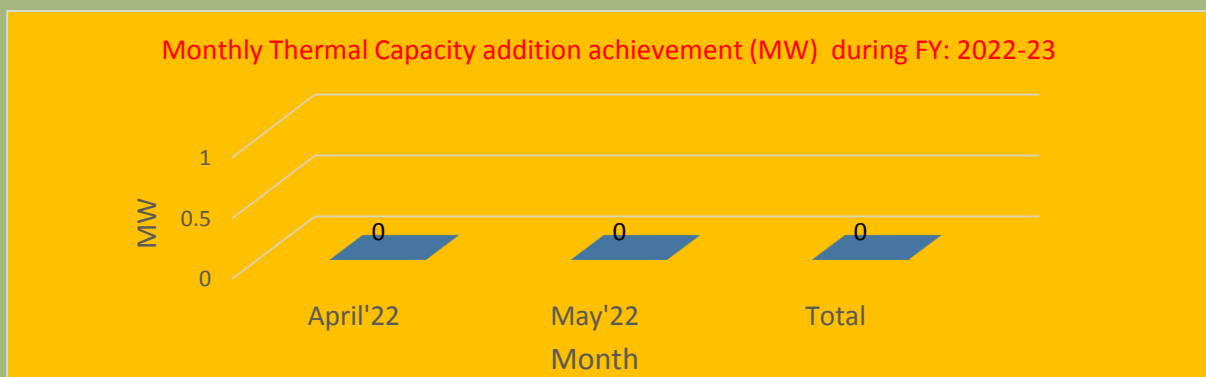
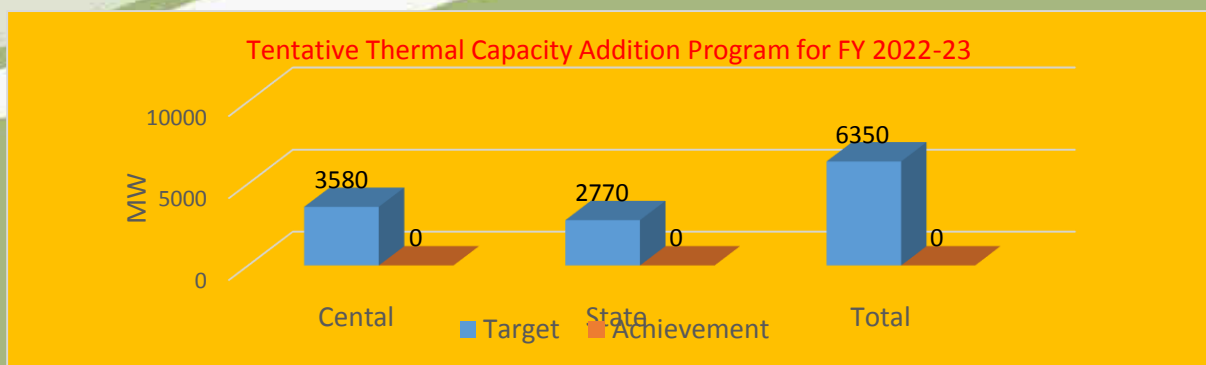




BROAD STATUS REPORT OF UNDER CONSTRUCTION THERMAL POWER PROJECTS (MAY, 2022)



Thermal Project Monitoring Division
Central Electricity Authority
New Delhi

Ministry of Power
Government of India

www.cea.nic.in

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

FOREWORD

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

In this context, Thermal Project Monitoring Division, Central Electricity Authority has been bringing out the monthly report titled “Broad Status of Thermal Power Projects in the Country”. This report gives year-wise details of thermal power projects commissioned during the 12th plan and onwards. Further, the Report includes up-to-date information on thermal power projects under construction in the country wherein the details regarding name of the Project, capacity, location, implementing agency, commissioning schedule, type of fuel, estimated cost, physical and financial progress, the milestones achieved as on date etc. are available. The critical issues requiring immediate attention of concerned authorities in the implementation of these thermal power projects have also been highlighted.

The Broad Status Report is being brought out regularly by TPM Division on the basis of the data forwarded by various project authorities, visits made by CEA officers to various power projects, discussions held with the executing agencies and suppliers of equipment from time to time.

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

Chief Engineer (TPM)

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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B	NEYVELI LIGNITE CORPORATION LIMITED (NLC Ltd.)	
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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	66831.5	1150.0	7067.1	236.0	75284.6	0.0	27126.8	2451.8	104863.2
Private	73198.0	1830.0	10574.2	273.7	85876.0	0.0	3931.0	109142.4	198949.3
Central	64050.0	3640.0	7237.9	0.0	74927.9	6780.0	15664.7	1632.3	99004.9
Total	204079.5	6620.0	24879.2	509.7	236088.4	6780.0	46722.5	113226.5	402817.4
% of Grand Total	50.7%	1.6%	6.2%	0.1%	58.6%	1.7%	11.6%	28.1%	100.0%

* Compiled from Installed Capacity Report on NPP site.

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

(as on 31.05.2022)

FY	2022-23	2023-24	2024-25	2025-26	Total (MW)
Central	2920	5940	2260	800	11920
State	2770	7680	3580	1600	15630
Private	0	0	0	0	0
Total	5690	13620	5840	2400	27550

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

(as on 31.05.2022)

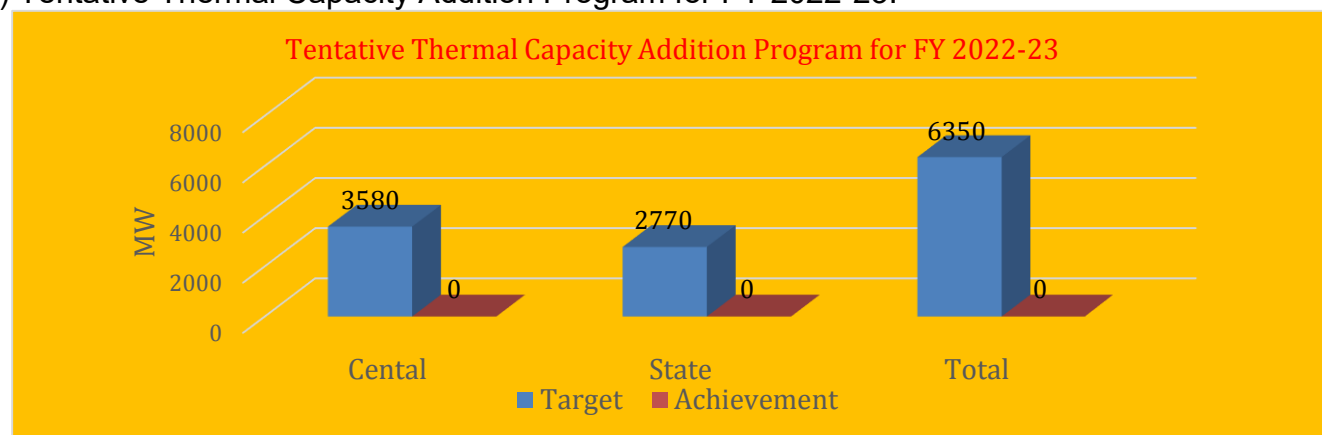
Sector	Super Critical #		Sub-Critical		Total	
	No. of Projects [Units]	Capacity (MW)	No. of Projects [Units]	Capacity (MW)	No. of Projects [Units]	Capacity (MW)
Central	7 [17]	11920	0	0	7 [17]	11920
State	12 [21]	15260	1 [1]	370	13 [22]	15630
Private	0	0	0	0	0	0
Total	19 [38]	27180	1 [1]	370	20 [39]	27550

Out of the 19 Supercritical TPPs, 6 projects (14 units) totaling to 9940 MW [4 projects (10 units) in central sector totaling 7300 MW and 2 projects (4 units) in state sector totaling 2640 MW] are based on Ultra Super critical technology. The details of these projects are given in table 1.2

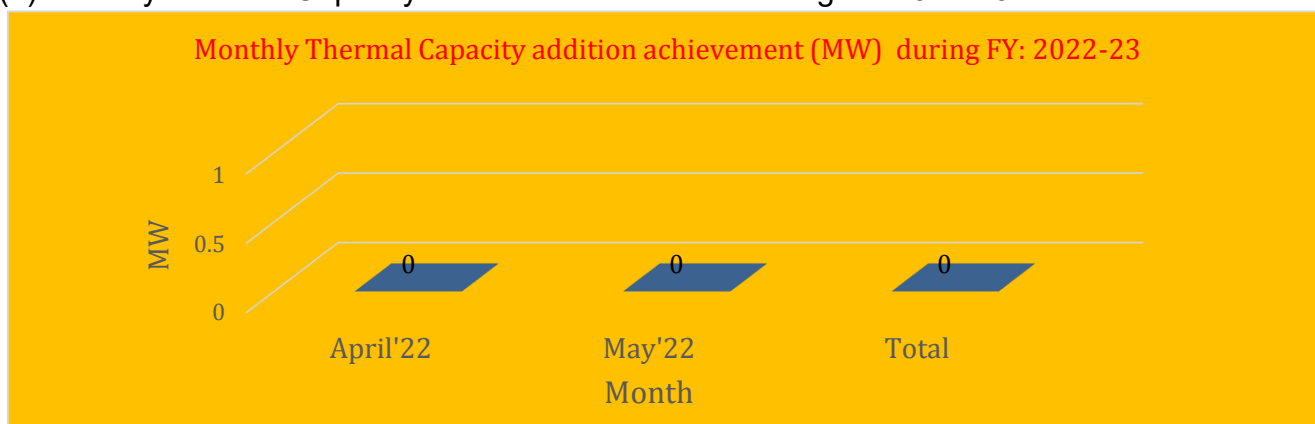
IV. Sector-wise Thermal Capacity Addition during last five years :

Thermal capacity addition (MW) after 12th Plan (from 01.04.2017 onwards)										
	FT:2017 -18		FY:2018-19		FY:2019-20		FY:2020-21		FY:2021-22	
Sector	Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
Central	4880	3170	2760	1960	6040	3940	5790	4080	5400	2370
State	3546.15	1760	4506.15	2849.755	4256.15	2780	4276.15	846.15	4360	1590
Private	2940	3780	Nil	972	Nil	45	525	0	525	525
Total	11366.15	8710	7266.15	5781.755	10296.15	6765	10591.15	4926.15	10285	4485

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



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



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

(as on 31.05.2022)

S. No	Project Name	Implementing Agency	State	Boiler & Turbine Make	Unit No	Capacity (MW)	Trial Run anticipated at the Beginning of the year	Trial Run Assessment as per latest Review by CEA	Capacity Achieved (MW)	Actual Date of Capacity Addition
CENTRAL SECTOR										
1	Barh STPP-I	NTPC	Bihar	Boiler: DPSI, TG: Power Machine, Russia	U-2	660	Dec-22	Dec-22		
2	North Karanpura STPP	NTPC	Jharkhand	BTG: BHEL	U-1	660	May-22	Oct-22		
3	Ghatampur TPP	NUPPL (JV of NLC and UPRVUNL)	Uttar Pradesh	Boiler : MHPS, TG : Alstom & Bharat Forge	U-1	660	Dec-22	May-23		
4	Telangana STPP St- I	NTPC	Telangana	Boiler :MHPS, TG: Alstom & Bharat Forge	U-1	800	Aug-22	Aug-22		
					U-2	800	Feb-23	Feb-23		
Total Central Sector						3580				
STATE SECTOR										
5	Dr. Narla Tata Rao TPS St-V	APGENCO	Andhra Pradesh	BTG: BHEL	U-1	800	Jul-22	Sep-22		
6	North Chennai TPP St-III	TANGEDCO	Tamil Nadu	Boiler : BHEL(Alstom), TG: BHEL(Siemens)	U-1	800	Oct-22	Oct-22		
7	Yelahanka CCPP	KPCL	Karnataka	EPC: BHEL	GT+ST	370	Sep-22	Jan-23		
8	Sri Damodaran Sanjeevaiah TPP St-II	APPDCL	Andhra Pradesh	EPC: BHEL	U-1	800	Apr-22	Oct-22		
Total State Sector						2770				
Total Targeted Capacity						6350				

1.2 Thermal Power Projects under construction in the Country:

(as on 31.05.2022)

S No	Project Name	State	Implementing Agency	Boiler	Turbine	Technology	LOA Date	Unit No	Cap. (MW)	Org Trial Run	Anticipated Trial Run (as per CEA)	Original Cost (cr)	Latest Cost (cr)	Total Exp. In crores.	% Financial progress (upto May'22)
CENTRAL SECTOR															
1	Barh STPP-I	Bihar	NTPC	Doosan	Power Machine, Russia	Supercritical	Mar-05	U-2	660	Dec-10	Dec-22	8693	21312.11	19929	93.5
								U-3	660	Oct-11	Dec-23				
2	Buxar TPP	Bihar	SJVN	L&T	L&T	Supercritical	Jun-19	U-1	660	May-23	Jun-23	10439.09	10439.09	5410.32	51.8
								U-2	660	Sep-23	Jan-24				
3	North Karanpura STPP	Jharkhand	NTPC	BHEL	BHEL	Ultra Supercritical	Feb-14	U-1	660	Jun-18	Oct-22	14367	15389.42	12846	83.5
								U-2	660	Dec-18	May-23				
								U-3	660	Jun-19	Jan-24				
4	Patratu STPP	Jharkand	PVUNL(JV of NTPC & JBVNL)	BHEL	BHEL	Ultra Supercritical	Mar-18	U-1	800	Jan-22	Jun-24	17112	18668	5570.2	29.8
								U-2	800	Jul-22	Dec-24				
								U-3	800	Jan-23	Jun-25				
5	Ghatampur TPP	Uttar Pradesh	NUPPL (JV of NLC and UPRVUNL)	L&T MHPS	GE Power system(Alostham & Bharat Forge)	Supercritical	Aug-16	U-1	660	May-20	May-23	17237.8	17237.8	13599.3	78.9
								U-2	660	Nov-20	Aug-23				
								U-3	660	May-21	Nov-23				
6	Khurja SCTPP	Uttar Pradesh	THDC	L&T MHI	BHEL	Ultra Supercritical	Aug-19	U-1	660	Jul-23	Feb-24	11089.42	11089.42	4349.29	39.2
								U-2	660	Jan-24	Aug-24				
7	Telangana STPP St- I	Telangana	NTPC	BHEL	GE Power system(Alostham & Bharat Forge)	Ultra Supercritical	Feb-16	U-1	800	May-20	Aug-22	10599	10997.7	9286	84.4
								U-2	800	Nov-20	Feb-23				
	Total Central Sector								11920			89537.3	105133.5	70990.1	
STATE SECTOR															
1	Dr.Narla Tata Rao TPS St-V	AP	APGENCO	BHEL	BHEL	Supercritical	Dec-15	U-1	800	Apr-19	Sep-22	5286.54	7586.67	6844.19	90.2
2	Sri Damodaram Sanjeevaiah TPP St-II	AP	APPDCL (JV of APGENCO & ILFS)	BHEL	BHEL	Supercritical	Nov-15	U-1	800	Jun-19	Oct-22	4276.03	8069.87	8069.87	100.0

3	Jawaharpur STPP	Uttar Pradesh	UPRVUNL	Doosan	Doosan	Ultra Supercritical	Dec-16	U-1	660	Dec-20	Jun-23	8078.56	10566.27	8433.52	79.8
								U-2	660	Apr-21	Dec-23				
4	Obra-C STPP	Uttar Pradesh	UPRVUNL	Doosan India	Doosan India (GE)	Ultra Supercritical	Dec-16	U-1	660	Dec-20	Jun-23	8777.71	10416	7232.59	69.4
								U-2	660	Apr-21	Dec-23				
5	Panki TPS Extn.	Uttar Pradesh	UPRVUNL	BHEL	BHEL	Supercritical	Mar-18	U-1	660	Sep-21	Sep-23	5816.7	5816.7	3837.26	66.0
6	Ennore SCTPP	TN	TANGEDCO	BHEL	BHEL	Supercritical	Sep-14	U-1	660	Nov-17	Mar-24	9800	9800	5710.48	58.3
								U-2	660	Jan-18	Apr-24				
7	North Chennai TPP St-III	TN	TANGEDCO	BHEL	BHEL	Supercritical	Jan-16	U-1	800	Apr-19	Oct-22	6376	8722.86	7177.74	82.3
8	Udangudi STPP Stage I	TN	TANGEDCO	BHEL	BHEL	Supercritical	Dec-17	U-1	660	Jan-21	Mar-24	13076.70 5	13076.70 5	5282.63	40.4
								U-2	660	Mar-21	Jun-24				
9#	Uppur Super Critical TPP	TN	TANGEDCO	BHEL	BHEL	Supercritical	Feb-16	U-1	800	Nov-19	On hold #	12778	12778	2298	18.0
								U-2	800	Nov-19	On hold #				
10	Yadadri TPS	Telangana	TSGENCO	BHEL	BHEL	Supercritical	Oct-17	U-1	800	Oct-20	Apr-23	25099.42	29965.48	15045.9 6	50.2
								U-2	800	Oct-20	Aug-23				
								U-3	800	Jun-21	Dec-23				
								U-4	800	Jun-21	Apr-24				
								U-5	800	Oct-21	Aug-24				
11	Yelahanka CCPP	Karnataka	KPCL	BHEL	BHEL	Sub critical	Nov-15	GT+ST	370	Feb-18	Jan-23	1571.18	2243.34	2243.34	100.0
12	Bhusawal TPS	Maharashtra	MAHAGENCO	BHEL	BHEL	Supercritical	Jan-18	U-6	660	May-22	Jun-23	4548	4550.97	3126.6	68.7
13	Sagardighi Thermal Power Plant Ph-III	West bengal	WBDCL	BHEL	BHEL	Supercritical	Dec-18	U-1	660	Jan-24	Apr-24	3862.65	4567.32	759.25	16.6
Total State Sector									15630			109347.5	128160.2	76061.4	
Grand Total									27550			198884.8	233293.7	147051.5	

#TANGEDCO Board vide.BP.43,dated: 29.04.2021 has accorded approval to shift the existing 2x800 MW Uppur STPP to Udangudi site as 2x800MW Udangudi Stage-III and consider Uppur as a fresh project once all the legal issues in NGT and other places are settled.

CMD, TANGEDCO 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.

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

(As on 31.05.2022)

S. No	State	Project Name / Impl. Agency/ EPC or BTG	LOA Date/ ordered date	Unit No	Cap. (MW)	Org. Comm. Sched.	Present Status/Remarks	Original Cost	Latest Cost (cr)	Exp. (cr)	Exp Till Date
CENTRAL SECTOR											
1	Rajasthan	Barsingar TPP ext/NLC/Reliance Infra/Chinese	Nov-16	U-1	250	May-20	Project put on hold due to withdrawal of PPA by DISCOM	2112.59	2112.59	158.25	Jan-21
2	Rajasthan	Bithnok TPP /NLC/Reliance Infra/ Chinese	Nov-16	U-1	250	May-20	Project put on hold due to withdrawal of PPA by DISCOM	2196.3	2196.3	173.82	Jan-21
TOTAL CENTRAL SECTOR [No. of Projects: 2, No. of Units: 2]					500						
STATE SECTOR											
1	TN	Ennore exp. SCTPP/ Tangedco/ BTG Lanco (DEC-CHINA)	May-14	U-1	660	Jan-18	Based on the directions of the review meeting of the energy department chaired by the Hon' Chief Minister on 22.07.2021, A high level committee was constituted by the CMD/TANGEDCO to re-examine the possibility of revival of the shelved project	4956	5421.38	791.4	Dec-17
TOTAL STATE SECTOR [No. of Projects: 1, No. of Units: 1]					660						
PRIVATE SECTOR											
1	AP	Bhavanapadu TPP Ph-I / East Coast Energy Ltd. / BTG DEC china	Sep-09	U-1	660	Oct-13	Liquidation Order date 22/04/2019 the Liquidator has partially sold the assets of the company on a standalone basis through e-auction	6571.94	9343.15	3785.6	Jan-16
			Sep-09	U-2	660	Mar-14					
2	AP	Thamminapatnam TPP stage –II / Meenakshi Energy Pvt. Ltd. SG-Cether vessels TG-Chinese	Dec-09	U-3	350	May-12	Admitted to NCLT on 07.11.2019 Resolution Plans have been received which are under consideration of Committee of Creditors ("CoC") and the outcome would be subject to the final decision of NCLT	5005	5414.4	5414.4	Feb-19
			Dec-09	U-4	350	Aug-12					
3	Bihar	Siriya TPP (Jas Infra. TPP) / JICPL BTG-DEC China	Mar-11	U-1	660	Aug-14	Liquidation Order date 17.07.2020 The liquidator is unable to sell, alienate, transfer or create third party encumbrance on the property of the Corporate Debtor owing to NCLAT Directions. Liquidator is awaiting further directions from NCLAT for completion of the Liquidation process.	11120	11120	NA	NA
			Mar-11	U-2	660	Dec-14					
			Mar-11	U-3	660	Apr-15					
			Mar-11	U-4	660	Aug-15					
4	Chhattisgarh	Akaltara TPP (Naiyara) / KSK Mahandi Power Company Ltd./ Boiler- SEPCO CHINA (Shanghai china) / TG- SEPCO (Dongfong china)	Apr-09	U-4	600	Apr-13	Admitted to NCLT on 03.01.2019 CIRP commenced on 3 rd October 2019 & currently under NCLT	16190	27080	18730	Dec-16
			Apr-09	U-5	600	Aug-13					
			Apr-09	U-6	600	Dec-13					
5	Chhattisgarh		Mar-11	U-3	300	Mar-14		5058	7940	3828	Jun-15

		Binjkote TPP/ SKS Power Generation (Chhattisgarh) Ltd. Boiler-Cethar Vessels /Turbine-Harbin China	Mar-11	U-4	300	Jun-14	Due to non-availability of Long – Term PPA'S , lenders are not sanctioning any fresh loans. Due to funds constraint developer is not in a position to implement balance 2*300 MW BTG at this point of time.				
6	Chhattisgarh	Lanco Amarkantak TPP-II/ LAP Pvt. Ltd. BTG-DEC china	Nov-09	U-3	660	Jan-12	Admitted to NCLT on 05.09.2019	6886	10815.24	9537.79	Dec-16
			Nov-09	U-4	660	Mar-12	Resolution Plan being considered				
7	Chhattisgarh	Singhitarai TPP / Athena Chhattisgarh Power Ltd. BTG –DEC china	Dec-09	U-1	600	Nov-14	Admitted to NCLT on 15.05.2019	6200	8443.79	6408.47	May-17
			Dec-09	U-2	600	Feb-15	The Liquidator is underprocess and making efforts for Sale as a going concern.				
8	Chhattisgarh	Salora TPP / Vandana Vidyut/ Boiler-Cether Vessles /TG Harbin China	Sep-09	U-2	135	Sep-11	Liquidation Order date 16.12.2019 The Liquidator is underprocess and making efforts for sale of the Thermal Power Plant.	1458.44	2386.89	2386.89	Mar-15
9	Chhattisgarh	Deveri (Visa) TPP / Visa Power Ltd. BTG-BHEL	Jun-10	U-1	600	Aug-13	Liquidation Order date 11.10.2018 The liquidator has started the process of liquidating the company by selling the assets of the Corporate Debtor on piecemeal basis.BHEL claims certain unpaid lien on the assets available at the site of the Corporate Debtor and in this regard matter is still pending before the Supreme Court of India.	2618.7	3930	2077.23	Nov-15
10	Jharkhand	Matrishri Usha TPP Ph-I / CorporatePower Ltd. EPC-BHEL	Dec-09	U-1	270	Apr-12	Admitted to NCLT on 19.02.2020	2900	3120	3120	Nov-12
			Dec-09	U-2	270	May-12	No compliant resolution plan were received, hence no resolution has been implemented. The liquidator may explore for sale of company as a going concern under the liquidation process after receipt of the liquidation order from the NCLT.				
11	Jharkhand	Matrishri Usha TPP Ph-II / CorporatePower Ltd. EPC-BHEL	Mar-11	U-3	270	Oct-12		3182	3182	2207	Sep-12
			Mar-11	U-4	270	Jan-13					
12	Jharkhand	Tori TPP Ph-I / Essar Power Ltd. BTG- Harbin China	Aug-08	U-1	600	Jul-12	Liquidation Order date 18.12.2019	5700	5700	4757.92	Jun-17
			Aug-08	U-2	600	Sep-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				
13	Jharkhand	Tori TPP Ph-II / Essar Power Ltd./ BTG- Harbin China	Feb-10	U-3	600	Dec-15		2500	2500	246.65	Mar-15
14	Maharashtra	Amravati TPP Ph-II / Ratan India Power Pvt. Ltd. BTG-BHEL	Oct-10	U-1	270	Jul-14	Company has decided to drop Phase II due to following reasons:	6646	6646	763.8	Mar-15
			Oct-10	U-2	270	Sep-14	a) no new Bids for Long Term PPAs have been coming up in the Market since the last 5 years.				
			Oct-10	U-3	270	Nov-14	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.				
			Oct-10	U-4	270	Jan-15	c) Central Electricity Authority has stated in the National Electricity Plan that “No coal based capacity addition is required under any scenario irrespective of RE capacity addition”. Due to aforesaid reasons and non-availability of New PPAs, Lenders were reluctant to release funds for further construction of Phase II; hence, construction of Phase II had been stalled indefinitely.				
			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	d) As per CEA small capacity plants are only for captive purpose and new capacity addition will be through super critical units only. Accordingly the entire contact awarded needs to be changed to super critical based technology of 660 MW and above and scrap the present capacity of 270 MW sub critical.				
			Nov-09	U-5	270	Dec-13					
16	Maharashtra	Lanco Vidarbha TPP / LVP Pvt. Ltd. EPC-LANCO/ Boiler- Dongfong China / Turbine- Harbin china	Nov-09	U-1	660	Jul-14	Liquidation Order date 30.06.2021	6936	10433	5338	Apr-17
			Nov-09	U-2	660	Nov-14	The Liquidator has initiated for E-Auction Sale as a going concern.				
17	Maharashtra	Bijora Ghanmukh TPP / Jinbhuvish Power Generation Pvt. Ltd. /BTG-CWPC, Chinese	Sep-11	U-1	300	Dec-16	Work held up due to financial constraints.	3189	3450	422.27	Mar-15
			Sep-11	U-2	300	Mar-17					
18	Maharashtra	Shirpur TPP ,Shirpur Power Pvt. Ltd./BTG-BHEL	Nov-11	U-2	150	Apr-15	Liquidation Order date 10.03.2021 7 th e-Auction of the company on Slump Sale basis is currently underway	2413	2413	2277.94	Apr-17
19	MP	Gorgi TPP / D.B. Power (MP) Ltd. BTG- BHEL	Mar-11	U-1	660	Jun-13	Work is on hold at site due to Financial crunch being faced by the developer. Given the current status of Thermal Power Industry, company is exploring alternate options	3941	3941	475.79	Sep-15
20	Odisha	Ind Barath TPP (Odisha) / Ind Barath/BTG-Cethar Vessels	May-09	U-2	350	Dec-11	Admitted to NCLT on 29.08.2018	3150	4254	4254	Apr-17
21	Odisha	KVK Nilanchal TPP/ KVK Nilanchal / BTG-Harbin China	Nov-09	U-1	350	Dec-11	Liquidation Order date 17.12.2020 The Liquidator has initiated for E-Auction Sale as a going concern.	4990	6000	1708.36	Mar-15
			Nov-09	U-2	350	Feb-12					
			Nov-09	U-3	350	Feb-12					
22	Odisha	Lanco Babandh TPP / LBP Ltd./ BTG- DEC Chinese	Nov-09	U-1	660	Apr-13	Liquidation Order date 27.11.2019 The Liquidator has partially sold the assets of the company on a standalone basis through e-auction	6930	10430	7615	Mar-17
			Nov-09	U-2	660	Aug-13					
23	Odisha	Malibrahmani TPP / MPCL/ BTG-BHEL	Jun-10	U-1	525	Dec-12	Liquidation Order date 23.10.2019	5093	6330	5329.75	Dec-14
			Jun-10	U-2	525	Feb-13					
24	TN	Tuticorin TPP (Ind- Barath) / IBPIL / BTG- Shangdong China	May-10	U-1	660	May-12	Liquidation Order date 22.04.2019 Stay on Liquidation Order	3595	3595	2000	May-15
25	WB	Hiranmaye Energy Ltd (India Power corporation (Haldia) TPP / Haldia Energy Ltd/ EPC- MEIL /BTG-BHEL.	Sep-10	U-3	150	May-16	Project is currently under hold	2656	3307	3263.05	Oct-17
TOTAL PRIVATE SECTOR [No. of Projects:25, No. of Units:52]					23205						
GRAND TOTAL [No. of Projects: 28, No. of Units: 55]					24365						

The details of the same may be seen in the Broad Status report for the month of Jan-21. https://cea.nic.in/wpcontent/uploads/thermal_broad/2021/01/broad_status.pdf

CENTRAL SECTOR
BARH STPP STAGE-I, 3x660 MW

As on 31.05.2022

Developer- NTPC	Zero Date: Mar'2005	Main Plant Vendor-Power Machines, Russia, M/s TPE, M/s DPSI	Original/Actual Trial Run UNIT-01	Feb'2010 / 30.10.21(A)
			Original/ Anticipated Trial Run UNIT-02	Dec'2010 / Dec'2022
			Original/ Anticipated Trial Run UNIT-03	Oct'2011/ Jul'2023
ADDRESS : -NTPC Barh Super Thermal Power Station, Barh, Distt – Patna, Bihar – 803215			E-GEN PORTAL: REGISTRATION STATUS-Yes U-1: 1200002610 U-2: 1200002611 U-3: 1200002612	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE		Coal, Indigenous, non-pit head	ORIGINAL ESTIMATED COST OF THE PROJECT	8693
COAL COMBUSTION TECHNOLOGY		Supercritical	LATEST ESTIMATED COST	21312.11
APPROVAL DATE/NOTICE TO		Feb-05	DATE OF FINANCIAL CLOSURE	21.02.2005
ZERO DATE:		TG: Power Machines, Russia on 14.03.2005. Boiler: Awarded to TPE on 14.03.2005, contract terminated on 14.01.2015; Balance work awarded to DPSI on 30.01.2016. Pressure Parts ordered partially (replacement of DI 59 coils) to GE Power on 15.01.2018.	EXP. DURING 2010-11	921.81
PPA		Bihar (incl. Home state share): 1025 MW, Jharkhand: 202 MW, Orissa: 418 MW, Sikkim: 38 MW and unallocated: 297MW.	EXP. DURING 2011-12	1,286.25
COAL LINKAGE/FSA		Letter of Assurance dtd. 18.11.2010 from CCL, securing 10 MMTPA coal for 03 Units. FSA of Unit-1 (3.333 MMTPA) already signed with CCL(all operative mines, G8-G10) as per MOC PD dtd. 17.07.2013 FSA of Unit-2 & 3 to be signed after commissioning in terms of para 1A(i)of SHAKTI-2017 policy.	EXP. DURING 2012-13	1,384.43
START UP POWER AGREEMENT		Done with PGCIL on 27.01.2020 for 400kV D/C LILO of Kahalgaon- Patna, Barh-Patna & Barh-Gorakhpur lines	EXP. DURING 2013-14	1,581.22
POWER EVACUATION SYSTEM		400kV D/C LILO of Kahalgaon-Patna, Barh-Patna & Barh-Gorakhpur D/c lines (incl. stage 2)	EXP. DURING 2014-15	568.49
LAND POSSESSION		Required – 3212 Acres, Under Possession – 3212 Acres	EXP. DURING 2015-16	1143.46
WATER ALLOCATION		100 Cusec from River Ganges	EXP. DURING 2016-17	1410.21
MOEF CLEARANCE		11.09.2001	EXP. DURING 2017-18	1389.43
CIVIL AVIATION CLEARANCE		09.08.2004	EXP. DURING 2018-19	1453.89
CPCB CLEARANCE		Not Applicable	EXP. DURING 2019-20	1502.47
SPCB CLEARANCE		Consent to Operate (Emission & Discharge) Granted by SPCB on 04.07.2017, Fior Unit#1, and is Valid upto 30.09.2021	EXP. DURING 2020-21	1123.15
			EXP. DURING 2021-22	1185
FOREST CLEARANCE		Not Applicable	EXP. OF May'22	73
			Total Exp upto 31.05.22	19929

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL/ANTICIPATED)								MAIN PLANT PACKAGE (BTG VENDOR):Boiler DPSI, TG Power Machine Russia					
Sl.	MILESTONE	UNIT-01		UNIT-02		UNIT-03		Sl.	Packages	AREA	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage Completion)	UNIT-03 (Percentage Completion)
		Original Date of Completion	Actual/Anticipated Date of Completion	Original Date of Completion	Actual/Anticipated Dateof Completion	Original Date of Completion	Actual/Anticipated DateofCompletion						
								1	BOILER	CIVIL STRUCTURE PRESSUREPARTS	100%	95% 90% 98%	94% 65% 84%
1	COMPLETION OF BOILER FOUNDATION	Complete						2	TG	CIVIL STRUCTURE TG ERECTION	100%	100% 100% 86%	95% 97% 66%
2	START OF BOILER ERECTION	May'2006	Mar'2011(A)	Mar'2007	Jul'2011(A)	Jan'2008	Jan'2012(A)	3	ESP	UNDER PROGRESS	100%	95%	95%
								4	FGD	CIVIL WORK MATERIAL SUPPLY ERECTION WORK	22% 23% Absorber erection started	12% 23% Yet to start	13% 18% Yet to start
3	BOILER DRUM LIFTING	N/A											
4	BOILER CEILING GIRDER LIFTING COMPLETION	Complete						STATUS OF BOPs					
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	Dec'2007	Feb'2013(A)	Oct'2008	Jan'2021(A)	Aug'2009	Jun'2022	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC- BHEL)	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage Completion)	UNIT-03 (Percentage Completion)
6	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	-	Feb'2013(A)	-	Jan'2021(A)	-	Jun'2022	1	Chimney	NBCC	100%		
7	BOILER LIGHT UP	Aug'2008	Aug'2019(A)	Jun'2009	May'2022 (A)	Apr'2010	Nov'2022	2	Coal Handling Plant	L&T (Conveyor package)	86%		
8	CHEMICAL CLEANING									L&T (Wagon Tripler)	100%		
9	STEAM BLOWING START									L&T(Stacker Reclaimer)	100%		
10	STEAM BLOWING COMPLETION	Jan'2009	Jan'2020(A)	Nov'2009	Jul'2022	Sep'2010	Mar'2023	3	Ash Handling Plant	Melco	70%		
11	HP PIPING ERECTION START							4	Fuel Oil System	Techno	100%		
12	HP PIPING ERECTION							5	Cooling Towers	Paharpur	100%	95%	
13	CONDENSER ERECTION START	Jun'2007	Nov'2008(A)	Apr'2008	Jan'2009(A)	Feb'2009	Nov'2013(A)	6	CW Pump house & Piping	KBL	100%	95%	
14	TG ERECTION START	Aug'2007	Aug'2011(A)	Jun'2008	Sep'2011(A)	Apr'2009	Mar'2012(A)	7	PT Plant	SPML	100%	80%	
15	TG BOX UP	Aug'2008	Dec'2013(A)	Jun'2009	Jan'2015(A)	Apr'2010	Jul'2022	8	DM Plant	Driplex	100%		
16	START OF OILFLUSHING							9	Air Compressor	Power Machines	90%		
17	ROLLING & SYNC.	Mar'2009	27.09.20(A)	Jan'2010	Sept'2022	Nov'2010	May'2023	10	Fire Protection System	Minimax	76%		
18	FULL LOAD	-	24.04.21(A)	-	Nov2022	-	Jun'2023	11	Switch Yard	BHEL	100%		
19	TRIAL RUN	Feb'2010	30.10.21(A)	Dec'2010	Dec'2022	Oct'2011	Jul'2023	12	StationTransformers	ABB	100%	95%	
20	COD		12.11.21(A)					13	Unit Transformers	TRIL/BHEL/Kanohar	100%	95%	
21	PG TEST START AND COMPLETION							14	Railwaysiding	RITES	100%		
								15	Power Evacuation	PGCIL	100%		

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.
- Delay due to land acquisition / physical possession in past.
- Law & Order issues in past. 7. Shortage of aggregate in Year 2010 as Govt. of Bihar banned stone quarry mines to protect the environment under Bihar minor mineral concession. 8. Bihar Govt. Vide order dated 09.02.2016 ban all the sand mining from the riverbed without environmental clearance led to shortage of sand for some period. 9. Abnormal Heavy Rain Fall in Year 2007, 2008, 2011, 2014 & 2016 in Monsoon period.

CRITICAL AREAS:

- DPSI has expressed inability in supply of balance main equipments as well as mandatory spares of SG Pkg ordered by them on TKZ, Russia due to risk of secondary sanctions affecting the progress of work. Process of modality for award directly by NTPC in progress.
- Readiness of railway line Hazaribagh-Koderma-Tilaiya-Rajgir-Bakhtiyarpur route (250km) is required to ease the coal transportation and enable requisite quantity of coal transportation for Barh Project

CENTRAL SECTOR
NORTH KARANPURA TPP (3x660 MW)

As on 31.05.2022

Developer- NTPC	Zero Date: 28.02.2014	Main Plant Vendor-BHEL (EPC)	Original/ Anticipated Trial Run UNIT-01	Jun'2018 /Aug'2022
			Original/ Anticipated Trial Run UNIT-02	Dec'2018 / May'2023
			Original/ Anticipated Trial Run UNIT-03	Jun'2019 /Jan '2024
ADDRESS : -NTPC North Karanpura, Tandwa, Sub division – Simaria, Distt–Chatra – Jharkhand-825321			E-GEN PORTAL: REGISTRATION STATUS- YES, 1200002378, 1200002379, 1200002380	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Coal, Pithead		ORIGINAL ESTIMATED COST OF THE PROJECT	14367
COAL COMBUSTION TECHNOLOGY	Supercritical		LATEST ESTIMATED COST	15389.42
APPROVAL DATE/NOTICE TO	Feb-14		DATE OF FINANCIAL CLOSURE	28.01.2014
ZERO DATE:	BTG (EPC) – BHEL – 28.02.14		EXP. DURING 2010-11	8.17
PPA	Jharkhand: 500; Odisha: 396; Bihar: 688; WB: 99; Unallocated: 297. All in MW.		EXP. DURING 2011-12	4.88
COAL LINKAGE/FSA	Letter of Assurance dtd. 24.03.2015 from CCL, securing 7.039 MMTPA coal (G7-G11) for 03 Units.FSA to be signed after commissioning in terms of para 1A(i)of SHAKTI-2017 policy.		EXP. DURING 2012-13	5.75
START UP POWER AGREEMENT	Through ATS – 400 KV NK Chandwa line. Line is under construction. Agreement yet to be done.		EXP. DURING 2013-14	1,362.18
POWER EVACUATION SYSTEM	2 No D/C lines to Chandwa (jharkhand pool) and Gaya		EXP. DURING 2014-15	527.92
LAND POSSESSION	Required – 2364 Acres. Under Possession – 2002 Acres.		EXP. DURING 2015-16	615.73
WATER ALLOCATION	20 Cusec from Garhi River – Raw water drawl agreement signed with DVC on 18.09.2020.		EXP. DURING 2016-17	2199.92
MOEF CLEARANCE	29.11.2004		EXP. DURING 2017-18	2044.46
CIVIL AVIATION CLEARANCE	13.02.2009		EXP. DURING 2018-19	1747.91
CPCB CLEARANCE	Not Applicable		EXP. DURING 2019-20	1762.62
SPCB CLEARANCE	Available. 31.12.01 for Bihar. 11.12.14 for Jharkhand	EXP. DURING 2020-21	1243.28	
		EXP. DURING 2021-22	1051	
FOREST CLEARANCE	03.11.2015	EXP. OF May'22	64	
		TOTAL EXPENDITURE (Up to 31.05.2022)	12846	

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)								MAIN PLANT PACKAGE (BTG VENDOR): BHEL					
Sl.	MILESTONE	UNIT-01		UNIT-02		UNIT-03		Sl.	Packages	AREA	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage Completion)	UNIT-03 (Percentage Completion)
		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	BOILER	CIVIL STRUCTURE PRESSURE PARTS	98% 99% 100%	94% 86% 99%	78% 61% 32%
1	COMPLETION OF BOILER FOUNDATION	Complete						2	TG	CIVIL STRUCTURE PRESSURE PARTS	97% 99% Not provided	98% 99% Not provided	94% 93% Not provided
2	START OF BOILER ERECTION	Aug'2015	Apr'2016(A)	Feb'2016	Jul'2016(A)	Aug'2016	Jun'2017(A)	3	ESP	PASS STATUS	99%	94%	56%
3	BOILER DRUM LIFTING	N/A						4	FGD	CIVIL WORK MATERIAL SUPPLY ERECTION WORKS	28% 17% 7%	28% 31%	28% 8%
4	BOILER CEILING GIRDER LIFTING COMPLETION	Complete						STATUS OF BOPS					
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	Jan'2017	Dec'2018(A)	Jul'2017	Oct'2019(A)	Jan'2018	Nov'2022	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC-BHEL)	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage Completion)	UNIT-03 (Percentage Completion)
6	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	-	Jan'2019(A)	-	Oct'2019(A)	-	Nov'2022	1	Chimney	M/s BHEL	99%	82%	95%
7	BOILER LIGHT UP	Aug'2017	Dec'2020(A)	Feb'2018	Nov'2022	Aug'2018	May'2023	2	Coal Handling Plant	M/s BHEL (Conveyor package)	71% ERECTION, 41% EQUIPMENT ERECTION		
8	CHEMICAL CLEANING									M/s BHEL (Wagon Tripler)	NA		
9	STEAM BLOWING START									M/s BHEL(Stacker Reclaimer)	48%		
10	STEAM BLOWING COMPLETION	Oct'2017	Feb'2021(A)	Apr'18	Jan'2023	Oct'2018	Jul'2023	3	Ash Handling Plant	M/s BHEL	68%		
11	HP PIPING ERECTION START							4	Fuel Oil System	M/s BHEL	100%		
12	HP PIPING ERECTION							5	Cooling Towers	M/s BHEL	92%		
13	CONDENSER ERECTION START	May'2016	Nov 2018(A)	Nov'2016	Jan'2020(A)	May'2017	May'2022	6	CW Pump house & Piping	M/s BHEL	Not Applicable		
14	TG ERECTION START	Jul'16	Nov'2017(A)	Jan'2017	Jan'2018(A)	Jul'2017	May'2022	7	PT Plant	M/s BHEL	78%		
15	TG BOX UP	Jun'2017	Aug'2019(A)	Dec'2017	Jan'2022(A)	Jun'2018	Dec'2022	8	DM Plant	M/s BHEL	100%		
16	START OF OIL FLUSHING							9	Air Compressor	M/s BHEL	100%		
17	ROLLING & SYNC.	Dec'2017	Jul 2022	Jun'2018	May'2023	Dec'2018	Dec'2023	10	Fire Protection System	M/s BHEL	100%		
18	FULL LOAD	Feb'2018	Jul'2022	Aug'2018	May'2023	Feb'2019	Jan'2024	11	Switch Yard	BHEL-TBG/ Arun Construction Technico India Pvt. Ltd.	99%		
19	TRIAL RUN	Jun'2018	Aug 2022	Dec'2018	May'2023	Jun'2019	Jan'2024	12	Station Transformers	M/s BHEL	100%		
20	COD							13	Unit Transformers	M/s BHEL	85%		
21	PG TEST START AND COMPLETION							14	Railway siding	Main vendor/ subcontractor	NA		
								15	Power Evacuation	Awarded on TBCB to NKTL	83%		

REASONS OF DELAY:

1. Main plant layout was changed to avoid GM land which Govt. was not in position to handover due to encroachments. | 2. Delay in Award of Critical Packages by BHEL. Air Cooled Condenser (ACC) Mechanical Package awarded in Mar'17 with a delay of 31months; ACC civil package was awarded in May'17 with a delay of 27 months. | 3. Delay due to slow work progress by EPC agency (M/s BHEL). | 4. Delay in acquisition of land. Approx. 30 acres of land is still balance for physical possession for Reservoir and Ash Dyke. It may further delay the commissioning of the project (another 101 Acre land is under litigation in Hon'ble HC, Ranchi). | 5. Additionally, 60 acres of Land is required for external CHP, under acquisition thru' CCL. | 6 Agitation by villagers for demand of additional compensation against already acquired land (about 2200 Acres). Project Work was completely stopped by the agitators, for about 40 days during Feb-March'2021.

CRITICAL AREAS:

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

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

As on 31.05.2022

Developer- NTPC	Zero Date: 05.02.2016	Main Plant Vendor-M/S BHEL & M/s GE	Original/ Anticipated Trial Run UNIT-01	May'2020/ Aug'2022
			Original/ Anticipated Trial Run UNIT-02	Nov'2020/ Feb'2023
ADDRESS : - NTPC Telangana, PO Ramagundam (Sub Office), Karim Nagar, Telangana:- 505208			E-GEN PORTAL: REGISTRATION STATUS- YES Reg No. 1200001966, 1200001967	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Coal, Indigenous, Non- pit head		ORIGINAL ESTIMATED COST OF THE PROJECT	10599
COAL COMBUSTION TECHNOLOGY	Ultra-supercritical		LATEST ESTIMATED COST	10997.7
APPROVAL DATE/NOTICE TO PROCEED (NTP)	Jan-16		DATE OF FINANCIAL CLOSURE	29.01.2016
ZERO DATE:	SG Island – BHEL – 05.02.16; TG Island – GE – 05.02.16		EXP. DURING 2015-16	6.34
PPA	1360 MW power has been allocated to Telangana. Balance 240 MW is unallocated.		EXP. DURING 2016-17	798.21
COAL LINKAGE/FSA	Linked with Mandakini-B captive coal mine (PRC-20 MMTPA); however, NTPC has approached MOC on 26.12.2020 for surrendering the coal mine. Tapering linkage against the linked coal mine was initially allocated from WCL cost-plus. In July'2020, the linkage has been shifted to SCCL. Coal quantity quantified by the Coal Controller is 6.846 MMTPA.		EXP. DURING 2017-18	1062.65
START UP POWER AGREEMENT	Start up Power has been granted for Telangana STPP by SRLDC on 26-6-20 through RSTPS-TeSTPP 400KV DC line		EXP. DURING 2018-19	2535.67
POWER EVACUATION SYSTEM	400kVD/C line to Nedunuru and Narsapur .		EXP. DURING 2019-20	2599.45
LAND POSSESSION	Being accommodated within the land possessioned with NTPC Ramagundam project. No new land acquired for the project.		EXP. DURING 2020-21	1308.35
			EXP. DURING 2021-22	828
WATER ALLOCATION	60 cusecs from Yellampally Barrage on Godavari river		EXP. OF May'22	65
MOEF CLEARANCE	20.01.2016, Valid upto 19.01.2024		TOTAL EXPENDITURE (UPTO 31.05.2022)	9286
CIVIL AVIATION CLEARANCE	29.03.2011			
CPCB CLEARANCE	Not Applicable			
SPCB CLEARANCE	Extension for Stg-1 approved by TSPCB up to 19-01-23			
FOREST CLEARANCE	Not Applicable			

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)						MAIN PLANT PACKAGE (BTG VENDOR):SG –BHEL, TG- GE				
Sl.	MILESTONE	UNIT-01		UNIT-02		Sl.	Packages	AREA	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage Completion)
		Original Date of Completion	Actual/Anticipated Date of Completion	Original Date of Completion	Actual/Anticipated Date of Completion					
						1	BOILER	CIVIL STRUCTURE PRESSURE PARTS	92% 91% 94%	86% 82% 85%
1	COMPLETION OF BOILER FOUNDATION	Completed				2	TG	CIVIL STRUCTURE TG Erection Work	97% 99% 99%	98% 99% 99%
2	START OF BOILER ERECTION	Mar'2017	Dec'2017(A)	Sep'2017	Decc'2017(A)	3	ESP	UNDER PROGRESS	95%	92%
3	BOILER DRUM LIFTING	Not Applicable				4	FGD	CIVILWORK MATERIAL SUPPLY ERECTION WORK	95% 100% 86%	92% 100% 74%
4	BOILER CEILING GIRDER LIFTING COMPLETION	Completed				STATUS OF BOPs				
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	Nov'2018	Nov'2021(A)	May'2019	Apr'2022	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC-BHEL)	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage Completion)
6	BOILER HYDRO TEST (NON- DRAINABLE) COMPLETION	-	-	-	May'2022	1	Chimney	BHEL	74%	
7	BOILER LIGHT UP	Jun'2019	May'2022	Dec'2019	Sept'2022	2	Coal Handling Plant	TATA Projects	89%	
8	CHEMICAL CLEANING									
9	STEAM BLOWING START	-	May'2022	-	Oct'2022					
10	STEAM BLOWING COMPLETION	Sep'2019	Jun'2022	Mar'2020	Nov'2022	3	Ash Handling Plant	BHEL	66%	
11	HP PIPING ERECTION START		-		-	4	Fuel Oil System	TATA Projects	98%	
12	HP PIPING ERECTION COMPLETION		-		-	5	Cooling Towers	TATA Projects	74%	
13	CONDENSER ERECTION START	Feb'2018	Jul'2018 (A)	Aug'2018	Feb 2019(A)	6	CW Pump house & Piping	TATA Projects	95%	
14	TG ERECTION START	May'2018	Aug'2018(A)	Nov'2018	Mar'2019(A)	7	PT Plant	TATA Projects	100%	
15	TG BOX UP	Apr'2019	Sep'2019(A)	Oct'2018	May'2020(A)	8	DM Plant	TATA Projects	100%	
16	START OF OIL FLUSHING	Completed		-		9	Air Compressor	TATA Projects	-	
17	ROLLING & SYNC.	Nov'2019	Aug'2022	May'2020	Dec'2022	10	Fire Protection System	TATA Projects	74%	
18	FULL LOAD	Jan'2020	Aug'2022	Jul'2020	Jan'2023	11	Switch Yard	TATA Projects	99%	
19	TRIAL RUN	May'2020	Aug'2022	Nov'2020	Feb'2023	12	Station Transformers	TATA Projects	79%	
20	COD					13	Unit Transformers	TATA Projects	81%	
21	PG TEST START AND COMPLETION					14	Railway siding	TATA Projects	33%	
						15	Power Evacuation	Being done by Telangana Transco	92%	

Reasons for Delay:

1. Delay in boiler design due to new D-nox and D- sox norms (new environment norms scheme came after opening of price bid and were incorporated in the contract). Accordingly there was delay in completion of basic engineering and supply of boilers/TG structures.
2. Slow progress by BHEL sub-agency M/s B&R.
3. Delay in sand supply/procurement at site due to restrictions by state government of Telangana
4. Delay due to ongoing COVID-19 pandemic since March 20. No availability of industrial oxygen during second wave

CRITICAL AREAS:

1. Boiler non drainable joints to be completed for Boiler HT in Unit#1 by Jun'21. Slow progress of sub-agencies is delaying Boiler readiness.
2. CHP, LHP and GHP readiness is critical.
3. Poor site mobilization and delayed supplies by BHEL is hampering site work progress

CENTRAL SECTOR
PATRATU TPS (3X800 MW)

As on 31.05.2022

Developer- PVUNL (JV of NTPC & Govt. of Jharkhand)	Zero Date: Mar'18	Main Plant Vendor-M/S BHEL (EPC-08.03.18)	Original/ Anticipated Trial Run UNIT-01	Jan'22/Mar'24
			Original/ Anticipated Trial Run UNIT-02	July'22/Sept'24
			Original/ Anticipated Trial Run UNIT-03	Jan'23/Mar'25
ADDRESS : - Patratu Vidyut Utpadan Nigam Limited, Patratu, PO: PTPS, Patratu, Distt. Ramgarh, Jharkhand , PIN – 829119			E-GEN PORTAL: REGISTRATION STATUS- YES Reg No. 1200002399, 1200002400, 1200002401	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Coal, Pithead		ORIGINAL ESTIMATED COST OF THE PROJECT	17112
COAL COMBUSTION TECHNOLOGY	Ultra Supercritical		LATEST ESTIMATED COST	Rs 18668 Crs including IDC, FC & WCM
APPROVAL DATE/NOTICE TO PROCEED (NTP)	Investment Approval accorded in 11 th Board Meeting of PVUNL, dated 30.10.2017 subject to MOEF clearance. MOEF clearance letter received on 07.11.17. Zero date of the project is 07.11.17 as per investment approval accorded		DATE OF FINANCIAL CLOSURE	NP
ZERO DATE:	EPC package awarded to BHEL on 08.03.18.		EXP. DURING 2015-16	
PPA	85% allocated to Jharkhand, PPA signed on 30.03.16. 15% of power will remain as unallocated quota at the disposal of Gol		EXP. DURING 2016-17	
COAL LINKAGE/FSA	12 MTPA for Ph-I from Banhardih Coal Mine at a distance of about 110 km. Banhardi Coal Mine transferred to PVUNL vide deed of adherence signed on 02.06.17. Bridge linkage granted. Allocation date ,sources, grade and quantity .Grade of Coal – G-11/12		EXP. UPTO 2017-18	992.11
START UP POWER AGREEMENT	Through 7.5 kms Transmission line: Patratu-Patratu (Main Plant to Katia Substation) D/C Line		EXP. DURING 2018-19	601.86
POWER EVACUATION SYSTEM	Power evacuation voltage is envisaged at 400 kV through: Upcoming Patratu sub station (7.5 KM), Koderma Sub station (160 KM), New Chandil station (150 Km). One 400 KV ISTS also envisaged for connection with nearby ISTS substation at Ranchi/ Namkum (Jharkhand)		EXP. DURING 2019-20	695.09
LAND POSSESSION	Total land identified for Ph-I is 1234 acres. 1199.03 acres land transferred to PVUNL by Govt of Jharkhand vide sankalp dt 08.09.17. 34.97 Acres of Private/Raiyati land lying in midst of Ash-dyke-II, the transfer is under process. Correction of 268.92 acres of land in the records of forest dept in favour of PVUNL and also change of nature of land as non forest land for industrial purpose(pending)		EXP. DURING 2020-21	1228.66
			EXP. DURING 2021-22	1846.48
WATER ALLOCATION	Project is envisaged with Air cooled Condenser Technology. In principle commitment for 27 cusecs water available from Nalkari Dam Reservoir vide agreement dt 25.01.2016 with GoJ.		EXP. OF May'22	145.97
MOEF CLEARANCE	MOEF Clearance: EAC recommended for grant of EC for the project on EAC meeting held on 25.09.17. EC letter received on 07.11.17. Validity till 06.11.24.		TOTAL EXPENDITURE (UPTO 31.05.22)	5570.20
CIVIL AVIATION CLEARANCE	Civil Aviation Clearance: Received on 03.06.2016.			
CPCB CLEARANCE	CPCB Clearance: Not Applicable			
SPCB CLEARANCE	SPCB Clearance: CTE received on 19.10.2018. Validity till 06.11.24.			
FOREST CLEARANCE	No forest land in the main plant area.			

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)								MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL					
Sl.	MILESTONE	UNIT-01		UNIT-02		UNIT-03		Sl.	Packages	AREA	UNIT-01	UNIT-02	UNIT-03
		Original Date of Completion	Actual/Anticipated Date of Completion	Original Date of Completion	Actual/Anticipated Date of Completion	Original Date of Completion	Actual/Anticipated Date of Completion				(Percentage Completion)	(Percentage Completion)	(Percentage Completion)
								1	BOILER	CIVIL STRUCTURE PRESSURE PARTS	76.6% 62.6% 47.7%	74.1% 64.1% 34.6%	64.4% 51.6% 11.9%
1	COMPLETION OF BOILER FOUNDATION	May'19	30.04.19 (A)	Nov'19	28.12.19 (A)	May'20	20.01.21 (A)	2	TG	CIVIL STRUCTURE PRESSURE PARTS	59.7% 75.5%	47.4% 14.1%	31.6%
2	START OF BOILER ERECTION	May'19	27.08.19 (A)	Nov'19	30.12.19 (A)	May'20	22.01.21 (A)	3	ESP	UNDER PROGRESS	52%	58.9%	31.4%
3	BOILER DRUM LIFTING	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	4	FGD		80% RCC work completed	56% RCC work completed	42% RCC work completed
4	BOILER CEILING GIRDER LIFTING COMPLETION	Feb'20	25.03.21 (A)	Aug'20	30.05.21 (A)	Feb'21	27.01.22(A)	STATUS OF BOPs (BHEL-EPC)					
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	Jan'21	Nov '22	July'21	Jan'23	Jan'22	Jul'23	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC- BHEL)	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage Completion)	UNIT-03 (Percentage Completion)
6	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	June'21	Apr'23	Dec'21	Jun'23	June'22	Dec'23	1	Chimney	PSWR	RCC complete	79.1% RCC complete	51.2% RCC complete
7	BOILER LIGHT UP	June'21	Jul'23	Dec'21	Sep'23	June'22	May'24	2	Coal Handling Plant	PSWR	40.3% RCC complete		
8	CHEMICAL CLEANING	July'21	Aug'23	Jan'22	Oct'23	July'22	Jun'24						
9	STEAM BLOWING START	July'21	Aug'23	Jan'22	Dec'23	Aug'22	Jun'24						
10	STEAM BLOWING COMPLETION	Sept'21	Oct'23	Mar'22	Feb'24	Oct'23	Aug'24	3	Ash Handling Plant	PSWR	50.2% RCC complete		
11	HP PIPING ERECTION START	July'20	Aug'22	Jan'21	Dec'22	Jan'23	Jun'23	4	Fuel Oil System		36.3% civil works		
12	HP PIPING ERECTION COMPLETION	May'21	Jun'23	Nov'21	Oct'23	Dec'23	Apr'24	5	Cooling Towers	ACC is envisaged. ACC Package yet to be awarded by BHEL.	33.88% RCC complete		
13	CONDENSER ERECTION START	Feb'20	Jan'23	Aug'20	Jul'23	Feb'21	Jan'24	6	CW Pump house Piping	ACC is envisaged. ACC Package yet to be awarded by BHEL.			
14	TG ERECTION START	June'20	30.03.22(A)	Dec'20	Jul'22	June'21	Dec'22	7	PT Plant	PSWR	15.00% RCC complete		
15	TG BOX UP	May'21	Jun'23	Nov'21	Oct'23	May'22	Apr'24	8	DM Plant	PSWR	civil work i/p.		
16	START OF OIL FLUSHING	July'21	May'23	Jan'22	Sept'23	July'22	Mar'24	9	Air Compressor	PSWR	58% civil works		
17	ROLLING & SYNC.	Nov'21	Jan'24	May'22	Apr'24	Nov'22	Oct'24	10	Fire Protection Sys.	PESD, Hyderabad			
18	FULL LOAD	Dec'21	Feb'24	June'22	Jun'24	Dec'22	Dec'24	11	Switch Yard	TBG	Work yet to start		
19	TRIAL RUN	Jan'22	Feb'24	July'22	Aug'24	Jan'23	Feb'25	12	Station Transformer	Bhopal	Work yet to start		
20	COD	March'22	Mar'24	Sept'22	Sept'24	March'23	Mar'25	13	Unit Transformers	Jhansi	Award of sub pkg yet to be done		
21	PG TEST START AND COMPLETION	NP	NP	NP		NP		14	Railway siding	PMC Contractor-M/s RITES	Work yet to start		
								15	Power Evacuation	To be constructed by JUSNL after approval from GoJ,			

REASONS OF DELAY:

1. Delay in supply of Boiler structure, main plant house structure, inserts for TG by BHEL
2. Delay in award of ACC contract by BHEL
3. Reaward of Ash handling package. BHEL has terminated the AH package earlier awarded to M/s L&T. retender NIT done on 23.01.21
4. Award of startup power line and balance 2 State transmission utility line by GoJ.
5. Poor performance of few sub agencies of BHEL

CRITICAL AREA/ ASSISTANCE REQUIRED:

1. Delay in award of Air Cooler Condenser (ACC) Mech Pkg by BHEL. Purchase order placed on 17.02.22. Balance supplies beyond the scope of ACC Mech agencies yet to be tendered.
2. CHP package: Slow work of CHP in civil fronts. Commercial issues between BHEL & sub-agencies are affecting the supplies
3. **Award of Start-up power line and balance 02 STU lines by GoJ:** up powerline i.e., Patratu- Patratu (Main Plant to Katia Substation) D/C Line (7.5 Kms)- Proposal Approved. NIT done on 09.04.2021 by JUSNL. Bid opened on 17.06.21. Cabinet approval for award of line work received on 10.02.2022 but agency decline to accept the offer. JUSNL has retendered the work on 05.03.2022. BOD on 13.04.22. Award and execution is critical to ensure timely availability of Startup Power for U#1 Boiler Hydro test. Patratu STPP- Koderma (JUSNL) 400kV D/C line (160 km): Erection of these lines is to be done by JUSNL under state funding. Investment approval received on 10.02.22. NIT done on 05.03.2022. Work is to be executed by JUSNL. BOD on 13.04.22. Patratu STPP- Chandil (JUSNL) 400kV D/C line are (150 km): Erection of these lines are to be done by JUSNL under state funding. Investment approval received on 10.02.22. NIT done on 05.03.2022. Work is to be executed by JUSNL. BOD on 13.04.22. The above two lines are critical for evacuation of Power.

CENTRAL SECTOR
GHATAMPUR THERMAL POWER PROJECT (3 X 660 MW)

As on 31.05.2022

D Developer- NUPPL(JV of NLC and UPRVUNL)	Zero Date: Aug'2016	Main Plant Vendor-M/s L&T & M/s GE (BTG)	Original/ Anticipated Trial Run UNIT-01	29.05.2020 / Mar' 2023
			Original/ Anticipated Trial Run UNIT-02	27.11.2020/Jul' 2023
			Original/ Anticipated Trial Run UNIT-03	29.05.2021 / Nov' 2023
ADDRESS : -NEAR VILLAGE LAHURIMAU-KASIMPUR, GHATAMPUR TEHSIL, P.O.: SAMUHI-209206, KANPUR NAGAR DISTRICT, UTTAR PRADESH			E-GEN PORTAL: REGISTRATION STATUS- YES, Reg no.Unit-1 1200002439, Unit-2: Reg no. 1200002440, Unit-3: Reg no. 1200002441	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Coal, Indigenous		ORIGINAL ESTIMATED COST OF THE PROJECT	17237.8
COAL COMBUSTION TECHNOLOGY	Supercritical		LATEST ESTIMATED COST	As on date project sanctioned cost is not revised.
APPROVAL DATE/NOTICE TO PROCEED (NTP)	GoI Sanction - 27.07.2016		DATE OF FINANCIAL CLOSURE	Rs. 1000 crore pending and balance of Rs 11067 Crore tied up with PFC and REC in 2018
ZERO DATE:	EPC Contractor Details: Steam Generator Package (GA1)- L&T- MHI Power Boilers Pvt. Ltd/ LoA Date-02-08-2016 2. Steam Turbine Generator 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		EXP. DURING 2016-17	927.76
PPA	75% PPA Signed with Uttar Pradesh Power Corporation Ltd.(UPPCL).Signing of balance 25% PPA is balance.		EXP. DURING 2017-18	1,228.45
COAL LINKAGE/FSA	Allocation Date- 03.10.2016. 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 funtional by the end of Financial Year 2026-27 and will be able to meet thecoal requirement of NUPPL. Hence, NUPPL is seeking coal under bridge linkage by the time Pachwara South Coal Block will be fully functional.		EXP. DURING 2018-19	3,517.83
START UP POWER AGREEMENT	There are four incoming lines for 132KV 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).		EXP. DURING 2019-20	3,525.17
POWER EVACUATION SYSTEM	Power Evacuation from 1st Unit of 3X660MW Plant is through “ 765KV, Single Circuit, Ghatampur-Agra Transmission line" (GATL). GATL line is made ready by GTL and is presently anti-theft charged upto dead end tower near our plant boundary. 765KV, Single Circuit, Ghatampur Hapur Line is also 98% ready and is expected to be duly available during synchronization of 1st Unit. 1st circuit of 400KV Double Circuit, Ghatampur-Kanpur Transmission line is also completed by GTL and is available for power evacuation. However, at NUPPL end, 765KV switchyard readiness shall be prior to 400KV switchyard. So, power evacuation is likely to happen through 765KV Agra and Hapur Lines at starting.		EXP. DURING 2020-21	2260.09
			EXP. DURING 2021-22	1901.77
LAND POSSESSION	Total Pocket land 52.33Ha required. 4.8510 Ha land is under acquisition process. Further, Railway siding land required 181.2663Ha,out of which acquisition of 14.391 Ha land is under process.		EXP. OF May'2022	238.23
WATER ALLOCATION	80 cusec from UP Irrigation department (44.6 km from GTPP)		TOTAL EXPENDITURE (UPTO 31.05.22)	13599.30
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 (If any):- 5 Years, NUPPL had sent compliance to AAI regarding the NoC condition, AAI Reply is awaited.			
CPCB CLEARANCE	NOT APPLICABLE			
SPCB CLEARANCE	Clearance obtained date from concerned authority:- 17.11.2017 validity of it (If any).- 5 Years			
FOREST CLEARANCE	NOT APPLICABLE			

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)								MAIN PLANT PACKAGE (BTG VENDOR):SG -L&T MHI , TG- GE					
Sl.	MILESTONE	UNIT-01		UNIT-02		UNIT-03		Sl.	Packages	AREA	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage Completion)	UNIT-03 (Percentage Completion)
		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	BOILER	CIVIL STRUCTURE PRESSURE PARTS	83.21% 96.54% 100.00%	83.81% 83.30% 100.00%	87.18% 75.59% 100.00%
1	COMPLETION OF BOILER FOUNDATION	01-01-2017	31-8-2020 (A)	01-07-2017	21-10-2020 (A)	28-12-2017	29-01-2021 (A)	2	TG	CIVIL STRUCTURE	97.12% 100.00%	96.02% 99.54%	91.77% 94.92%
2	START OF BOILER ERECTION	01-09-2017	27-02-2018 (A)	01-03-2018	30-06-2018 (A)	28-08-2018	04-12-2018 (A)	3	ESP	UNDER PROGRESS	94.92%	96.10%	57.32%
3	BOILER DRUM LIFTING	NA	NA	NA	NA	NA	-	4	FGD	The board in 63 rd meeting has decided to cancel the present tender of FGD and go for retender. Contract Yet to be awarded.			
4	BOILER CEILING GIRDER LIFTING COMPLETION	01-05-2018	25-11-2018 (A)	01-11-2018	04-04-2019 (A)	01-05-2019	12-09-2019 (A)	STATUS OF BOPs					
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	NA	NA	NA	NA	NA	NA	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC-BHEL)	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage Completion)	UNIT-03 (Percentage Completion)
6	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	01-05-2019	06-01-2021 (A)	01-11-2019	24-02-2021 (A)	01-05-2020	29-08-2021(A)	1	Chimney	BGR Energy System Ltd.	85.00 %		
7	BOILER LIGHT UP	30-11-2019	28-02-2022 (A)	30-05-2020	31-01-2023	30-11-2020	31-05-2023	2	Coal Handling Plant	BGR Energy System Ltd.	60.29 %		
8	CHEMICAL CLEANING	30-10-2019	24-07-2021(A)	30-04-2020	31-12-2022	30-10-2020	31-04-2023						
9	STEAM BLOWING START	15-12-2020	15-06-2022	15-06-2020	15-02-2023	15-12-2020	15-06-2023						
10	STEAM BLOWING COMPLETION	30-01-2020	15-07-2022	30-07-2020	15-03-2023	30-01-2021	15-07-2023	3	Ash Handling Plant	BGR Energy System Ltd.	55.89 %		
11	HP PIPING ERECTION START	12-01-2019	30-10-2019 (A)	12-07-2019	21-02-2019 (A)	12-01-2019	30-06-2021 (A)	4	Fuel Oil System	M/s L&TMHPS Boiler Private Limited- (LMBPL)	99.00 %		
12	HP PIPING ERECTION COMPLETION	10-06-2019	30-08-2021(A)	10-06-2020	15-11-2022	12-06-2020	31-1-2023	5	Cooling Towers	BGR Energy System Ltd	Civil:93.00%	Civil:57.99%	Civil:42.15%
13	CONDENSER ERECTION START	19-07-2018	09-03-2019 (A)	19-01-2019	03-01-2020 (A)	19-07-2019	02-03-2021 (A)	6	CW Pump house & Piping	BGR Energy System Ltd	86.63%		
14	TG ERECTION START	03-07-2018	08-02-2019(A)	03-01-2019	29-02-2020(A)	03-07-2019	30-04-2021(A)	7	PT Plant	BGR Energy System Ltd	94.14%		
15	TG BOX UP	02-07-2019	23-10-2019(A)	02-01-2020	15-05-2021(A)	02-07-2020	31-8-2022	8	DM Plant	BGR Energy System Ltd	96.65%		
16	START OF OIL FLUSHING	30-11-2019	27-10-2020(A)	31-05-2020	30-6-2022	30-11-2020	31-12-2022	9	Air Compressor	M/s L&TMHPS Boiler Private Limited-(LMBPL)	99.85%		
17	ROLLING & SYNC.	01-03-2020	30-9-2022	31-08-2020	30-4-2023	01-03-2021	31-8-2023	10	Fire Protection System	BGR Energy System Ltd	48.84%		
18	FULL LOAD	01-04-2020	28-2-2023	31-10-2020	30-6-2023	01-04-2021	31-10-2023	11	Switch Yard	BGR Energy System Ltd	72.18%		
19	TRIAL RUN	29-05-2020	31-3-2023	27-11-2020	31-7-2023	29-05-2021	30-11-2023	12	Station Transformers	M/s GE-Power Systems India Pvt. Ltd.-(GE-Power)	100.00%	90.00%	25.00%
20	COD	01-06-2020	31-3-2023	30-11-2020	31-7-2023	01-06-2021	30-11-2023	13	Unit Transformers	M/s GE-Power Systems India Pvt. Ltd.-(GE-Power)	95.00%	55.00%	30.00%
21	PG TEST START AND COMPLETION	01-09-2020	30-6-2023	01-03-2021	30-10-2023	01-09-2021	28-2-2024	14	Railway siding	M/s. RITES	Civil work - 87.00%		
								15	Power Evacuation	M/s. Ghatampur transmission limited (Adani transmission limited)	400kV GTPS-Kanpur -100% 765kV GTPS-Agra -100% 765kV GTPS-Hapur - 100%		

REASONS OF DELAY :

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

CRITICAL AREAS / ASSISTANCE REQUIRED :

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

CENTRAL SECTOR
KHURJA SUPER STPP (2X660 MW)

As on 31.05.2022

Developer-THDC	Zero Date: 29.08.2019	Main Plant Vendor-M/s L&T MHI Power Boilers Pvt. Ltd. (LMB) & BHEL(TG)	Original/ Anticipated Trial Run UNIT-01	July 23/ Feb 2024
			Original/ Anticipated Trial Run UNIT-02	Jan 24/ Aug 2024
ADDRESS : - Khurja Dist. Bulandshahar, Uttar Pradesh -203131			E-GEN PORTAL: REGISTRATION STATUS- YES Reg No. 1200002023, 1200002024	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	COAL, Indigenous		ORIGINAL ESTIMATED COST OF THE PROJECT	Rs.11,089.42 Cr. (Dec-17 PL) investment Approval accorded on 07.03.19.
COAL COMBUSTION	Ultra Supercritical		LATEST ESTIMATED COST	Not Applicable
APPROVAL DATE/NOTICE TO PROCEED (NTP)	CCEA accorded Investment Approval for Khurja STPP in District Bulandshahar of Uttar Pradesh at an estimated cost of Rs.11,089.42 Cr. at Dec-17 PL, on 07.03.2019.		DATE OF FINANCIAL CLOSURE	The Project is being funded with a Debt Equity ratio of 70:30. Equity portion is being arranged by THDCIL from internal resources and Debt portion is being arranged by borrowing through Banks/ Financial Institutions and through issuance of bonds.
ZERO DATE:	Zero Date : 29.08.2019 (with respect to Award of Main Plant Package i.e. Steam Generator & Associated Packages)		EXP. DURING 2016-17	338.92
PPA	PPAs for entire off take-off power to be generated from Khurja STPP have been signed by THCDIL prior to 05.01.2011 with Uttar Pradesh, Uttarakhand, 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.		EXP. DURING 2017-18	10.66
COAL LINKAGE/FSA	For Coal linkage, Ministry of Coal, GoI vide allotment order dtd.17.01.2017 has allotted Amelia Coal Mine in District Singraulli, Madhya Pradesh to THDCIL to meet out fuel requirements of the project. 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.		EXP. DURING 2018-19	148.87
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 be completed by June-2022.Thereafter THDCIL will request RLDC for availing start up power as per CERC Regulations.		EXP. DURING 2019-20	439.95
POWER EVACUATION SYSTEM	a) Power Evacuation system to ISTS Beneficiaries :- MOU already signed with PGCIL on 26.06.2020 for Implementation of 400 kV Double Circuit along with construction of Associated bays at Aligarh Sub-Station for evacuation of Power from Khurja (2x660 MW) STPP. The scope of power evacuation system has been split into two packages namely Sub-station and transmission line package. The status of these two packages is as follows: (i) Sub-Station Package : Notification of award issued on 25.03.2021 to M/s HYOSUNG INDIA with a completion period of 15 Months and the works are under progress.(ii) Transmission Line Package : Notification of award issued on 02.03.2021 to M/s Unitech Power Transmission Limited with a completion period of 15 Months and works are under progress. b) Power Evacuation system to UP :- In line with 2nd meeting of Northern Region Power Committee (Transmission Planning) held on 01.09.2020, UPPTCL will directly evacuate their share of power i.e. 60% (792 MW) from Khurja STPP Switchyard Busbar by establishing LILO of one circuit of Aligarh - Shamli 400 kV D/C line at Khurja STPP as intra- State network and the works are under progress.		EXP. DURING 2020-21	789.69
			EXP. DURING 2021-22	2158.93
LAND POSSESSION	Small Patches of land within the boundary of already acquired 1201 Acre land by UPSIDC and handed over to THDCIL .		EXP. OF MAY'22	199.98
WATER ALLOCATION	Formal water commitment letter for providing 43 Cusec water for Makeup Water System from Upper Ganga Canal at just 11 Km from Project site issued by Water Resource Department, GoUP on 12.06.2014.		TOTAL EXPENDITURE (UPTO 31.05.2022)	4349.29
MOEF CLEARANCE	Environmental Clearance has been accorded to Khurja STPP by MOEF&CC on 30.03.2017 with validity upto 29.03.2024.			
CIVIL AVIATION CLEARANCE	Clearance for construction of chimney for Khurja STPP has been obtained from Airport Authority of India (AAI) on 19.04.2018 with validity up to 17.07.2023.			
CPCB CLEARANCE	NOT APPLICABLE			
SPCB CLEARANCE	“Consent to Establish” has been granted by SPCB Uttar Pradesh on 13.06.2018 with validity upto 01.06.2023.			
FOREST CLEARANCE	NOT APPLICABLE			

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)						MAIN PLANT PACKAGE (BTG VENDOR): M/s L&T MHI Power Boilers Pvt. Ltd. (LMB) & BHEL				
Sl.	MILESTONE	UNIT-01		UNIT-02		Sl.	Packages	AREA	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage Completion)
		Original Date of Completion	Actual/Anticipate d Date of Completion	Original Date of Completion	Actual/Anticipated Date of Completion					
						1	BOILER	CIVIL STRUCTURE PRESSURE PARTS	100% 23.00% 24.00%	100% 12% 0%
1	COMPLETION OF BOILER FOUNDATION	29.09.2020	20.01.2021(A)	29.03.2021	15.11.2021(A)	2	TG	CIVIL STRUCTURE PRESSURE PARTS	88.70% 57.00% 0%	64.60% 8.70% 0%
2	START OF BOILER ERECTION	29.10.2020	20.02.2021(A)	29.04.2021	17.08.2021(A)	3	ESP	UNDER PROGRESS	12.00%	0%
3	BOILER DRUM LIFTING	NA	NA	NA	NA	4	FGD	CIVIL	100% Of PILING & 25.96% RCC completed	100 % of Piling & 19.78% of RCC
4	BOILER CEILING GIRDER	28.05.2021	12.02.2022 (A)	28.11.2021	12.08.2022	STATUS OF BOPs				
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	29.05.2022	30.12.2022	29.11.2022	30.06.2023	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC- BHEL)	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage Completion)
6	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	29.08.2022	29.02.2023	29.02.2023	29.08.2023	1	Chimney	M/s L&T MHI Power Boilers Pvt. Ltd	100% of Piling Unit-1: RCC- 60.31 % Unit-2: RCC-53%	
7	BOILER LIGHT UP	29.10.2022	11.05.2023	29.04.2023	11.11.2023	2	Coal Handling Plant	Excavation in Wagon tippler area is i/p. Percentage of work done : 30.00%		
8	CHEMICAL CLEANING	29.10.2022	10.06.2023	29.04.2023	10.12.2023	3	Ash Handling Plant	M/s L&T MHI Power Boilers Pvt. Ltd	100% of Piling and 12% of RCC	
9	STEAM BLOWING START	29.11.2022	11.06.2023	29.05.2023	11.12.2023	4	Fuel Oil System	M/s L&T MHI Power Boilers Pvt. Ltd	62% LDO tanks; 20% FOPH	
10	STEAM BLOWING	29.12.2022	30.09.2023	29.06.2023	30.03.2024	5	Cooling Towers	M/s Paharpur Cooling Towers Ltd.	U-1: 45.13% of civil work completed	U-2: 21.63% of civil work completed
11	HP PIPING ERECTION START	28.06.2021	28.07.2022	28.12.2021	28.01.2023	6	CW Pump house & Piping	Awarded in 10/2021		
12	HP PIPING ERECTION	26.10.2022	26.04.2023	26.04.2023	26.10.2023					
13	CONDENSER ERECTION START	02.09.2021	25.03.2022 (A)	02.03.2022	25.09.2022	7	PT Plant	Pkg has been awarded on 30.11.2021		
14	TG ERECTION START	03.09.2021	26.05.2022 (A)	03.03.2022	26.11.2022	8	DM Plant	Pkg has been awarded on 30.11.2021		
15	TG BOX UP	04.08.2022	25.01.2023	04.02.2023	25.07.2023	9	Air Compressor	In tendering process		
16	START OF OIL FLUSHING	03.11.2022	26.03.2023	03.05.2023	26.09.2023	10	Fire Protection System	In tendering process		
17	ROLLING & SYNC.	02.04.2023	07.11.2023	02.10.2023	07.05.2024	11	Switch Yard	M/s GET&D	65.00%	
18	FULL LOAD	02.06.2023	06.01.2024	02.12.2023	06.07.2024	12	Ash Dyke Package	M/s JPW Infratech Pvt Ltd (DoA : 11.03.2022)	1.00%	
19	TRIAL RUN	02.07.2023	20.02.2024	02.01.2024	20.08.2024	13	Station Transformers	BHEL	45.00%	
20	COD	02.08.2023	20.02.2024	02.02.2024	18.08.2024	14	Unit Transformers	BHEL	40.00%	
21	PG TEST START AND COMPLETION	Start – 30.04.23 Finish – 29.05.23	Start – 30.10.23 Finish – 29.11.23	Start – 30.10.23 Finish – 29.11.23	Start – 30.04.24 Finish – 29.05.24	15	Railway siding	M/s Jhaghariya Nirman Ltd M/s ISC-CMIPL (JV)	Earth work for embankment of rail lines and concreting work i/p.	
						16	Power Evacuation	M/s Unitech Power Transmission M/s Hyosung India	85% T/M line work completed	

REASONS OF DELAY:

1. 6 Months Post Award delay due to COVID-19 Pandemic.

CRITICAL AREAS:

1. Make-up Water related issues pending with Irrigation & Water Resources Deptt, GoUP.

2. Start of construction of associated structures as per MOU.

3. Permission for laying of PCCP Pipeline by UPJN.

4. Exemption from paying the additional charges other than around rs 300 Cr being paid for lining.

5. Law & Order issue in taking possession of small patches of land within the boundary of already acquired 1201 Acre land by UPSIDC and handed over to THDCIL.

6. Final shifting of Nagla villagers from Project land to the newly constructed houses near Project boundary. Help of District Administration is required for demolition of old Nagla houses for final shifting .

CENTRAL SECTOR
BUXAR THERMAL POWER PROJECT (2X660 MW)

As on 31.05.2022

Developer-SJVN	Zero Date: 22.06.2019	Main Plant Vendor-M/S L&T	Original/ Anticipated Trial Run UNIT-01	May 2023/ Jun 2023
			Original/ Anticipated Trial Run UNIT-02	Sep 2023/ Dec 2023
ADDRESS : - Village-Chausa, Tehsil-Chausa, Distt.-Buxar, Pin- 802114, Bihar			E-GEN PORTAL: REGISTRATION STATUS- Yes U-1: 1200002481 U-2: 1200002482	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Coal, Indigenous		ORIGINAL ESTIMATED COST OF THE PROJECT	Original Project cost- 10,439.09 Crores (Price Level- Jan'2018), Approval date- 08.03.2019.
COAL COMBUSTION TECHNOLOGY	Supercritical		LATEST ESTIMATED COST	Not Applicable
PROCEED (NTP)	Investment Approval accorded by Govt. of India vide MoP memorandum dated 08.03.2019.		DATE OF FINANCIAL CLOSURE	26.11.2020
ZERO DATE:	Main Plant works has been awarded in single EPC package to M/s. L&T on 22.06.2019.		EXP. DURING 2013-14	46.68
PPA	PPA signed with Govt. of Bihar on 05.01.2011 and further reconfirmed on 09.01.2018.		EXP. DURING 2014-15	15.18
COAL LINKAGE/FSA	Letter of Assurance (LoA) for 4.976 MTPA of G9 to G14 grade coal issued by Central Coalfields Ltd. (CCL) on 10.12.2018. Coal may be supplied either from Amrapali coal block or Magadh coal block.		EXP. DURING 2015-16	378.08
START UP POWER AGREEMENT	Start up power will be arranged through South Bihar Power Distribution company Ltd. (SBPDCL).		EXP. DURING 2016-17	23.96
POWER EVACUATION SYSTEM	Eastern Region Power Committee (Transmission Planning) (ERPCTC) during their 1st meeting held on 14.02.2020, agreed following evacuation system from the project as intra-state system as per minutes forwarded to STPL vide email dated 18.05.20 : - Buxar TPS- Naubatpur 400 kV double circuit (Twin Moose) - Buxar TPS- Dumraon (New) 220 kV double circuit (Twin Moose) - Buxar TPS- Karmnasa (New) 220 kV double circuit (Twin Moose) - Buxar TPS- Dehri 220 kV double circuit (Single Zebra)		EXP. DURING 2017-18	21.73
			EXP. DURING 2018-19	68.21
LAND POSSESSION	Total Land Required-1283 Acre 1058.335 Acre (for Main Plant), 147 acre (for Rail Corridor) and 78 acre (for Water Pipeline corridor & intake etc.) land under possession.		EXP. DURING 2019-20	344.50
WATER ALLOCATION	MoU for utilization of 55 cusec of water signed between STPL and Water Resource Deptt., Govt. of Bihar on 29.08.2016.		EXP. DURING 2020-21	1100.05
MOEF CLEARANCE	Accorded by MOEF&CC on 28.02.2017.(Validity- 27.02.2024)		EXP. DURING 2021-22	2691.06
CIVIL AVIATION CLEARANCE	Accorded by Airport Authority of India on 12.04.2017 (Fresh NOC issued on 18.11.2018). (Validity-17.11.2028)		EXP. OF May'22	320.00
CPCB CLEARANCE	NOT APPLICABLE		TOTAL EXPENDITURE (UPTO 31.05.2022)	5410.32
SPCB CLEARANCE	"Consent to Establish" (NOC) granted by Bihar State Pollution Control Board on 03.09.2019.			
FOREST CLEARANCE	NOT APPLICABLE			

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)						MAIN PLANT PACKAGE (BTG VENDOR): M/s L&T Ltd				
Sl.	MILESTONE	UNIT-01		UNIT-02		Sl.	Packages	AREA	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage Completion)
		Original Date of Completion	Actual/Anticipated Date of Completion	Original Date of Completion	Actual/Anticipated Date of Completion					
						1	BOILER	CIVIL STRUCTURE PRESSURE PARTS	45.26% (Overall)	23.49% (Overall)
1	COMPLETION OF BOILER FOUNDATION	21-Jul-20	01-May-21 (A)	19-Nov-20	28-Oct-21 (A)	2	TG	CIVIL STRUCTURE PRESSURE PARTS	40.06% (Overall)	3.07% (Overall)
2	START OF BOILER ERECTION	20-Aug-20	21-Oct-20(A)	20-Dec-20	23-Nov-21 (A)	3	ESP	UNDER PROGRESS	15.35%	2.00%
3	BOILER DRUM LIFTING	-NA-	-NA-	-NA-	-NA-	4	FGD	CIVIL WORK MATERIAL SUPPLY ERECTION WORK	18.46% 17.25% 0.00%	18.46% 17.25% 0.00%
4	BOILER CEILING GIRDER LIFTING COMPLETION	19-Apr-21	31-Jan-22 (A)	20-Aug-21	21-Aug-22	STATUS OF BOPs				
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	20-Apr-22	30-Nov-22	21-Aug-22	30-Sep-23	Sl.	Packages/Linked Project Milestones	Vendor/Contracting Agency (EPC- BHEL)	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage Completion)
6	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	-NA-	-NA-	-NA-	-NA-	1	Chimney	Larsen & Toubro Limited (EPC)	13.34%	
7	BOILER LIGHT UP	21-Oct-22	22-Jan-23	21-Feb-23	22-Oct-23	2	Coal Handling Plant	Larsen & Toubro (Conveyor pkg))	1.48% (Conveyor package), 11.16% (Wagon Tripler) 0.40% (Stacker Reclaimer)	
8	CHEMICAL CLEANING	15-Oct-22	25-Jan-23	15-Feb-23	25-Oct-23			Larsen & Toubro (Wagon tripler)		
9	STEAM BLOWING START	01-Nov-22	12-Apr-23	04-Mar-23	26-Oct-23			Larsen & Toubro/ Thyssenkrup (Stacker reclaimer)		
10	STEAM BLOWING COMPLETION	18-Dec-22	5-May-23	20-Apr-23	10-Nov-23	3	Ash Handling Plant	L&T /Macawber Beekay Pvt ltd	6.53%	
11	HP PIPING ERECTION START	16-Oct-21	2-May-22 (A)	15-Feb-22	15-Oct-22	4	Fuel Oil System	L&T/ M/s Shalkoot Mechanique Pvt. Ltd	8.71%	
12	HP PIPING ERECTION COMPLETION	30-Jul-22	28-Feb-23	29-Nov-22	29-Aug-23	5	Cooling Towers	L&T/ M/s Paharpur Cooling Towers Ltd	24.14%	
13	CONDENSER ERECTION START	03-Aug-21	31-May-22 (A)	03-Dec-21	3-Sep-22	6	CW Pump house & Piping	L&T/ M/s Xylem Water Solutions India Pvt Ltd	7.58%	
14	TG ERECTION START	21-Sep-21	15-Jun-22	20-Jan-22	15-Sep-22	7	PT Plant	L&T/ M/s Driplex Water Engineering Pvt Ltd	12.88%	
15	TG BOX UP	21-Aug-22	22-Feb-23	20-Dec-22	21-Sep-23	8	DM Plant	L&T/ M/s Driplex Water Engineering Pvt Ltd	37.23%	
16	START OF OIL FLUSHING	28-Aug-22	23-Mar-23	27-Dec-22	22-Sep-23	9	Air Compressor	M/s L&T / M/s L&T-MHPS Boilers Pvt. Ltd	8.72%	
17	ROLLING & SYNC.	20-Feb-23	31-May-23	21-Jun-23	30-Nov-23	10	Fire Protection System	L&T/ M/s Flowmore Limited	6.74%	
18	FULL LOAD	21-Mar-23	25-Jun-23	21-Jul-23	25-Dec-23	11	Switch Yard	L&T/ M/s ABB Power Products & Systems India Ltd,	38.74%	
19	TRIAL RUN	21-May-23	30-Jun-23	21-Sep-23	31-Dec-23	12	Station Transformers	L&T/ M/s ABB Power Products & Systems India Ltd,	6.33%	
20	COD	07-Jul-23	7-Jul-23	07-Jan-24	7-Jan-24	13	Unit Transformers	L&T/ M/s ABB Power Products & Systems India Ltd,	0.00%	
21	PG TEST START AND COMPLETION	21-Jun-24	21-Jun-24	21-Nov-24	21-Oct-24	14	Railway siding	BITES Ltd.	8.20%	
						15	Power Evacuation	BSPTCL, Govt. of Bihar	10.40%	

REASONS OF DELAY :

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

CRITICAL AREAS:

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

STATE SECTOR (NORTHERN REGION)
OBRA 'C' TPP (2X660 MW)

As on 31.05.2022

Developer- UPRVUNL	Zero Date: 22.12.2016	Main Plant Vendor- (BTG) awarded to M/s. Doosan Power Systems India Pvt. Ltd. On 22.12.2016 SG package by	Original/Actual Trial Run UNIT-01	Dec-20/ Jun-23
			Original/Expected Trial Run UNIT-02	Apr-21/Dec-23
ADDRESS : - Village-Obra, Tehsil-Obra, District-Sonebhadra, Pin-231219 Uttar Pradesh			E-GEN PORTAL: Unit 1 No: 1200001696 Unit 2 No: 1200001697	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Coal, Indigenous		ORIGINAL ESTIMATED COST OF THE PROJECT	Original Project cost - 8777.71 Crores approval date from U P Govt. 31.07.2012
COAL COMBUSTION TECHNOLOGY	Ultra-Supercritical		LATEST ESTIMATED COST	Latest Estimated cost - 10416 Crore approval date 24.11.2016
APPROVAL DATE/NOTICE TO PROCEED (NTP)	Date of NTP or Approval Date: 22.12.2016		DATE OF FINANCIAL CLOSURE	13.11.2013 and 30.05.2019 for additional amount.
ZERO DATE:	22.12.2016. EPC Package Awarded to M/s Doosan Power Systems Indi Pvt. Ltd., Gurugram		EXP. DURING 2015-16	7.24
PPA	PPA signed with UP Power Corporation Ltd for 100% share to state of UP		EXP. DURING 2016-17	423.77
COAL LINKAGE/FSA	Coal Block allocated at Saharpur Jamarpani Coal Mine, Jharkhand. Allocation Date: 13.08.2015. Grade of Coal B to G		EXP. DURING 2017-18	277.83
START UP POWER AGREEMENT	Start up power from UPPTCL		EXP. DURING 2018-19	855.9
POWER EVACUATION SYSTEM	Power evacuation at 765 KV.		EXP. DURING 2019-20	2175.96
LAND POSSESSION	Brown Field project, therefore Land already in Possession. For ash dyke construction, land acquisition of 113.42 Ha under progress. Initially ash disposal of Obra 'C' will be made in existing obra 'B' Ash Pond and in parallel land aquisition work for Obra'C' is in progress.	EXP. DURING 2020-21	1220.62	
		EXP. DURING 2021-22	1826.42	
WATER ALLOCATION	Water requirement to be fulfilled from return channel of obra B plant. Additional requirement (if any) shall be met from the reservoir of Rihand Dam.		EXP. OF CURRENT MONTH (May 2022)	92.25
MOEF CLEARANCE	Clearance obtained date 21.06.2016		TOTAL EXPENDITURE (UPTO 31.05.2022)	7232.59
CIVIL AVIATION CLEARANCE	Clearance obtained date : 12.07.2016 Valid upto 21.07.2021			
CPCB CLEARANCE	Not Applicable			
SPCB CLEARANCE	Not Applicable			
FOREST CLEARANCE	Wild life Clearance obtained date 07.06.2016			

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)						MAIN PLANT PACKAGE: Doosan Power Systems India Pvt. Ltd.				
Sl.	MILESTONE	UNIT-01		UNIT-02		Sl.	Packages	AREA	UNIT-01	UNIT-02
		Original Date of Completion	Actual/Anticipated Date of Completion	Original Date of Completion	Actual/Anticipated Date of Completion	1	BOILER	Percentage Completion	93.84%	66.96%
1	COMPLETION OF BOILER FOUNDATION	11-Mar-18	15-Feb-19	16-Jun-18	21-Feb-19	2	TG	Percentage Completion	91.82%	35.45%
2	START OF BOILER ERECTION	22-Apr-18	28-May-18	22-Aug-18	21-Jan-19	3	ESP	Percentage Completion	91.32%	51.12%
3	BOILER DRUM LIFTING	N/A	N/A	N/A	N/A	4	FGD	CIVIL WORKS MATERIAL SUPPLY ERECTION WORK	85.14% -	60.64% -
4	BOILER CEILING GIRDER LIFTING COMPLETION	21-Sep-18	07-Mar-19	21-Jan-19	10-Nov-19	STATUS OF BOPs (DPSI-EPC)				
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	22-Sep-19	27-Sep-20	23-Jan-20	20-Apr-22	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC-BHEL)	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage Completion)
6	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	22-Sep-19	27-Sep-20	23-Jan-20	20-Apr-22	1	Chimney	M/s.Simplex	95.83%	
7	BOILER LIGHT UP	21-Apr-20	26-Apr-22	19-Aug-20	09-Sep-22	2	Coal Handling Plant	KCC (Conveyor package)	45.53%	
8	CHEMICAL CLEANING COMPLETION	25-Mar-20	16-Mar-22	25-Jul-20	14-Aug-22			Aneja (Wagon Tripler)	56.68%	
9	STEAM BLOWING START	22-May-20	20-July-22	19-Sep-20	09-Oct-22			Aneja (Stacker Reclaimer)	72.05%	
10	STEAM BLOWING COMPLETION	22-Jun-20	30-Aug-22	19-Oct-20	09-Nov-22	3	Ash Handling Plant	AKC, PNC	47.00%	
11	HP PIPING ERECTION START	12-Jan-19	01-Mar-20	22-May-19	02-Jan-21	4	Fuel Oil System	AKC, Sangha, Singrauli, Jiwal	80.35%	
12	HP PIPING ERECTION COMPLETION	20-Mar-20	14-Mar-22	20-Jul-20	31-Jul-22	5	Cooling Towers	PCTL	63.94%	59.68%
13	CONDENSER ERECTION START	23-Nov-18	17-Aug-20	23-Mar-19	2-Apr-22	6	CW Pump house & Piping	GDCL	84.20%	
14	TG ERECTION START	22-Jan-19	02-Nov-20	23-May-19	10-Nov-22	7	PT Plant	Rajpati Vishwakarma, Sahil Kumar, KNIL, IEIL	93.63%	
15	TG BOX UP	22-Feb-20	15-Dec-21	20-Jun-20	11-Jan-23	8	DM Plant	Rajpati Vishwakarma, Sahil Kumar, KNIL, IEIL	97.39%	
16	START OF OIL FLUSHING	23-Feb-20	10-Mar-22	21-Jun-20	12-Apr-23	9	Air Compressor	GDCL	81.50%	
17	ROLLING & SYNC.	30-Jul-20	15-Mar-23	27-Nov-20	21-Sept-23	10	Fire Protection System	Lloyd	22.49%	
18	FULL LOAD	01-Sep-20	21-May-23	31-Dec-20	21-Nov-23	11	Switch Yard	KNIL , GDCL, GET&D	93.17%	
19	TRIAL RUN	21-Dec-20	21-Jun-23	21-Apr-21	18-Dec-23	12	Station Transformers	GDCL, GET&D	99.99%	
20	COD	21-Dec-20	21-Jun-23	21-Apr-21	18-Dec-23	13	Unit Transformers	GDCL, GET&D	93.54%	
21	PG TEST START AND COMPLETION	21-Jun-21	31-Dec-23	21-Oct-21	21-Jun-24	14	Railway siding	DPSI	-	
						15	Power Evacuation	GET&D	-	

REASONS OF DELAY:

NLTH (Non Linear Time History) Analysis, Steel Price Hike, Dispute between DPSI and its sub-vendors, Covid-19 I & II wave.

CRITICAL AREAS: NIL

STATE SECTOR (NORTHERN REGION)
JAWAHARPUR SUPER THERMAL POWER STATION (2X660 MW)

As on 31.05.2022

Developer- UPRVUNL	Zero Date: 22.12.2016	Main Plant Vendor-M/S Doosan Power Systems India	Original/Actual Trial Run UNIT-01	Dec'2020 / May'2023
			Original/Expected Trial Run UNIT-02	Apr' 2021 / Sep'2023
ADDRESS : - Jawaharpur STPS, Malawan, Etah, UP - 207001			E-GEN PORTAL REGISTRATION STATUS- YES/NO- Yes U#1: 1200002452 & U#2: 1200002496	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE		Coal, Indigenous	ORIGINAL ESTIMATED COST OF THE PROJECT	8078.56
COAL COMBUSTION TECHNOLOGY		Ultra Super Critical	LATEST ESTIMATED COST	10566.27
APPROVAL DATE/NOTICE TO PROCEED (NTP)		Approval of DPR and Intial project cost by U.P.Government of DPR Vide letter dated 04.09.2015	DATE OF FINANCIAL CLOSURE	No Records Available
ZERO DATE:		22.12.2016- date of Award to EPC Contractor M/s Doosan Power Systems India Power Limited - scope including BTG,BOP	EXP. DURING 2016-17	445.21
PPA		Details of PPA signed or under process whichever is applicable with defining share % if any.	EXP. DURING 2017-18	400.26
COAL LINKAGE/FSA		Coal mine -Shaharpur JamarPani also Bridge Linkage from Coal Ministry allocated	EXP. DURING 2018-19	844.96
START UP POWER AGREEMENT		for 220 KV signed with UPPTCL	EXP. DURING 2019-20	2295.94
POWER EVACUATION SYSTEM		765 KV / 400 KV / 220 KV GIS	EXP. DURING 2020-21	2034.08
			EXP. DURING 2021-22	2224.36
LAND POSSESSION		765 Acre land for Power House under Possess	EXP. OF CURRENT MONTH (May 2022)	96.04
WATER ALLOCATION		Lower Ganaga Canal - 38 cusec	TOTAL EXPENDITURE (UPTO 31.05.2022)	8433.52
MOEF CLEARANCE		MOEF clearance granted in 63rd Meeting of the reconstituted EAC (Thermal Power) was held on 29th & 30thAugust, 2016		
CIVIL AVIATION CLEARANCE		Chimney clearance from AAI vide letter dated 12.06.15.		
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		

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)						MAIN PLANT PACKAGE (BTG VENDOR): M/S DPSI				
Sl.	MILESTONE	UNIT-01		UNIT-02		Sl.	Packages	AREA	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage Completion)
		Original Date of Completion	Actual/Anticipated Date of Completion	Original Date of Completion	Actual/Anticipated Date of Completion					
						1	BOILER	CIVIL STRUCTURE PRESSURE PARTS	100% 94.41% 100%	100% 84.05% 100%
1	COMPLETION OF BOILER FOUNDATION	31.12.2017	05.03.2019	03.05.2018	29.05.2019	2	TG	CIVIL STRUCTURE	100% 98.4%	98.5% 94.22%
2	START OF BOILER ERECTION	22.04.2018	20.08.2018	22.08.2018	20.11.2018	3	ESP	STRUCTURE	76.12%	15.1%
3	BOILER DRUM LIFTING	NA				4	FGD	CIVIL WORK MATERIAL SUPPLY ERECTION WORK	100% 95.5% 84.4%	99.6% 85.1% 11.1%
4	BOILER CEILING GIRDER LIFTING COMPLETION	06.09.2018	14.06.2019	06.01.2019	14.11.2019	STATUS OF BOPs (DPSI-EPC)				
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	21.09.2019	10.11.2020	21.01.2020	30.11.2021	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC- BHEL)	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage Completion)
6	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION					1	Chimney	Simplex	71.66%	
7	BOILER LIGHT UP	26.04.2020	27.05.2022	23.08.2020	31.12.2022	2	Coal Handling Plant	tkII/ NeoStructo(Conveyor package)	82.55%	
8	CHEMICAL CLEANING	15.03.2020	03.05.2022	13.07.2020	03.11.2022			tkII/ NeoStructo (Wagon Tripler)	81.91%	
9	STEAM BLOWING START	26.05.2020	04.10.2022	21.09.2020	02.02.2023			tkII/ NeoStructo (Stacker Reclaimer)	97.1%	
10	STEAM BLOWING COMPLETION	21.06.2020	30.10.2022	21.10.2020	28.02.2023	3	Ash Handling Plant	Main vendor/subcontractor	64.79%	
11	HP PIPING ERECTION START	18.02.2019	01.11.2019	22.06.2019	15.02.2021	4	Fuel Oil System	Main vendor/	99.48%	
12	HP PIPING ERECTION COMPLETION	23.08.2019	01.07.2022	23.12.2019	20.07.2022	5	Cooling Towers	Paharpur	98.0%	88.7% (Basin)
13	CONDENSER ERECTION START	22.01.2019	16.09.2020	22.05.2019	12.06.2021	6	CW Pump house & Piping	DPSI/ Jyoti	86.16%	
14	TG ERECTION START	22.01.2019	23.11.2020	22.05.2019	25.02.2022	7	PT Plant	Civil : Tecknow	98.38%	
15	TG BOX UP	22.02.2020	05.07.2022	20.06.2020	31.01.2023	8	DM Plant	EPC : Ion Exchange	96.92%	
16	START OF OIL FLUSHING	23.02.2020	12.02.2022	21.06.2020	12.12.2022	9	Air Compressor	Atlas / Jyoti	85.65%	
17	ROLLING & SYNC.	21.08.2020	28.02.2023	21.12.2020	30.04.2023	10	Fire Protection System	Lloyd	83.95%	
18	FULL LOAD	01.09.2020	09.03.2023	01.01.2021	07.05.2023	11	Switch Yard	GE T&D	87.83%	
19	TRIAL RUN	20.12.2020	30.05.2023	20.04.2021	29.09.2023	12	Station Transformers	Zagson	59.64%	
20	COD	21.12.2020	31.05.2023	21.04.2021	30.09.2023	13	Unit Transformers	Zagson	34.43%	
21	PG TEST START AND COMPLETION	21.06.2021	21.11.2023	21.10.2021	22.03.2024	14	Railway siding	NA		
						15	Power Evacuation	DPSI	-	

REASONS OF DELAY:

1st and 2nd wave of COVID-19 pandemic have caused delay in project, the project is approximately 18 Months delayed.
Currently man power has been increased by the EPC Contractor and work is under progress

CRITICAL AREAS: Nil

STATE SECTOR (NORTHERN REGION)
PANKI THERMAL POWER PROJECT (1X660MW)

As on 31.05.2022

Developer- UPRVUNL	Zero Date: 31.03.2018	Main Plant Vendor-M/s BHEL	Original/Anticipated Trial Run UNIT-01	Sept'21 / Sept'23
ADDRESS : -Panki TPP, Distt. Kanpur UP, 208020			E-GEN PORTAL: REGISTRATION STATUS- 1200001768	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE		Coal, Indigenous	ORIGINAL ESTIMATED COST OF THE PROJECT	INR 5816.70 Crore, Approval date 20.03.2018
COAL COMBUSTION TECHNOLOGY		Supercritical	LATEST ESTIMATED COST	Not Applicable
APPROVAL DATE/NOTICE TO PROCEED (NTP)		20.03.2018	DATE OF FINANCIAL CLOSURE	22.06.2018
ZERO DATE:		31.03.2018		
PPA		Signed on 17.01.2017	EXP. DURING 2018-19	543.29
COAL LINKAGE/FSA		FSA on 30.01.2017	EXP. DURING 2019-20	837.26
START UP POWER AGREEMENT		20.10.2020	EXP. DURING 2020-21 EXP. DURING 2021-22	1131.48 951.81
POWER EVACUATION SYSTEM		UPPTCL	EXP. of May-22	349.56
LAND POSSESSION		It is extension project.Hence Land is available	TOTAL EXPENDITURE (UPTO 31.05.2022)	3837.26
WATER ALLOCATION		Lower Ganga Canal and Tertiary Treatment Plant, Bingawan (Kanpur)		
MOEF CLEARANCE		Clearance obtained vide letter no. J-13012/35/2013-IA-I(T) dated :- 29.06.2017		
CIVIL AVIATION CLEARANCE		Clearance obtained vide letter no. AAI/NOC/2012/453/104-106 dated:- 18.01.2013		
CPCB CLEARANCE		MOEF clearance obtained on 29.06.2017		
SPCB CLEARANCE		Clearance obtained vide letter no. 24271/UPPCB/Kanpur Nagar(UPPCBRO)/CTE/Kanpur Nagar/2018 dated : 25.06.2018		
FOREST CLEARANCE		Clearance obtained vide letter no. 484/14-1 dated:- 11.08.2015		

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)				MAIN PLANT PACKAGE (BTG VENDOR): M/s BHEL			
Sl.	MILESTONE	UNIT-01		Sl.	Packages	UNIT-01	% Completion
		Original Date of Completion	Actual/Anticipated Date of Completion				
				1	BOILER	Civil works Structural works Pressure Parts	96% 72.63% 95.85%
1	COMPLETION OF BOILER FOUNDATION	29.04.2019	13.01.2020	2	TG	Civil works Structural works TG Aux	77.38% 91.89% 20.65%
2	START OF BOILER ERECTION	30.04.2019	24.04.2019	3	ESP	Pass status	85.79%
3	BOILER DRUM LIFTING	NA	NA	4	FGD	CIVIL work Material Supply Erection	43.88% 13% NIL
4	BOILER CEILING GIRDER LIFTING COMPLETION	20.11.2019	23.02.2020	STATUS OF BOPs			
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	30.09.2020	17.12.2021(A)	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency	% Completion
6	BOILER HYDRO TEST (NON- DRAINABLE) COMPLETION	22.02.2021	10/2022	1	Chimney	Bygging	97%
7	BOILER LIGHT UP	28.02.2021	10/2022	2	Coal Handling Plant	Thyssen Krupp & RVPR (Conveyor Package)	42.5%
8	CHEMICAL CLEANING COMPLETION	10.03.2021	12/2022			Thyssen Krupp & Kanwar (Wagon Tripler)	91%(RCC)
9	STEAM BLOWING START	09.04.2021	01/2023			Thyssen Krupp & Kanwar (Stacker Reclaimer)	91%(Civil Works) 30% (Erection)
10	STEAM BLOWING COMPLETION	30.04.2021	09/2022	3	Ash Handling Plant	Indure/ Kanwar	82.40%
11	HP PIPING ERECTION START	03.11.2019	04/2022	4	Fuel Oil System	GMW/ Simplex	93%
12	HP PIPING ERECTION COMPLETION	29.08.2020	10/2022	5	Cooling Towers	Paharpur	95%
13	CONDENSER ERECTION START	30.04.2020	28.08.2021(A)	6	CW Pump house & Piping	MHI/ Simplex	92%
14	TG ERECTION START	30.04.2020	04.10.2021(A)	7	PT Plant	GDCL	81%
15	TG BOX UP	31.01.2021	10.11.2022	8	DM Plant	BGR & Simplex	96%
16	START OF OIL FLUSHING	30.01.2021	06.08.2022	9	Air Compressor	ATLAS COPCO	86%
17	ROLLING & SYNC.	31.05.2021	28.02.2023	10	Fire Protection System	BHEL	13%
18	FULL LOAD	30.06.2021	28.04.2023	11	Switch Yard	JSPPL	97%
19	TRIAL RUN	30.09.2021	28.09.2023	12	Station Transformers	BHEL	-
20	COD			13	Unit Transformers	BHEL	Nil
21	PG TEST START AND COMPLETION			14	Railway siding	RITES	44%
				15	Power Evacuation	UPPTCL	-

REASONS OF DELAY :

1. Due to COVID 19 outbreak and its consequences.
2. Unavailability of EOT crane at site.

CRITICAL AREAS: NIL

STATE SECTOR (WESTERN REGION)
BHUSAWAL SUPERCRITICAL TPP (1X660 MW)

As on 31.05.2022

Developer- MAHAGENCO	Zero Date: Jan'2018	Main Plant Vendor-M/S BHEL (EPC Contract-17.01.2018)	Original/Anticipated Trial Run UNIT-06	May'2022/ Jun' 2023
ADDRESS : - Village Pimpri Sekam, Tal Bhusawal, Dist Jalgaon, Maharashtra, 425307			E-GEN PORTAL: REGISTRATION STATUS- Yes Reg no. 1200002450	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Coal, Indigenous		ORIGINAL ESTIMATED COST OF THE PROJECT	Rs. 4548 Crs. dated 22/07/2011
COAL COMBUSTION TECHNOLOGY	Supercritical		LATEST ESTIMATED COST	Rs. 4550.97 Crs. Dated 31/12/2018
APPROVAL DATE/NOTICE TO PROCEED (NTP)	25-09-2009		DATE OF FINANCIAL CLOSURE	NA
ZERO DATE:	17.01.2018		Exp. during 2018-19	59.41
PPA	Long Term Power Purchase Agreement dated 24.12.2010 with Maharashtra state Electricity Distribution Co. Ltd for 100% of installed capacity		Exp. during 2019-20	584.06
COAL LINKAGE/FSA	Allocation Date: 11/09/2020,Source:WCL/SECL/MCL mines ,Grade: E/F Quantity : 318 MTPA		Exp. during 2020-21 Exp. during 2021-22	1381.85 1173.8
START UP POWER AGREEMENT	Maharashtra State Electricity Transmission Company Limited (MSETCL) vide letter no MSETCL/CO/STU/302 B/B_GC/No. 12757, dated 06/12/2018 approved Grid connectivity, which is valid till 06.06.2021. Letter regarding extension up to Dec-2022, is sent to STU, MSETCL on 07.05.2021.		Exp. Of May'22	82.56
POWER EVACUATION SYSTEM	Maharashtra State Electricity Transmission Company Limited (MSETCL) has started the work of 400 KV Switch yard		TOTAL EXPENDITURE (UPTO 31.05.2022)	3126.60
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.			

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)				MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL			
Sl.	MILESTONE	UNIT-06		Sl.	Packages	UNIT	% Completion
		Original Date of Completion	Actual/Anticipated Date of Completion				
				1	BOILER	UNIT-06	88%
1	COMPLETION OF BOILER FOUNDATION	25.11.2019	15.11.2019	2	TG	UNIT-06	74%
2	START OF BOILER ERECTION	30.11.2019	22.11.2019	3	ESP	UNIT-06	83%
3	BOILER DRUM LIFTING	NA	NA	4	FGD	UNIT-06	17%
4	BOILER CEILING GIRDER LIFTING COMPLETION	30.06.2020	20.01.2021	STATUS OF BOPs			
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	31.05.2021	Aug, 2022	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC- BHEL)	% Completion
6	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	10.11.2021	Aug, 2022	1	Chimney	M/s Powermech	67%
7	BOILER LIGHT UP	30.11.2021	Nov, 2022	2	Coal Handling Plant	M/s BJCL & Macawber Beekay Pvt Ltd.(Conveyor package)	42%
8	CHEMICAL CLEANING COMPLETION	20.12.2021	Dec, 2022			M/s BJCL& Promac (Wagon tippler)	29%
9	STEAM BLOWING START	24.01.2022	Dec, 2022			M/s BJCL& Promac(Stacker Reclaimer)	16%
10	STEAM BLOWING COMPLETION	19.02.2022	Jan, 2023	3	Ash Handling Plant	M/s BJCL & Macawber Beekay Pvt Ltd.	11%
11	HP PIPING ERECTION START	11.05.2021	22.03.2021 (A)	4	Fuel Oil System	M/s. New Fire Engineers Pvt Ltd.	74%
12	HP PIPING ERECTION COMPLETION	25.04.2022	Jan, 2023	5	Cooling Towers	M/s Hayagrev civil engineering Pvt Ltd	41%
13	CONDENSER ERECTION START	31.10.2020	30.03.2021 (A)	6	CW Pump house & Piping	M/s Alpha power engineering services Pvt Ltd,G&J Pvt Ltd.	59%
14	TG ERECTION START	30.11.2020	03.03.2022 (A)	7	PT Plant	M/s Clear Water company	37%
15	TG BOX UP	30.11.2021	Nov, 23	8	DM Plant	M/s Wipro Enterprises Pvt Ltd	68%
16	START OF OIL FLUSHING	04.12.2021	Mar 23	9	Air Compressor	M/s Elgi equipment Ltd.	47%
17	ROLLING & SYNC.	31.03.2022	Mar 23	10	Fire Protection System	M/s Alpha power engineering services Pvt Ltd	51%
18	FULL LOAD	30.04.2022	May 23	11	Switch Yard	M/s BNC Power Projects Ltd	63%
19	TRIAL RUN	31.05.2022	Jun 23	12	Station Transformers	M/s BHEL	48%
20	COD	30.06.2022	Jun 23	13	Unit Transformers	M/s BHEL	48%
21	PG TEST START AND COMPLETION	30.06.2022	Jun 23	14	Railway siding	ISC Projects	17%
				15	Power Evacuation	MSETCL/BNC Power Projects	63%

REASONS OF DELAY :

Anticipated dates are provided considering delay of 12 months due to Covid-19 impact.

CRITICAL AREAS: NIL

STATE SECTOR (SOUTHERN REGION)
SRI DAMODARAM SANJIVIAH TPS, STAGE- II (1X800 MW)

As on 31.05.2022

Developer APPDCL (JV of APGENCO & ILFS)	Zero Date: 02.11.2015	Main Plant Vendor- BTG order placed on BHEL on 02.11.15	Original/ Anticipated Full Load UNIT-01	Mar'19/ July'22
ADDRESS : - Nelatur (Village), near Krishnapatnam, Muthukuru (Mandal), SPSR Nellore (District) Andhra Pradesh – 524 347			E-GEN PORTAL: REGISTRATIONSTATUS- YES, Reg No: U-01:1200001078	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE		Coal, Indigenous	ORIGINAL ESTIMATED COST OF THE PROJECT	4276.03
COAL COMBUSTION TECHNOLOGY		Supercritical	LATESTESTIMATED COST	7922.72
APPROVAL DATE/NOTICE TO PROCEED (NTP)		16-Feb-13	DATE OF FINANCIAL CLOSURE	17.09.2014
ZERO DATE:		02.11.2015	EXP. DURING 2015-16	7.08
PPA		PPA entered with APDISCOMS to sell 90% of the declared capacity	EXP. DURING 2016-17	568.03
COAL LINKAGE/FSA		M/s Mahanadhi Coal fields limited has Issued LOA to supply 3.548MTPA vide letter dated 04-03-2018.	EXP. DURING 2017-18	1664.72
START UP POWER AGREEMENT		Fromthe existing Stage-I (2x800MW) Units.	EXP. DURING 2018-19	2886.73
POWER EVACUATION SYSTEM		400KV Grid	EXP. DURING 2019-20	1062.04
LAND POSSESSION		51 Acres of land is used for Stage-II from the available land of 1344.80Acres which is already under possession of APPDCL. No additional land is required for Stage-II (1x800MW)	EXP. DURING 2020-21 EXP. DURING 2021-22	885.36 920.53
WATERALLOCATION		Seawater about 6,556 Cum/Hr	EXP. of May 22	65.23
MOEF CLEARANCE		MoEF clearancce obtained on 02-07-2015 for 7 Years	TOTAL EXPENDITURE (UPTO 31.04.2022)	8069.87
CIVIL AVIATION CLEARANCE		Case No. MM315/2011: AAI/SR/NOC/RHQ, Dt. 25.06.2012		
CPCB CLEARANCE		Same as MOEF Clearance		
SPCB CLEARANCE		APPCB/VIJ/NLR/159/CFO/2014-494 DT. 08.05.2014		
FOREST CLEARANCE		RC. No. 646/2013/WL-1, Dt. 23.02.2012		

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)				MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL- EQUIPMENT PKG and M/s TATA PROJECTS LTD-CIVIL, STRUCTURE			
SI.	MILESTONE	UNIT-01		Sl.	Packages	UNIT	% Completion
		Original Date of Completion	Actual/Anticipated Date of Completion	1	BOILER	UNIT-01	98%
1	COMPLETION OF BOILER FOUNDATION	17.04.2017	27.05.2017	2	TG	UNIT-01	97%
2	START OF BOILER ERECTION	06.04.2017	26.06.2017	3	ESP	UNIT-01	98%
3	BOILER DRUM LIFTING	Not applicable	Not applicable	4	FGD	UNIT-01	Tender Floated
4	BOILER CEILING GIRDER LIFTING COMPLETION	06.04.2017	04.02.2018	STATUS OF BOPs			
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	27.03.2018	01.07.2019	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency	% Completion
6	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	16.11.2018	18.12.2019	1	Chimney	TPL / Bygging	100%
7	BOILER LIGHT UP	11.12.2018	31.12.2019	2	Coal Handling Plant	(Conveyor package) TPL / ISGEC	93%
8	CHEMICAL CLEANING	25.12.2018	07.12.2020			(Wagon tippler)	
9	STEAM BLOWING START	27.12.2018	20.03.2021			(Stacker Reclaimer)	
10	STEAM BLOWING COMPLETION	21.01.2019	08.06.2021	3	Ash Handling Plant	TPL / MBPL	93%
11	HP PIPING ERECTION START	01.04.2018	21.11.2019	4	Fuel Oil System	TPL / United System	100%
12	HP PIPING ERECTION COMPLETION	15.05.2019	In Progress	5	Cooling Towers	TPL / Hayagrev	100%
13	CONDENSER ERECTION START	26.08.2017	24.08.2018	6	CW Pump house & Piping	TPL / Xylem & DSS	100%
14	TG ERECTION START	23.11.2017	03.10.2018	7	PT Plant	TPL / BGR	100%
15	TG BOX UP	14.11.2018	29.02.2020	8	DM Plant	TPL / BGR	100%
16	START OF OIL FLUSHING	30.11.2018	19.03.2020	9	Air Compressor	TPL / ELGI	100%
17	ROLLING & SYNC.	14.01.2019	10.11.2021	10	Fire Protection System	TPL / AGNICE	92%
18	FULL LOAD	14.03.2019	30.04.2022	11	Switch Yard	TPL / ABB	100%
19	TRIAL RUN	--	21.3.22	12	Station Transformers	M/s BHEL	100%
20	COD	14.06.2019	21.7.22	13	Unit Transformers	M/s BHEL	90%
21	PG TEST START AND COMPLETION	--	--	14	Railway siding	NOT APPLICABLE	
				15	Power Evacuation	Generated power will be evacuated with exiting 400kv lines connected to switch yard	Available

REASONS OF DELAY:

1. Delay due to change in boiler design (boiler design changed to imported coal firing to indigenous coal firing) Due to the change in MOEF & CC pollution norms, the Boiler was redesigned which resulted in delay in completion of Boiler foundations and thus Boiler erection was delayed. 2. Due to Covid-19 pandemic all the works are held up at site from the third week of March 2020 due to announcement of Lockdown. 3. Due to Covid-19 pandemic 2nd wave all the works are held up at site from the third week of April 2021 due to unprecedented situations of Covid -19 2nd wave. 4. Unit restarted for partial trail load operations on 21.03.22 and loaded up to 270MW with 3 Mills in service. The charging of LPHs is completed. 5. A shut down of Unit is done on 28.03.22 for normalizing the left side PA & SA ducts. After TG vibrations rectification work restart of unit will be done in the month of June-22 and COD will complete by July-22.

CRITICAL AREA:

Boiler left PA & SA Ducts and commissioning of Mills E, F, G & H are required to be completed in full shape to achieve the COD of the UNIT.

STATE SECTOR (SOUTHERN REGION)
Dr. NARLA TATA RAO TPS, STAGE-V (1x 800MW)

As on 31.05.2022

Developer APGENCO	Zero Date:15.12.2015	Main Plant Vendor-M/SBHEL (BTG)	Original/ Anticipated Trial Run	Apr'2019/ Jul' 2022
ADDRESS: - Ibrahimpatnam (Village & Mandalam), Krishna District, Andhra Pradesh. PIN: 521456			E-GEN PORTAL: REGISTRATION STATUS- YES, Reg No: U-08:1200000271	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Coal, Indigenous		ORIGINAL ESTIMATED COST OF THE PROJECT	5286.54
COAL COMBUSTION TECHNOLOGY	Supercritical		LATEST ESTIMATED COST	7586.67
APPROVAL DATE/NOTICE TO PROCEED (NTP)	Administrative approval accorded on 09.07.2014		DATE OF FINANCIAL CLOSURE	
ZERO DATE:	BTG/BHEL-15.12.2015 and BOP/BGR- 06.07.2016		EXP. DURING 2015-16	6.6
PPA	PPA is available with DISCOMS of erstwhile APGENCO in combined AP. The same is being revised with APDISCOMS.		EXP. DURING 2016-17	422.91
COAL LINKAGE/FSA	MCL issued LOI for supply of 35,48,000 Tonnes/Annum vide letter dated:12.11.2018.		EXP. DURING 2017-18	2099.15
START UP POWER AGREEMENT	Not Applicable		EXP. DURING 2018-19	1495.18
POWER EVACUATION SYSTEM	Power evacuation with 3 Nos 400KV feeders are ready with extension of existing 400 kV switch yard of Stage- IV.		EXP. DURING 2019-20	1032
LAND POSSESSION	85 Acres land is available within plant boundary for Main plant & facilities and green belt. This is extension project being constructed in the available land of Dr. NTTPS Project.		EXP. DURING 2020-21 EXP. DURING 2021-22	585 773.5
WATER ALLOCATION	Irrigation department vide letter dt:05.03.2015 agreed to supply 25 Cusecs water from Krishna river upstream of Prakasam barrage, Vijayawada.		EXP. in May '22	52.04
MOEF CLEARANCE	MoEF issued clearance for imported coal vide letter dated:26.06.2015 and the same was revised vide letter dt:11.04.2019.		TOTAL EXPENDITURE (UPTO 31.05.2022)	6844.19
CIVIL AVIATION CLEARANCE	Aviation clearance was obtained vide letter dated:15.10.2012			
CPCB CLEARANCE	CPCB clearance is Not Applicable.			
SPCB CLEARANCE	APCB issued consent for establishment vide letter dated:28.09.2015 and the same amended vide letter dt:07.03.2020			
FOREST CLEARANCE	Forest Clearance is Not applicale.			

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL /ANTICIPATED)				MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL			
Sl.	MILESTONE	UNIT-08		Sl.	Packages	UNIT-08	% Completion
		Original Date of Completion	Actual/Anticipated Date of Completion	1	BOILER	Civil works Structural works	97.3 89
1	COMPLETION OF BOILER FOUNDATION	15.11.2016	20.06.2017	2	TG	Civil works Structural works Pressure Parts	89.2% 95.23% 97%
2	START OF BOILER ERECTION	25.10.2016	22.05.2017	3	ESP	Pass status	98%
3	BOILER DRUM LIFTING	NA	NA	4	FGD	Price bid is opened, bid evaluation is under progress.	
4	BOILER CEILING GIRDER LIFTING COMPLETION	06.04.2017	27.12.2017	STATUS OF BOPs			
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	27.03.2018	03.03.2019	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency	% Completion
6	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	16.11.2018	24.10.2019	1	Chimney	M/s BGRESL	97%
7	BOILER LIGHT UP	15.05.2019	28.12.2019	2	Coal Handling Plant	M/s BGRESL (Conveyor package)	50%
8	CHEMICAL CLEANING COMPLETION	12.12.2018	12.03.2020			M/s BGRESL (Wagon Tripler)	80%
9	STEAM BLOWING START	27.12.2019	05.04.2021			M/s BGRESL (Stacker Reclaimer)	45%
10	STEAM BLOWING COMPLETION	09.02.2019	01.06.2021	3	Ash Handling Plant	M/s BGRESL	39%
11	HP PIPING ERECTION START	19.12.2018	10.01.2019	4	Fuel Oil System	M/s BGRESL	100%
12	HP PIPING ERECTION COMPLETION	11.02.2019	15.07.2021	5	Cooling Towers	M/s BGRESL	85%
13	CONDENSER ERECTION START	23.09.2017	22.08.2018	6	CW Pump house & Piping	M/s BGRESL	95%
14	TG ERECTION START	05.12.2018	03.02.2021	7	PT Plant	M/s BGRESL	95%
15	TG BOX UP	24.08.2019	13.06.2021	8	DM Plant	M/s BGRESL	95%
16	START OF OIL FLUSHING	17.06.2020	18.12.2020	9	Air Compressor	M/s BGRESL	90%
17	ROLLING & SYNC.	22.02.2021	07.12.2021 (A)	10	Fire Protection System	M/s BGRESL	70%
18	FULL LOAD	30.04.2019	31.07.2022	11	Switch Yard	M/s BGRESL / M/s Sri Sai Contractors	95%
19	TRIAL RUN	20.04.2019	31.07.2022	12	Station Transformers	M/s BHEL / M/s KSL Contractors	100%
20	COD	14.06.2019	20.09.2022	13	Unit Transformers	M/s BHEL / M/s KSL Contractors	90%
21	PG TEST START AND COMPLETION	11.09.2019	30.09.2022	14	Railway siding	M/s BGRESL	30%
				15	Power Evacuation	Unit-8 Switchyard is extended from existing switchyard of Unit-7 and Power evacuation is proposed through lines on the existing switchyard.	

REASONS OF DELAY:

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

CRITICAL AREA: Completion of CHP & AHP.

STATE SECTOR (SOUTHERN REGION)
YADADRI TPS (5x800 MW)

As on 31.05.2022

Developer-TSGENCO	Zero Date: 17.10.2017	Main Plant Vendor- BHEL (EPC)	Original/ Anticipated COD UNIT-01	Feb 23/Feb 23
			Original/ Anticipated COD UNIT-02	March 23/March 23
			Original/ Anticipated COD UNIT-03	April 23/April 23
			Original/ Anticipated COD UNIT-04	May 23/ May 23
			Original/ Anticipated COD UNIT-05	June 23/ June 23
ADDRESS : -Veerlapalem village, Damercharla Mandal,Nalgonda, Telangana -508208			E-GEN PORTAL: UNIT 01-1200001092, UNIT 02-1200001093, UNIT 03-1200001094, UNIT 04-1200001095, UNIT 05-1200001096	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Coal, Indigenous	ORIGINAL ESTIMATED COST OF THE PROJECT	Rs.25,099.42 Crores. Administrative approval vide 29.08.2015	
COAL COMBUSTION TECHNOLOGY	Supercritical	LATEST ESTIMATED COST	Rs.29,965.48 Crores .Revised administrative approval vide Dt: 23.12.2017	
APPROVAL DATE/NOTICE TO PROCEED (NTP)	04.10.2014 (MoU entered with BHEL)	DATE OF FINANCIAL CLOSURE	M/s REC Ltd vide Lr dt 11-08-2015. M/s PFC Ltd vide Lr dt 19-07-2015.	
ZERO DATE:	LOI was issued to M/s BHEL on EPC (BTG & BOP) basis on 01.06.2015 . Revised LOI issued on Dt:17.10.2017 for considering new norms & impact of GST with zero date as 17.10.2017.	EXP. DURING 2015-16	499.46	
PPA	Power purchase Agreement entered on 11.03.2020 with TSDISCOMS	EXP. DURING 2016-17	59.29	
COAL LINKAGE/FSA	Ministry of Coal vide File No.23014/1/2018-CLD, Dt:15.02.2018 has granted Coal linkage from M/s SCCL for supply of 14 Million MTPA of G9 grade coal.	EXP. DURING 2017-18	941.44	
START UP POWER AGREEMENT	As per clause no.2.2 of PPA ,TSDISCOMS shall provide electrical energy to TSGENCO for construction, start up and maintenance, also for commissioning of the project.	EXP. DURING 2018-19	2129.24	
POWER EVACUATION SYSTEM	400KV Janagaon,Damarcherla, Choutuppal and Dindi.	EXP. DURING 2019-20	2935.56	
LAND POSSESSION	Total Land Required - Acs 2800 (available)	EXP. DURING 2020-21 EXP. DURING 2021-22	4427.54 3582.33	
WATER ALLOCATION	Water Source from river Krishna Qty- 208cuses(i.e.6.60 TMC per year) allotted vide G.O.Ms.No.13,Dt:30.01.2015	EXP. OF May '22	85.93	
MOEF CLEARANCE	EC obtained from MoEF&CC vide Lr.No.J-13012/18/2015-IA.I(T), Dt.29- 06-2017 with a validity of 7 years from the date of issue of MoEF clearance(i.e upto 29.06.2024)	TOTAL EXPENDITURE (UPTO 31.05.2022)	15045.96	
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 Ir.no.F.No.8.07/2015-FC dt.07-07-2015 Subsequent G.O. was issued by Govt. of Telangana vide G.O.Ms.No.38,dtd.30-07-2015 by EFS & T (For) Department			

Reasons for Delay:

1) delay in agency finalization of main plant civil works and boiler erection works, 2) Delay in supply of EOT Cranes, 3) delay in ordering of CPU, 4) The works of YTPS were adversely affected due to Covid-19 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.

Contd...

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)												MAIN PLANT PACKAGE (BTG VENDOR): BHEL							
SI.	MILESTONE	UNIT-01		UNIT-02		UNIT-03		UNIT-04		UNIT-05		SI.	Packages	AREA	UNIT-01	UNIT-02	UNIT-03	UNIT-04	UNIT-05
		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	Original Date of Completion	Actual/Anticipated Date of Completion	Original Date of Completion	Actual/Anticipated Date of Completion				(Percentage Completion)	(Percentage Completion)	(Percentage Completion)	(Percentage Completion)	(Percentage Completion)
		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	1	BOILER	CIVIL STRUCTURE PRESSURE PARTS	100 56.68 62.83	100 62.76 68.96	100 44.88 30.91	100 55.29 45.53	100 42.42 24.8
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	TG	STRUCTURAL TG Deck TG Mech	96.88 100 25	89.53 100 20	94.57 100 0	66.6 100 0	59.11 100 0
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	ESP	UNDER PROGRESS	88.32	85.33	81.45	80	63.83
3	BOILER DRUM LIFTING	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	FGD	YET TO START, Engineering Under Progress					
4	BOILER CEILING GIRDER LIFTING COMPLETION	31.01.21	20.03.21	31.03.21	31.03.21	31.05.21	11.04.21	30.06.21	09.06.21	31.07.21	07.09.21	STATUS OF BOPs							
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	31.01.22	31.03.22	31.03.22	31.03.22	31.05.22	31.05.22	31.07.22	31.07.22	30.09.22	30.09.22	SI.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC- BHEL)	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage Completion)	UNIT-03 (Percentage Completion)	UNIT-04 (Percentage Completion)	UNIT-05 (Percentage Completion)
6	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	15.07.22	15.07.22	15.09.22	15.09.22	15.11.22	15.11.22	15.01.23	15.01.23	15.03.23	15.03.23	1	Chimney	Bygging India Ltd for Unit #1&2 Pharpur for Unit #3&4 Bygging India Ltdfor Unit #5	100%		100%		100%
7	BOILER LIGHT UP	31.07.22	31.07.22	30.09.22	30.09.22	30.11.22	30.11.22	31.01.23	31.01.23	31.03.23	31.03.23	2	Coal Handling Plant (civil) for all 5 units.	Powermech (Conveyor package)	58.89%		Coal Handling Plant (Mech.) for all 5 units	0	
8	CHEMICAL CLEANING	05.09.22	05.09.22	29.09.22	05.11.22	29.10.22	05.01.23	29.11.22	28.02.23	29.12.22	15.04.23			Powermech (Wagon tripler	94.2%			0	
9	STEAM BLOWING START	14.09.22	14.09.22	14.10.22	14.11.22	14.11.22	14.11.23	14.12.22	05.03.23	14.01.23	25.04.23			Powermech (Stacker Reclaimer)	91.2%			21	
10	STEAM BLOWING COMPLETION	14.10.22	14.10.22	14.11.22	30.11.22	14.12.22	30.01.23	14.01.23	14.02.23	14.02.23	15.05.23	3	Ash Handling Plant (civil)	Powermech / Indure	32.76%				
11	HP PIPING ERECTION START	01.04.21	16.09.21	01.05.21	01.01.22	01.06.21	31.05.22	01.07.21	30.06.22	01.08.21	31.07.22	4	Fuel Oil System	Thermosystems	11.31				
12	HP PIPING ERECTION COMPLETION	13.10.22	13.10.22	13.11.22	13.11.22	13.12.22	13.12.22	13.01.23	13.01.23	13.02.23	13.02.23	5	Cooling Towers	NBCC for Unit #1 Gammon for Unit#2 NBCC for Unit#3 Gammon for Unit#4 NBCC for Unit#5	6.84%	22.63%	5.28	6.38	3.43
13	CONDENSER ERECTION START	31.03.21	20.10.21	31.05.21	03.01.22	30.06.21	31.05.22	31.07.21	31.05.22	15.10.21	30.06.22	6	CW Pump house & Piping for all 5 units	CW pump house &channel - BHEL/HES /	87.68%		71		
14	TG ERECTION START	03.05.21	20.12.21	30.06.21	31.01.22	31.08.21	30.06.22	30.10.21	30.06.22	31.11.21	30.07.22	7	PT Plant(CIVIL) PT Plant (Mech.)	SCC/Gaja BHEL/Gaja	66.74% 0				
15	TG BOX UP	31.05.22	30.09.22	31.07.22	30.11.22	31.08.22	28.02.23	30.10.22	31.03.23	30.11.22	30.04.23	8	DM Plant (CIVIL)	SCC/Wipro	80.62%				
16	START OF OIL FLUSHING	30.04.22	30.07.22	31.05.22	30.09.22	31.07.22	30.01.23	30.09.22	28.02.23	30.10.22	30.03.23	9	Air Compressor	HES	98.83%				
17	ROLLING & SYNC.	30.10.22	30.10.22	31.12.22	31.12.22	31.01.23	31.03.23	31.03.23	30.04.23	31.05.23	31.05.23	10	Fire Protection System	BHEL	0				
18	FULL LOAD	15.02.23	15.02.23	15.03.23	15.03.23	15.04.23	15.04.23	15.05.23	15.05.23	15.06.23	15.06.23	11	Switch Yard civil /Mech	Bluechip	65.51% / 31				
19	TRIAL RUN											12	Station Transformers	EIPL/KEPL	98%	96%	97%	92%	87%
20	COD	28.02.23	28.02.23	31.03.23	31.03.23	30.04.23	30.04.23	31.05.23	31.05.23	30.06.23	30.06.23	13	Unit Transformer	EIPL/KEPL					
21	PG TEST START AND COMPLETION	-		-		-		-		-		14	Railway siding		0%				
												15	Power Evacuation	TS TRANSCO/MEIL	72%				

STATE SECTOR (SOUTHERN REGION)

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

As on 31.05.2022

Developer- KPCL	Zero Date: 03.11.2015	Main Plant Vendor-BHEL (EPC Contract-03.11.2015)	Original/Anticipated Trial Run	Feb 2018/ Oct. 2022
ADDRESS : - Yelahanka Combined Cycle Power Plant (YCCPP), Doddballapura Road, Bengalure, Karnataka-560064			E-GEN PORTAL: REGISTRATION STATUS- Yes, Reg No. 1200002031	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	RLNG (Regasified Liquified Natural Gas)		ORIGINAL ESTIMATED COST OF THE PROJECT	1571.18
COAL COMBUSTION TECHNOLOGY	NOT APPLICABLE		LATEST ESTIMATED COST	2055.23
APPROVAL DATE/NOTICE TO PROCEED (NTP)	Approval Date: Government Of Karnataka Order No. EN78PPC2010 Bengaluru dated:05.07.2011		DATE OF FINANCIAL CLOSURE	31.03.2021
ZERO DATE:	LOA Date:03.11.2015 EPC Contractor: M/s BHEL		Exp. during 2015-16	4.87
PPA	Under Process		Exp. during 2016-17	152.89
COAL LINKAGE/FSA	NOT APPLICABLE		Exp. during 2017-18	1050
START UP POWER AGREEMENT	20000 KVA on HT basis vide BESCOM Letter No. CEE/BMAZ-N/SEE(O)/AEE-2/18-19/2473-78 dated:17.11.2018		Exp. during 2018-19	140.93
POWER EVACUATION SYSTEM	220KV 3 lines are ready at outdoor switchyard.		Exp. during 2019-20	171.41
LAND POSSESSION	102 Acres lands are available under DG plant / KPCL. DG plant stopped due to High generating cost & Environmental issues. In the existing land Gas Power Plant is established.		Exp. during 2020-21 Exp. during 2021-22	219.28 263.8
WATER ALLOCATION	15 MLD Tertiary treated plant at JAKKUR is supplying water to YCCP Plant		Exp of May'22	1.74
MOEF CLEARANCE	Approval No : State Level environment impact assessment authority(SEIAA) no SEIAA20IND 2014 DATED 1/9/2015		TOTAL EXPENDITURE (UPTO 31.05.2022)	2243.34
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 dtd 01.09.2015			

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)				MAIN PLANT PACKAGE (BHEL-BTG VENDOR)			
Sl.	MILESTONE	UNIT-01		Sl.	Packages	UNIT-01	% Completion
		Original Date of Completion	Actual/Anticipated Date of Completion	1	BOILER	CIVIL STRUCTURE PRESSURE PARTS	100% 99% 99%
1	COMPLETION OF BOILER FOUNDATION	30/06/2016	14/11/2016	2	TG	CIVIL STRUCTURE PRESSURE PARTS	100% 99% 99%
2	START OF BOILER ERECTION	01.07.2016	09.11.2016	3	ESP	NOT APPLICABLE	
3	BOILER DRUM LIFTING	10.03.2017	07.04.2017	4	FGD	NOT APPLICABLE	
4	BOILER CEILING GIRDER LIFTING COMPLETION	30/11/2016	21/12/2016	STATUS OF BOPs			
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	30/06/2017	27/11/2017	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC-BHEL)	% Completion
6	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	30/06/2017	27/11/2017	1	Chimney	M/s BHEL/ BJCL	100%
7	BOILER LIGHT UP	NA	NA	2	Coal Handling Plant	NOT APPLICABLE	
8	CHEMICAL CLEANING COMPLETION	02.11.2017	May 2022				
9	STEAM BLOWING START	26/10/2017	May 2022				
10	STEAM BLOWING COMPLETION	30/10/2017	June 2022	3	Ash Handling Plant	NOT APPLICABLE	
11	HP PIPING ERECTION START	NA	Sept 2017	4	Fuel Oil System	NOT APPLICABLE	
12	HP PIPING ERECTION COMPLETION	NA	Nov.2021	5	Cooling Towers	M/s BHEL/ BJCL	100%
13	CONDENSER ERECTION START	14/08/2017	Nov.2017	6	CW Pump house & Piping	M/s BHEL/ BJCL	100%
14	TG ERECTION START			7	PT Plant	NOT APPLICABLE	
15	TG BOX UP	30.09.2017 (ST) 30.09.2017 (GT)	Feb 2021 (ST) Sep.2021 (GT)	8	DM Plant	M/s BHEL/ GE (Mechanical work) M/s BHEL/ BJCL (Civil work)	100%
16	START OF OIL FLUSHING ST GT	12/10/2017 09.10.2017	Dec.2020 29/08/2018	9	Air Compressor	M/s BHEL/ELGI (Mechanical work) M/s BHEL/ BJCL (Civil work)	100%
17	ROLLING & SYNC.	16/12/2017	September22	10	Fire Protection System	M/s BHEL (Mechanical work) M/s BHEL/ BJCL (Civil work)	100%
18	FULL LOAD	17/12/2017	Oct. -22	11	Switch Yard	BHEL-TBG	100%
19	TRIAL RUN	07.02.2018	Oct. -22	12	Station Transformers	M/s BHEL/ BJCL (Civil work)	100%
20	COD	01.03.2018	Oct. -22	13	Unit Transformers	M/s BHEL PSSR (Mechanical work) M/s BHEL/ BJCL (Civil work)	100%
21	PG TEST START AND COMPLETION	08.03.2018	Nov.-22	14	Railway siding	NOT APPLICABLE	
				15	Power Evacuation	KPTCL	95

REASONS OF DELAY:

1. The delay is mainly by BHEL EPC contractor due to non-mobilization of required man power & prioritization of works.

CRITICAL AREAS: Waiting for supply of Natural gas from M/s GAIL

STATE SECTOR (SOUTHERN REGION)
ENNORE SEZ STPP (2X660 MW)

As on 31.05.2022

Developer- TANGEDCO	Zero Date: 27.09.2014	Main Plant Vendor-M/S BHEL (EPC)	Original/ Anticipated Trial Run UNIT-01	Nov'17/ Mar '24
			Original/ Anticipated Trial Run UNIT-02	Jan'18/ May'24
ADDRESS : - Voyalur village, Minjur 601203, Thiruvallur Dist. Tamil Nadu			E-GEN PORTAL: Unit 1 No: 1200001984 Unit 2 No: 1200001985	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Coal, Indigenous & Imported		ORIGINAL ESTIMATED COST OF THE PROJECT	Rs.9800.00 Crores
COAL COMBUSTION TECHNOLOGY	Supercritical		LATEST ESTIMATED COST	Rs.9800.00 Crores
APPROVAL DATE/NOTICE TO PROCEED (NTP)	27.09.2014		DATE OF FINANCIAL CLOSURE	Tripartite agreement between TANGEDCO, M/s BHEL (EPC contractor), PFC (Lender) signed on 21.11.16 and Loan agreement between PFC and TANGEDCO signed on 18.01.17.
ZERO DATE:	27.09.2014		EXP. DURING 2016-17	558.04
PPA	State sector project. Hence entire 100% power from this project will be utilized by TAMILNADU		EXP. DURING 2017-18	2276.51
COAL LINKAGE/FSA	Long term Coal Linkage application submitted on 26.02.2010 to Ministry of Coal/Gol/New Delhi for the supply domestic coal. Coal allocation is yet to be received. However MoU has already been signed between MMTC & TANGEDCO on 25.06.2012 for the supply of 100% Import coal for this project. CEA vide their letter dt.19.02.2019 communicated that development of Chandrabila coal block is getting delayed and hence MoP may consider to recommend for accord of Bridge Linkage based on use of blended coal consisting of 50% imported coal and 50% Indigenous Coal for 1x660MW Ennore Expansion project, 2x660MW Udangudi Thermal Power Project Stage I, and 2x660MW Ennore SEZ STPP project. During the standing linkage committee (SLC) meeting held on 24.6.2019 it has been decided that the discussion on the Bridge Linkage will be taken up in the next SLC meeting.		EXP. DURING 2018-19	4688.11
START UP POWER AGREEMENT	By TAGEDCO		EXP. DURING 2019-20	1550.04
POWER EVACUATION SYSTEM	Power will be evacuated from the proposed thermal power station through double circuit 400 KV transmission lines ie. Through 2 Nos. 400 KV lines to 765 KV Pooling Station and 2 Nos. 400 KV lines to ETPS Expansion STPP.		EXP. DURING 2020-21	750.13
LAND POSSESSION	Acquisition of Land does not arise since own Land of TANGEDCO (Out of 1100 acres available at Ash Dyke of NCTPS , only 500 Acres of ash dyke is utilized for the development of the subject project)		EXP. of May '22	16.99
WATER ALLOCATION	Supply of 4 MGD water from CMWSSB obtained. However desalination plant is envisaged in the project.		TOTAL EXPENDITURE (UPTO 31.05.2022)	5710.48
MOEF CLEARANCE	MOEF Letter No. J 13012 / 36/2010-1A.II(T) dt.07.01.2014. Validity extended upto 31.12.2023 as per MoEF Ir. Dt.09.04.2021			
CIVIL AVIATION CLEARANCE	Airport Authority has been addressed to issue NOC vide Letter No: Se/C/P&E/EE/EMC/AEE/C/F.ETPS-SEZTPP/D768 dt 17.4.2010. No Objection certificate issued by Airport Authority of India for the construction of chimney for the proposed Ennore SEZ TPP-2X800MW Project vide Lr.Ref:AAI/SR/NOC/dt 13.5.2010-validity 7 years available. Validity extended upto 13.5.22 vide their letter dt 19.5.17.			
CPCB CLEARANCE	Not applicable			
SPCB CLEARANCE	Consent to establish under Air and water Acts issued by TNPCB vide order 2002229941522 Dt.26.11.2020 extended the validity upto 06.01.2021. Extension of validity upto 31.12.2023 is under process.			
FOREST CLEARANCE	Not applicable			

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)						MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL				
Sl.	MILESTONE	UNIT-01		UNIT-02		Sl.	Packages	AREA	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage Completion)
		Original Date of Completion	Actual/Anticipated Date of Completion	Original Date of Completion	Actual/Anticipated Date of Completion				90% 92.24% 92.24%	90% 82.25% 82.25%
1	COMPLETION OF BOILER FOUNDATION	13.08.15	14.09.17	13.10.15	07.06.18	2	TG	CIVIL STRUCTURE TG Works	35.91% YET TO START	68.95% YET TO START
2	START OF BOILER ERECTION	25.08.15	15.09.17	28.10.15	08.06.18	3	ESP	UNDER PROGRESS	74.98%	62.87%
3	BOILER DRUM LIFTING	NA	NA	NA	NA	4	FGD	FGD Tender Specification is being received from M/s. Desein Pvt Ltd. Civil, Mechanical and C&I specifications are received and the same is under verification. After specification approval from Board/TANGEDCO, Tender for setting up of FGD will be floated.		
4	BOILER CEILING GIRDER LIFTING COMPLETION	28.01.16	30.11.18	28.03.16	16.05.19	STATUS OF BOPs (BHEL-EPC)				
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	28.12.16	15.02.20	27.02.17	29.03.21	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC- BHEL)	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage Completion)
6	BOILER HYDRO TEST (NON- DRAINABLE) COMPLETION	28.04.17	25.08.22	28.06.17	25.09.22	1	Chimney	M/s.Simplex	100% (SHELL RCC)	
7	BOILER LIGHT UP	30.05.17	25.09.23	29.07.17	25.11.23	2	Coal Handling Plant	M/s.Bevcon (Conveyor package supply),M/s.FLSIDTH- Pipe conveyor package	35.25%(Civil works)	
8	CHEMICAL CLEANING	10.06.17	10.10.23	10.08.17	10.12.23			M/L&T: Crusher package supply		
9	STEAM BLOWING START	20.06.17	25.10.23	20.08.17	25.12.23			M/s.Promac : Stacker Reclaimer supply, M/s.Elecon : Vibrating Grizzly feeder supply, M/s.BEML: Dozers supply, M/s.APC: Water system	100% (SCR Civil Work) Supply Stacker Reclaimer - 40% Vibrating Grizzly feeder supply -100% Dozers supply -100%	
10	STEAM BLOWING COMPLETION	15.07.17	25.11.23	15.09.17	25.01.24	3	Ash Handling Plant	M/s.Indure (for supply and erection for mechanical packages) , M/s.Turbo Engineers for Sluury disposal pipes supply M/s.Weir for Slurry pumps supply, M/s.Atlas Copco& M/s.Ingersoll for Compressor supply M/s.Suraj cables for LT cables, M/s.Gem cabs for HT power cable supply, BHEL - BPL for HT motors, M/s.Mahaveer for earthing material supply,M/s.Premier for Cable trays & accessories supply	21.74.% (Civil works)	
11	HP PIPING ERECTION START	27.04.16	-	27.06.16	-	4	Fuel Oil System	M/s.New Fire Engineers Pvt Ltd.	50.5% Civil works	33.7% mechanical
12	HP PIPING ERECTION	27.05.16	25.09.23	27.07.16	25.11.23	5	Cooling Towers	M/s.Simplex (Design – Paharpur)	26.25%	11.23%
13	CONDENSER ERECTION START	27.04.17	05.08.22	20.06.17	25.06.22	6	CW Pump house & Piping	CW Pump House - M/s Cornerstone (De-scoped from M/s.Simplex),CW Piping: BHEL / M/s Vijay Gowtham- (De-scoped from M/s.Simplex)	PH Civil works – 5.2% Piping – 8.52%	
14	TG ERECTION START	10.06.17	25.08.22	10.08.17	15.07.22	7	PT Plant	M/s.Otoklin Global business services for supply and erection package	Civil works – 27.65%	
15	TG BOX UP	27.09.17	15.10.23	27.11.17	15.09.23	8	DM Plant	M/s Cornerstone (De-scoped from M/s.Simplex)	Civil works – 34.25%	
16	START OF OIL FLUSHING	27.10.17	30.10.23	27.12.17	30.09.23	9	Air Compressor	M/s.ELGI Equipments Ltd.	Civil works – 78.96%	
17	ROLLING & SYNC.	27.11.17	25.12.23	27.01.18	25.02.24	10	Fire Protection Sys	BHEL- PE&SD	Civil works - 5%	
18	FULL LOAD	27.10.17	25.01.24	27.12.17	25.03.24	11	Switch Yard	BHEL-TBG (Awarded to Sakthi Kanna Construction Ltd & M/s.Vijay Gowtham- De-scoped from M/s.Simplex)	Civil works – 70.44%	
19	TRIAL RUN	27.11.17	25.03.24	27.01.18	25.05.24	12	Station Transformers	M/s Cornerstone	Civil works – 26.0%	
20	COD	27.01.18	25.03.24	27.03.18	25.05.24	13	Unit Transformers	M/s Cornerstone	Civil works – 25.49%	
21	PG TEST START AND COMPLETION	27.01.18	25.03.24	27.03.18	25.05.24	14	Railway siding	NA	Power will be evacuated from the proposed thermal	

						15	Power Evacuation	TANGEDCO Scope	Power will be evacuated from the proposed thermal power station through double circuit 400 KV transmission lines. Through 2 Nos. 400 KV lines to 765 KV Pooling Station and 2 Nos. 400 KV lines to ETPS Expansion STPP. – Works are under progress
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REASONS OF DELAY :

- 1) Zero date is 27.09.2014, Works commenced at Site on 09.10.2014. Project works temporarily suspended from 07.09.2015 to 18.10. 2016 due to litigation. Work resumed at Site from 19.10.2016. Completion schedule re-fixed to 06.05.2019 (without levy of LD & penalty) due to time loss of 407 day due to court case. Time extension granted from 06.05.2019 to upto 31.08.2020 for U#1 and 31.10.2020 for Unit 2 without prejudice to levy of LD & Penalty clauses. Once again time extension granted from 01.09.2020 to 31.05.2022 for Unit 1 & from 01.11.2020 to 14.08.2022 for Unit 2 without prejudice to levy of LD & Penalty clauses.
- 2) Entire project civil works were awarded to M/s. Simplex. Wherever slow progress of work noticed, BHEL has de scoped the certain works from M/s. Simplex based on TANGEDCO's request, but still the progress is very poor from M/s. Simplex.
- 3) Project activities are slow down since 24th March 2020 due to lock down enforced by GOI in view of COVID-19 outbreak. Permission accorded by Distt Collector (Thiruvallur) for resumption of work at site with only 600 manpower on 25.04.2020. Work resumed by BHEL from 18.05.2020. Project activities affected with limited man power due to complete lockdown from 10.05.2021 to 14.06.2021 & further extended upto 21.06.2021 announced by GoTN. Now BHEL to increase the man power at site to speed up the progress works.

CRITICAL AREA/ ASSISTANCE REQUIRED:

- Long term Coal Linkage application submitted on 26.02.2010 to Ministry of Coal/Gol/New Delhi for the supply domestic coal. Coal allocation is yet to be received. However MoU has already been signed between MMTC & TANGEDCO on 25.06.2012 for the supply of 100% Import coal for this project. CEA vide their letter dt.19.02.2019 communicated that development of Chandrabila coal block is getting delayed and hence MoP may consider to recommend for accord of Bridge Linkage based on use of blended coal consisting of 50% imported coal and 50% Indigenous Coal for 1x660MW Ennore Expansion project, 2x660MW Udangudi Thermal Power Project Stage I, and 2x660MW Ennore SEZ STPP project. During the standing linkage committee (SLC) meeting held on 24.6.2019 it has been decided that the discussion on the Bridge Linkage will be taken up in the next SLC meeting.- FSA is awaited from Ministry of Coal.
- The progress in NDCT -2 is affected from 06.12.19 onwards
- WP 16353 of 2021 filed by the local Village people in the Hon'ble High court of Madras in July 2021 against encroachment of water bodies in Kosathaliyar river due to changes in coal corridor route and sand filling. National Green Tribunal, South Zone has suomotutaken based on the articles from News paper. Work was stopped from 26.07.21 in civil works of external coal handling system area location from TH-1 to PR 30. Case was listed and heard on 11.08.2021, 17.08.21, 19.8.21, 16.9.21, 4.10.21, 22.10.21, 12.11.2021. Last hearing on 26.11.2021 is yet to be heard.. Based on the direction of Hon'ble High court of Madras, sand removal 25000cu.m work & 68 nos piles (Rcc Marine) cutting work completed to restore the water body in to normalcy in Kosathaliyar river.
- Based on the orders of Hon'ble NGT in OA No 162 of 2021 and in connection with the Joint Committee inspection held at Site on 23.08.2021 and further meeting held on 24.08.2021 at Tiruvallur Collectorate. JAC has submitted their report during Sep'2021. JAC has directed that before commencement of further external coal handling system area location from TH-1 to PR 30 in the Kosathaliyar river, necessary revised approval of coal corridor for the existing route shall be obtained from MoEF.
- Getting approval from concerned authorities for the existing route along with an alternate route is under process.

STATE SECTOR (SOUTHERN REGION)

UPPUR STPP (2X800 MW)

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

As on 31.05.2022

Developer-TANGEDCO	Zero Date: Feb'2016	Main Plant Vendor-M/S BHEL	Original/Anticipated COD UNIT-01	01-02-2021/ On Hold *
			Original/ Anticipated COD UNIT-02	01-02-2021/ On Hold *
ADDRESS : - Dist.-Ramnanathapuram, Tamilnadu (623503).			E-GEN PORTAL: REGISTRATION STATUS- NO	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Coal, Indigenous & Imported(MMTC)		ORIGINAL ESTIMATED COST OF THE PROJECT	Rs.12778 Crs
COAL COMBUSTION TECHNOLOGY	Supercritical		LATEST ESTIMATED COST	Not Applicable
APPROVAL DATE/NOTICE TO PROCEED (NTP)	BGT-SE/E/T & H(P)/OT No. 01/ 2015-16. BOP-SE/E/T&H(P)/OT.No.1/2020-21. SWIOP-SE/C/TP/OT.NO.2/2016-17.		DATE OF FINANCIAL CLOSURE	Financial tie up with M/s. PFC
ZERO DATE:	Order placed on M/s. BHEL on 27/02/16.		EXP. DURING 2016-17	16.74
PPA	NOT APPLICABLE. State sector project.		EXP. DURING 2017-18	226.62
COAL LINKAGE/FSA	MOU entered with M/s. MMTC for supply of imported Coal of 5.02 MTPA on 25.05.2015		EXP. DURING 2018-19	1594.15
START UP POWER AGREEMENT	230KV/11 Karaigudi Feeder		EXP. DURING 2019-20	924.32
POWER EVACUATION SYSTEM	765 KV		EXP. DURING 2020-21	366.61
LAND POSSESSION	Land required for the project is under TANGEDCO Possession. EPC Contracts awarded to M/s. BHEL & M/S L&T has been suspended as per the NGT(SZ), Chennai Judgment dated 17.03.2021, delivered on Appeal No. 144 of 2016(SZ) filed in the designated court for a period of six months or until further orders		EXP. OF May 22	NIL
WATER ALLOCATION	Tamil Nadu Maritime Board has issued NOC for Construction of Jetty for drawal and discharge of cooling water, vide 27.4.2015.		TOTAL EXPENDITURE (UPTO 31.05.22)	2298
MOEF CLEARANCE	Ministry of Environment and Forest has accorded clearance for the above Project on 18.05.2016.			
CIVIL AVIATION CLEARANCE	Clearance expired on 21.11.2019. Clearance further extended upto 21.11.2024.			
CPCB CLEARANCE	NOT APPLICABLE. State sector project.			
SPCB CLEARANCE	CRZ committee of MOEF recommended the Project on 28.1.16 and MOM published in web site on 8.2.16.			
FOREST CLEARANCE	NOT APPLICABLE			

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

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

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)						MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL				
Sl.	MILESTONE	UNIT-01		UNIT-02		Sl.	Packages	AREA	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage 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	TG	CIVIL STRUCTURE PRESSURE PARTS	23% 55% 1%	30% 31% NIL
2	START OF BOILER ERECTION	03.06.18		03.06.18		3	ESP	UNDER PROGRES	14%	6%
3	BOILER DRUM LIFTING	NA		NA		4	FGD	CONTRACT YET TO BE AWARDED		
4	BOILER CEILING GIRDER LIFTING COMPLETION					STATUS OF BOPs (M/s L&T)				
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	22.07.19		22.07.19		Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC-BHEL)	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage Completion)
6	BOILER HYDRO TEST (NON- DRAINABLE) COMPLETION	20.01.20	Not available	20.01.20		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.
7	BOILER LIGHT UP	12.02.20		12.02.20		2	Coal Handling Plant			
8	CHEMICAL CLEANING	19.03.20		19.03.20						
9	STEAM BLOWING START	16.04.20		16.04.20						
10	STEAM BLOWING COMPLETION	16.04.20		16.04.20		3	Ash Handling Plant			
11	HP PIPING ERECTION START	19.12.19		19.12.19		4	Fuel Oil System			
12	HP PIPING ERECTION COMPLETION	16.12.19		16.12.19		5	Cooling Towers			
13	CONDENSER ERECTION START	22.01.20		22.01.20		6	CW Pump house & Piping			
14	TG ERECTION START	19.03.20		19.03.20		7	PT Plant			
15	TG BOX UP	13.02.20		13.02.20		8	DM Plant			
16	START OF OIL FLUSHING	19.03.20		19.03.20		9	Air Compressor			
17	ROLLING & SYNC.	06.05.20		06.05.20		10	Fire Protection System			
18	FULL LOAD	03.06.20		03.06.20		11	Switch Yard			
19	TRIAL RUN					12	StationTransformers			
20	COD	01.02.21		01.02.21		13	UnitTransformer			
21	PG TEST START AND COMPLETION	01.02.21		01.02.21		14	Railway siding			
		-		-		15	Power Evacuation			

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.

STATE SECTOR (SOUTHERN REGION)
NORTH CHENNAI STPP STAGE III (1X800MW)

As on 31.05.2022

Developer-TANGEDCO	Zero Date:29.01.2016	Main Plant Vendor-M/S BHEL (BTG)	Original/ Anticipated Trial Run UNIT-08	April'2019/ Nov.'2022
ADDRESS : - NCTPP Stage III, Athipattu village, Ponneri Tk, Thiruvallur Dt, Chennai - 600 120.			E-GEN PORTAL: REGISTRATION STATUS- YES. REG No. : 1200002174	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (IN CR.)	
FUELTYPE	Coal, Indigenous & Imported(MMTC)		ORIGINAL ESTIMATED COST OF THE PROJECT	Rs.6376 crores.
COAL COMBUSTION TECHNOLOGY	Super critical		LATEST ESTIMATED COST	Rs.8722.86 crores
APPROVAL DATE/NOTICE TO PROCEED (NTP)	BTG : SE/E/T & H (P)/ OT No. 02/2015-16 ; BOP : SE/E/T & H (P) OT No.04/2015-16		DATE OF FINANCIAL CLOSURE	In-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.
ZERO DATE:	BTG : 29.01.2016 BOP : 28.10.2016		EXP. DURING 2012-13	0.2058
PPA	NOT APPLICABLE. Statesector project.		EXP. DURING 2013-14	0.3955
COAL LINKAGE/FSA	MOU has been entered with M/s. MMTC for supply of Imported coal of 2.51 MTPA on 25.05.2015. Ministry of Coal recommended for long term coal linkage for 1.971 MT Indigenous coal to Singareni collieries. Execution of FSA is under finalization between TANGEDCO and SCL. FOR SUPPLY OF Imported Coal of 2.51 MTPA		EXP. DURING 2014-15	0.1294
START UP POWER AGREEMENT	Start up Power Arrangement is through 230 KV level by ine-In-Line-out of NCTPS 1 to Ennore Feeder. Station Transformer was charged on 05.09.2020.		EXP. DURING 2015-16	0.2529
POWER EVACUATION SYSTEM	Power Evacuation is through 765 KV DC feeder to the proposed North Chennai Pooling Station and 765 KV DC link line feeder to the proposed Ennore Replacement Power Plant and the same is being established by TANTRANSO.		EXP. DURING 2016-17	198.08
LAND POSSESSION	The proposed site is within the existing NCTPS complex and land is already under possession of TANGEDCO.		EXP. DURING 2017-18	929.75
WATER ALLOCATION	The raw water requirement for this project will be met from existing cooling water fore-bay of NCTPS, Stage-II. The make-up water for cooling water, boiler make up and other sweet water requirements are to be met from desalination plant under construction for this project. Construction water from M/s. CMWSSB available to the contractor from 07.01.2017.		EXP. DURING 2018-19	2243.52
MOEF CLEARANCE	Environmental clearance issued by MoEF on 20.01.2016 valid for a period of seven years.		EXP. DURING 2019-20	2090.62
CIVIL AVIATION CLEARANCE	Chimney constructed for full height and the same was informed to Airports Authority of India.		EXP. DURING 2020-21 EXP. DURING 2021-22	928.95 760.29
CPCB CLEARANCE	NOT APPLICABLE. State sector project.		EXP. In May '22	16.88
SPCB CLEARANCE	Approval has been obtained on 13.04.2017.		TOTAL EXPENDITURE (UPTO 31.05.2022)	7177.74
FOREST CLEARANCE	Not applicable, since the site is not coming under Forest area.			

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)				MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL			
Sl.	MILESTONE	UNIT-01		Sl.	Packages	UNIT-01	% Completion
		Original Date of Completion	Actual/Anticipated Date of Completion				
				1	BOILER	Civil works Structural works Pressure Parts	95% 91.7% 99.6%
1	COMPLETION OF BOILER FOUNDATION	31-10-2016	14-06-2018	2	TG	Civil works Structural works Pressure Parts	100% 98% 96.5%
2	START OF BOILER ERECTION	29.11.2016	30.08.2017	3	ESP	Pass status	100%
3	BOILER DRUM LIFTING	NA	NA	4	FGD	WORK AWARDED on 22.02.2021. DESIGN AND ENGINEERING WORKS UNDER PROGRESS. 12 test pile casted and load test completed. Site grading work under progress.	
4	BOILER CEILING GIRDER LIFTING COMPLETION	11-05-2017	31.07.2018	STATUS OF BOPs-BGRESL/Chennai			
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	28.02.2018	31.12.2019	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency	% Completion
6	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	26.09.2018	August 2022	1	Chimney	M/s BGRESL	97%
7	BOILER LIGHT UP	29.10.2018	Sept. 2022	2	Coal Handling Plant		77%
8	CHEMICAL CLEANING COMPLETION	27.02.2019	Sept. 2022				
9	STEAM BLOWING START	31-12-2018	Sept. 2022				
10	STEAM BLOWING COMPLETION	29-01-2019	Oct. 2022	3	Ash Handling Plant		65%
11	HP PIPING ERECTION START	24-10-2017	25.03.2018	4	Fuel Oil System		95%
12	HP PIPING ERECTION COMPLETION	13-04-2019	July 2022	5	Cooling Towers		85%
13	CONDENSER ERECTION START	29.08.2017	02.01.2019	6	CW Pump house & Piping		80%
14	TG ERECTION START	28.10.2017	25.02.2019	7	PT Plant		82%
15	TG BOX UP	07.11.2018	August 2022	8	DM Plant		85%
16	START OF OIL FLUSHING	29.11.2018	03.11.2020	9	Air Compressor		100%
17	ROLLING & SYNC.	28-02-19	October 2022	10	Fire Protection System		85%
18	FULL LOAD	28.03.2019	November 2022	11	Switch Yard		85%
19	TRIAL RUN	28-04-2019	November 2022	12	Station Transformers	BHEL / PSSR	100%
20	COD	28.07.2019	December 2022	13	Unit Transformers	BHEL / PSSR	91%
21	PG TEST START AND COMPLETION	28-07-2019	December 2022 / January 2023	14	Railway siding	NA	
				15	Power Evacuation	TANTRANSCO	90%

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.

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

STATE SECTOR (SOUTHERN REGION)
UDANGUDI STPP - STAGE-I (2x660MW)

As on 31.05.2022

Developer-TANGEDCO	Zero Date: 07/12/2017	Main Plant Vendor-M/S BHEL (EPC)	Original/ Anticipated Trial Run UNIT-01	Jan'2021/ Oct'2023
			Original/ Anticipated Trial Run UNIT-02	Mar'2021/ Dec 2023
ADDRESS : - Distt. Thoothukudi, Tamil Nadu [TANGEDCO]			E-GEN PORTAL: Yes, Reg. No. Unit-1: 1200002175, Unit -2: 1200002176	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Coal, Indigenous & Imported(Indonesia)		ORIGINAL ESTIMATED COST OF THE PROJECT	Rs.13076.705 Crores
COAL COMBUSTION TECHNOLOGY	Supercritical		LATEST ESTIMATED COST	Rs.13076.705 Crores
APPROVAL DATE/NOTICE TO PROCEED (NTP)	BGT-SE/E/T & H(P)/OT No. 01/ 2015-16. BOP-SE/E/T&H(P)/OT.No.1/2020-21. SWIOP-SE/C/TP/OT.NO.2/2016-17.		DATE OF FINANCIAL CLOSURE	Financial tie up with M/s. PFC
ZERO DATE:	EPC Contract was awarded to M/s. BHEL Crores on 07.12.2017		EXP. DURING 2016-17	Rs.16.74Cr
PPA	NOT APPLICABLE. State sector project.		EXP. DURING 2017-18	Rs.226.62Cr
COAL LINKAGE/FSA	MOU entered with M/s. MMTC for supply of imported Coal of 5.02 MTPA on 25.05.2015		EXP. DURING 2018-19	Rs.1594.15Cr
START UP POWER AGREEMENT	230KV/11 Karaigudi Feeder		EXP. DURING 2019-20	Rs.924.32 Cr
POWER EVACUATION SYSTEM	765 KV		EXP. DURING 2020-21 EXP. DURING 2021-22	Rs.366.61Cr 1711.4
LAND POSSESSION	Land required for the project is under TANGEDCO Possession. EPC Contracts awarded to M/s. BHEL & M/S L&T has been suspended as per the NGT(SZ), Chennai Judgment dated 17.03.2021, delivered on Appeal No. 144 of 2016(SZ) filed in the designated court for a period of six months or until further orders		EXP. of May'22	156.3
WATER ALLOCATION	Tamil Nadu Maritime Board has issued NOC for construction of Jetty for drawal and discharge of cooling water, vide 27.4.2015.		TOTAL EXPENDITURE (UPTO 31.05.2022)	5282.632
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 8.2.16.			
FOREST CLEARANCE	NOT APPLICABLE			

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)						MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL				
Sl.	MILESTONE	UNIT-01		UNIT-02		Sl.	Packages	AREA	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage Completion)
		Original Date of Completion	Actual/Anticipated Date of Completion	Original Date of Completion	Actual/Anticipated Date of Completion					
						1	BOILER	CIVIL STRUCTURE PRESSURE PARTS	79% 67.56% 81.78%	82.13% 65.55% 77.84%
1	COMPLETION OF BOILER FOUNDATION	12-09-2018	10-04-2021	12-11-2018	21-04-2021	2	TG	CIVIL Fabrication STRUCTURE ERECTION	79.17% 54.65% 26.56%	33.78% 19.34% 8.80%
2	START OF BOILER ERECTION	27-09-2018	20-09-2019	27-11-2018	16-09-2019	3	ESP	UNDER PROGRESS	86.14%	88.25%
3	BOILER DRUM LIFTING	-	-	-	-	4	FGD	Works yet to be awarded		
4	BOILER CEILING GIRDER LIFTING COMPLETION	09-02-2019	26-06-2021	09-04-2019	18-06-2021	STATUS OF BOPs (BHEL-EPC)				
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	27-02-2020	30-07-2022	27-04-2020	13-09-2022	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC- BHEL)	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage Completion)
6	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	02-07-2020	07-03-2023	02-09-2020	02-04-2023	1	Chimney	M/s.BHEL/ M/s.Bygging-Civil M/s.BHEL/ M/s.Bygging-Structural Erection	99.00% 26.9%	
7	BOILER LIGHT UP	09-07-2020	15-04-2023	09-09-2020	30-05-2023	2	Coal Handling Plant	M/s. BHEL/ M/s.Annai / GEO Civil	18.9%	
8	CHEMICAL CLEANING	30-07-2020	09-05-2023	30-09-2020	24-06-2023			M/s. BHEL/ M/s.RPP /URC Structural Erection	3.8%	
9	STEAM BLOWING START	13-08-2020	14-09-2023	13-11-2020	29-10-2023			M/s. BHEL/IGG Mechanical Equipment		
10	STEAM BLOWING COMPLETION	03-09-2020	18-10-2023	03-11-2020	03-12-2023	3	Ash Handling Plant	M/s.BHEL/ RPP/Srinic-Civil M/s.BHEL/ M/s.RPP/URC-Structural Erection M/s. BHEL Mechanical Equipment	27.1% -	
11	HP PIPING ERECTION START	30-10-2019	10-10-2022	30-10-2019	25-11-2022	4	Fuel Oil System	M/s.BHEL/ M/s.RPP Civil	54.5%	
12	HP PIPING ERECTION	06-08-2020	27-07-2023	06-10-2020	11-09-2023	5	Cooling Towers	M/s.BHEL/ M/s.Gammon	11.2%	9.0%
13	CONDENSER ERECTION START	15-08-2019	07-10-2022	15-10-2019	22-11-2022	6	CW Pump house & Piping	M/s.BHEL/ M/s.B&B M/s.BHEL/ M/s.Akash Techno	32.4% 58.3%	
14	TG ERECTION START	12-09-2019	27-10-2022	12-11-2019	12-12-2022	7	PT Plant	M/s.BHEL/ M/s.B&B	33.5%	
15	TG BOX UP	30-07-2020	14-08-2023	30-09-2020	29-09-2023	8	DM Plant	M/s.BHEL/ M/s.RPP	19.0%	
16	START OF OIL FLUSHING	30-07-2020	15-08-2023	30-09-2020	30-09-2023	9	Air Compressor	M/s.BHEL / M/s.GDCL	60.6%	
17	ROLLING & SYNC.	12-11-2020	18-10-2023	12-01-2021	-	10	Fire Protection System	M/s. BHEL/ subcontractor	-	
18	FULL LOAD	31-12-2020	24-10-2023	28-02-2021	09-12-2023	11	Switch Yard	M/s. BHEL/ M/s. JK construction	59.8%	
19	TRIAL RUN	07-01-2021	31-10-2023	07-03-2021	15-12-2023	12	Station Transformers	M/s.BHEL / M/s.GDCL	31.4%	
20	COD	25-02-2021	01-12-2023	25-04-2021	29-02-2023	13	Unit Transformers	M/s.BHEL / M/s.GDCL	48.6%	
21	PG TEST START AND COMPLETION	08-04-2021	30-12-2023	08-06-2021	31-03-2024	14	Railway siding	Main vendor/ subcontractor	-	
						15	Power Evacuation	L&T Construction Ltd	67%	

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

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

STATE SECTOR (EASTERN REGION)
SAGARDIGHI TPP, PH-III (1X660 MW)

As on 31.05.2022

Developer- WBPDCCL	Zero Date: 01.07.2020	Main Plant Vendor-M/S BHEL (EPC Contract-27.12.2018)	Original/Anticipated Trial Run UNIT-01	Jan'24/ Jan'24
ADDRESS : - PS-Sagardighi, PO-Manigram, Pin-742237, Block-Sagardighi, Subdivision-Jangipur, District-Murshidabad, West Bengal			E-GEN PORTAL: REGISTRATION STATUS- YES, Registration No. for Unit 5 (660 MW) : 1200002116	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Coal, Indigenous		ORIGINAL ESTIMATED COST OF THE PROJECT	Rs. 3862.65 Cr. (Approved in the State Cabinet held on 23.03.2018.)
COAL COMBUSTION TECHNOLOGY	Supercritical		LATEST ESTIMATED COST	Rs. 4567.316 Cr. (Awaiting Approval)
APPROVAL DATE/NOTICE TO PROCEED (NTP)	Notice to Proceed Date: 01.07.2020 The proposal was approved in the State Cabinet held on 23.03.2018.		DATE OF FINANCIAL CLOSURE	02.01.2017
ZERO DATE:	For Main Plant BTG package has been awarded to Bharat Heavy Electricals Ltd (BHEL) and Award (LOA) dated 27.12.2018		Exp. during 2018-19	70
PPA	Power Purchase Agreement executed with WBSEDCL		Exp. during 2019-20	56.25
COAL LINKAGE/FSA	Coal will be sourced mainly from captive coal mines of WBPDCCL.		Exp. during 2020-21 Exp. during 2021-22	362.47 330.97
START UP POWER AGREEMENT	Start up power shall be obtained from the other running units of the Sagardighi Thermal Power Project.		Exp. of May'22	34.58
POWER EVACUATION SYSTEM	Power Evacuation from the proposed unit shall be done through the existing electrical network consisting of following feeders : (1) 220 KV New Sagardighi –1, (2) 220 KV New Sagardighi-2, (3) 400 KV Farakka-1, (4) 400 KV Farakka-2, (5) 400 KV Parulia- 1, (6) 400 KV Parulia-2, (7) 400 KV Subhashgram, (8) 400 KV Jeerat, (9) 400 KV Baharampore-1, (10) 400 KV Baharampore-2, (11) 400 KV Gokarna-1, (12) 400 KV Gokarna -2.		TOTAL EXPENDITURE (UPTO 31.05.2022)	759.25
LAND POSSESSION	Adequate land is available for the project. (WBPDCCL 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 Mission for Clean Ganga (Ministry of Water Resources, River Development & Ganga rejuvenation, Govt. of India) for drawal of 74.36 cusec of water from river Bhagirathi/Hooghly.			
MOEF CLEARANCE	Environmental clearance vide F. No. J-13012/01/2019-IA. I (T) dated 24.03.2020 accorded by MoEF & CC Govt. of India for new unit No 5 of 660 MW. Validity: Valid for a period of 7 years from the date of its issue to start operations by the power plant.			
CIVIL AVIATION CLEARANCE	NOC for height Clearance vide NOC ID: MALD/EAST/B/100316/175516, Dated: 19.10.2016 obtained from Airports Authority of India. Validity:The certificate is valid upto 7 years from the date of its issue. (This NOC has been issued by Airports Authority of India in pursuance of Govt of India-Ministry of Civil Aviation Order.)			
CPCB CLEARANCE	Not Applicable			
SPCB CLEARANCE	Online application for Grant of Consent to Establish / NoC has been be made to WBPCB on 27.03.2021			
FOREST CLEARANCE	Not Applicable			

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)				MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL			
Sl.	MILESTONE	UNIT-01		Sl.	Packages	UNIT-01	% Completion
		Original Date of Completion	Actual/Anticipated Date of Completion				
1	COMPLETION OF BOILER FOUNDATION	19.04.2021	U/P	2	TG	CIVIL WORKS STRUCTURAL WORKS PRESSURE PARTS	100% 18.74% 1.05%
2	START OF BOILER ERECTION	29.04.2021	27.03.2021	3	ESP	CIVIL WORKS STRUCTURAL WORKS	100% 33.47%
3	BOILER DRUM LIFTING	NA		4	FGD	Not Started yet	
4	BOILER CEILING GIRDER LIFTING COMPLETION	30.12.2021	20.04.2022	STATUS OF BOPs			
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	30.12.2022	-	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC- BHEL)	% Completion
6	BOILER HYDRO TEST (NON- DRAINABLE) COMPLETION	29.05.2023	-	1	Chimney	M/s. BHEL	Detail Engineering in Progress
7	BOILER LIGHT UP	13.06.2023	-	2	Coal Handling Plant	(Conveyor package) : M/s Bengal Tools Limited	Excavation work & Sheet Piling for Twin Wagon Tippler has started.
8	CHEMICAL CLEANING COMPLETION	28.06.2023	-			Twin Wagon Tippler : M/s ThyssenKrupp)	
9	STEAM BLOWING START	13.07.2023	-			Existing Stacker Reclaimer of Stage-II will be used	
10	STEAM BLOWING COMPLETION	12.08.2023	-	3	Ash Handling Plant	M/s. MacawberBeekey Pvt. Ltd.	Detail Engineering in Progress
11	HP PIPING ERECTION START	25.11.2022	-	4	Fuel Oil System	M/s. BHEL	
12	HP PIPING ERECTION COMPLETION	26.08.2023	-	5	Cooling Towers	M/s. Paharpur Cooling Towers Limited	
13	CONDENSER ERECTION START	03.03.2022	30.06.2022	6	CW Pump house & Piping	M/s. BHEL	
14	TG ERECTION START	02.05.2022	10.08.2022	7	PT Plant	Will be used from Existing	Existing from Stage – II Project will be used.
15	TG BOX UP	01.06.2023	-	8	DM Plant		
16	START OF OIL FLUSHING	28.03.2023	-	9	Air Compressor	M/s. BHEL	Detail Engineering is in Progress
17	ROLLING & SYNC.	01.09.2023	-	10	Fire Protection System	M/s. BHEL	
18	FULL LOAD	NP	-	11	Switch Yard	M/s. BHEL	
19	TRIAL RUN	01.01.2024	-	12	Station Transformers	M/s. BHEL	
20	COD	NP	-	13	Unit Transformers	M/s. BHEL	
21	PG TEST START AND COMPLETION	01.07.2024	-	14	Railway siding	Railway siding exists. M/s. Rites will do the modification job for connecting Twin Wagon Tippler for Stage 3.	
				15	Power Evacuation	Power Evacuation from the proposed unit shall be done through the existing electrical network consisting of following feeders : (1) 220 KV New Sagardighi –1, (2) 220 KV New Sagardighi-2, (3) 400 KV Farakka-1, (4) 400 KV Farakka-2, (5) 400 KV Parulia-1, (6) 400 KV Parulia-2, (7) 400 KV Subhashgram, (8) 400 KV Jeerat, (9) 400 KV Baharampore-1, (10) 400 KV Baharampore-2, (11) 400 KV Gokarna-1, (12) 400 KV Gokarna -2.	

REASONS OF DELAY: Nil

CRITICAL AREAS: Nil

ABBREVIATIONS

Sl. No.	Abbreviation	Description
1	AHP	Ash Handling Plant
2	BFP	Boiler Feed Pump
3	BLU	Boiler Light Up
4	BOP	Balance of Plant
5	BTG	Boiler Turbine Generator
6	C&I	Control & Instrumentation
7	CHP	Coal Handling Plant
8	COD	Commercial Operation Date
9	CRH	Cold Re Heat
10	CW System	Cooling Water System
11	DM Plant	De Mineralization Plant
12	EPC	Erection Procurement & Commissioning
13	ESP	Electro Static Precipitator
14	FD Fan	Forced Draft Fan
15	FGD	Flue Gas Desulfurization
16	FL	Full Load
17	FO System	Fuel Oil System
18	FSA	Fuel Supply Agreement
19	GT	Generator Transformer
20	HCSDD	High Concentrated Slurry Disposal
21	HPT	High Pressure Turbine
22	HRH	Hot Re Heat
23	HT	Hydraulic Test
24	ID Fan	Induced Draft Fan
25	IDCT	Induced Draft Cooling Tower
26	LOA	Letter of Award
27	MDBFP	Motor Driven Boiler Feed Pump
28	MGR	Merry Go Round
29	MOEF&CC	Ministry of Environment, Forests & Climate Change
30	NDCT	Natural Draft Cooling Tower
31	PA Fan	Primary Air Fan
32	PPA	Power Purchase Agreement
33	ROW	Right Of Way
34	SBO	Steam Blowing Operation
35	SCR	Selective Catalytic Reduction
36	SG	Steam Generator
37	ST	Station Transformer
38	Synch.	Synchronization
39	TDBFP	Turbine Driven Boiler Feed Pump
40	TG	Turbine Generator
41	WT	Wagon Tippler
42	WTP	Water Treatment Plant
43	UT	Unit Transformer
44	GHP	Gypsum Handling Plant
45	LHP	Limestone Handling Plant