Wagon tripler)	10.12.20	30.06.23	30.06.24	99.79%				
		Powermech (Stacker Reclaimer)	08.10.20	30.06.23	30.08.23	100%				
3	Ash Handling Plant	BHEL/ Powermech	08.06.21	31.12.22	30.06.24	Civil- 80.75%				
4	Fuel Oil System	BHEL/Thermosystems	19.02.21	31.07.22	30.06.23	100%				
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	31.06.24 31.06.24 31.07.24 31.08.24 30.09.24	93.71%	95.50%	87.28%	79.95%	56.74%
6	CW Pump house	CW pump house & channel - BHEL/HES			31.07.24	99%	99%	85.92%	85.92%	85.92%
7	WPT Plant	BHEL/SCC	03.02.21	31.01.22	31.06.24	Civil- 97%				
8	DM Plant	BHEL/SCC	01.10.20	31.01.22	31.06.24	Civil- 99.85%				
9	Compressed Air System	BHEL/HES	12.02.21	31.05.22	15.06.24	Civil- 99.17%				
10	Fire Protection System	BHEL	-	31.07.22	31.06.24	20.00%				
11	Switch Yard	BHEL/Bluechip	13.02.21	31.07.22	30.06.24	Civil- 95%				
12	Generator Transformers	BHEL/EIPL for Unit-1 BHEL/KEPL for Unit-2 BHEL/EIPL for Unit-3 BHEL/KEPL for Unit-4 BHEL/KEPL for Unit-5	14.12.19 17.10.20 26.10.19 22.10.19 18.12.19	30.10.22 31.12.22 31.01.23 31.03.23 31.05.23	30.06.24 30.06.24 31.06.24 30.06.24 31.06.24	99.0%	99%	98.5%	97%	90%
13	Station Transformers									
14	Unit Transformers									
15	Railway Siding	Work in progress	06.06.2022	06.12.23	30.06.24	72%				
16	Power Evacuation Lines	TS TRANSCO/MEIL	06.08.20	24.02.22	31.10.24	87%				

CRITICAL ISSUES

-Delay in readiness of Tippler Floor, Crusher House, Transport air Compressor House
-Delay in readiness of Ash Disposal Pipeline, Wet ash disposal system

REASONS OF DELAY

1) Delay in issuance of fresh EC on account of change in fuel supply source (100 % Indigenous). Fresh EC issued in May-2024.
2) Delay in agency finalization of Main plant civil works and Boiler erection works.
3) 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.
4) 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.
5) 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.

Status as on 31-05-2024

BHUSAWAL SUPERCRITICAL TPP, Unit# 6 (1X660 MW) / MAHAGENCO (STATE SECTOR)

Village Pimpari Sekam, Tal Bhusawal, Distt.- Jalgaon, Maharashtra, Pincode-425307

E-Gen Portal Registration No. (U#6 - 1200002450)

Project Developer / Implementing Agency - MAHAGENCO		Main Plant Vendor - M/s BHEL (EPC Contract)	
Unit No.	LoA	Original Trial Run Date	Anticipated / Actual Trial Run Date
Unit#6	Jan-2018	May-2022	Sept-2024

CLEARANCES AND STATIC DATA

FUEL TYPE	Coal, Indigenous	
COAL COMBUSTION TECHNOLOGY	Super Critical	
APPROVAL DATE / NTP	25-09-2009	
EPC/BTG/BoP Contractor Details (Package Wise)	M/s BHEL (EPC Contract, LoA:17.01.2018)	
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.	
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.	
POWER EVACUATION SYSTEM	Tx Line Developer	MSETCL
	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.	

FINANCIAL DATA (Fig. in Rs. Crore)

ORIGINAL ESTIMATED COST OF THE PROJECT	4548.00
LATEST ESTIMATED COST	6350.99
DATE OF FINANCIAL CLOSURE	NA
YEAR WISE EXPENDITURE	
2018-19	51.21
2019-20	564.66
2020-21	889.57
2021-22	1261.79
2022-23	616.04
2023-24	1022.29
EXPENDITURE OF May'2024	22.3
TOTAL EXPENDITURE (upto 31.05.2024)	4506.57

Status as on 31-05-2024

BHUSAWAL SUPERCRITICAL TPP, Unit# 6 (1X660 MW) / MAHAGENCO (STATE SECTOR)

UNIT WISE MILESTONES (ANTICIPATED / ACTUAL)

Sl.	MILESTONE	UNIT-06	
		Original Date of Completion	Anticipated / Actual Date of Completion
1	COMPLETION OF BOILER FOUNDATION	25.11.2019	15.11.2019
2	START OF BOILER ERECTION	30.11.2019	22.11.2019
3	BOILER DRUM LIFTING (if sub-critical unit)	NA	NA
4	BOILER CEILING GIRDER LIFTING COMPLETION	30.06.2020	20.01.2021
5	CONDENSER ERECTION START	31.10.2020	30.03.2022
6	TG ERECTION START	30.11.2020	03.03.2022
7	HP PIPING ERECTION START	11.05.2021	22.03.2021
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	31.05.2021	04.11.2022
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	10.11.2021	Mar-2023
10	TG BOX UP	30.11.2021	10.04.2023
11	HP PIPING ERECTION COMPLETION	25.04.2022	Oct,2023
12	START OF OILFLUSHING	04.12.2021	June-2023
13	BOILER LIGHT UP	30.11.2021	Mar-2023
14	CHEMICAL CLEANING COMPLETION	20.12.2021	Jun-2023
15	STEAM BLOWING START	24.01.2022	Sep-2023
16	STEAM BLOWING COMPLETION	19.02.2022	Oct-2023
17	ROLLING & SYNC.	31.03.2022	17-01-2024
18	FULL LOAD	30.04.2022	Sep-2024
19	TRIAL RUN	31.05.2022	Sep-2024
20	COD	31.05.2022	Oct-2024

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

Sl.	Packages	AREA	UNIT-06
			% Completion
1	BOILER	CIVIL	98%
		STRUCTURE WORKS	
		PRESSURE PARTS	
2	TG	CIVIL	99%
		STRUCTURE WORKS	
		PRESSURE PARTS	
3	ESP	PASS STATUS	98%
4	FGD	CIVIL WORK	66%
		MATERIAL SUPPLY	
		ERECTION WORK	

STATUS OF BOPs

Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC- BHEL)	Date of Award	Scheduled Date of Completion	Anticipated/Actual Date of Completion	UNIT-01
						% Completion
1	Chimney	M/s Powermech	30.05.2019	28.02.2022	Apr-2024	100%
2	Coal Handling Plant	M/s BJCL & Macawber Beekay Pvt Ltd.(Conveyor package	27.05.2019	30.04.2022	Jun-2024	98%
		M/s BJCL& Promac (Wagon tippler)	28.05.2019	30.04.2022	Jun-2024	95%
		M/s BJCL& Promac(Stacker Reclaimer)	24.08.2019, 28.05.2019	30.04.2022	Jun-2024	98%
3	Ash Handling Plant	M/s BJCL & Macawber Beekay Pvt Ltd.	24.08.2019, 23.12.2021	31.03.2022	Jun-2024	81%
4	Fuel Oil System	M/s. New Fire Engineers Pvt Ltd.	19.09.2019	21.11.2021	Jun-2024	97%
5	Cooling Towers	M/s Hayagrev civil engineering Pvt Ltd	1.11.2019, 05.03.2022	31.03.2022	May-2024	100%
6	CW Pump house	M/s Alpha power engineering services Pvt Ltd,G&J Pvt Ltd.	29.01.2019	28.02.2022	Jan-2024	100%
7	WPT Plant	M/s Clear Water company	17.02.2020	12.12.2021	Jun-2024	86%
8	DM Plant	M/s Wipro Enterprises Pvt Ltd	14.01.2020	30.11.2021	Sep-2023	99%
9	Compressed Air System	M/s Elgi equipment Ltd.	24.08.2020	04.11.2021	Mar-2023	99%
10	Fire Protection System	M/s Alpha power engineering services Pvt Ltd	29.01.2021	20.05.2021	Jun-2024	98%
11	Switch Yard	M/s BNC Power Projects Ltd	15.02.2021	28.02.2022	Jan-2023	100%
12	Station Transformers	M/s BHEL	17.01.2018	08.07.2021	Jan-2023	100%
13	Unit Transformers	M/s BHEL	17.01.2018	20.01.2022	Jun-2024	90%
14	Railway Siding	ISC Projects	02.01.2021	31.03.2022	Jul-2024	86%
15	Power Evacuation Lines	MSETCL/BNC Power Projects	15.02.2021	28.02.2022	Feb,2023	100%

CRITICAL ISSUES

- Rectification of deformation in spiral tubes (water wall) of boiler.
- Coal Bunker (RHS) & CHP structural welding works pending which is critical for coal firing activity.
- Railway siding: civil works are pending which may delay Trial Operation.

REASONS OF DELAY

1) Mal operation of boiler during coal firing (deformation in spiral tubes -water wall)
2) Due to Covid-19 pandemic.

SAGARDIGHI TPP, St-III, Unit# 5 (1X660 MW) / WBPDCL (STATE SECTOR)

PS-Sagardighi, PO-Manigram, Block-Sagardighi, Subdivision-Jangipur, Distt.-Murshidabad (W. B.), Pin-742 237
E-Gen Portal Registration No. (U#5 - 1200002116)

Project Developer / Implementing Agency - WBPDCL		Main Plant Vendor - M/s BHEL (EPC Contract)	
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual Trial Run Date
Unit#5	27th Dec-2018	Jan-2024	Jan-2025

CLEARANCES AND STATIC DATA

FUEL TYPE	Coal, Indigenous	
COAL COMBUSTION TECHNOLOGY	Super Critical	
APPROVAL DATE / NTP	Notice to Proceed Date : 01.07.2020; The proposal was approved in the State Cabinet held on 23.03.2018.	
EPC/BTG/BoP Contractor Details (Package Wise)	EPC contract awarded to BHEL (LOA : 27.12.2018)	
PPA	Power Purchase Agreement executed with WBSEDCL	
COAL LINKAGE/FSA	Allocated Mine - Pachhwara (North) Captive Coal Mine of WBPDCL. Distance from mine - 150 km (non pithead); Coal will be sourced mainly from captive coal mines of WBPDCL	
START UP POWER AGREEMENT	Start up power shall be obtained from the other running units of the Sagardighi Thermal Power Project	
POWER EVACUATION SYSTEM	Tx Line Developer	
	Tx Line Name Tx Voltage Level	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.
	Configuration of Tx Line (S/C or D/C)	
LAND POSSESSION	Adequate land is available for the project. (WBPDCL have 365 Ha of land under possession for Phases I, II & III of the plant and another 184 Ha for ash disposal.)	
WATER ALLOCATION	Source:River Bhagirathi/Hooghly 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	

FINANCIAL DATA (Fig. in Rs. Crore)

ORIGINAL ESTIMATED COST OF THE PROJECT	3862.65*
LATEST ESTIMATED COST	4567.32#
DATE OF FINANCIAL CLOSURE	02.01.2017
YEAR WISE EXPENDITURE	
2018-19	70.00
2019-20	56.25
2020-21	362.47
2021-22	330.97
2022-23	662.34
2023-24	697.10
EXPENDITURE OF May'2024	29.38
TOTAL EXPENDITURE (upto 31.05 .2024)	2125.06

Awaiting Approval
* Approved in the State Cabinet held on23.03.2018

Status as on 31-05-2024

SAGARDIGHI TPP, St-III, Unit# 5 (1X660 MW) / WBPDCL (STATE SECTOR)

UNIT WISE MILESTONES (ANTICIPATED / ACTUAL)

Sl.	MILESTONE	UNIT-05	
		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	15.04.23
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	30.12.2022	28.02.2024
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	29.05.2023	June'24
10	TG BOX UP	01.06.2023	July'24
11	HP PIPING ERECTION COMPLETION	26.08.2023	July'24
12	START OF OIL FLUSHING	28.03.2023	Sept'24
13	BOILER LIGHT UP	13.06.2023	Oct'24
14	CHEMICAL CLEANING COMPLETION	28.06.2023	Nov,24
15	STEAM BLOWING START	13.07.2023	Dec'24
16	STEAM BLOWING COMPLETION	12.08.2023	Dec'24
17	ROLLING & SYNC.	01.09.2023	Dec'24
18	FULL LOAD	01.11.2023	Jan'25
19	TRIAL RUN	01.01.2024	**Jan-25**
20	COD	Jan-24	Jan-25

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

Sl.	Packages	AREA	UNIT-05
			% Completion
1	BOILER	CIVIL	100%
		STRUCTURE	51.06%
		PRESSURE PARTS	90.83%
2	TG	CIVIL	100%
		STRUCTURE	100%
3	ESP	CIVIL WORKS	100%
		STRUCTURAL WORKS	94.95%
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	17.05.2023	30.09.2024	95%
2	Coal Handling Plant	Conveyor package: Bengal Tools Limited	27.12.2018	15.12.2023	30.12.2024	79%.
		Twin Wagon Tippler : ThyssenKrupp		13.12.2023	30.12.2024	
		Existing Stacker Reclaimer of Stage-II will be used	NA	NA	NA	NA
3	Ash Handling Plant	M/s. MacawberBeekey Pvt. Ltd.	27.12.2018 (ZERO DATE AS PER CONTRACT 01.07.2020)	28.03.2024	30.12.2024	70%
4	Fuel Oil System	M/s. BHEL		27.08.2023	31.12.2024	0%
5	Cooling Towers	M/s. Paharpur Cooling Towers Limited		31.12.2022	30.06.2024	93.86%
6	CW Pump house	M/s. BHEL		09.12.2023	27.12.2024	40.25%
8	WPT Plant	Will be used from Existing			31.12.2023	Existing from Stage – II Project will be used.
9	DM Plant				31.12.2023	
11	Compressed Air System	M/s. BHEL	27.12.2018 (ZERO DATE AS PER CONTRACT 01.07.2020)	25.08.2023	31.08.2024	18%
12	Fire Protection System	M/s. BHEL		24.03.2024	30.12.2024	15%
15	Switch Yard	M/s. BHEL		22.03.2024	30.12.2024	34.5%
16	Station Transformers	M/s. BHEL		30.03.2023	31.12.2024	37.5%
18	Unit Transformers	M/s. BHEL		27.08.2023	31.12.2024	
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 supply of critical piping, LT Switchgear
- Slow progress in CHP
- Delay in Supply of SCR package for NO_x control

REASONS OF DELAY

1. 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.
4. Delay in supply of Double Girder EOT Crane (more than 100 MT capacity) which resulting in delay in delay in Turbine Erection. TPI completed in Feb 2023.
5. Delay in ordering of Bought out items, like :
   - Condensate Polishing Unit.
   - Mill Rejection System.
   - Control Valves.

DCR TPP Extn., Unit# 3 (1X800 MW) / HPPGCL (STATE SECTOR)

Rattanpura, Yamunanagar, Yamunanagar, Haryana– 768001

E-Gen Portal Registration No. (U#3 – Not yet registered)

Project Developer / Implementing Agency -HPGCL		Main Plant Vendor - M/s BHEL (EPC contract)	
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual Trial Run Date
Unit#3	08-02-2024 (LOI)	Sept-29	Sept-2029 (Tentative)

CLEARANCES AND STATIC DATA	
FUEL TYPE	Coal, Non-Pithead
COAL COMBUSTION TECHNOLOGY	Ultra-Supercritical
APPROVAL DATE / NTP	Letter of Intent issued to M/s BHEL on 08.02.2024
PPA	HPGCL has the mandate to supply power to Haryana State Discoms only and thus no separate PPA needs to be signed and only quantum of power in existing PPA shall be added.
COAL LINKAGE/FSA	Standing Linkage Committee (Long Term) of Ministry of Coal in its meeting on 19.09.2023 has recommended bridge linkage of 37.1 Lac Metric Tonne per Annum for the project for a period of 3-years i.e. upto 23.02.2026.
START UP POWER AGREEMENT	It will be drawn from exisiting 220 kV switchyard of DCRTPP, Yamunanagar, whereby, 2 Nos, 400/220 kV, 315 MVA ICTs will be provided to connect exisiting 220 kV switchyard with upcoming 400 kV switchyard of proposed 800 MW Unit-3. From 400 kV switchyard, power will be supplied for start up through 2 Nos, 400/11 kV, 130 MVA Station Transformers.
POWER EVACUATION SYSTEM	Power will be evacuated through 2 Nos., 400 kV Tx lines, to be constructed by Haryana Vidyut Prasaran Nigam Limited (HVPNL). Proposed 400 kV switchyard will also be connected to existing 220 kV switchyard by providing 2 Nos, 400/220 kV, 315 MVA ICTs .
LAND POSSESSION	Unit shall be installed within in the existing boundary of DCRTPP, no additional land is required.
WATER ALLOCATION	Consent has been obtained from Irrigation Department for regular supply of 22 Cusecs of raw water from WJC canal for the proposed 800 MW Ultra Supercritical unit at DCRTPP, Yamunanagar.
MOEF CLEARANCE	TOR has been granted for the project by MoEF&CC on 24.03.2023. Accordingly, baseline monitoring has been conducted at site by M/s MECON Ltd. EIA/EMP study report is being finalized, after which, Public Hearing shall be held at site through HSPCB. Subsequently, application for Enviornment Clearance shall be filed with MoEF&CC
CIVIL AVIATION CLEARANCE	NoC for NDCT Height Clearance has been accorded by Airport Authority of India (AAI) on 27.06.2023 and NoC from Ministry of Defense (MoD) is awaited.
CPCB CLEARANCE	Not Applicable
SPCB CLEARANCE	Not Applicable
FOREST CLEARANCE	Not Applicable

FINANCIAL DATA (Fig. in Rs. Crore)	
ORIGINAL ESTIMATED COST OF THE PROJECT	6900
LATEST ESTIMATED COST	6900
DATE OF FINANCIAL CLOSURE	Financial closure is in process.
YEAR WISE EXPENDITURE	
EXPENDITURE OF Jan'24	1.39
EXPENDITURE of May 24	NA
TOTAL EXPENDITURE (up to 31.05.24)	1.39

Status as on 31-05-2024

DCR TPP Extn., Unit# 3 (1X800 MW) / HPPGCL (STATE SECTOR)

UNIT WISE MILESTONES (ANTICIPATED/ ACTUAL)

SI.	Milestone	UNIT-03	
		Original Date of Completion	Actual / Anticipated Date of Completion
1	Completion Of Boiler Foundation		
2	Start Of Boiler Erection		
3	Boiler Ceiling Girder Lifting Completion		
4	Condenser Erection Start		
5	TG Erection Start		
6	HP Piping Erection Start		
7	Boiler Hydro Test (Drainable) Completion		
8	Boiler Hydro Test (Non-Drainable) Completion		
9	TG BOX UP		
10	HP Piping Erection Completion		
11	Start Of Oil Flushing		
12	Boiler Light Up		
13	Chemical Cleaning Completion		
14	Steam Blowing Start		
15	Steam Blowing Completion		
16	Rolling & Sync.		
17	Full Load		
18	Trial Run		
19	COD		

STATUS OF MAIN PLANT PACKAGE (BTG)-BHEL

SI	PACKAGE	AREA	UNIT-03
1	BOILER	CIVIL	
		STRUCTURE	
		PRESSURE PARTS	
2	TG	CIVIL	
		STRUCTURE	
		TG ERECTION	
3	ESP	UNDER PROGRESS	
4	FGD	CIVIL WORK	
		MATERIAL SUPPLY	
		ERECTION WORK	

STATUS OF BOPs

Sl.	Packages/ Linked Project Milestones	Vendor/ Contracting Agency (DPSI)	Date of Award	Scheduled Date of Comp.	Ant/ Actual Date of Comp.	UNIT-3
1	Chimney					
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 AREAS

REASONS OF DELAY

Status as on 31-05-2024

MAHAN USCTPP, Ph-II, Unit# 3 & 4 (2X800 MW) / Mahan Energen Ltd. (PRIVATE SECTOR)

Village: Bandhaura, Post: Karsualal,Tehsil: Mada, District: Singrauli, Madhya Pradesh – 486886

E-Gen Portal Registration No. (U#3 - 1200003898 ; U#4 - 1200003899)

Project Developer / Implementing Agency - Mahan Energen Ltd		Main Plant Vendor (BTG) - BHEL (Supply contract)	
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual Trial Run Date
Unit#3	Aug-2023	Nov-2026	Dec-2026
Unit#4		May-2027	May-2027

CLEARANCES AND STATIC DATA

FUEL TYPE	Coal Based	
COAL COMBUSTION TECHNOLOGY	Ultra-supercritical	
APPROVAL DATE / NTP	20.06.2023	
EPC/BTG/BoP Contractor Details (Package Wise)	20-Aug-23: BTG Supply & Supervision Ordering to M/s BHEL	
PPA	Long term Power Sale Agreement ("PSA") signed for supply of 1320 MW (Gross) power to Madhya Pradesh Power Management Co. Ltd. ("MPPMCL") for period of 25 years w.e.f. COD of the project term.	
COAL LINKAGE/FSA	Allocated coal linkage of 5 MTPA from WCL under para b(iv) of the SHAKTI Policy. Balance coal requirement will be fulfilled by nearby commercial mine.	
START UP POWER AGREEMENT	Startup power will be arranged from transmission to be developed by MPPMCL in line with the PSA.	
POWER EVACUATION SYSTEM	Tx Line Developer	MPPMCL
	Tx Line Name Tx Voltage Level	As per PSA, Power Evacuation from the bus bar of the power station is to be developed by MPPMCL.
	Configuration of Tx Line (S/C or D/C)	
LAND POSSESSION	Total land required for proposed expansion area is 288 Acres which is already in possession. The total area of the Project site is 920 Acres including exsiting facility.	
WATER ALLOCATION	Agreement signed on 18-Oct-22 for drawl of 36 MCM water from River Rihand (Govind Vallabh Pant Sagar) with the validity of 30 years	
MOEF CLEARANCE	MoEFCC Clearance for the Project obtained on 27-Jul-23 (Validity of 10 years as per guideline)	
CIVIL AVIATION CLEARANCE	NOT APPLICABLE	
CPCB CLEARANCE	NOT APPLICABLE	
SPCB CLEARANCE	CTE awaited.	
FOREST CLEARANCE	NOT APPLICABLE	

FINANCIAL DATA (Fig. in Rs. Crore)

ORIGINAL ESTIMATED COST OF THE PROJECT	12439.00
LATEST ESTIMATED COST	12439.00
DATE OF FINANCIAL CLOSURE	20.06.2023
YEAR WISE EXPENDITURE	
2022-23	53
2023-24	196
EXPENDITURE OF MAY'2024	66
TOTAL EXPENDITURE (upto 31.05.2024)	905

Status as on 31-05-2024

MAHAN USCTPP, Ph-II, Unit# 3 & 4 (2X800 MW) / Mahan Energen Ltd. (PRIVATE SECTOR)

UNIT WISE MILESTONES (ANTICIPATED / ACTUAL)

Sl.	MILESTONE	UNIT-03		UNIT-04	
		Original Date	Actual / Anticipated Date	Original Date	Actual / Anticipated Date
1	COMPLETION OF BOILER FOUNDATION	Oct-24	Oct-24	May-25	May-25
2	START OF BOILER ERECTION	Jul-24	Jul-24	Jan-25	Jan-25
3	BOILER DRUM LIFTING (if sub-critical unit)	NA		NA	
4	BOILER CEILING GIRDER LIFTING COMPLETION	Jan-25	Jan-25	Jul-25	Jul-25
5	CONDENSER ERECTION START	Jun-25	Jun-25	Dec-25	Dec-25
6	TG ERECTION START	Sep-25	Sep-25	Mar-26	Mar-26
7	HP PIPING ERECTION START	Aug-25	Aug-25	Feb-26	Feb-26
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION	Feb-26	Feb-26	Aug-26	Aug-26
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	Apr-26	Apr-26	Oct-26	Oct-26
10	TG BOX UP	Jul-26	Jul-26	Jan-27	Jan-27
11	HP PIPING ERECTION COMPLETION	Apr-26	Apr-26	Oct-26	Oct-26
12	START OF OIL FLUSHING	Apr-26	Apr-26	Oct-26	Oct-26
13	BOILER LIGHT UP	Aug-26	Aug-26	Feb-27	Feb-27
14	CHEMICAL CLEANING COMPLETION	Jun-26	Jun-26	Dec-26	Dec-26
15	STEAM BLOWING START	Aug-26	Aug-26	Feb-27	Feb-27
16	STEAM BLOWING COMPLETION	Sep-26	Oct-26	Mar-27	Mar-27
17	ROLLING & SYNC.	Nov-26	Dec-26	May-27	May-27
18	FULL LOAD	Nov-26	Dec-26	May-27	May-27
19	TRIAL RUN	Nov-26	**Dec-26**	May-27	**May-27**
20	COD	Dec-26	Jan-27	Jun-27	Jun-27

STATUS OF MAIN PLANT PACKAGE (BTG) : BHEL (Supply contract)

Sl.	Packages	AREA	UNIT-03 % Completion	UNIT-04 % Completion
1	BOILER	CIVIL	13%	8.5%
		STRUCTURE	13%	8.5%
		PRESSURE PARTS	13%	8.5%
2	TG	CIVIL	15%	10%
		STRUCTURE		
		TG ERECTION	15%	10%
3	ESP	UNDER PROGRESS	17%	14%
4	FGD	CIVIL WORK	7%	7%
		MATERIAL SUPPLY	7%	7%
		ERECTION WORK	7%	7%

STATUS OF BOPs

Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency	Date of Award	Scheduled Date of Completion	Anticipated /Actual Date of Completion	UNIT-03 % Completion	UNIT-04 % Completion
1	Chimney	Tender Floated, Pre-Bid under progress	Mar-24	Jul-26	Jul-26	5%	5%
2	Coal HandlingPlant Conveyor Package Wagon Tippler Crusher House Pkg		Mar-24	Jun-26	Jun-26	10%	10%
			NA	NA	NA	0%	0%
			Mar-24	Apr-26	Apr-26	10%	10%
3	Ash Handling		Mar-24	Jun-26	Jun-26	11%	11%
4	Fuel Oil System		Jul-24	Jun-26	Jun-26	13%	13%
5	Cooling Towers		Mar-24	May-26	May-26	10%	10%
6	CW Pump House and Piping		May-24	May-26	May-26	8.5%	8.5%
7	WPT Plant		Mar-24	Jan-26	Jan-26	6%	0%
8	DM Plant		Mar-24	Jan-26	Jan-26	6%	6%
9	Compressed Air System		May-24	Feb-26	Feb-26	7%	7%
10	Fire Protection System		Jun-24	May-26	May-26	0%	0%
11	Switch Yard		Mar-24	May-26	May-26	6%	6%
12	Station Txer		Mar-24	Jul-26	Jul-26	5%	5%
13	Generator Txer		Mar-24	Jul-26	Jul-26	6%	6%
14	Unit Txer		May-24	Mar-26	Mar-26	5%	5%
15	Railway Siding		NA	NA	NA	0%	0%
16	Power evacuation	NA					

CRITICAL ISSUES

REASONS OF DELAY

Status as on 31-05-2024

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

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)	
Unit No.	LOA	Original Trial Run Date	Anticipated / Actual Trial Run Date
Unit#1	Nov-2015	Feb-2018	June-2024

CLEARANCES AND STATIC DATA

FUEL TYPE	RLNG (Regasified Liquified Natural Gas)	
COAL COMBUSTION TECHNOLOGY	NOT APPLICABLE	
APPROVAL DATE / NTP	Approval Date: Government Of Karnataka Order No. EN78PPC2010 Bengaluru dated:05.07.2011	
EPC/BTG/BoP Contractor Details (Package Wise)	EPC Contractor: M/s BHEL LOA Date:03.11.2015	
PPA	Under Process	
COAL LINKAGE/FSA	NOT APPLICABLE	
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	
POWER EVACUATION SYSTEM	Tx Line Developer	KPTCL
	Tx Line Name Tx Voltage Level	3 nos. of 220 kV lines are ready (Dec-2018) for the power evacuation
	Configuration of Tx Line (S/C or D/C)	
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.	
WATER ALLOCATION	15 MLD Tertiary treated plant at JAKKUR is supplying water to YCCP Plant	
MOEF CLEARANCE	Approval No : State Level environment impact assessment authority(SEIAA) no SEIAA20IND 2014 DATED 1/9/2015	
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	

FINANCIAL DATA (Fig. in Rs. Crore)

ORIGINAL ESTIMATED COST OF THE PROJECT	1571.18
LATEST ESTIMATED COST	2055.23
DATE OF FINANCIAL CLOSURE	31.03.2021
YEAR WISE EXPENDITURE	
2015-16	4.87
2016-17	152.89
2017-18	1050.00
2018-19	140.93
2019-20	171.41
2020-21	219.28
2021-22	263.80
2022-23	167.74
2023-24	153.27
EXPENDITURE OF Apr'2024	1.62
EXPENDITURE OF May'2024	3.11
TOTAL EXPENDITURE (upto 31.05.2024)	2466.89

Status as on 31-05-2024

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

UNIT WISE MILESTONES (ANTICIPATED / ACTUAL)

Sl.	MILESTONE		UNIT-01 (GT+ST)	
			Original Date of Completion	Anticipated / Actual Date of Completion
1	COMPLETION OF BOILER FOUNDATION		30.06.2016	14.11.2016
2	START OF BOILER ERECTION		01.07.2016	09.11.2016
3	BOILER DRUM LIFTING (if sub-critical unit)		10.03.2017	07.04.2017
4	BOILER CEILING GIRDER LIFTING COMPLETION		30.11.2016	21.12.2016
5	CONDENSER ERECTION START		14.08.2017	Nov-17
6	TG ERECTION START		-	-
7	HP PIPING ERECTION START		-	Sep-17
8	BOILER HYDRO TEST (DRAINABLE) COMPLETION		30.06.2017	27.11.2017
9	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION		30.06.2017	27.11.2017
10	TG BOX UP	ST	30.09.2017	Feb, 2021
		GT	30.09.2017	Sept, 2021
11	HP PIPING ERECTION COMPLETION		-	Nov-21
12	START OF OILFLUSHING	ST	30.09.2017	Dec, 2020
		GT	09.10.2017	29.08.2018
13	BOILER LIGHT UP		NA	NA
14	CHEMICAL CLEANING COMPLETION		02.11.2017	
15	STEAM BLOWING START		01.12.2017	
16	STEAM BLOWING COMPLETION		15.12.2017	
17	ROLLING & SYNC.		16.12.2017	
18	FULL LOAD		17.12.2017	
19	TRIAL RUN		07.02.2018	Jun-24
20	COD		01.03.2018	Jun-24

STATUS OF MAIN PLANT PACKAGE (BTG) : BHEL

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

STATUS OF BOPs

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

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).

(The project is on hold since March 2021 due to NGT order)

Status as on 31-05-2024

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

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

FUEL TYPE	Coal, Indigenous & Imported (MMTC)	
COAL COMBUSTION TECHNOLOGY	Supercritical	
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.	
EPC/BTG/BoP Contractor Details (Package Wise)	Order placed on M/s. BHEL on 27/02/2016.	
PPA	NOT APPLICABLE. State sector project.	
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.	
START UP POWER AGREEMENT	230KV/11 Karaigudi Feeder	
POWER EVACUATION SYSTEM	Tx Line Developer	TANTransco
	Tx Line Name Tx Voltage Level	Uppur SCTPP – Virudhunagar, 765 KV, D/C line
	Configuration of Tx Line (S/C or D/C)	
LAND POSSESSION	Land required for the project is under TANGEDCO Possession. EPC Contracts awarded to M/s. BHEL & M/S L&T has been suspended as per the NGT(SZ), Chennai Judgment dated 17.03.2021, delivered on Appeal No. 144 of 2016(SZ) filed in the designated court for a period of six months or until further orders.	
WATER ALLOCATION	Tamil Nadu Maritime Board has issued NOC for construction of Jetty for drawal and discharge of cooling water, vide 27.4.2015.	
MOEF CLEARANCE	Ministry of Environment and Forest has accorded clearance for the above Project on 18.05.2016.	
CIVIL AVIATION CLEARANCE	Clearance expired on 21.11.2019. Clearance further extended upto 21.11.2024.	
CPCB CLEARANCE	NOT APPLICABLE. State sector project.	
SPCB CLEARANCE	CRZ committee of MOEF recommended the Project on 28.1.16 and MOM published in web site on 8.2.16.	
FOREST CLEARANCE	NOT APPLICABLE	

FINANCIAL DATA (Fig. in Rs. Crore)

ORIGINAL ESTIMATED COST OF THE PROJECT	12778.00
LATEST ESTIMATED COST	Not Applicable
DATE OF FINANCIAL CLOSURE	Financial tie up with M/s. PFC
YEAR WISE EXPENDITURE	
2016-17	16.74
2017-18	226.62
2018-19	1594.15
2019-20	924.32
2020-21	366.61
2021-22	
2022-23	
EXPENDITURE OF JAN'2024	503.12
TOTAL EXPENDITURE (upto 31.01.2024)	3282.12

* 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, deliveredon 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 existing2x800 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 ofthe 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.

Status as on 31-05-2024

UPPUR STPP, Unit# 1 & 2 (2x800 MW) / TANGEDCO (STATE 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		Project is on hold.		. Project is on hold.
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 GOTN for administrative approval. Energy Secretary/GoTN has been addressed vide Letter dtd 10.05.2021 for approval of the above.
Against NGT order, SLP was filed by TANGEDCO in Supreme court on 16.04.2021. Honourable Supreme court of India granted stay on the impugned judgment passed by NGT on 01.07.2021. In the review meeting of energy department chaired by Hon'ble Chief Minister on 22.07.2021, it was requested to restudy the shifting of Uppur project considering the energy demand. CMD has accorded approval on 27.08.2021 to form a high level committee comprising of three Directors and four Chief Engineers to restudy the shifthing 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 prgress. 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.

Status as on 31-05-2024

ENNORE EXPANSION TPP, Unit# 1 (1x660 MW) / TANGEDCO (STATE SECTOR)

Ernavur Village, Tiruvottiyur Taluk, Thiruvallur District, Tamil Nadu

E-Gen Portal Registration No. (U#1 - 1200003521)

Project Developer / Implementing Agency - TANGEDCO		Main Plant Vendor - M/s BGRESL (EPC)			
Unit No.	LOA	Original Trial Run Date	Anticipated /	Actual	Trial Run Date
Unit#1	14.07.2014				

CLEARANCES AND STATIC DATA

FUEL TYPE	Coal, Indigenous & Imported	
COAL COMBUSTION TECHNOLOGY	Super Critical	
APPROVAL DATE / NTP	14.07.2014	
EPC/BTG/BoP Contractor Details (Package Wise)	M/s BGRESL (EPC) wef June-2022 (earlier this project was awarded to M/s Lanco Infra)	
PPA	Entire power is to be utilized by TANGEDCO	
COAL LINKAGE/FSA	Long term coal linkage submitted to Ministry of coal on 08.11.2006 and pending with Ministry of coal. MoU with MMTC on 23.07.2012 for supplying of 2.00 MTPA Imported coal.	
START UP POWER AGREEMENT		
POWER EVACUATION SYSTEM	Tx Line Developer	TANTRANSCO
	Tx Line Name Tx Voltage Level	
	Configuration of Tx Line (S/C or D/C)	
LAND POSSESSION	Own land within the premises of existing ETPS	
WATER ALLOCATION		
MOEF CLEARANCE	MoEF clearance Lr J-13011/62/2008-IA.II(T) dated 18.09.2014	
CIVIL AVIATION CLEARANCE	Airport Authority's Letter No AAI/20012/1468/2007-ARI(NOC),Dated 16th May 2008.	
CPCB CLEARANCE		
SPCB CLEARANCE	Tamil Nadu Government GO (4D) No 01 Dated 15.11.2012.	
FOREST CLEARANCE		

FINANCIAL DATA (Fig. in Rs. Crore)

ORIGINAL ESTIMATED COST OF THE PROJECT	4956
LATEST ESTIMATED COST	7093
DATE OF FINANCIAL CLOSURE	
YEAR WISE EXPENDITURE	
2014-15	239.70
2015-16	288.91
2016-17	
2017-18	
2018-19	
2019-20	
2020-21	
EXPENDITURE OF May'2024	-
TOTAL EXPENDITURE (upto 31.12.2023)	-

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		