



BROAD STATUS REPORT
AUGUST, 2021
UNDER CONSTRUCTION
THERMAL POWER PROJECTS



Thermal Project Monitoring Division

Central Electricity Authority

New Delhi

Ministry of Power

Government of India

www.cea.nic.in

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

FOREWORD

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

In this context, Thermal Project Monitoring Division, Central Electricity Authority has been bringing out monthly report titled “Broad Status of Thermal Power Projects in the Country”. This report gives year-wise details of thermal power projects commissioned during 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, the milestones achieved as on date etc. are available. The critical issues requiring immediate attention of concerned authorities in the implementation of these thermal power projects have also been highlighted. Construction activities in most of the under construction thermal power projects are moving at a slow pace due to the impact of COVID-19 pandemic.

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

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

Chief Engineer (TPM)

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

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0.0 Overview of under construction TPPs in the country:

As on 31.08.2021

a) All India Installed Capacity (MW)*

Sector	Thermal					Nuclear	Hydro	Res	Grand total
	Coal	Lignite	Gas	Diesel	Total				
State	65931.5	1150	7087.355	236.008	74404.863	0	27114.5	2401.27	103920.633
Private	73573	1830	10598.744	273.701	86275.445	0	3651	96649.74	186576.185
Central	62700	3640	7237.91	0	73577.91	6780	15646.72	1632.3	97636.93
Total	202204.50	6620.00	24924.01	509.71	234258.22	6780.00	46412.22	100683.31	388133.75
In % of Grand Total	52.10	1.71	6.42	0.13	60.36	1.75	11.96	25.94	100

* Taken from Installed Capacity Report NPP/ MoP site.

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

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

* The list of under construction TPP where work is on hold / not likely to be commissioned is at Page No. 23-25.

Further, the details of the same may be seen in the Broad Status report for the month of Jan-21.

https://cea.nic.in/wp-content/uploads/thermal_broad/2021/01/broad_status.pdf

c) Total Under Construction TPPs in the country:

As on 31.08.2021

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

Out of the Supercritical TPPs, Six no. TPPs totaling to 9940 MW (4 in central sector totaling 7300 MW and 2 in state sector totaling 2640 MW) are based on Ultra Super critical technology. The details of the same are given in table 5.1.

1. Capacity Addition during 12th Plan and beyond:

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

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

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

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

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

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

1.4. Thermal Capacity Addition (Target / Achievement) during the FY 2021-22:

Sector	Target (MW)	Achievement (MW)
Central	5400	800
State	4360	0
Private	525	0
Total	10285	800

1.5 Details of TPPs included in Thermal Capacity Addition Target for the FY 2021-22 & Actual Achievement:
(As on 31.08.2021)

Sl. No.	Project Name	Unit No.	Capacity (MW)	Developer / Imp. Agency	State	BTG Supplier	Trial Run anticipated at the Beginning of the year	Trial Run Assessment as per latest Review with CEA/MoP	Capacity Achieved (MW)	Actual Date of Cap. Addition
CENTRAL SECTOR										
1	Barh STPP-I	1	660	NPGCL	Bihar	Boiler: DPSI TG: Power Machine Russia	July'21	Oct'21		
2	Darlipalli STPP St-I	2	800	NTPC	Odisha	Boiler: BHEL TG: Toshiba	Aug'21	-	800	21.07.2021
3	Nabi Nagar TPP	4	250	BRBCL (JV of NTPC & Rly)	Bihar	BTG: BHEL	Aug'21	Oct'21		
4	Rourkela TPP-II Expansion	1	250	NSPCL (JV of NTPC & SAIL)	Odisha	BTG: BHEL	Sep'21	Oct'21		
5	Nabi Nagar STPP	3	660	NPGCL	Bihar	Boiler: BHEL TG: Alstom & Bharat Forge	Oct'21	Dec'21		
6	North Karanpura STPP	1	660	NTPC	Jharkhand	BTG: BHEL	Oct'21	Feb'22		
7	Ghatampur TPP	1	660	NUPPL (JV of NLC & UPRVUNL)	U.P.	Boiler: MHPS TG:Alstom & Bharat Forge	Mar'22	Oct'21		
8	Telangana STPP-I	1	800	NTPC	Telangana	Boiler: BHEL TG: Alstom & Bharat Forge	Mar'22	Jul'22		
9	Barh STPP-I	2	660	NTPC	Bihar	Boiler: DPSI TG: Power Machine Russia	Mar'22	June'22		
Total Central Sector			5400						800	
STATE SECTOR										
1	Suratgarh SCTPP	8	660	RRVUNL	Rajasthan	SG:BHEL(Alstom) TG:BHEL(Siemens)	Jun'21	Sept'21		
2	Sri Damodaran Sanjeevaiah TPP St-II	1	800	APGENCO	Andhra Pradesh	BTG: BHEL	Jul'21	Oct'21		
3	Harduaganj TPS Exp-II	1	660	UPRVUNL	U.P.	Boiler: Toshiba(Doosan) TG:Toshiba(Toshiba)	Jul'21	Oct'21		
4	Bhadradri TPP	4	270	TSGENCO	Telangana	BTG: BHEL	Sep'21	Oct'21		
5	Yelahanka CCPP	GT+ST	370	KPCL	Karnataka	EPC: BHEL	Sep'21	Nov'21		
6	Dr. Narla Tata Rao TPS St-V	1	800	APGENCO	Andhra Pradesh	BTG: BHEL	Oct'21	Dec'21		
7	North-Chennai TPP St-III	1	800	TANGEDCO	Tamil Nadu	Boiler: BHEL(Alstom) TG:BHEL(Siemens)	Dec'21	May'22		
Total State Sector			4360						0	
PRIVATE SECTOR										
1	Tuticorin TPP Stage-IV	1	525	SEPC	Tamil Nadu	Boiler: MEIL (BHEL) TG: MEIL (BHEL)	May'21	Oct'21		
Total Private Sector			525						0	
Total Thermal Capacity			10285						800	

2.1 Thermal Capacity Addition during the Year 2012-13

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

Chhattisgarh	Ratija TPP	SCPL	QJPS, China	QJPS, China	NA	Coal	U-1	50	04-02-13	27-02-13
Gujarat	Mundra Ultra Mega TPP	Tata Power Co.	Dosan	Dosan	May-07	Coal	U-2	800	25-07-12	28-07-12
Gujarat	Mundra Ultra Mega TPP	Tata Power Co.	Dosan	Dosan	May-07	Coal	U-3	800	16-10-12	27-10-12
Gujarat	Mundra Ultra Mega TPP	Tata Power Co.	Dosan	Dosan	May-07	Coal	U-4	800	16-01-13	21-01-13
Gujarat	Mundra Ultra Mega TPP	Tata Power Co.	Dosan	Dosan	Jun-07	Coal	U-5	800	18-03-13	22-03-13
Gujarat	UNO-SUGEN CCPP	Torrent Power Ltd.	Siemens AG, Germany & Siemens India Ltd.	Siemens AG, Germany & Siemens India Ltd.	NA	Gas	Mod-1	382.5	20-01-13	04-04-13
Gujarat	Salaya TPP	ESSAR	Harbin Power	Harbin Power	Nov-07	Coal	U-2	600	13-06-12	15-06-12
Haryana	Jhajjar TPP (Mahatma Gandhi TPP)	CLP Power India Pvt. Ltd.	SEPCOIII, China	SEPCOIII, China	Jan-09	Coal	U-2	660	11-04-12	19-07-12
Jharkhand	Adhunik Power TPP	Adhunik Power Co. Ltd.	BHEL	BHEL	May-09	Coal	U-1	270	19-11-12	21-01-13
Jharkhand	Adhunik Power TPP	Adhunik Power Co. Ltd.	BHEL	BHEL	May-09	Coal	U-2	270	29-03-13	19-05-13
Maharashtra	Bela TTP-I	IEPL	BHEL	BHEL	Dec-08	Coal	U-1	270	20-03-13	18-07-13
Maharashtra	Butibori TPP	Vidarbha Industries Power	Shanghai Electric Company, China	Shanghai Electric Company, China	Dec-09	Coal	U-2	300	17-08-12	04-04-13
Maharashtra	EMCO Warora TPP	EMCO Energy Ltd. (GMR)	Shanghai Electric Company, China	Shanghai Electric Company, China	Sep-09	Coal	U-1	300	07-02-13	19-03-13
Maharashtra	Tirora TPP Ph-I	Adani Power Ltd	SCMEC, China (Babcock, China)	SCMEC, China (BSTG, China)	Feb-08	Coal	U-1	660	11-09-12	23-09-12
Maharashtra	Tirora TPP Ph-I	Adani Power Ltd	SCMEC, China (Babcock, China)	SCMEC, China (BSTG, China)	Feb-08	Coal	U-2	660	25-03-13	30-03-13
Maharashtra	GEPL TPP	GEPL Pvt. Ltd.	Thyssenkrupp Industries India Pvt. Ltd.	China National Automotive Industries International Cooperation	Mar-09	Coal	U-2	60	28-04-12	NA
Maharashtra	GEPL TPP	GEPL Pvt. Ltd.	Thyssenkrupp Industries India Pvt. Ltd.	China National Automotive Industries International Cooperation	Mar-09	Coal	U-1	60	08-09-12	09-05-12
Maharashtra	Amaravathi TPP Ph-I	Indiabulls	BHEL	BHEL	NA	Coal	U-1	270	25-03-13	03-06-13
Madhya Pradesh	Bina TPP	Bina Power Ltd.	BHEL	BHEL	Sep-08	Coal	U-1	250	12-08-12	30-08-12
Madhya Pradesh	Bina TPP	Bina Power Ltd.	BHEL	BHEL	Sep-08	Coal	U-2	250	31-03-13	07-04-13
Madhya Pradesh	Mahan	Essar Power Ltd.	Harbin Power Co. Ltd, China	Harbin Power Co. Ltd, China	NA	Coal	U-1	600	24-02-13	29-04-13
Odisha	Sterlite TPP	Sterlite Energy Ltd.	SEPCOIII, China	SEPCOIII, China	Sep-08	Coal	U-4	600	25-04-12	26-04-12
Odisha	Kamalanga TPP	GMR Chhattisgarh Power Ltd.	Herbin, China	Dong Fang Electric Corp. China	27.05.2009	Coal	U-1	350	29-03-13	25-03-14
Rajasthan	Jallipa- Kapurdi TPP	Raj west power Ltd (JSW)	Dongfang Electric Corp., China	Dongfang Electric Corp., China	Mar-07	Lignite	U-5	135	05-02-13	05-02-13
Rajasthan	Jallipa- Kapurdi TPP	Raj west power Ltd (JSW)	Dongfang Electric Corp., China	Dongfang Electric Corp., China	Apr-07	Lignite	U-6	135	03-03-13	03-03-13
Rajasthan	Jallipa- Kapurdi TPP	Raj west power Ltd (JSW)	Dongfang Electric Corp., China	Dongfang Electric Corp., China	Jun-07	Lignite	U-7	135	16-03-13	16-03-13
Rajasthan	Jallipa- Kapurdi TPP	Raj west power Ltd (JSW)	Dongfang Electric Corp., China	Dongfang Electric Corp., China	May-07	Lignite	U-8	135	28-02-2013	28-02-13
Tamil Nadu	Tuticorin TPP	Ind Barath	Hangzhou Boiler Group Company Limited	Hangzhou Steam Turbine Company Limited	NA	Coal	U-1	150	10-03-2013	07-02-13
Total Private Sector								11187.5		
Total FY 2012-13								20121.8		

2.2 Thermal Capacity Addition during the Year 2013-14

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

Chhattisgarh	Chakabura TPP	ACBIL	Sichuan Chuanguan Boiler Co. China	Siemens Ltd. Baroda	NA	Coal	1	30	28-03-14	30-03-14
Chhattisgarh	Avantha Bhandar TPP	KWPCL	BHEL	BHEL	NA	Coal	1	600	31-03-14	01-04-14
Gujarat	Dgen CCPP	Torrent Power	Siemens AG, Germany & Siemens India Ltd.	Siemens AG, Germany & Siemens India Ltd.	Jul-10	Gas	Block-I	400	12-01-14	NA
Gujarat	Dgen CCPP	Torrent Power	Siemens AG, Germany & Siemens India Ltd.	Siemens AG, Germany & Siemens India Ltd.	Jul-10	Gas	Block-3	400	09-03-14	NA
Maharashtra	Amaravati TPP Ph-I	India bulls Power Ltd	BHEL	BHEL	Nov-09	Coal	2	270	17-02-14	28-03-14
Maharashtra	Nasik TPP Ph-I	India Bulls	BHEL	BHEL	Nov-09	Coal	1	270	25-02-14	29-03-14
Maharashtra	Dhariwal Infrastructure (P) Ltd.TPP	Dhariwal Infra- structure (P) Ltd.	SEC, China	SEC, China	Apr-10	Coal	1	300	03-11-13	13-02-14
Maharashtra	EMCO Warora TPP	GMR EMCO Energy Ltd.	SEC, China	SEC, China	Sep-09	Coal	2	300	27-08-13	01-09-13
Maharashtra	Tirora TPP Ph-II	Adani Power	SCMEC, CHINA	SCMEC, CHINA	Feb-08	Coal	1	660	10-06-13	14-06-13
Maharashtra	Tirora TPP Ph-II	Adani Power	SCMEC, CHINA	SCMEC, CHINA	Feb-08	Coal	2	660	23-03-14	31-03-14
Maharashtra	Butibori TPP Ph-II	Vidarbha Industries Power Ltd	SEC, China	SEC, China	Dec-09	Coal	1	300	19-03-13	28-03-14
Madhya Pradesh	Sasan UMPP	Reliance Power	SEC, China	SEC, China	Jun-08	Coal	3	660	30-05-13	NA
Madhya Pradesh	Sasan UMPP	Reliance Power	SEC, China	SEC, China	Jun-08	Coal	2	660	18-12-13	NA
Madhya Pradesh	Sasan UMPP	Reliance Power	SEC, China	SEC, China	Jun-08	Coal	4	660	25-03-14	12-04-14
Madhya Pradesh	BLA Power(Niwari) TPP	BLA Power Pvt.Ltd	ISGEC	Siemens	NA	Coal	1	45	24-03-12	03-04-12
Odisha	Kamalang TPP	GMR Energy	Herbin, China	Dong Fang Electric Corp. China	Aug-08	Coal	2	350	28-09-13	12-11-13
Odisha	Kamalang TPP	GMR Energy	Herbin, China	Dong Fang Electric Corp. China	Aug-08	Coal	3	350	21-03-14	25-03-14
Punjab	Rajpura TPP	Nabha Power	L&T	L&T	Jul-10	Coal	1	700	24-01-14	01-02-14
Rajasthan	Kawai TPP	Adani Power Ltd.	Electrogen Indra FZE	Shanghai Electric, China	Apr-10	Coal	1	660	28-05-13	31-05-13
Rajasthan	Kawai TPP	Adani Power Rajasthan Ltd.	Electrogen Indra FZE	Shanghai Electric, China	Apr-10	Coal	2	660	24-12-13	31-05-14
Tamil Nadu	Tuticorin Indbarath	Indbarath Ltd	Hangzhou Boiler Group Company Limited	Hangzhou Steam Turbine Company Limited	NA	Coal	2	150	30-12-13	15-03-14
Total Private Sector								11785		
Total FY 2013-14								16767		

2.3 Thermal Capacity Addition during the Year 2014-15

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

Chhattisgarh	Akaltara (Naiyara) TPP	KSK Mahandi Power Co. Ltd	SEC, China	Dong Fang Electric Corp. China	Apr-09	Coal	U-2 (4th)	600	22.08.14	26-08-14
Chhattisgarh	Tamnar (Raigarh) TPP	Jindal Power	BHEL	BHEL	Dec-08	Coal	U-3	600	07.01.15	15-01-15
Chhattisgarh	Tamnar (Raigarh) TPP	Jindal Power	BHEL	BHEL	Dec-08	Coal	U-4	600	26.03.15	NA
Chhattisgarh	Salora TPP	M/s Vandana Vidyut	Cethar Vessels Ltd.	Cethar Vessels Ltd.	Nov-08	Coal	U-1	135	10.04.14	01-05-14
Chhattisgarh	Raikheda TPP	GMR Chhattisgarh Power Ltd.	Doosan Power System India	Doosan Power System India	22.01.2010	Coal	U-1	685	27.02.15	01-06-15
Chhattisgarh	Swastic TPP	ACB India	IJT, Noida	Siemens	29.03.10	Coal	U-1	25	31.03.15	NA
Chhattisgarh	Baradarha TPP (DB Power TPP)	D.B.Power Ltd	BHEL	BHEL	May-10	Coal	U-2	600	24.03.15	26.03.2016
Gujarat	DGEN Mega CCPP	Torrent Energy Ltd	Siemens AG, Germany & Siemens India Ltd.	Siemens AG, Germany & Siemens India Ltd.	02.07.2010	Gas	Module-2	400	23.04.14	NA
Maharashtra	Dhariwal Infracture TPP	Dhariwal Infracture (P) Ltd	SEC, China	SEC, China	28.04.2010	Coal	U-2	300	28.05.14	02-08-14
Maharashtra	Tirora TPP Ph-II	Adani Power Ltd	SCMEC, CHINA	SCMEC, CHINA	05.11.2009	Coal	U-3	660	25.09.14	11-10-14
Maharashtra	Amravati TPP Ph-I	India Bulls	BHEL	BHEL	30.11.09	Coal	U-3	270	29.01.15	03-02-15
Maharashtra	Amravati TPP Ph-I	India Bulls	BHEL	BHEL	30.11.09	Coal	U-4	270	04.03.15	08-03-15
Maharashtra	Amravati TPP Ph-I	India Bulls	BHEL	BHEL	30.11.09	Coal	U-5	270	12.03.15	13-03-15
MP	Nigri TPP	Jaiprakash Power Ventures Ltd	L&T	L&T	23.08.09	Coal	U-1	660	29.08.14	03-09-14
MP	Nigri TPP	Jaiprakash Power Ventures Ltd	L&T	L&T	23.08.09	Coal	U-2	660	17.02.15	21-02-15
MP	Sasan UMPP	Reliance Power Ltd.	Chinese	Chinese	24.06.2008	Coal	U-1	660	21.05.14	27-05-14
MP	Sasan UMPP	Reliance Power Ltd.	Chinese	Chinese	24.06.2008	Coal	U-5	660	24.08.14	26-12-14
MP	Sasan UMPP	Reliance Power Ltd.	Chinese	Chinese	24.06.2008	Coal	U-6	660	19.03.15	27-03-15
Orissa	Derang TPP	JITPL	BHEL	BHEL	26.07.09	Coal	U-1	600	10.05.14	06-06-14
Orissa	Derang TPP	JITPL	BHEL	BHEL	26.07.09	Coal	U-2	600	24.01.15	12-02-15
Punjab	Talwandi Sabo TPP	M/s Sterlite	SEPCO Electric Power Construction Corp., China	SEPCO Electric Power Construction Corp., China	18.07.09	Coal	U-1	660	17.06.14	01-08-14
Punjab	Rajpura TPP (Nabha)	Nabha Power Ltd	L&T	L&T	16.07.10	Coal	U-2	700	06.07.14	01-08-14
TN	Melamaruthur TPP	Coastal Energen	Harbin Power Co. Ltd, China	Harbin Power Co. Ltd, China	06.08.2009	Coal	U-1	600	02.12.14	23-12-14
WB	Haldia TPP-I	Haldia Energy Ltd	Sangai, China	Sangai, China	14.09.11	Coal	U-1	300	14.01.15	28-01-15
WB	Haldia TPP-I	Haldia Energy Ltd	Sangai, China	Sangai, China	14.09.11	Coal	U-2	300	16.02.15	21-02-15
Total Private Sector								13285		
Total FY 2014-15								20830.3		

2.4 Thermal Capacity Addition during the Year 2015-16

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

AP	Lanco Kondapalli Extn. Ph-III (PS)	Lanco Kondapalli Power Co.Ltd	EPC Lanco infratech Limited	EPC Lanco infratech Limited	01.01.2010	Gas	Block-I	371	07.08.15	NA
AP	Lanco Kondapalli Extn. Ph-III (PS)	Lanco Kondapalli Power Co.Ltd	EPC Lanco infratech Limited	EPC Lanco infratech Limited	01.01.2010	Gas	Block-II	371	05.09.15	NA
AP	Vemagiri CCPP-II (PS)	GMR Rajahmundry Energy Ltd.	EPC L&T	EPC L&T	NA	Gas	Block-I	384	12.09.15	NA
AP	Vemagiri CCPP-II (PS)	GMR Rajahmundry Energy Ltd.	EPC L&T	EPC L&T	NA	Gas	Block-II	384	05.10.15	NA
Chhattisgarh	Bandakhar TPP	M/s Maruti Clean (Chhattisgarh) Ltd.	China Western Power Industries Co.Ltd., China	China Western Power Industries Co.Ltd., China	07.06.2011	Coal	U-1	300	19.06.15	NA
Chhattisgarh	Uchpinda TPP	RKM Powergen Pvt. Ltd	MIPP International, China Western	Harbin	01.06.09	Coal	U-1	360	28.10.15	27-11-15
Chhattisgarh	Uchpinda TPP	RKM Powergen Pvt. Ltd	MIPP International, China Western	Harbin	01.06.09	Coal	U-2	360	28.01.16	12-02-16
Chhattisgarh	BALCO TPP	BALCO Pvt Ltd	SEPCO, China	SEPCO, China	01.11.07	Coal	U-1	300	05.06.15	11-07-15
Chhattisgarh	BALCO TPP	BALCO Pvt Ltd	SEPCO, China	SEPCO, China	01.11.07	Coal	U-2	300	24.03.16	30-03-16
Chhattisgarh	Raikheda TPP	GMR	Doosan Power System India	Doosan Power System India	22.01.2010	Coal	U-2	685	28.03.16	NA
MP	Anuppur TPP Ph-I	MB Power(MP)	Lanco Infratech Ltd. (Harbin China)	Lanco Infratech Ltd. (Harbin China)	15.11.2010	Coal	U-1	600	20.04.15	20-05-15
MP	Anuppur TPP Ph-I	MB Power(MP)	Lanco Infratech Ltd. (Harbin China)	Lanco Infratech Ltd. (Harbin China)	15.11.2010	Coal	U-2	600	30.03.16	07-04-16
MP	Seioni TPP Ph-I	Jhabua Power Ltd	BHEL	BHEL	Feb-10	Coal	U-1	600	22.03.16	03-05-16
Orissa	Ind Bharat TPP (Orissa)	Ind Barath	BHEL	BHEL	16.05.2009	Coal	U-1	350	25.02.16	20-07-16
Punjab	Talwandi Sabo TPP	Talwandi Sabo Power Ltd	SEPCO Electric Power Construction Corp., China	SEPCO Electric Power Construction Corp., China	Jul-09	Coal	U-2	660	30.10.15	25-11-15
Punjab	Talwandi Sabo TPP	Talwandi Sabo Power Ltd	SEPCO Electric Power Construction Corp., China	SEPCO Electric Power Construction Corp., China	Jul-09	Coal	U-3	660	29.03.16	25-08-16
Punjab	Goindwal Sahib TPP	GVK Power	BHEL	BHEL	Feb-09	Coal	U-1	270	14.02.16	06-04-16
Punjab	Goindwal Sahib TPP	GVK Power	BHEL	BHEL	Feb-09	Coal	U-2	270	15.03.16	16-04-16
TN	ITPCL TPP	IL&FS TN PC.Ltd	SEPCO-III, China	SEPCO-III, China	15-02-11	Coal	U-1	600	19.09.15	29-09-15
TN	Melamaruthur (Mutiar)	Coastal Energen	Harbin Power Co. Ltd, China	Harbin Power Co. Ltd, China	06-08-09	Coal	U-2	600	02.01.16	15-01-16
UP	Lalitpur TPP	Lalitpur power Generation Co. Ltd	BHEL	BHEL	21.03.2011	Coal	U-2	660	08.01.16	14-10-16
UP	Lalitpur TPP	Lalitpur power Generation Co. Ltd	BHEL	BHEL	21.03.2011	Coal	U-1	660	26.03.16	01-10-15
UP	Prayagraj (Bara) TPP	Prayagraj power Gen. Co. Ltd(J.P.Power Ventures)	BHEL/Alstom	Siemens	22.01.2009	Coal	U-1	660	25.12.15	29-02-16
Total Private Sector								12702.144		
Total FY 2015-16								22457.744		

2.5 Thermal Capacity Addition during the Year 2016-17

State	Project Name	Impl Agency	Boiler	TG	LOA date	Fuel	Unit No	Cap. (MW)	Actual Comm.Date (Full Load)	COD
CENTRAL SECTOR										
Assam	Bongaigaon TPP	NTPC	BHEL	BHEL	05-02-08	Coal	U-2	250	22.03.2017	01-11-17
Maharashtra	Mauda STPP-II	NTPC	BHEL	BHEL	19-03-12	Coal	U-4	660	18.03.2017	18.09.2017
Bihar	Kanti TPS St-II	NTPC	BHEL	BHEL	12-03-10	Coal	U-4	195	24.03.2017	01-07-17
Karnataka	Kudgi TPP	NTPC	Doosan Heavy Ind., Korea	Toshiba	25.01.2012	Coal	U-1	800	25.12.2016	31-07-17
Karnataka	Kudgi TPP	NTPC	Doosan Heavy Ind., Korea	Toshiba	25.01.2012	Coal	U-2	800	23.03.2017	31-12-17
Tripura	Agartala Gas Based Power Project	NEEPCO	Not applicable	Siemens	12.09.2012	Gas	ST-1	25.5	23.08.2016	NA
UP	Unchahar TPS St-IV	NTPC	BHEL	BHEL	05.08.2013	Coal	U-6	500	31.03.2017	30.09.2017
Total CentralSector								3230.5		
STATE SECTOR										
Assam	Namrup CCGT	APGCL	BHEL	BHEL	09.02.2009	Gas	GT	62.25	11.01.2017	NA
Chhattisgarh	Marwa TPS	CSPGCL	BHEL	BHEL	31.12.08	Coal	U-2	500	15.07.2016	31-07-16
Gujrat	Bhavnagar TPP	BECL	BHEL	BHEL	18.02.10	Lignite	U-1	250	16.05.2016	NA
Gujrat	Bhavnagar TPP	BECL	BHEL	BHEL	18.02.10	Lignite	U-2	250	27.03.2017	NA
Karnataka	Yermarus TPP	KPCL	BHEL	BHEL	9.04.2010	Coal	U-2	800	29.03.2017	06-04-17
Maharashtra	Koradi TPP	MSPGCL	L&T	L&T	23.09.09	Coal	U-10	660	28.12.2016	17-01-17
Telangan	Singreni TPP	SCCL	BHEL	BHEL	11.11.2011	Coal	U-2	600	25.11.2016	02-12-16
West Bengal	Sagardighi TPS-II	WBPDCCL	BHEL	BHEL	22.02.2011	Coal	U-4	500	15.12.2016	NA
Total State Sector								3622.25		
PRIVATE SECTOR										
A.P	NCC TPP	NCC	Harbin	Harbin	10-02-12	Coal	U-1	660	12.11.2016	17-11-16
A.P	NCC TPP	NCC	Harbin	Harbin	10-02-12	Coal	U-2	660	15.02.2017	21-02-17
Chhattisgarh	Nawapara TPP	TRN	BGR	BGR	27.06.11	Coal	U-1	300	14.08.2016	19-08-16
Chhattisgarh	Ratija TPP	Spectrum Coal & Power Ltd	QJPS, China	QJPS, China	06.04.13	Coal	U-2	50	10.11.2016	NA
Maharashtra	Nashik TPP, Ph-I	Rattan Power	BHEL	BHEL	4.11.09	Coal	U-2	270	15.02.2017	NA
Maharashtra	Mangaon CCPP	Pioneer Gas Power Ltd (PGPL)	GE, USA	Scoda, Czech	16.12.11	Gas	Block-I	388	14.07.2016	NA
Tamilnadu	ITPCL TPP	ILFS	SEPCO-III, China	SEPCO-III, China	15-02-11	Coal	U-2	600	18.04.2016	30-04-16
Uttarakhand	GAMA CCPP	M/s GAMA Infraprop Ltd.	Gama Infraprop (P) Ltd.	Gama Infraprop (P) Ltd.	29.07.10	Gas	Module-1	225	25.04.2016	NA
Uttarakhand	Kashipur CCPP	M/s. Sravanti Energy Pvt Ltd	Greens Power Equipments (China) Co. Ltd.	HTC, China	30.04.10	Gas	Block-I	225	20.11.2016	NA
Uttar Pradesh	Lalitpur TPP	LPGL	BHEL	BHEL	21.03.2011	Coal	U-3	660	01.04.2016	23-12-16
Uttar Pradesh	Bara TPP	Jaypee	BHEL	BHEL	22.01.2009	Coal	U-2	660	06.09.2016	10-09-16
Total Private Sector								4698		
Grand Total 2016-17								11550.75		

2.6 Thermal Capacity Addition during the Year 2017-18

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

2.7

Thermal Capacity Addition during the Year 2018-19

State	Project Name	Impl Agency	Boiler	TG	LOA date	Fuel	Unit No	Cap. (MW)	Actual Comm.Date (Full Load)	COD
CENTRAL SECTOR										
Assam	Bongaigaon TPP	NTPC	BHEL	BHEL	Feb-08	Coal	U-3	250	10.02.2019	26.03.2019
Bihar	Nabi Nagar TPP	NTPC&BRBCL	BHEL	BHEL	Jan-08	Coal	U-3	250	23.01.2019	26.02.2019
MP	Gadarwara TPP	NTPC	BHEL	BHEL	Mar-13	Coal	U-1	800	13.10.2018	01.06.2019
Maharashtra	Solapur STPP	NTPC	BGR Energy System Ltd. - Hitachi, China	Alstom-Bharat Forge	Mar-12	Coal	U-2	660	Mar-19	30.03.2019
Total Central Sector								1960		
STATE SECTOR										
MP	Shri Singhaji TPP St-II	MPPGCL	L&T & MHI	L&T & MHI	Sep-14	Coal	3	660	14.08.2018	18.11.2018
MP	Shri Singhaji TPP St-II	MPPGCL	L&T & MHI	L&T & MHI	Sep-14	Coal	4	660	26.02.2019	27.03.2019
Telangana	Kothagudem TPS St-VII	TSGENCO	BHEL	BHEL	Jan-15	Coal	1	800	05.10.2018	26.12.2018
Rajasthan	Chhabra TPP Extn	RRVUNL	L&T & MHI	L&T & MHI	Mar-13	Coal	6	660	11.12.2018	02.04.2019
Assam	Lakhwa Replacement Power Project (7x9.965 MW)	APGCL	Wartsila India Pvt. Ltd. and Wartsila Finland OY	Wartsila India Pvt. Ltd. and Wartsila Finland OY	Dec-15	Gas	GT	69.755	14.02.2018 (last unit)	26.04.2018
Total State Sector								2849.755		
PRIVATE SECTOR										
MP	Mahan TPP / Essar Power MP Ltd. / Chinese	Essar Power MP Ltd.	Harbin Power Co. Ltd, China	Harbin Power Co. Ltd, China	Aug-07	Coal	2	600	25.02.2013	07.10.2018
Chhattisgarh	Uchpinda TPP	RKM Power	MIPP International, China Western	Harbin Power Co. Ltd, China	Jun-09	Coal	4	360	06.03.2019	20.03.2019
WB	Dishergarh TPS	IPCL	Chema	Siemens	Oct-10	Coal	1	12	20.07.2012	27.03.2019
Total Private Sector								972		
Grand Total 2018-19								5781.755		

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

2.8 Thermal Capacity Addition during the Year 2019-20

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

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

2.9 Thermal Capacity Addition during the Year 2020-21

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

2.10 Thermal Capacity Addition during the Year 2021-22

State	Project Name	Impl Agency	Boiler	TG	LOA date	Fuel	Unit No	Cap. (MW)	Actual Comm.Date (Full Load)	Trail Run	COD
CENTRAL SECTOR											
Odisha	Darlipalli STPP St-I	NTPC	BHEL	Toshiba	Feb-14	Coal	U-2	800	24.05.2021	21.07.2021	01.09.2021
Total Central Sector								800			
STATE SECTOR								0			
Total State Sector								0			
Grand Total 2021-22								800			

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

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

5.1 Thermal Power Projects under construction in the Country:

(As on 31.08.2021)

S.No.	State	Project Name	Implementing Agency	Boiler Supplier	Turbine Supplier	Technology	LOA Date/ ordered date	Unit No	Cap. (MW)	Org. Ttial Run (TR)	Ant. TR (given by Project Authority)	Exp. In crores.	Till Date
CENTRAL SECTOR													
1	Bihar	Barh STPP-I	NTPC	Doosan	Doosan	Supercritical	Mar-05	U-1	660	Feb-10	Oct-21	19169	Aug-21
								U-2	660	Dec-10	Jun-22		
								U-3	660	Oct-11	Jul-23		
2	Bihar	Nabi Nagar TPP	BRBCL(JV of NTPC & RLY)	BHEL	BHEL	Sub critical	Jan-08	U-4	250	Feb-14	Oct-21	8917.95	Aug-21
3	Bihar	Nabi Nagar STPP	NPGCL (Subsidiary of NTPC)	BHEL	Alostham & Bharat Forge	Supercritical	Jan-13	U-3	660	May-18	Dec-21	16096.71	Aug-21
4	Bihar	Buxar TPP	SJVN	L&T	L&T	Supercritical	Jun-19	U-1	660	May-23	May-23	2725.87	Aug-21
								U-2	660	Sep-23	Sep-23		
5	Jharkhand	North Karanpura STPP	NTPC	BHEL	BHEL	Ultra Supercritical	Feb-14	U-1	660	Jun-18	Feb-22	12083.75	Aug-21
								U-2	660	Dec-18	Feb-23		
								U-3	660	Jun-19	Sep-23		
6	Jharkand	Patratu STPP	PVUNL(JV of NTPC & Jharkhand Bidyut Vitran Nigam Ltd.)	BHEL	BHEL	Ultra Supercritical	Mar-18	U-1	800	Jan-22	Mar-24	5392.1	Aug-21
								U-2	800	Jul-22	May-24		
								U-3	800	Jan-23	Oct-24		
7	Odisha	Rourkela PP-II Expansion	NSPCL(JV of NTPC & SAIL)	BHEL	BHEL	Sub critical	May-16	U-1	250	Oct-18	Oct-21	1892.27	Aug-21
8	Uttar Pradesh	Ghatampur TPP	NUPPL (JV of NLC and UPRVUNL)	MHPS	Alostham & Bharat Forge	Supercritical	Aug-16	U-1	660	May-20	Oct-21	12346.08	Aug-21
								U-2	660	Nov-20	Mar-22		
								U-3	660	May-21	Jul-22		
9	Uttar Pradesh	Khurja SCTPP	THDC	L&T MHI	BHEL	Ultra Supercritical	Aug-19	U-1	660	Jul-23	Jan-24	2347.19	Aug-21
								U-2	660	Jan-24	Jul-24		
10	Telangana	Telangana STPP St- I	NTPC	BHEL	Alostham & Bharat Forge	Ultra Supercritical	Feb-16	U-1	800	May-20	Jul-22	8741	Aug-21
								U-2	800	Nov-20	Oct-22		
	TOTAL CENTRAL SECTOR								13740			89711.92	
STATE SECTOR													
1	AP	Dr.Narla Tata Rao TPS St-V	APGENCO	BHEL	BHEL	Supercritical	Dec-15	U-1	800	Apr-19	Dec-21	6253.07	Aug-21
2	AP	Sri Damodaram Sanjeevaiah TPP St-II	APPDCL (JV of APGENCO & ILFS)	BHEL	BHEL	Supercritical	Nov-15	U-1	800	Jun-19	Oct-21	7448.69	Aug-21
3	Rajasthan	Suratgarh SCTPP	RRVUNL	BHEL (Alostham)	BHEL (Siemens)	Supercritical	May-13	U-8	660	Nov-16	Sep-21	10983.52	Aug-21

4	UP	Harduaganj TPS Exp-II	UPRVUNL	Toshiba(Doosan India)	Toshiba(Toshiba JSW)	Supercritical	Sep-15	U-1	660	Dec-19	Oct-21	4603.08	Aug-21
5	UP	Jawaharpur STPP	UPRVUNL	Doosan	Doosan	Ultra Supercritical	Dec-16	U-1	660	Dec-20	Apr-23	6968.02	Aug-21
								U-2	660	Apr-21	Oct-23		
6	UP	Obra-C STPP	UPRVUNL	Doosan India (DPSI)	Doosan India(GE)	Ultra Supercritical	Dec-16	U-1	660	Dec-20	Jul-22	6052.73	Aug-21
								U-2	660	Apr-21	Jan-23		
7	UP	Panki TPS Extn.	UPRVUNL	BHEL	BHEL	Supercritical	Mar-18	U-1	660	Sep-21	Nov-22	2905.26	Aug-21
8	TN	Ennore SCTPP	TANGEDCO	BHEL	BHEL	Supercritical	Sep-14	U-1	660	Nov-17	Mar-23	4554.81	Aug-21
								U-2	660	Jan-18	Apr-23		
9	TN	North Chennai TPP St-III	TANGEDCO	BHEL(Alstom)	BHEL(Siemens)	Supercritical	Jan-16	U-1	800	Apr-19	May-22	6595.56	Aug-21
10	TN	Uppur Super Critical TPP*	TANGEDCO	BHEL	BHEL	Supercritical	Feb-16	U-1	800	Nov-19	On hold	2298	Aug-21
								U-2	800	Nov-19	On hold		
11	TN	Udangudi STPP Stage I	TANGEDCO	BHEL	BHEL	Supercritical	Dec-17	U-1	660	Jan-21	May-23	3976.49	Aug-21
								U-2	660	Mar-21	Jul-23		
12	Telangana	Bhadrachari TPP	TSGENCO	BHEL	BHEL	Sub critical	Mar-15	U-4	270	Sep-17	Oct-21	7478.78	Aug-21
13	Telangana	Yadadri TPS	TSGENCO	BHEL	BHEL	Supercritical	Oct-17	U-1	800	Oct-20	Feb-23	11977.3	Aug-21
								U-2	800	Oct-20	Mar-23		
								U-3	800	Jun-21	Apr-23		
								U-4	800	Jun-21	May-23		
								U-5	800	Oct-21	Jun-23		
14	Karnataka	Yelahanka CCPP	KPCL	BHEL	BHEL	Sub critical	Nov-15	GT+ST	370	Feb-18	Nov-21	2030.14	Aug-21
15	Maharashtra	Bhusawal TPS	MAHAGENCO	BHEL	BHEL	Supercritical	Jan-18	U-6	660	May-22	Dec-22	2535.5	Aug-21
16	West Bengal	Sagarighi Thermal Power Plant Ph-III	WBPCL	BHEL	BHEL	Supercritical	Dec-18	U-1	660	Jan-24	Jan-24	497.65	Aug-21
Total State Sector									17220			84458.56	
PRIVATE SECTOR													
1	TN	Tuticorin TPP St-IV	SEPC	MEIL (BHEL)	MEIL (BHEL)	Sub critical	Jan-14	U-1	525	Sep-18	Oct-21	3646.39	Aug-21
	Total Private Sector								525			3646.39	
	Grand Total								31485			177816.87	

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

Presently, CMD has accorded approval on 27.08.2021 to form a high committee comprising of three directors and four Chief Engineers to restudy the shifting of UPPUR Project.

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

S. No	State	Project Name / Impl. Agency/ EPC or BTG	LOA Date/ ordered date	Unit No	Cap. (MW)	Org. Comm. Sched.	Present Status/Remarks	Original Cost	Latest Cost (cr)	Exp. (cr)	Exp Till Date
CENTRAL SECTOR											
1	Rajasthan	Barsingar TPP ext/NLC/Reliance Infra/Chinese	Nov-16	U-1	250	May-20	Project put on hold due to withdrawal of PPA by DISCOM	2112.59	2112.59	158.25	Jan-21
2	Rajasthan	Bithnok TPP /NLC/Reliance Infra/ Chinese	Nov-16	U-1	250	May-20	Project put on hold due to withdrawal of PPA by DISCOM	2196.3	2196.3	173.82	Jan-21
TOTAL CENTRAL SECTOR					500						
STATE SECTOR											
1	TN	Ennore exp. SCTPP/ Tangedco/ BTG Lanco (DEC-CHINA)	May-14	U-1	660	Jan-18	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					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 3rd October 2019 & currently under NCLT	16190	27080	18730	Dec-16
			Apr-09	U-5	600	Aug-13					
			Apr-09	U-6	600	Dec-13					
5			Mar-11	U-3	300	Mar-14		5058	7940	3828	Jun-15

	Chhattisgarh	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 Resolution Plan being considered	6886	10815.24	9537.79	Dec-16
			Nov-09	U-4	660	Mar-12					
7	Chhattisgarh	Singhitara TPP / Athena Chhattisgarh Power Ltd. BTG -DEC china	Dec-09	U-1	600	Nov-14	Admitted to NCLT on 15.05.2019 The Liquidator is underprocess and making efforts for Sale as a going concern.	6200	8443.79	6408.47	May-17
			Dec-09	U-2	600	Feb-15					
8	Chhattisgarh	Salora TPP / Vandana Vidyut/ Boiler-Cether 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 No compliant resolution plan were received, hence no resolution has been implemented. The liquidator may explore for sale of company as a going concern under the liquidation process after receipt of the liquidation order from the NCLT.	2900	3120	3120	Nov-12
			Dec-09	U-2	270	May-12					
11	Jharkhand	Matrishri Usha TPP Ph-II / CorporatePower Ltd. EPC-BHEL	Mar-11	U-3	270	Oct-12		3182	3182	2207	Sep-12
			Mar-11	U-4	270	Jan-13					
12	Jharkhand	Tori TPP Ph-I / Essar Power Ltd. BTG- Harbin China	Aug-08	U-1	600	Jul-12	Liquidation Order date 18.12.2019 The Liquidator has initiated the e-auction process for realizing the assets of the Corporate Debtor and till date has sold around 15,000 MT of Fabricated Steel Structure from the power plant	5700	5700	4757.92	Jun-17
			Aug-08	U-2	600	Sep-12					
13	Jharkhand	Tori TPP Ph-II / Essar Power Ltd./ BTG- Harbin China	Feb-10	U-3	600	Dec-15		2500	2500	246.65	Mar-15
14	Maharashtra	Amravati TPP Ph-II / Ratan India Power Pvt. Ltd. BTG-BHEL	Oct-10	U-1	270	Jul-14	Company has decided to drop Phase II due to following reasons: a) no new Bids for Long Term PPAs have been coming up in the Market since the last 5 years. b) the revised emission norms under the Environment (Protection) Amendment Rules, 2015 revising, inter alia, emission norms for thermal power plants., drastic changes in the design and equipment of Phase II was required to be carried out. 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.	6646	6646	763.8	Mar-15
			Oct-10	U-2	270	Sep-14					
			Oct-10	U-3	270	Nov-14					
			Oct-10	U-4	270	Jan-15					
			Oct-10	U-5	270	Mar-15					
15	Maharashtra	Nasik TPP Ph-II / Ratan India Nasik Power Pvt. Ltd. BTG-BHEL	Nov-09	U-1	270	Apr-13		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 The Liquidator has initiated for E-Auction Sale as a going concern.	6936	10433	5338	Apr-17
			Nov-09	U-2	660	Nov-14					
17	Maharashtra	Bijora Ghanmukh TPP / Jinbhuvish Power Generation Pvt. Ltd. /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					
	Maharashtra	Shirpur TPP ,Shirpur Power Pvt. Ltd./BTG-BHEL	Nov-11	U-2	150	Apr-15	Liquidation Order date 10.03.2021 7th e-Auction of the company on Slump Sale basis is currently underway	2413	2413	2277.94	Apr-17
19	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					23205						
Grand Total					24365						

**BROAD STATUS
of
UNDER CONSTRUCTION
THERMAL POWER PROJECTS
CENTRAL SECTOR**

BARH STPP STAGE-I, 3x660 MW

**As on 31.08.2021
CENTRAL SECTOR**

Developer- NTPC	Zero Date: Mar'2005	Main Plant Vendor-Power Machines, Russia, M/s TPE, M/s DPSI	Original/Anticipated Trial Run UNIT-01	Feb'2010 / Oct'2021
			Original/ Anticipated Trial Run UNIT-02	Dec'2010 / Jun"2022
			Original/ Anticipated Trial Run UNIT-03	Oct'2011/ Jul'2023
ADDRESS : -NTPC Barh Super Thermal Power Station, Barh, Distt – Patna, Bihar - 803215			E-GEN PORTAL: REGISTRATION STATUS- NO	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE		Coal	ORIGINAL ESTIMATED COST OF THE PROJECT	9647
COAL COMBUSTION TECHNOLOGY		Supercritical	LATEST ESTIMATED COST	21312.11
APPROVAL DATE/NOTICE TO		Feb-05	DATE OF FINANCIAL CLOSURE	21.02.2005
ZERO DATE:		TG: Power Machines, Russia on 14.03.2005. Boiler: Awarded to TPE on 14.03.2005, contract terminated on 14.01.2015; Balance work awarded to DPSI on 30.01.2016. Pressure Parts ordered partially (replacement of DI 59 coils) to GE Power on 15.01.2018.	EXP. DURING 2010-11	921.81
PPA		Bihar (incl. Home state share): 1025 MW, Jharkhand: 202 MW, Orissa: 418 MW, Sikkim: 38 MW and unallocated: 297MW.	EXP. DURING 2011-12	1,286.25
COAL LINKAGE/FSA		Letter of Assurance dtd. 18.11.2010 from CCL, securing 10 MMTPA coal for 03 Units. FSA of Unit-1 (3.333 MMTPA) already signed with CCL(all operative mines, G8-G10) as per MOC PD dtd. 17.07.2013 FSA of Unit-2 & 3 to be signed after commissioning in terms of para 1A(i)of SHAKTI-2017 policy.	EXP. DURING 2012-13	1,384.43
START UP POWER AGREEMENT		Done with PGCIL on 27.01.2020 for 400kV D/C LILO of Kahalgaon- Patna, Barh-Patna & Barh- Gorakhpur lines	EXP. DURING 2013-14	1,581.22
POWER EVACUATION SYSTEM		400kV D/C LILO of Kahalgaon-Patna, Barh-Patna & Barh-Gorakhpur D/c lines (incl. stage 2)	EXP. DURING 2014-15	568.49
LAND POSSESSION		Required - 3212 Acres, Under Possession - 3212 Acres	EXP. DURING 2015-16	1143.46
WATER ALLOCATION		100 Cusec from River Ganges	EXP. DURING 2016-17	1410.21
MOEF CLEARANCE		11.09.2001	EXP. DURING 2017-18	1389.43
CIVIL AVIATION CLEARANCE		09.08.2004	EXP. DURING 2018-19	1453.89
CPCB CLEARANCE		Not Applicable	EXP. DURING 2019-20	1502.47
SPCB CLEARANCE		Consent to Operate (Emission & Discharge) Granted by SPCB on 04.07.2017, Fior Unit#1, and is Valid upto 30.09.2021	EXP. DURING 2020-21	1123.15
FOREST CLEARANCE		Not Applicable	EXP. OF Aug'21	159
			TOTAL EXPENDITURE (UPTO 31.08.2021)	19169

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL/ANTICIPATED)								MAIN PLANT PACKAGE (BTG VENDOR):					
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% 83% 90%	85% 50% 72%
1	COMPLETION OF BOILER FOUNDATION	Complete						2	TG	CIVIL STRUCTURE TG ERECTION	100%	97% 97% 71%	95% 97% 47%
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% 10%	95%	95%
								4	FGD	CIVIL WORK MATERIAL SUPPLY ERECTION WORK	20.5% Damper assembling i/p.	10% 21% Yet to start	10% 17% 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	Dec'2021	Apr'2010	Nov'2022	2	Coal Handling Plant	L&T (Conveyor package)	85%		
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	Feb'2022	Sep'2010	Mar'2023	3	Ash Handling Plant	Melco	65%		
11	HP PIPING ERECTION START							4	Fuel Oil System	Techno	100%	85%	
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	PTPlant	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	85%		
17	ROLLING & SYNC.	Mar'2009	Sep'2020(A)	Jan'2010	Apr'2022	Nov'2010	May'2023	10	Fire Protection System	Minimax	100.00%	61%	
18	FULL LOAD	-	Apr'2021(A)	-	May'2022	-	Jun'2023	11	Switch Yard	BHEL	100%		
19	TRIAL RUN	Feb'2010	Oct 2021	Dec'2010	Jun''2022	Oct'2011	Jul'2023	12	StationTransformers	ABB	100%		
20	COD							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.
- 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

BRBCL Nabinagar TPP (4x250MW)

As on 31.08.2021
CENTRAL SECTOR

Developer- BRBCL (JV OF NTPC&RLY)	Zero Date:22.01.2008	Main Plant Vendor-M/S BHEL (BTG)	Original/ Actual COD UNIT-01 Original/ Actual COD UNIT-02 Original/ Actual COD UNIT-03 Original/ Anticipated Trial Run UNIT-04	Jun-13 / 15.01.2017 Oct-13 /10.09.2017 Feb-14/ 26.02.2019 FEB 2014 /Oct 2021
ADDRESS : - BRBCL NABINAGAR, Khaira Thana, Dist Aurangabad, Bihar 824303			E-GEN PORTAL: REGISTRATION STATUS- U 1 – 1200000330 , U2 – 1200000331 & U3 - 1200000332	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	COAL		ORIGINAL ESTIMATED COST OF THE PROJECT	Rs 5352.50Crs / 15.02.2007
COAL COMBUSTION TECHNOLOGY	SUB CRITICAL		LATEST ESTIMATED COST	Rs 10,567Crs
APPROVAL DATE/NOTICE TO PROCEED (NTP)	CCEA approval sought on 15.02.2007		DATE OF FINANCIAL CLOSURE	
ZERO DATE:	22.01.2208		Exp. during 2007-08	263.19
PPA	PPA siged with Indian railways for 900MW, PPA signed with GoB for 100MW		Exp. during 2008-09	68.37
COAL LINKAGE/FSA	3.75/5MTPA FSA done, U4 (Last unit) under construction) - FSA yet to sign		Exp. during 2009-10	196.17
START UP POWER AGREEMENT	Already av. (Taken in Dec.'14) Now 3 Unitsunder operation.		Exp. during 2010-11	226.8
POWER EVACUATION SYSTEM	400KV Line NTPP - Sasaram/Pusauli Grid		Exp. during 2011-12	487.13
LAND POSSESSION	1488/1526ACRES Acquired, Balance 38.28 Acres under acquisition		Exp. during 2012-13	1096.68
WATER ALLOCATION	SONE RIVER, 60CUSEC Agreement done.		Exp. during 2013-14	1300.68
MOEF CLEARANCE	All clearance obtained.		Exp. during 2014-15	906.04
CIVIL AVIATION CLEARANCE			Exp. during 2015-16	927.77
CPCB CLEARANCE			Exp. during 2016-17	950.11
SPCB CLEARANCE			Exp. during 2017-18	705.71
FOREST CLEARANCE			Exp. during 2018-19	620.79
			Exp. during 2019-20	399.42
			Exp. during 2020-21	356.48
			EXP. OF Aug'21	24.58
		TOTAL EXPENDITURE (UPTO 31.08.21)	8917.95	

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)				MAIN PLANT PACKAGE (BTG VENDOR):			
Sl.	MILESTONE	UNIT-04		Sl.	Packages	UNIT-04	% Completion
		Original Date of Completion	Actual/Anticipated Date of Completion				
				1	BOILER	Civil works Structural works Pressure Parts	99% 100% 98.23%
1	COMPLETION OF BOILER FOUNDATION	30.10.2011	30.06.2012	2	TG	Civil works Structural works Pressure Parts	100% 99.25% 93.75%
2	START OF BOILER ERECTION	01.11.2011	07.12.2012	3	ESP	Pass status	83.52%
3	BOILER DRUM LIFTING	15.07.2012	16.09.2015	4	FGD	CIVIL WORK MATERIAL SUPPLY ERECTION WORK	6.05% NIL NIL
4	BOILER CEILING GIRDER LIFTING COMPLETION	30.06.2012	25.07.2015	STATUS OF BOPs			
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	30.11.2012	28.04.2019	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency	% Completion
6	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	30.12.2012	28.08.2019	1	Chimney	Bygging India	96%
7	BOILER LIGHT UP	30.04.2013	04.11.2020	2	Coal Handling Plant	Techpro Ltd (Conveyor)	83%
8	CHEMICAL CLEANING	30.05.2013	13.11.2020			Elecon/GPL	100%
9	STEAM BLOWING START	30.08.2013	15.07.2021			Elecon/GPL (Stacker)	70%
10	STEAM BLOWING COMPLETION	30.09.2013	30.07.2021	3	Ash Handling Plant	INDURE	72%
11	HP PIPING ERECTION START	30.08.2013	20.06.2021	4	Fuel Oil System	BHEL/Station Piping	100%
12	HP PIPING ERECTION COMPLETION	10.10.2013	20.07.2021	5	Cooling Towers	Paharpur CT Ltd.	89%
13	CONDENSER ERECTION START	30.11.2012	25.02.2019	6	CW Pump house & Piping	JYOTI	75%
14	TG ERECTION START	30.10.2012	16.01.2019	7	PT Plant	TOSHIBA	98%
15	TG BOX UP	30.07.2013	12.08.2021	8	DM Plant	DRIPLEX	100%
16	START OF OIL FLUSHING	20.08.2013	11.04.2020	9	Air Compressor	BHEL	100%
17	ROLLING & SYNC.	Feb.'14	Sept .2021	10	Fire Protection System	LLYOD	76%
18	FULL LOAD	Feb.'14	Sept .2021	11	Switch Yard	ABB	95%
19	TRIAL RUN	Feb.'14	Oct. 2021	12	Station Transformers	ABB	100%
20	COD	Aug.'14	Nov 2021	13	Unit Transformers	ABB	95%
21	PG TEST START AND COMPLETION	Aug.'2014	Nov 2021	14	Railway siding	RITES	78%
				15	Power Evacuation	PGCIL	100%

REASONS OF DELAY:

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

CRITICAL AREAS:

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

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

As on 31.08.2021
CENTRAL SECTOR

Developer- NPGCL (Subsidiary of NTPC)	Zero Date: 21-01- 2013	Main Plant Vendor-Main Plant SG - M/s BHEL, STG - M/s Alstom-Bharat Forge (GE)	Original/ Actual COD UNIT-01 Original/ Actual COD UNIT-02 Original/ Anticipated Trial Run UNIT-03	May-17/ 06.09.2019 (A) Nov-17/ 23.07.2021 (A) May'2018/ Dec'2021
ADDRESS : -Shivanpur, PO- Ankorha, District- Aurangabad, State- Bihar, PIN- 824303			E-GEN PORTAL: REGISTRATION STATUS- YES, Reg. No 1200000323, 1200000324, 1200000325	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Coal		ORIGINAL ESTIMATED COST OF THE PROJECT	13624.01 Crores (basis Q3 2011-12)
COAL COMBUSTION TECHNOLOGY	Supercritical		LATEST ESTIMATED COST	17304 Crores (Estimate base Q4, 2018)
APPROVAL DATE/NOTICE TO PROCEED (NTP)	41295		DATE OF FINANCIAL CLOSURE	
ZERO DATE:	21-01-2013. Main Plant SG- M/s BHEL, LOA Date: 31-01-2013, STG- M/s Alstom-Bharat Forge (GE), LOA Date: 31- 01-2013		EXP. DURING 2014-15	3305.32
PPA	PPA Signed: Bihar:-1552.5 MW, Jharkhand:- 60 MW, UP:-209 MW, Sikkim :-10 MW, Un-Allocated - 148.5 MW Total Share (Firm + UN-allocated): Bihar :- 1678MW, Jharkhand :- 65 MW, UP:- 226MW, Sikkim:- 11MW		EXP. DURING 2015-16	2697.12
COAL LINKAGE/FSA	Coal linkage agreement from CCL for 7.03 Million Ton Per Annum. FSA signed with CCL on 22.04.2020.		EXP. DURING 2016-17	3070
START UP POWER AGREEMENT	Through 132 KV grid of Bihar State Power Transmission Company Limited (BSPTCL) and South Bihar Power Distribution Company Limited (SBPDCL).		EXP. DURING 2017-18	2265
POWER EVACUATION SYSTEM	Being Executed by PGCIL. 400 kV line from NPGC to GAYA and second line from NPGC to Patna charged.		EXP. DURING 2018-19	1786
LAND POSSESSION	Total land required 2972 acres.		EXP. DURING 2019-20	1,373.21
WATER ALLOCATION	125 CUSEC (water agreement signed on 09.10.2017 with Water Resource Department , Govt of Bihar)		EXP. DURING 2020-21	1249.06
MOEF CLEARANCE	MOEF clearance received on 27.12.10. Clearance for Extension received on 14.01.20 with validity till 25.12.20. Further, Clearance extended for six month till June'21 vide MOEF letter dated 10.12.2020.		EXP. OF Aug'21	46.11
CIVIL AVIATION CLEARANCE	Clearance received on 04.11.09. Re validation of NOC issued Dated 11.11.16 Valid up to 03.11.2021		TOTAL EXPENDITURE (UPTO 31.08.21)	16096.71
CPCB CLEARANCE	NOT APPLICABLE			
SPCB CLEARANCE	Valid up to 30.06.2022 (CTO Granted on 05.03.18.)			
FOREST CLEARANCE	Received dated 13.02.10 (There is no forest land in the Project land)			

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)				MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL & M/s Alstom-Bharat Forge (GE) (30.01.2013)			
Sl.	MILESTONE	UNIT-03		Sl.	Packages	UNIT-03	% Completion
		Original Date of Completion	Actual/Anticipated Date of Completion	1	BOILER	Civil works Structural works	95%
1	COMPLETION OF BOILER FOUNDATION			2	TG	Civil works Structural works Pressure Parts	95%
2	START OF BOILER ERECTION	Jan'2015	Apr'2015	3	ESP	Pass status	93%
3	BOILER DRUM LIFTING	NA	NA	4	FGD	ALL UNITS	13.50%
4	BOILER CEILING GIRDER LIFTING COMPLETION			STATUS OF BOPs			
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	Aug'2016	Jul'2019	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency	% Completion
6	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION		Nov'2020	1	Chimney	M/S Gannon Dunkerely & co. Ltd	87.00%
7	BOILER LIGHT UP	Jul'2017	Dec'2020	2	Coal Handling Plant	M/s TRF Ltd(Conveyor package)	82.00%
8	CHEMICAL CLEANING COMPLETION		Jan'2021				100.00%
9	STEAM BLOWING START	July'2017	Jan'2021				80.00%
10	STEAM BLOWING COMPLETION	Aug'2017	Feb'2021	3	Ash Handling Plant	M/s DCIPS	88.00%
11	HP PIPING ERECTION START	Feb'2016	Feb'2018	4	Fuel Oil System		
12	HP PIPING ERECTION COMPLETION	Nov'2016	May'2018	5	Cooling Towers		85.00%
13	CONDENSER ERECTION START	Feb'2016	June'2017	6	CW Pump house & Piping	Flowserve India controls Pvt Ltd	95.00%
14	TG ERECTION START	Mar'2016	July'2017	7	PT Plant		90.00%
15	TG BOX UP	Apr'2017	June'2018	8	DM Plant		100.00%
16	START OF OIL FLUSHING	Sep'2017	Dec'2018	9	Air Compressor		
17	ROLLING & SYNC.	Nov'2017	Mar'2021	10	Fire Protection System		
18	FULL LOAD	Jan'2018	Nov'2021	11	Switch Yard	M/s BHEL TBG Noida	95.00%
19	TRIAL RUN	May'2018	Dec'2021	12	Station Transformers	M/s GE T&D India Ltd.	66.66%
20	COD	May'2018	Dec'2021	13	Unit Transformers	M/s GE T&D India Ltd.	100.00%
21	PG TEST START AND COMPLETION			14	Railway siding	M/s IRCON International Ltd	90.00%
				15	Power Evacuation	M/s Powergrid	100.00%

REASONS OF DELAY:

1. Readiness of boiler #3 Is Getting Delayed Due To Delay In Receipt Of Balance Material And Further Is Dependent On Supply Of Installation Materials From BHEL.
2. Items against open orders by BHEL from Trichy/Ranipet/ Bhopal etc(ordered 1306 DUs and 92 MDR dispatch being expedited)
3. Delay in balance civil work for SG Unit #2 & 3 And Off-Site Works Agency (M/s Era) Is under Financial Stress and Is in NCLT it is affecting work progress. Part works offloaded and being carried out by other agencies.
4. Delay in readiness of ash handling system as agency (M/s DCIPS)is under financial stress and is in NCLT and under liquidation process it is adversely affectingSupply and work progress. Ordering of balance materials of U#3 Ash handling system being expedited.

CRITICAL AREAS:

NIL

NORTH KARANPURA TPP (3x660 MW)

As on 31.08.2021
CENTRAL SECTOR

Developer- NTPC	Zero Date: 28.02.2014	Main Plant Vendor-BHEL (EPC)	Original/ Anticipated Trial Run UNIT-01	Jun'2018 /Feb' 2022
			Original/ Anticipated Trial Run UNIT-02	Dec'2018 / Feb'2023
			Original/ Anticipated Trial Run UNIT-03	Jun'2019 /Sept '2023
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		Ultra supercritical	ORIGINAL ESTIMATED COST OF THE PROJECT	15389.42
COAL COMBUSTION TECHNOLOGY		41671	LATEST ESTIMATED COST	Not Applicable
APPROVAL DATE/NOTICE TO		BTG (EPC) - BHEL - 28.02.14	DATE OF FINANCIAL CLOSURE	28.01.2014
ZERO DATE:		BTG (EPC) - BHEL - 28.02.14	EXP. DURING 2010-11	8.17
PPA		Jharkhand: 500; Odisha: 396; Bihar: 688; WB: 99; Unallocated: 297. All in MW.	EXP. DURING 2011-12	4.88
COAL LINKAGE/FSA		Letter of Assurance dtd. 24.03.2015 from CCL, securing 7.039 MMTPA coal (G7-G11) for 03 Units.FSA to be signed after commissioning in terms of para 1A(i)of SHAKTI-2017 policy.	EXP. DURING 2012-13	5.75
START UP POWER AGREEMENT		Through ATS - 400 KV NK Chandwa line. Line is under construction. Agreement yet to be done.	EXP. DURING 2013-14	1,362.18
POWER EVACUATION SYSTEM		2 No D/C lines to Chandwa (jharkhand pool) and Gaya	EXP. DURING 2014-15	527.92
LAND POSSESSION		Required - 2364 Acres. Under Possession - 2002 Acres.	EXP. DURING 2015-16	615.73
WATER ALLOCATION		20 Cusec from Garhi River - Raw water drawl agreement signed with DVC on 18.09.2020.	EXP. DURING 2016-17	2199.92
MOEF CLEARANCE		29.11.2004	EXP. DURING 2017-18	2044.46
CIVIL AVIATION CLEARANCE		13.02.2009	EXP. DURING 2018-19	1747.91
CPCB CLEARANCE		Not Applicable	EXP. DURING 2019-20	1762.62
SPCB CLEARANCE		Available. 31.12.01 for Bihar. 11.12.14 for Jharkhand	EXP. DURING 2020-21	1243.28
FOREST CLEARANCE		03.11.2015	EXP. OF Aug '21	56
			TOTAL EXPENDITURE (31.08.2021)	12084

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)								MAIN PLANT PACKAGE (BTG VENDOR):					
Sl.	MILESTONE	UNIT-01		UNIT-02		UNIT-03		Sl.	Packages	AREA	UNIT-01 (Percentage Completion)	UNIT-02 (Percentage Completio)	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% 90% 99%	89% 86% 99%	78% 95% 33%
1	COMPLETION OF BOILER FOUNDATION	Complete						2	TG	CIVIL STRUCTURE PRESSURE PARTS	96% 99% NA	92% 99% NA	91% 85% NA
2	START OF BOILER ERECTION	Aug'2015	Apr'2016(A)	Feb'2016	Jul'2016(A)	Aug'2016	Jun'2017(A)	3	ESP	UNDER PROGRESS	94%	90%	53%
3	BOILER DRUM LIFTING	N/A						4	FGD	CIVIL WORK MATERIAL SUPPLY ERECTION WORKS	17% 28% 2%	5%	4%
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	Jan'2023	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)	-	Jan'2023	1	Chimney	M/s BHEL	99%	73%	85%
7	BOILER LIGHT UP	Aug'2017	Dec'2020(A)	Feb'2018	Mar'2022	Aug'2018	Jul'2023	2	Coal Handling Plant	M/s BHEL (Conveyor package)	62% ERECTION, 22% EQUIPMENT		
8	CHEMICAL CLEANING									M/s BHEL (Wagon Tripler	NA		
9	STEAM BLOWING START									M/s BHEL(Stacker Reclaimer)	45%		
10	STEAM BLOWING COMPLETION	Oct'2017	Feb'2021(A)	Apr'18	May'2022	Oct'2018	Jul'2023	3	Ash Handling Plant	M/s BHEL	51%		
11	HP PIPING ERECTION START							4	Fuel Oil System	M/s BHEL	100%		
12	HP PIPING ERECTION							5	Cooling Towers	M/s BHEL	90%		
13	CONDENSER ERECTION START	May'2016	Nov 2018(A)	Nov'2016	Jan'2020(A)	May'2017	Dec'2021	6	CW Pump house & Piping	M/s BHEL	NA		
14	TG ERECTION START	Jul'16	Nov'2017(A)	Jan'2017	Jan'2018(A)	Jul'2017	Dec'2021	7	PT Plant	M/s BHEL	75%		
15	TG BOX UP	Jun'2017	Aug'2019(A)	Dec'2017	Nov' 2021	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	Dec'2021	Jun'2018	Jan'2023	Dec'2018	Aug'2023	10	Fire Protection System	M/s BHEL	100%		
18	FULL LOAD	Feb'2018	Jan'2022	Aug'2018	Feb'2023	Feb'2019	Aug'2023	11	Switch Yard	BHEL-TBG/ Arun Construction Technico India Pvt. Ltd.	95%		
19	TRIAL RUN	Jun'2018	Feb 2022	Dec'2018	Feb'2023	Jun'2019	Sept'2023	12	Station Transformers	M/s BHEL	95%		
20	COD							13	Unit Transformers	M/s BHEL	10%		
21	PG TEST START AND COMPLETION							14	Railway siding	Main vendor/ subcontractor	NA		
								15	Power Evacuation	Awarded on TBCB to NKTL	IN PROGRESS		

REASONS OF DELAY:

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

CRITICAL AREAS:

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

DARLIPALLI THERMAL POWER STATION (2X800 MW)

As on 31.07.2021
CENTRAL SECTOR

Developer NTPC	Zero Date: FEB 2014	Main Plant Vendor- M/s BHEL,M/s L&T, Toshiba JSW JV	Original/Actual COD UNIT-01	Aug'2018/01.03.2020
			Original/ Actual Trial Run UNIT-02	Aug'2018/21.07.2021(A)
ADDRESS : - NTPC Darlipalli, Darlipali Ujalpur Road, Mahikani, Odisha 770072			E-GEN PORTAL: REGISTRATION STATUS-YES, 1200000715, 1200000717	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Coal	ORIGINAL ESTIMATED COST OF THE PROJECT	13140.91	
COAL COMBUSTION TECHNOLOGY	Supercritical	LATESTESTIMATED COST	Not Applicable	
APPROVAL DATE/NOTICE TO PROCEED (NTP)	01-Feb-14	DATE OF FINANCIAL CLOSURE	16.01.2014	
ZERO DATE:	SG - BHEL - Feb-14, TG - Toshiba JSW JV - Feb-14	EXP. DURING 2010-11	0.89	
PPA	Odisha– 800, West Bengal – 249.50, Bihar – 161.20, Jharkhand – 125.48, Sikkim – 23.81 and Unallocated: 240. All in MW.	EXP. DURING 2011-12	33.49	
COAL LINKAGE/FSA	Linked with Dulanga Captive coal mine (PRC - 7 MMTPA); Bridge Linkage against the linked captive mine from MCL & SECL, valid upto March 2022 (FY 21-22 Qty: MCL 0.104 MMT, SECL-0.03 MMT)	EXP. DURING 2012-13	290.24	
START UP POWER AGREEMENT	Done with PGCIL on 28.10.2016 through Darlipali- Sundargarh 765KV D/C line	EXP. DURING 2013-14	622.7	
POWEREVACUATION SYSTEM	Darlipali STPP-Sundargarh pool 765kV D/C Line	EXP. DURING 2014-15	461.1	
LAND POSSESSION	Required - 2000 Acres, Under Possession - 2000 Acres	EXP. DURING 2015-16	1691.4	
WATERALLOCATION	55 Cusec from Hirakud Reservoir in Mahanadi river	EXP. DURING 2016-17	2335.17	
MOEF CLEARANCE	17.02.2014 Valid upto 17.02.2022	EXP. DURING 2017-18	2065.12	
CIVIL AVIATION CLEARANCE	28.12.2011	EXP. DURING 2018-19	1598.28	
CPCB CLEARANCE	Not Applicable	EXP. DURING 2019-20	1824.56	
SPCB CLEARANCE	28.02.2014	EXP. DURING 2020-21	775.27	
FOREST CLEARANCE	13.10.2014	EXP. OF Jul'21	99	
		TOTAL EXPENDITURE (UPTO 31.07.21)	12085	

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)				MAIN PLANT PACKAGE (BTG VENDOR):				
Sl.	MILESTONE	UNIT-02		Sl.	Packages	UNIT	% Completion	
		Original Date of Completion	Actual/Anticipated Date of Completion					
1	COMPLETION OF BOILER FOUNDATION	COMPLETED		2	BOILER	UNIT-02	100%	
2	START OF BOILER ERECTION	Oct'2015	Jul'2015(A)	3	TG	UNIT-02	100%	
3	BOILER DRUM LIFTING	NA		4	ESP	UNIT-02	100%	
4	BOILER CEILING GIRDER LIFTING COMPLETION	COMPLETED		5	FGD UNIT-01&02	CIVIL WORK MATERIAL SUPPLY ERECTION WORK	35% 75% 18%	50% 75% 15%
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	-	-	STATUS OF BOPs				
6	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	Apr'2017	Mar'2018(A)	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency	% Completion	
7	BOILER LIGHT UP	Jan'2018	Oct'2019(A)	1	Chimney	L&T	100%	
8	CHEMICAL CLEANING			2	Coal Handling Plant	TPL	100%	
9	STEAM BLOWING START						100%	
10	STEAM BLOWING COMPLETION	Apr'2018	Jan'2021(A)	3	Ash Handling Plant	Indure	100%	
11	HP PIPING ERECTION START			4	Fuel Oil System	BHEL	100%	
12	HP PIPING ERECTION COMPLETION			5	Cooling Towers	L&T Sunil Hitech	100%	
13	CONDENSER ERECTION START	Sep'2016	Sep'2016(A)	6	CW Pump house & Piping		100%	
14	TG ERECTION START	Dec'2016	Mar'2017(A)	7	PT Plant	Triveni	100%	
15	TG BOX UP	Nov'2017	Feb'2019(A)	8	DM Plant	Triveni	100%	
16	START OF OIL FLUSHING			9	Air Compressor	BHEL	100%	
17	ROLLING & SYNC.	Jun'2018	Mar'2021(A)	10	Fire Protection System	Consilium	100%	
18	FULL LOAD	Aug'2018	24.05.2021 (A)	11	Switch Yard	GE	100%	
19	TRIAL RUN	Aug'2018	21.07.2021 (A)	12	Station Transformers	CGL	100%	
20	COD		01.09.2021(A)	13	Unit Transformers	CGL	100%	
21	PG TEST START AND COMPLETION			14	Railway siding	IRCON	30%	
				15	Power Evacuation	GE	100%	

REASONS OF DELAY:

1. Transmission line of Make up water pump house could not be completed due to ROW issues. 122/335 foundations could only be completed as villagers are not accepting compensation decided by Distt. Administration.
2. Delay in acquisition of land for railway siding/MGR and ROU for MUW line last patch of 14.25 acres land received in March 21
3. Slow progress in civil works CW and MUW system Sunil Hitech agency under NCLT
4. Delay in readiness of HP system M/s Indore
5. Slow progress in HD package by M/sBHEL
6. Delay due to ongoing COVID-19 pandemic since March 20 Non-availability of industrial oxygen during second wave

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

As on 31.08.2021
CENTRAL SECTOR

Developer- NTPC	Zero Date: 05.02.2016	Main Plant Vendor-M/S BHEL & M/s GE	Original/ Anticipated Trial Run UNIT-01	May'2020/July '2022
			Original/ Anticipated Trial Run UNIT-02	Nov'2020/Oct 2022
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		ORIGINAL ESTIMATED COST OF THE PROJECT	10997.7
COAL COMBUSTION TECHNOLOGY	Ultra-supercritical		LATEST ESTIMATED COST	Not Applicable
APPROVAL DATE/NOTICE TO PROCEED (NTP)	Jan-16		DATE OF FINANCIAL CLOSURE	29.01.2016
ZERO DATE:	SG Island - BHEL - 05.02.16; TG Island - GE - 05.02.16		EXP. DURING 2015-16	6.34
PPA	1360 MW power has been allocated to Telangana. Balance 240 MW is unallocated.		EXP. DURING 2016-17	798.21
COAL LINKAGE/FSA	Linked with Mandakini-B captive coal mine (PRC-20 MMTPA); however, NTPC has approached MOC on 26.12.2020 for surrendering the coal mine. Tapering linkage against the linked coal mine was initially allocated from WCL cost-plus. In July'2020, the linkage has been shifted to SCCL. Coal quantity 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 accomodated within land in possession of NTPC Ramagundam project. No new land acquired for the project.		EXP. DURING 2020-21	1308.35
WATER ALLOCATION	60 cusecs from Yellampally Barrage on Godavari river		EXP. OF Aug'21	60
MOEF CLEARANCE	20.01.2016, Valid upto 19.01.2024		TOTAL EXPENDITURE (UPTO 31.08.2021)	8741
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):				
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				(Percentage Completion)	(Percentage Completion)
						1	BOILER	CIVIL STRUCTURE PRESSURE PARTS	85% 74% 71%	85% 73% 72%
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	Dec'2017(A)	3	ESP	UNDER PROGRESS	92%	91%
3	BOILER DRUM LIFTING	Not Applicable				4	FGD	CIVILWORK MATERIAL SUPPLY ERECTION WORK	92% 100% 77%	91% 100% 55%
4	BOILER CEILING GIRDER LIFTING COMPLETION	Completed				STATUS OF BOPs				
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	Nov'2018	Sept'2021	May'2019	Dec'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	-	Nov'2021	-	Feb'2022	1	Chimney	BHEL	63%	
7	BOILER LIGHT UP	Jun'2019	Feb'2022	Dec'2019	May'2022	2	Coal Handling Plant	TATA Projects	60%	
8	CHEMICAL CLEANING									
9	STEAM BLOWING START	-	Feb'2022	-	May'2022					
10	STEAM BLOWING COMPLETION	Sep'2019	Mar'2022	Mar'2020	Jun'2022	3	Ash Handling Plant	BHEL	62%	
11	HP PIPING ERECTION START					4	Fuel Oil System	TATA Projects	97%	
12	HP PIPING ERECTION COMPLETION					5	Cooling Towers	TATA Projects	71%	
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		-	Oct'21	9	Air Compressor	TATA Projects		
17	ROLLING & SYNC.	Nov'2019	Jun'2022	May'2020	Sept'2022	10	Fire Protection System	TATA Projects	72%	
18	FULL LOAD	Jan'2020	Jul'2022	Jul'2020	Oct'2022	11	Switch Yard	TATA Projects	99%	
19	TRIAL RUN	May'2020	Jul'2022	Nov'2020	Oct'2022	12	Station Transformers	TATA Projects	78%	
20	COD					13	Unit Transformers	TATA Projects	80%	
21	PG TEST START AND COMPLETION					14	Railway siding	TATA Projects	30%	
						15	Power Evacuation	Being done by Telangana Transco	90%	

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

PATRATU TPS (3X800 MW)

As on 31.08.2021
CENTRAL SECTOR

Developer- PVUNL (JV of NTPC & Govt. of Jharkhand)	Zero Date: Mar'18	Main Plant Vendor-M/S BHEL (EPC-08.03.18)	Original/ Anticipated Trial Run UNIT-01	Jan'22/Mar'24
			Original/ Anticipated Trial Run UNIT-02	July'22/May'24
			Original/ Anticipated Trial Run UNIT-03	Jan'23/Oct'24
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		ORIGINAL ESTIMATED COST OF THE PROJECT	Rs 18668 Crs including IDC, FC & WCM
COAL COMBUSTION TECHNOLOGY	Ultra Supercritical		LATEST ESTIMATED COST	Not Applicable
APPROVAL DATE/NOTICE TO PROCEED (NTP)	Investment Approval accorded in 11th Board Meeting of PVUNL, dated 30.10.2017 subject to MOEF clearance. MOEF clearance letter received on 07.11.17. Zero date of the project is 07.11.17 as per investment approval accorded		DATE OF FINANCIAL CLOSURE	NP
ZERO DATE:	EPC package awarded to BHEL on 08.03.18.		EXP. DURING 2015-16	4.69
PPA	85% allocated to Jharkhand, PPA signed on 30.03.16. 15% of power will remain as unallocated quota at the disposal of GoI		EXP. DURING 2016-17	127.18
COAL LINKAGE/FSA	12 MTPA for Ph-I from Banhardih Coal Mine at a distance of about 110 km. Banhardi Coal Mine transferred to PVUNL vide deed of adherence signed on 02.06.17. Bridge linkage granted. Allocation date ,sources, grade and quantity .Grade of Coal - G-11/12		EXP. DURING 2017-18	944.23
START UP POWER AGREEMENT	Through 7.5 kms Transmission line: Patratu-Patratu (Main Plant to Katia Substation) D/C Line		EXP. DURING 2018-19	745.41
POWER EVACUATION SYSTEM	Power evacuation voltage is envisaged at 400 kV through: Upcoming Patratu sub station (7.5 KM), Koderma Sub station (160 KM), New Chandil station (150 Km). One 400 KV ISTS also envisaged for connection with nearby ISTS substation at Ranchi/ Namkum (Jharkhand)		EXP. DURING 2019-20	1391.99
LAND POSSESSION	Total land identified for Ph-I is 1234 acres. 1199.03 acres land transferred to PVUNL by Govt of Jharkhand vide sankalp dt 08.09.17.		EXP. DURING 2020-21	1813.96
	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)			
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 Aug'21	49.55
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 31.08.21)	5392.10
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 (EPC-08.03.18)					
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/Anticipat ed Date of Completion						
								1	BOILER	CIVIL STRUCTURE PRESSURE PARTS	79% Civil RCC works completed.	77% Civil RCC works completed.	64% Civil RCC works completed
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	59.4% Civil RCC works completed	63.2% Civil RCC works completed	39% Civil RCC works completed
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	21.40%	39.4%	11%
3	BOILER DRUM LIFTING	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	4	FGD		59% RCC work completed	Yet to start	Yet to start
4	BOILER CEILING GIRDER LIFTING COMPLETION	Feb'20	25.03.21 (A)	Aug'20	30.05.21 (A)	Feb'21	Nov'21	STATUS OF BOPs (BHEL-EPC)					
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	Jan'21	Jun'22	July'21	Aug'22	Jan'22	Nov'22	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	Nov '22	Dec'21	Jan'23	June'22	Apr'23	1	Chimney	PSWR	96%	62%	35%
7	BOILER LIGHT UP	June'21	Nov '22	Dec'21	June'23	June'22	Apr'23	2	Coal Handling Plant	PSWR	24%		
8	CHEMICAL CLEANING	July'21	Dec'22	Jan'22	June'23	July'22	May'23						
9	STEAM BLOWING START	July'21	Mar'23	Jan'22	July'23	Aug'22	Aug'23						
10	STEAM BLOWING COMPLETION	Sept'21	May'23	Mar'22	Sept'23	Oct'23	Oct'23	3	Ash Handling Plant	PSWR	34%		
11	HP PIPING ERECTION START	July'20	Feb'22	Jan'21	July'23	Jan'23	Jul'22	4	Fuel Oil System		21% civil works		
12	HP PIPING ERECTION COMPLETION	May'21	Feb'23	Nov'21	April'23	Dec'23	Jul'23	5	Cooling Towers	ACC is envisaged. ACC Package yet to be awarded by BHEL.	NOT APPLICABLE		
13	CONDENSER ERECTION START	Feb'20	ACC package still not awarded	Aug'20	ACC package still not awarded	Feb'21	ACC package still not awarded	6	CW Pump house Piping	ACC is envisaged. ACC Package yet to be awarded by BHEL.			
14	TG ERECTION START	June'20	Jan'22	Dec'20	May'22	June'21	Jun'22	7	PT Plant	PSWR	6% civil works		
15	TG BOX UP	May'21	Dec'22	Nov'21	May'23	May'22	May'23	8	DM Plant	PSWR	11%		
16	START OF OIL FLUSHING	July'21	Jan'23	Jan'22	June'23	July'22	Jun'23	9	Air Compressor	PSWR	553cum RCC civil work completed		
17	ROLLING & SYNC.	Nov'21	Jan'24	May'22	Mar'24	Nov'22	May'24	10	Fire ProtectionSys.	PESD, Hyderabad	9% civil works		
18	FULL LOAD	Dec'21	Feb'24	June'22	Apr'24	Dec'22	July'24	11	Switch Yard	TBG	60%		
19	TRIAL RUN	Jan'22	Mar'24	July'22	May'24	Jan'23	Oct'24	12	StationTransformer	Bhopal	Work yet to start		
20	COD	March'22	Mar'24	Sept'22	May'24	March'23	Oct'24	13	Unit Transformers	Jhansi	Work yet to start		
21	PG TEST START AND COMPLETION	NP	NP	NP	NP	NP	NP	14	Railway siding	PMC Contractor-M/s RITES	NIL	NIL	NIL
								15	Power Evacuation	To be constructed by JUSNL after approval from GoJ,	Work yet to start		

REASONS OF DELAY:

- Dealy in supply of Boiler structure, main plant house structure, inserts for TG by BHEL
- Delay in award of ACC contract by BHEL
- Reaward of Ash handling package. BHEL has terminated the AH package earlier awardd to M/s L&T. retender NIT done on 23.01.21
- Award of startup power line and balance 2 State transmission utility line by GoJ.

CRITICAL AREA/ ASSSISTANCE REQUIRED:

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

ROURKELA TPP-II EXPANSION (1X 250 MW)

As on 31.08.2021
CENTRAL SECTOR

Developer-NSPCL (JV of NTPC & SAIL)	Zero Date:11.5.2016	Main Plant Vendor-M/S BHEL (BTG)	Original/ Anticipated Trial Run UNIT-01	Oct'2018/ Oct' 2021
ADDRESS : - Rourkela, Dist: Sundargarh, Pin: 769011, Odisha			E-GEN PORTAL: REGISTRATION STATUS- YES, Reg No: U-01:N18000276	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Coal		ORIGINAL ESTIMATED COST OF THE PROJECT	1885.13
COAL COMBUSTION TECHNOLOGY	Subcritical		LATEST ESTIMATED COST	1885.13
APPROVAL DATE/NOTICE TO PROCEED (NTP)	11.05.16		DATE OF FINANCIAL CLOSURE	
ZERO DATE:	11.05.16 EPC agency - M/s BHEL		EXP. DURING 2016-17	237.51
PPA	100% power to be given to SAIL. PPA signed on 09.05.16		EXP. DURING 2017-18	515.81
COAL LINKAGE/FSA	Supply of 1.42 MTPA coal confirmed by SAIL from their Ramnagore Colliery on 29.08.13 and on 14.01.15 advised blending of MCL coal of CPP-II with Ramnagore coal in 50:50 ratio to improve coal quality.		EXP. DURING 2018-19	448.96
START UP POWER AGREEMENT	Startup power to be taken from 220 KV Power evacuation route.		EXP. DURING 2019-20	354.67
POWER EVACUATION SYSTEM	Evacuation at 220 KV level. Work up to switchyard in scope of EPC agency (M/s BHEL). Evacuation work after switchyard done by beneficiary (RSP, SAIL)		EXP. DURING 2020-21	249.47
LAND POSSESSION	•80 acres required for main plant is within existing premises of NSPCL. • Dyke 'D' (140 acres) proposed to be used for expansion also.		EXP. OF Aug'21	7.26
WATER ALLOCATION	8 cusec (reduced from 10 cusec, approved on 03.09.13) - Tarkera intake point / Brahamani on 07.06.17 - agreement signed on 24.03.18.			
MOEF CLEARANCE	30.05.15		TOTAL EXPENDITURE (UPTO 31.08.21)	1892.27
CIVIL AVIATION CLEARANCE	04.04.13			
CPCB CLEARANCE	TOR approved (15.3.11) Public hearing done (16.1.13)			
SPCB CLEARANCE	-			

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)				MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL ()		
Sl.	MILESTONE	UNIT-01		Sl.	Packages	% Completion
		Original Date of Completion	Actual/Anticipated Date of Completion	1	BOILER	99.81%
1	COMPLETION OF BOILER FOUNDATION	NP	30.05.2017	2	TG	95%
2	START OF BOILER ERECTION	10.02.2017	30.03.2017	3	ESP	99.16%
3	BOILER DRUM LIFTING	08.06.2017	04.11.2017	4	FGD	98.85%
4	BOILER CEILING GIRDER LIFTING COMPLETION	19.05.2017	NP	STATUS OF BOPs (BHEL-EPC)		
5	BOILER HYDRO TEST (DRAINABLE)COMPLETION	08.01.2018	08.09.2018	Sl.	Packages/ Linked Project Milestones	% Completion
6	BOILER HYDRO TEST (NON- DRAINABLE) COMPLETION	NP	17.11.2020	1	Chimney	Bygging India
7	BOILER LIGHT UP	10.04.2018	19.11.2020	2	Coal Handling Plant	OSM, RVPR, Sriram Enterprises, Vadim Infrastructure Pvt. Ltd. And S C Verghesse(TPS & Conveyors)
8	CHEMICAL CLEANING COMPLETION	26.04.2018	17.01.2021			McNally Bharat & Sayagi, Sriram Enterprises, Vadim Infrastructure Pvt. Ltd. And S C Verghesse(Wagon Tippler)
9	STEAM BLOWING START	NP	12.04.2021			McNally Bharat & Sayagi, Sriram Enterprises, Vadim Infrastructure Pvt. Ltd. And S C Verghesse(Stacker/Reclaimer)
10	STEAM BLOWING COMPLETION	10.06.2018	20.04.2021	3	Ash Handling Plant	M/s S N Singh
11	HP PIPING ERECTION START	10.09.2017	14.11.2017	4	Fuel Oil System	BHEL, PSER and Trichy/B & R Co. (I) Ltd.
12	HP PIPING ERECTION COMPLETION	10.04.2018	09.04.2021	5	Cooling Towers	Hammon (I), Powertronix & Nuvotronix
13	CONDENSER ERECTION START	10.07.2017	28.12.2017	6	CW Pump house & Piping	Golden Age, Powertronix & Nuvotronix
14	TG ERECTION START	10.09.2017	27.11.2018	7	PT Plant	Ion Exchange, Powertronix & Nuvotronix
15	TG BOX UP	10.05.2018	26.03.2021	8	DM Plant	Ion Exchange, Powertronix & Nuvotronix
16	START OF OIL FLUSHING	16.05.2018	19.01.2021 and completed on 16.03.2021	9	Air Compressor	Elgi, Powertronix & Nuvotronix
17	ROLLING & SYNC.	10.08.2018	04.09.2021	10	Fire Protection System	Powertronix & Nuvotronix
18	FULL LOAD	10.09.2018	October, 2021	11	Switch Yard	DAKESWARI ENTERPRISES&S.N.SINGH.
19	TRIAL RUN	10.10.2018	October, 2021	12	StationTransformer	POWERTRONICS
20	COD	10.11.2018	December, 2021	13	Unit Transformers	POWERTRONICS
21	PG TEST START AND COMPLETION	NA	January 2022	14	Railway siding	Laxmi Enterprises
				15	Power Evacuation	RSP

REASONS OF DELAY:

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

CRITICAL AREA/ ASSISTANCE REQUIRED:

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

GHATAMPUR THERMAL POWER PROJECT (3 X 660 MW)

As on 31.08.2021
CENTRAL SECTOR

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 / Oct'2021
			Original/ Anticipated Trial Run UNIT-02	27.11.2020/ Mar' 2022
			Original/ Anticipated Trial Run UNIT-03	29.05.2021 / July'2022
ADDRESS : -NEAR VILLAGE LAHURIMAU-KASIMPUR, GHATAMPUR TEHSIL, P.O.: SAMUHI-209206, KANPUR NAGAR DISTRICT, UTTAR PRADESH			E-GEN PORTAL: REGISTRATION STATUS- 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		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: 1. 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 funtional.		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	2,253.18
LAND POSSESSION	Total Requirement -1024 Ha , Under possession: 1006 Ha		EXP. of Aug'21	159.50
WATER ALLOCATION	80 cusec from UP Irrigation department (44.6 km from GTPP)		TOTAL EXPENDITURE (UPTO 31.08.21)	12346.08
MOEF CLEARANCE	Clearance obtained date from concerned authority:- 17.06.2015 validity of it (If any):- 7 Years			
CIVIL AVIATION CLEARANCE	Clearance obtained date from concerned authority:- 13.12.2013 validity of it (If any):- 5 Years, NUPPL had sent compliance to AAI regarding the NoC condition, AAI Reply is awaited.			
CPCB CLEARANCE	NOT APPLICABLE			
SPCB CLEARANCE	Clearance obtained date from concerned authority:- 17.11.2017 validity of it (If any):- 5 Years			
FOREST CLEARANCE	NOT APPLICABLE			

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)								MAIN PLANT PACKAGE (BTG VENDOR):					
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	89.4%	71.26%	60.47%
1	COMPLETION OF BOILER FOUNDATION	01-01-2017	17-03-2017 (A)	01-07-2017	21-08-2017 (A)	28-12-2017	29-01-2021 (A)	2	TG	CIVIL STRUCTURE PRESSURE PARTS	96%	83%	58%
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	99%	85%	43%
3	BOILER DRUM LIFTING	NA	NA	NA	NA	NA	-	4	FGD	Expected Date of LoA issue: June 2021			
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.	80.67%		
7	BOILER LIGHT UP	30-11-2019	-	30-05-2020	30-09-2021	30-11-2020	31-01-2022	2	Coal Handling Plant	BGR Energy System Ltd.	61.73%		
8	CHEMICAL CLEANING	30-10-2019	24-07-2021(A)	30-04-2020	05-11-2021	30-10-2020	15-02-2022						
9	STEAM BLOWING START	15-12-2020	01-09-2021	15-06-2020	05-11-2021	15-12-2020	25-03-2022						
10	STEAM BLOWING COMPLETION	30-01-2020	05.09-2021	30-07-2020	30-11-2021	30-01-2021	25.03-2022	3	Ash Handling Plant	BGR Energy System Ltd.	54.68%		
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)	95.04%		
12	HP PIPING ERECTION	10-06-2019	30-08-2021(A)	10-06-2020	05-09-2021	12-06-2020	10-02-2022	5	Cooling Towers	BGR Energy System Ltd	85%	56%	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	CWPump house & Piping	BGR Energy System Ltd	90%		
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%		
15	TG BOX UP	02-07-2019	23-10-2019(A)	02-01-2020	15-05-2021(A)	02-07-2020	31-12-2021	8	DM Plant	BGR Energy System Ltd	95%		
16	START OF OIL FLUSHING	30-11-2019	27-10-2020 (A)	31-05-2020	31-12-2021	30-11-2020	30-04-2022	9	Air Compressor	M/s L&TMHPS Boiler Private Limited-(LMBPL)	99.41%		
17	ROLLING & SYNC.	01-03-2020	25.09.2021	31-08-2020	31-12-2021	01-03-2021	31-03-2022	10	Fire Protection System	BGR Energy System Ltd	48%		
18	FULL LOAD	01-04-2020	01.10.2021	31-10-2020	31.01.2022	01-04-2021	30.04.2022	11	Switch Yard	BGR Energy System Ltd	68%		
19	TRIAL RUN	29-05-2020	25-10-2021	27-11-2020	25-03-2022	29-05-2021	25-07-2022	12	Station Transformers	M/s GE-Power Systems India Pvt. Ltd.-(GE-Power)	100%	40%	NIL
20	COD	01-06-2020	01-11-2021	30-11-2020	31-03-2022	01-06-2021	31-07-2022	13	Unit Transformers	M/s GE-Power Systems India Pvt. Ltd.-(GE-Power)	85%	NIL	NIL
21	PG TEST START AND COMPLETION	01-09-2020	01-02-2022	01-03-2021	30-06-2022	01-09-2021	30-10-2022	14	Railway siding	M/s. RITES	79%		
								15	Power Evacuation	M/s. Ghatampur transmission limited (Adani transmission limited)	1st element - 99% 2nd element -100% 3rd element- 98%		

REASONS OF DELAY:

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

CRITICAL AREA/ ASSISTANCE REQUIRED:

PPA Signing for balance 25% is pending

KHURJA SUPER STPP (2X660 MW)

As on 31.8.2021
CENTRAL SECTOR

Developer-THDC	Zero Date: 29.08.2019	Main Plant Vendor-M/s L&T MHI Power Boilers Pvt. Ltd. (LMB) & BHEL	Original/ Anticipated Trial Run UNIT-01	July 23/ Jan 2024
			Original/ Anticipated Trial Run UNIT-02	Jan 24/ July 2024
ADDRESS : - Khurja Dist. Bulandshahar, Uttar Pradesh -203131			E-GEN PORTAL: REGISTRATION STATUS- YES Reg No. 1200002023, 1200002024	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	COAL		ORIGINAL ESTIMATED COST OF THE PROJECT	Rs.11,089.42 Cr. (Dec-17 PL) investment Approval accorded on 07.03.19.
COAL COMBUSTION	Ultra Supercritical		LATEST ESTIMATED COST	Not Applicable
APPROVAL DATE/NOTICE TO PROCEED (NTP)	CCEA accorded Investment Approval for Khurja STPP in District Bulandshahar of Uttar Pradesh at an estimated cost of Rs.11,089.42 Cr. at Dec-17 PL, on 07.03.2019.		DATE OF FINANCIAL CLOSURE	The Project is being funded with a Debt Equity ratio of 70:30. Equity portion is being arranged by THDCIL from internal resources and Debt portion is being arranged by borrowing through Banks/ Financial Institutions and through issuance of bonds.
ZERO DATE:	Zero Date : 29.08.2019 (with respect to Award of Main Plant Package i.e. Steam Generator & Associated Packages)		EXP. DURING 2016-17	338.92
PPA	PPAs for entire off take-off power to be generated from Khurja STPP have been signed by THCDIL prior to 05.01.2011 with Uttar Pradesh, 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 No.C/CTU/N/05/1200002404 dated.18.03.2020 for evacuation of 528 MW power from Khurja (2x660 MW) STPP to ISTS beneficiaries. Signing of Connectivity agreement is under process. In line with the granted connectivity, power evacuation system is under implementation through Powergrid Corporation Of India Limited and is likely to completed by June-2022.Thereafter THDCIL will request RLDC for availing start up power as per CERC Regulations.		EXP. DURING 2019-20	439.95
POWER EVACUATION SYSTEM	a) Power Evacuation system to ISTS Beneficiaries :- MOU already signed with PGCIL on 26.06.2020 for Implementation of 400 kV Double Circuit alongwith construction of Associated bays at Aligarh Sub-Station for evacuation of Power from Khurja (2x660 MW) STPP. The scope of power evacuation system has been split into two packages namely Sub-station and transmission line package. The status of these two packages is as follows: (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
LAND POSSESSION	Physical possession of total 1200.843 Acres land has been obtained and work is in progress in entire plant land through various main plant packages.		EXP. OF Aug' 21	145.43
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 31.08.2021)	2347.19
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	44% 9% 0%	5% 0.4% 0%
1	COMPLETION OF BOILER FOUNDATION	29.09.2020	20.01.2021	29.03.2021	31.07.2021	2	TG	CIVIL STRUCTURE PRESSURE PARTS	76% 5.5% 0%	42.4% 0% 0%
2	START OF BOILER ERECTION	29.10.2020	20.02.2021	29.04.2021	31.08.2021	3	ESP	UNDER PROGRESS	0%	0%
3	BOILER DRUM LIFTING	NA	NA	NA	NA	4	FGD	CIVIL	82% Of PILING	62% of PILING
4	BOILER CEILING GIRDER LIFTING COMPLETION	28.05.2021	10.07.2021	28.11.2021	30.03.2022	STATUS OF BOPs				
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	29.05.2022	29.11.2022	29.11.2022	29.05.2023	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	---	---	---	---	1	Chimney	M/s L&T MHI Power Boilers Pvt. Ltd	100% of Piling	
7	BOILER LIGHT UP	29.10.2022	29.04.2023	29.04.2023	29.10.2023	2	Coal Handling Plant	Work awarded and process of submission of performance bank guarantee and signing of agreement thereafter is in progress		
8	CHEMICAL CLEANING	29.10.2022	29.04.2023	29.04.2023	29.10.2023					
9	STEAM BLOWING START	---	---	---	---					
10	STEAM BLOWING	29.12.2022	29.06.2023	29.06.2023	29.12.2023	3	Ash Handling Plant	M/s L&T MHI Power Boilers Pvt. Ltd	100 % of Piling	
11	HP PIPING ERECTION START	28.06.2021	28.12.2021	28.12.2021	28.06.2022	4	Fuel Oil System	M/s L&T MHI Power Boilers Pvt. Ltd	0%	
12	HP PIPING ERECTION	26.10.2022	26.04.2023	26.04.2023	26.10.2023	5	Cooling Towers	M/s Paharpur Cooling Towers Ltd.	19.25% of Footing	
13	CONDENSER ERECTION START	02.09.2021	02.03.2022	02.03.2022	02.09.2022	6	CW Pump house & Piping	In tendering process		
14	TG ERECTION START	03.09.2021	03.02.2022	03.03.2022	03.08.2022	7	PT Plant	In tendering process		
15	TG BOX UP	04.08.2022	04.02.2023	04.02.2023	04.08.2023	8	DM Plant	In tendering process		
16	START OF OIL FLUSHING	03.11.2022	03.05.2023	03.05.2023	03.11.2023	9	Air Compressor	In tendering process		
17	ROLLING & SYNC.	02.04.2023	02.10.2023	02.10.2023	02.04.2024	10	Fire Protection System	In tendering process		
18	FULL LOAD	02.06.2023	02.12.2023	02.12.2023	02.06.2024	11	Switch Yard	M/s GET&D	27% of CIVIL Works	
19	TRIAL RUN	02.07.2023	02.01.2024	02.01.2024	02.07.2024	12	Station Transformers	BHEL	5%	
20	COD	02.08.2023	02.02.2024	02.02.2024	02.08.2024	13	Unit Transformers	BHEL	5%	
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	14	Railway siding	M/s Jhaghariya Nirman Ltd M/s ISC-CMIPL (JV)	PKG-1: 27% PKG-2: 3%	
						15	Power Evacuation	M/s Unitech Power Transmission M/s Hyosung India	1%	

REASONS OF DELAY:

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

CRITICAL AREAS:

Shifting of all residents of Nagla locality, continuous support of administration shall be required

BUXAR THERMAL POWER PROJECT (2X660 MW)

As on 31.08.2021
CENTRAL SECTOR

Developer-SJVN	Zero Date: 22.06.2019	Main Plant Vendor-M/S L&T	Original/ Anticipated Trial Run UNIT-01	May 2023/May 2023
			Original/ Anticipated Trial Run UNIT-02	Sep 2023/ Sep 2023
ADDRESS : - Village-Chausa, Tehsil-Chausa, Distt.-Buxar, Pin- 802114, Bihar			E-GEN PORTAL: REGISTRATION STATUS- NO	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Coal		ORIGINAL ESTIMATED COST OF THE PROJECT	Original Project cost- 10,439.09 Crores (Price Level- Jan'2018), Approval date- 08.03.2019.
COAL COMBUSTION TECHNOLOGY	Supercritical		LATEST ESTIMATED COST	Not Applicable
PROCEED (NTP)	Investment Approval accorded by Govt. of India vide MoP memorandum dated 08.03.2019.		DATE OF FINANCIAL CLOSURE	26.11.2020
ZERO DATE:	Main Plant works has been awarded in single EPC package to M/s. L&T on 22.06.2019.		EXP. DURING 2013-14	46.68
PPA	PPA signed with Govt. of Bihar on 05.01.2011 and further reconfirmed on 09.01.2018.		EXP. DURING 2014-15	15.18
COAL LINKAGE/FSA	Letter of Assurance (LoA) for 4.976 MTPA of G9 to G14 grade coal issued by Central Coalfields Ltd. (CCL) on 10.12.2018. 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
LAND POSSESSION	Total Land Required-1283 Acre Total Land Acquired-1058 Acre (Total land acquired for main Plant) Total Land Use-1058 Acre.		EXP. DURING 2018-19	68.21
WATER ALLOCATION	MoU for utilization of 55 cusec of water signed between STPL and Water Resource Deptt., Govt. of Bihar on 29.08.2016.		EXP. DURING 2019-20	344.5
MOEF CLEARANCE	Accorded by MOEF&CC on 28.02.2017.(Validity- 27.02.2024)		EXP. DURING 2020-21	1,100.05
CIVIL AVIATION CLEARANCE	Accorded by Airport Authority of India on 12.04.2017 (Fresh NOC issued on 18.11.2018). (Validity-17.11.2028)		EXP. OF Aug'21	250.88
CPCB CLEARANCE	NOT APPLICABLE		TOTAL EXPENDITURE (UPTO 31.08.2021)	2725.87
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	22% (Overall)	4% (Overall)
1	COMPLETION OF BOILER FOUNDATION	21-Jul-20	01-May-21(A)	19-Nov-20	30-Sep-21	2	TG	CIVIL STRUCTURE PRESSURE PARTS	12.5% (Overall)	1.38% (Overall)
2	START OF BOILER ERECTION	20-Aug-20	21-Oct-20(A)	20-Dec-20	31-Oct-21	3	ESP	UNDER PROGRESS	3.3%	0
3	BOILER DRUM LIFTING	-NA-	-NA-	-NA-	-NA-	4	FGD	CIVIL WORK MATERIAL SUPPLY ERECTION WORK	3.4% 0.15% 0%	3.4% 0.15% 0%
4	BOILER CEILING GIRDER LIFTING COMPLETION	19-Apr-21	21-Dec-21	20-Aug-21	21-Apr-22	STATUS OF BOPs				
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	20-Apr-22	21-Sep-22	21-Aug-22	21-Jan-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)	6.49%	
7	BOILER LIGHT UP	21-Oct-22	22-Dec-22	21-Feb-23	22-Feb-23	2	Coal Handling Plant		0.06%(Conveyor package), 6.8% (Wagon Tripler) 0% (Stacker Reclaimer)	
8	CHEMICAL CLEANING	15-Oct-22	30-Dec-23	15-Feb-23	16-Feb-23					
9	STEAM BLOWING START	01-Nov-22	02-Mar-23	04-Mar-23	04-Mar-23					
10	STEAM BLOWING COMPLETION	18-Dec-22	31-Mar-23	20-Apr-23	20-Apr-23	3	Ash Handling Plant		2.93%	
11	HP PIPING ERECTION START	16-Oct-21	16-Feb-22	15-Feb-22	15-Apr-22	4	Fuel Oil System		0.15%	
12	HP PIPING ERECTION COMPLETION	30-Jul-22	30-Dec-22	29-Nov-22	29-Mar-22	5	Cooling Towers		14.43%	
13	CONDENSER ERECTION START	03-Aug-21	03-Feb-22	03-Dec-21	03-Apr-22	6	CW Pump house & Piping		1.62%	
14	TG ERECTION START	21-Sep-21	23-Jan-22	20-Jan-22	20-Apr-22	7	PT Plant		2.92%	
15	TG BOX UP	21-Aug-22	22-Oct-22	20-Dec-22	21-Feb-23	8	DM Plant		13.95%	
16	START OF OIL FLUSHING	28-Aug-22	28-Oct-22	27-Dec-22	28-Feb-23	9	Air Compressor		6.0%	
17	ROLLING & SYNC.	20-Feb-23	21-Feb-23	21-Jun-23	21-Jun-23	10	Fire Protection System		4.31%	
18	FULL LOAD	21-Mar-23	21-Mar-23	21-Jul-23	21-Jul-23	11	Switch Yard		19.58%	
19	TRIAL RUN	21-May-23	21-May-23	21-Sep-23	21-Sep-23	12	Station Transformers		2.15%	
20	COD	07-Jul-23	07-Jul-23	07-Jan-24	07-Jan-24	13	Unit Transformers		0%	
21	PG TEST START AND COMPLETION	21-Jun-24	21-Jun-24	21-Nov-24	21-Nov-24	14	Railway siding	RITES Ltd.	7.2%	
						15	Power Evacuation	BSPTCL, Govt. of Bihar		

REASONS OF DELAY :

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

CRITICAL AREAS:

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

**BROAD STATUS
Of
UNDER CONSTRUCTION
THERMAL POWER PROJECTS
STATE & PRIVATE SECTORS**

NORTHERN
REGION

SURATGARH STPP (2X660 MW)

As on 31.08.2021
STATE SECTOR

Developer- RVUNL	Zero Date: May' 2013	Main Plant Vendor-M/S BHEL (EPC Contract-28.03.2013)	Original/Actual COD UNIT-07	SEP 2016/ 01.12.2020(A)
			Original/ Anticipated Trial Run UNIT-08	Nov'2016/ Sept 21
ADDRESS : - STPS-SC, Village-Thukrana, Tehsil- Suratgarh, Dist.-Sriganganagar, Rajasthan (335804).			E-GEN PORTAL: REGISTRATION STATUS- YES, Reg No: U-08:1200000800	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Coal		ORIGINAL ESTIMATED COST OF THE PROJECT	7920 cr. (02.03.2009)
COAL COMBUSTION TECHNOLOGY	Supercritical Technology		LATEST ESTIMATED COST	8966.47 cr (19.07.2019)
APPROVAL DATE/NOTICE TO PROCEED (NTP)	Administrative & Financial approval accorded by GoR on 02.03.2009		DATE OF FINANCIAL CLOSURE	NA
ZERODATE:	Order placed on 23/05/13 on M/s BHEL on EPC basis. Blr-ALSTOM, TG-SIEMENS		EXP. DURING 2015-16	4881.89
PPA	Signed on 18.05.2010 with Rajasthan Discoms		EXP. DURING 2016-17	1642.28
COAL LINKAGE/FSA	Approval accorded by Ministry of Coal, Govt. of India, New Delhi, to use Coal from Parsa East & Kanta Basin Coal blocks of RVUN vide letter Dt. 03.02.2012.		EXP. DURING 2017-18	1080.18
START UP POWER AGREEMENT	As per PPA		EXP. DURING 2018-19	1053.15
POWER EVACUATION SYSTEM	Through 4 nos. 400 K.V. Transmission lines of RVPN network.		EXP. DURING 2019-20	1102.71
LAND POSSESSION	0.253/0698.557 Hect. still to be acquired		EXP. DURING 2020-21	1056.18
WATER ALLOCATION	60 cusec by WRD from INGP of dated 02.09.2009		EXP. OF Aug'21	0.01
MOEF CLEARANCE	EC granted by MoEF on 23.05.2012 and further extended upto 22.5.2022		TOTAL EXPENDITURE (UPTO 31.08.21)	10983.52
CIVIL AVIATION CLEARANCE	NOC issued by Airport Authority of India vide letter no. AAI/NOC/2010/79/938- 940 dated 26.04.2010. (3) CPCB CLEARANCE: NIL			
CPCB CLEARANCE	NOT APPLICABLE			
SPCB CLEARANCE	(i) Consent to Establish:- Date of obtained:- 04.06.2013 Validity :- Upto 22.05.2020 (i) Consent to Establish:- Date of obtained:- 16.12.2020 Validity :- 31.10.2017 to 30.09.2022			
FOREST CLEARANCE	NOT APPLICABLE			

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)				MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL (28.03.2013)			
Sl.	MILESTONE	UNIT-08		Sl.	Packages	UNIT	% Completion
		Original Date of Completion	Actual/Anticipated Date of Completion	1	BOILER	UNIT-08	98.56
1	COMPLETION OF BOILER FOUNDATION	25.05.2014	04.07.2014	2	TG	UNIT-08	91.86
2	START OF BOILER ERECTION	28.06.2014	25.06.2014	3	ESP	UNIT-08	97.5
3	BOILER DRUM LIFTING	NA	NA	4	FGD	UNIT-08	Revised NIT floated on 25.03.2021.
4	BOILER CEILING GIRDER LIFTING COMPLETION	23.12.2014	01.04.2015	STATUS OF BOPs			
5	BOILER HYDRO TEST(DRAINABLE) COMPLETION	28.11.2015	15.03.2016	Sl.	Packages/Linked Project Milestones	Vendor/Contracting Agency (EPC- BHEL)	% Completion
6	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	10.04.2016	27.07.2018	1	Chimney	M/s Simplex Infrastructure	99.05
7	BOILER LIGHT UP	29.05.2016	28.09.2017	2	Coal Handling Plant	M/s Zuberi Engineering Company(Conveyor package)	52.50%
8	CHEMICAL CLEANING	13.07.2016	06.10.2018			M/s GDCL(Wagon tippler)	
9	STEAM BLOWING START	10.08.2016	04.03.2019			ISG M/s L&T(Stacker Reclaimer)	
10	STEAM BLOWING COMPLETION	29.08.2016	07.06.2019	3	Ash Handling Plant	ISG	89
11	HP PIPING ERECTION START	02.09.2015	25.05.2016	4	Fuel Oil System	M/s. BHEL-PSER	97
12	HP PIPING ERECTION COMPLETION	10.07.2016	09.07.2019	5	Cooling Towers	M/s BGR	98.64
13	CONDENSER ERECTION START	15.03.2015	28.06.2015	6	CW Pump house & Piping	M/s Power Mech	100
14	TG ERECTION START	15.04.2015	05.11.2015	7	PT Plant	M/s VA Tech	100
15	TG BOX UP	15.06.2016	09.11.2017	8	DM Plant	M/s Thermax Limited	100
16	START OF OIL FLUSHING	28.07.2016	18.08.2018	9	Air Compressor	M/s Ingersol	100
17	ROLLING & SYNC.	28.09.2016	23.03.2021	10	Fire Protection System	M/s Jyoti Turbo BHEL-TBG, M/s Sterling & Wilson	85
18	FULL LOAD	28.10.2016	Sept-21	11	Switch Yard	M/s Telmos Electronics	94.22
19	TRIAL RUN	28.11.2016	Sept-21	12	Station Transformers	M/s Telmos Electronics	100
20	COD	28.12.2016		13	Unit Transformers	M/s Sigma	100
21	PG TEST START AND COMPLETION	28.12.2016	-	14	Railway siding	NWR- Bikaner	65
				15	Power Evacuation	M/s RVPNL/ M/s Adani	85%

REASONS OF DELAY :

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

CRITICAL AREAS: NIL

HARDUAGANJ TPS, EXTN-II (1X660MW)

As on 31.08.2021
STATE SECTOR

Developer-UPRVUNL	Zero Date:08.09.2015	Main Plant Vendor- M/s Toshiba JSW Systems Private Limited as EPC basis on 08.09.2015 Boiler: Doosan, India ; TG & Generator: Toshiba JSW Power Systems	Original/ Anticipated Trial Run UNIT-01	Dec'2019/ Oct'2021
ADDRESS : -Kasimpur, Teh- Koil, District- Aligarh, State- UP, PIN-202127			E-GEN PORTAL: REGISTRATION STATUS- NO,	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE		Coal	ORIGINAL ESTIMATEDCOST OF THE PROJECT	Original cost Rs. 4826.5 Crore approved on 22.11.2011
COAL COMBUSTION TECHNOLOGY		Supercritical	LATEST ESTIMATED COST	Revised cost Rs. 6011.83 crore approved on 15.07.2020
APPROVAL DATE/NOTICE TO PROCEED (NTP)		UP Government approval was accorded vide letter no. 2801/24-1-2011-3485/2009 dt. 22.09.2011	DATE OF FINANCIAL CLOSURE	16.04.2012
ZERO DATE:		Date of start is 08.09.2015. M/s Toshiba JSW Power Systems Ltd. is the EPC contractor for the work.		
PPA		PPA signed with UPPCL on 16.01.2013	EXP. DURING 2015-16	305.81
COAL LINKAGE/FSA		Saharpur-Jamarpani, Jharkhand allotted to UPRVUNL on date 25.03.2015 for 3.00 MTPA requirement of 1x660 MW Harduaganj	EXP. DURING 2016-17	115.13
START UP POWER AGREEMENT		Start up power being drawn from HDJ (C&D) as per para 21 of UPERC (Terms and conditions of generation tariff) Regulation 2019	EXP. DURING 2017-18	458.1
POWER EVACUATION SYSTEM		LILo of Aligarh-Sikandrabad 400 KV ckt-Ist at HTPS and2x315 MVA, 400/220 KV ICT.	EXP. DURING 2018-19	1223.83
LAND POSSESSION		73 hectare of land (already under possession of UPRVUNL) is being used for establishing 1x660 MW extn.-II TPP.	EXP. DURING 2019-20	1,339.22
WATER ALLOCATION		Allotted from Upper Ganga Canal vide letter 4992/C-15 dt. 03.12.2011 of Irrigation department from existing 106 cusec allotment.	EXP. DURING 2020-21	795.91
MOEF CLEARANCE		MoE&F clearance granted on 12.05.2015 which was valid upto 11.05.2020. Validity further extended upto 11.05.2022.	EXP. OF CURRENT MONTH Aug-21	57.56
CIVIL AVIATION CLEARANCE		NOC given by AAI on dated 12.07.2012 and work completed within the time allotted.	TOTAL EXPENDITURE (UPTO DATE 31.07.2021)	4603.08
CPCB CLEARANCE		NA		
SPCB CLEARANCE		Consent to Establish accorded by UPPCB vide ref no. 33082/UPPCB/Aligarh(UPPCBRO)/CTE/ALIGARH/2019 dt. CTO accorded by UPPCB from 01.01.2021 to 31.12.2021.		
FOREST CLEARANCE		NA		

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)				MAIN PLANT PACKAGE (BTG VENDOR): M/s DOOSAN , M/s TJPS/SIMPLEX, M/s KCC			
Sl.	MILESTONE	UNIT-01		Sl.	Packages	UNIT-01	% Completion
		Original Date of Completion	Actual/Anticipated Date of Completion				
1	COMPLETION OF BOILER FOUNDATION	March-17	11-May-2017 (A)	2	BOILER	Civil works Structural works	91.45% 94.13%
2	START OF BOILER ERECTION	April-17	22-Mar-2017 (A)	3	TG	Civil works Structural works TG Aux	98.27% 99.89% 99.3%
3	BOILER DRUM LIFTING	NA	NA	4	FGD	CIVIL Material Supply Erection	.99.19% 95.5% 63.8%
4	BOILER CEILING GIRDER LIFTING COMPLETION	01/10/17	11-Apr-2018 (A)	STATUS OF BOPs			
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	Nov-18	31-Dec-2019 (A)	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency	% Completion
6	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	Nov-18	25-May-2019 (A)	1	Chimney	Bygging India Limited	100%
7	BOILER LIGHT UP	May-19	28-Aug-2020 (A)	2	Coal Handling Plant	FLSmith/ WIE & TRIGARD (Conveyor package)	86%
8	CHEMICAL CLEANING COMPLETION	-	10-Feb-2020 (A)			FLSmith / TRIGARD (Wagon Tripler)	
9	STEAM BLOWING START	-	08-Jan-2021 (A)			FLSmith / WIE	
10	STEAM BLOWING COMPLETION	July-19	22-Jun-2021 (A)	3	Ash Handling Plant	Indure	72%
11	HP PIPING ERECTION START	October-17	19-Sep-2018 (A)	4	Fuel Oil System	GMW	100%
12	HP PIPING ERECTION COMPLETION	September-18	24-Sep-2019 (A)	5	Cooling Towers	Pahapur	100%
13	CONDENSER ERECTION START	March-18	20-Sep-2018 (A)	6	CW Pump house & Piping	XYLEM	100%
14	TG ERECTION START	March-18	06-Sep-2018 (A)	7	PT Plant	DRIPLEX	100%
15	TG BOX UP	February-19	05-Mar-2020 (A)	8	DM Plant	DRIPLEX	100%
16	START OF OIL FLUSHING		12-Nov-2020 (A)	9	Air Compressor	Atlas Copco	100%
17	ROLLING & SYNC.	September-19	23/08/2021 (A)	10	Fire Protection System	Consilium Middle East (FZC)	76%
18	FULL LOAD	November-19	Sept, 2021	11	Switch Yard	ABB	100%
19	TRIAL RUN	December-19	Oct, 2021	12	Station Transformers	TTDI	100%
20	COD		Oct, 2021	13	Unit Transformers	TTDI	100%
21	PG TEST START AND COMPLETION		Dec,2021	14	Railway siding	M/s Suresh Chandra Gupta	87%
				15	Power Evacuation	M/s ABB	100%

REASONS OF DELAY:

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

CRITICAL AREAS: NIL

OBRA 'C' TPP (2X660 MW)

As on 31.08.2021
STATE SECTOR

Developer- UPRVUNL	Zero Date: 22.12.2016	Main Plant Vendor- (BTG) awarded to M/s. Doosan Power Systems India Pvt. Ltd. On 22.12.2016 SG package by	Original/Actual Trial Run UNIT-01	Dec-20/Jul-22
			Original/Expected Trial Run UNIT-02	Apr-21/Jan-23
ADDRESS : - Village-Obra, Tehsil-Obra, District-Sonebhadra, Pin-231219 Uttar Pradesh			E-GEN PORTAL: Unit 1 No: 1200001696 Unit 2 No: 1200001697	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	COAL		ORIGINAL ESTIMATED COST OF THE PROJECT	Original Project cost - 8777.71 Crores approval date from U P Govt. 31.07.2012
COAL COMBUSTION TECHNOLOGY	Ultra Supercritical		LATEST ESTIMATED COST	Latest Estimated cost - 10416 Crore approval date 24.11.2016
APPROVAL DATE/NOTICE TO PROCEED (NTP)	Date of NTP or Approval Date: 22.12.2016		DATE OF FINANCIAL CLOSURE	13.11.2013 and 30.05.2019 for additional amount.
ZERO DATE:	22.12.2016. EPC Package Awarded to M/s Doosan Power Systems Indi Pvt. Ltd., Gurugram		EXP. DURING 2015-16	7.24
PPA	PPA signed with UP Power Corporation Ltd for 100% share to state of UP		EXP. DURING 2016-17	423.77
COAL LINKAGE/FSA	Coal Block allocated at Saharpur Jamarpani Coal Mine, Jharkhand. Allocation Date: 13.08.2015. Grade of Coal B to G		EXP. DURING 2017-18	277.83
START UP POWER AGREEMENT	Start up power from UPPTCL		EXP. DURING 2018-19	855.9
POWER EVACUATION SYSTEM	Power evacuation at 765 KV.		EXP. DURING 2019-20	2175.96
LAND POSSESSION	Brown Field project, therefore Land already in Psession. For ash dyke construction, land acquisition of 113.42 Ha under progress		EXP. DURING 2020-21	1220.62
WATER ALLOCATION	Water requirement to be fulfilled from return channel of obra B plant. Additional requirement (if any) shall be met from the reservoir of Rihand Dam.		EXP. OF CURRENT MONTH (July 2021)	140.93
MOEF CLEARANCE	Clearance obtained date 21.06.2016		TOTAL EXPENDITURE (UPTO DATE 30.06.2021)	6052.73
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				
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	86%	60%
1	COMPLETION OF BOILER FOUNDATION	11-Mar-18	15-Feb-19	16-Jun-18	21-Feb-19	2	TG	Percentage Completion	75%	26%
2	START OF BOILER ERECTION	22-Apr-18	28-May-18	22-Aug-18	21-Jan-19	3	ESP	Percentage Completion	76%	25%
3	BOILER DRUM LIFTING	N/A	N/A	N/A	N/A	4	FGD	CIVIL WORKS MATERIAL SUPPLY ERECTION WORK	61% - 14%	44% - 0%
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	30-Oct-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	22-Sep-19	27-Sep-20	23-Jan-20	30-Oct-21	1	Chimney	M/s.Simplex	96%	
7	BOILER LIGHT UP	21-Apr-20	31-Dec-21	19-Aug-20	Jun-22	2	Coal Handling Plant	KCC (Conveyor package)	33%	
8	CHEMICAL CLEANING COMPLETION	25-Mar-20	15-Dec-21	25-Jul-20	Jun-22			Aneja (Wagon Tripler)	55%	
9	STEAM BLOWING START	22-May-20	07-Jan-22	19-Sep-20	Jul-22			Aneja (Stacker Reclaimer)	78%	
10	STEAM BLOWING COMPLETION	22-Jun-20	07-Feb-22	19-Oct-20	Aug-22	3	Ash Handling Plant	AKC, PNC	38%	
11	HP PIPING ERECTION START	12-Jan-19	01-Mar-20	22-May-19	01-Feb-21	4	Fuel Oil System	AKC, Sangha, Singrauli, Jiwala	55%	
12	HP PIPING ERECTION COMPLETION	20-Mar-20	16-Dec-21	20-Jul-20	Jun-22	5	Cooling Towers	PCTL	45%	34%
13	CONDENSER ERECTION START	23-Nov-18	17-Aug-20	23-Mar-19	15-Sep-21	6	CW Pump house & Piping	GDCL	61%	
14	TG ERECTION START	22-Jan-19	02-Nov-20	23-May-19	14-Oct-21	7	PT Plant	Rajpati Vishwakarma, Sahil Kumar, KNIL, IEIL	51%	
15	TG BOX UP	22-Feb-20	30-Sep-21	20-Jun-20	31-Mar-22	8	DM Plant	Rajpati Vishwakarma, Sahil Kumar, KNIL, IEIL	82%	
16	START OF OIL FLUSHING	23-Feb-20	01-Oct-21	21-Jun-20	01-Apr-22	9	Air Compressor	GDCL	50%	
17	ROLLING & SYNC.	30-Jul-20	31-Mar-22	27-Nov-20	30-Sep-22	10	Fire Protection System	Lloyd	11%	
18	FULL LOAD	01-Sep-20	01-May-22	31-Dec-20	01-Nov-22	11	Switch Yard	KNIL , GDCL, GET&D	85%	
19	TRIAL RUN	21-Dec-20	21-Jul-22	21-Apr-21	21-Jan-23	12	Station Transformers	GDCL, GET&D	97%	
20	COD	21-Dec-20	21-Jul-22	21-Apr-21	21-Jan-23	13	Unit Transformers	GDCL, GET&D	72%	
21	PG TEST START AND COMPLETION	21-Jun-21	21-Jan-23	21-Oct-21	21-Jul-23	14	Railway siding	DPSI		
						15	Power Evacuation	GET&D		

REASONS OF DELAY:

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

CRITICAL AREAS: NIL

Jawaharpur Super Thermal Power Station (2X660 MW)

As on 31.08.2021
STATE SECTOR

Developer- UPRVUNL	Zero Date: 22.12.2016	Main Plant Vendor-M/S Doosan Power Systems India	Original/Actual Trial Run UNIT-01	12/2020 / 04/2023
			Original/Expected Trial Run UNIT-02	04/2021 / 10/2023
ADDRESS : - Jawaharpur STPS, Malawan, Etah, UP - 207001			E-GEN PORTAL REGISTRATION STATUS- YES/NO- No	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE		Coal	ORIGINAL ESTIMATED COST OF THE PROJECT	8078.56
COAL COMBUSTION TECHNOLOGY		Ultra Super Critical	LATEST ESTIMATED COST	10566.27
APPROVAL DATE/NOTICE TO PROCEED (NTP)		Approval of DPR and Intial project cost by U.P.Government of DPR Vide letter dated 04.09.2015	DATE OF FINANCIAL CLOSURE	No Records Available
ZERO DATE:		22.12.2016- date of Award to EPC Contractor M/s Doosan Power Systems India Power Limited - scope including BTG,BOP	EXP. DURING 2016-17	445.21
PPA		Details of PPA signed or under process whichever is applicable with defining share % if any.	EXP. DURING 2017-18	400.26
COAL LINKAGE/FSA		Coal mine -Shaharpur JamarPani also Bridge Linkage from Coal Ministry allocated	EXP. DURING 2018-19	844.96
START UP POWER AGREEMENT		for 220 KV signed with UPPTCL	EXP. DURING 2019-20	2295.94
POWER EVACUATION SYSTEM		765 KV / 400 KV / 220 KV GIS	EXP. DURING 2020-21	2034.08
LAND POSSESSION		765 Acre land for Power House under Possess	EXP. OF CURRENT MONTH (Aug 2021)	159.16
WATER ALLOCATION		Lower Ganaga Canal - 38 cusec	TOTAL EXPENDITURE (UPTO DATE 31.08.2021)	6968.02
MOEF CLEARANCE		MOEF clearance granted in 63rd Meeting of the reconstituted EAC (Thermal Power) was held on 29th & 30thAugust, 2016		
CIVIL AVIATION CLEARANCE		Chimney clearane from AAI vide letter dated 12.06.15.		
CPCB CLEARANCE				
SPCB CLEARANCE				
FOREST CLEARANCE				

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)						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% 85.4% 100%	100% 68.32% 98.68%
1	COMPLETION OF BOILER FOUNDATION	31.12.2017	05.03.2019	03.05.2018	29.05.2019	2	TG	CIVIL STRUCTURE	100% 98%	88.27% 45.58%
2	START OF BOILER ERECTION	22.04.2018	20.08.2018	22.08.2018	20.11.2018	3	ESP	UNDER PROGRESS	48%	9%
3	BOILER DRUM LIFTING	NA				4	FGD	CIVIL WORK MATERIAL SUPPLY ERECTION WORK	100% 82.4% 14%	99% 77% 0.2%
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	16.01.2022	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					1	Chimney	Simplex	54%	
7	BOILER LIGHT UP	26.04.2020	26.12.2021	23.08.2020	22.11.2022	2	Coal Handling	Skid/ NeoStructo(Conveyor package)	82%	
8	CHEMICAL CLEANING	15.03.2020	15.12.2021	13.07.2020	15.09.2022		Plant	Skid/ NeoStructo (Wagon Tripler)	87%	
9	STEAM BLOWING START	26.05.2020	26.01.2022	21.09.2020	Mar'2023			Skid/ NeoStructo (Stacker Reclaimer)	94%	
10	STEAM BLOWING COMPLETION	21.06.2020	21.02.2022	21.10.2020	Apr'2023	3	Ash Handling Plant	Main vendor/subcontractor	64%	
11	HP PIPING ERECTION START	18.02.2019	01.11.2019	22.06.2019	15.02.2021	4	Fuel Oil System	Main vendor/	44%	
12	HP PIPING ERECTION COMPLETION	23.08.2019	Dec'2021	23.12.2019	Mar'2022	5	Cooling Towers	Paharpur	74%	64%
13	CONDENSER ERECTION START	22.01.2019	16.09.2020	22.05.2019	31.09.2021	6	CW Pump house & Piping	DPSI/ Jyoti	82%	
14	TG ERECTION START	22.01.2019	23.11.2020	22.05.2019	30.11.2021	7	PT Plant	Civil : Tecknow	99%	
15	TG BOX UP	22.02.2020	May'2022	20.06.2020	Dec'2022	8	DM Plant	EPC : Ion Exchange	50%	
16	START OF OIL FLUSHING	23.02.2020	May'2022	21.06.2020	Dec'2022	9	Air Compressor	Atlas / Jyoti	46%	
17	ROLLING & SYNC.	21.08.2020	Dec'2022	21.12.2020	Jun'2023	10	Fire Protection System	Lloyd	65%	
18	FULL LOAD	01.09.2020	Jan'2023	01.01.2021	Jun'2023	11	Switch Yard	GE T&D	75%	
19	TRIAL RUN	20.12.2020	Apr'2023	20.04.2021	Sept'2023	12	Station Transformers	Zagson	50%	
20	COD	21.12.2020	Apr'2023	21.04.2021	Sept'2023	13	Unit Transformers	Zagson	39%	
21	PG TEST START AND COMPLETION	21.06.2021	Oct'2023	21.10.2021	Mar'2024	14	Railway siding	NA		
						15	Power Evacuation	DPSI		

REASONS OF DELAY:

Due to 2nd wave of Covid-19, supply of materials/equipments from other states (esp. Maharashtra) was delayed.

All sub-contractors reduced manpower at the Jawaharpur site due to Covid-19.

Due to restricted supply of Oxygen, steel structure works were kept on hold.

Currently man power has been increased by the EPC Contractor, as Covid-19 cases reduced. However, full pace of work should be achieved after Monsoon season.

CRITICAL AREAS: Nil

Panki Thermal Power Project (1X660MW)

As on 31.08.2021
STATE SECTOR

Developer- UPRVUNL	Zero Date: 31.03.2018	Main Plant Vendor-M/s BHEL	Original/Anticipated Trial Run UNIT-01	09/2021 / 11/2022
ADDRESS : -Panki TPP, Distt. Kanpur UP, 208020			E-GEN PORTAL: REGISTRATION STATUS- 1200001768	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Coal		ORIGINAL ESTIMATED COST OF THE PROJECT	INR 5816.70 Crore, 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	1131.48
POWER EVACUATION SYSTEM	UPPTCL		EXP. OF CURRENT MONTH Aug-21	56.8
LAND POSSESSION	It is extension project.Hence Land is available		TOTAL EXPENDITURE (UPTO DATE 31.08.2021)	2905.26
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	90% 58% 88%
1	COMPLETION OF BOILER FOUNDATION	29.04.2019	13.01.2020	2	TG	Civil works Structural works TG Aux	58% 72% NIL
2	START OF BOILER ERECTION	30.04.2019	24.04.2019	3	ESP	Pass status	73%
3	BOILER DRUM LIFTING	NA	NA	4	FGD	CIVIL work Material Supply Erection	43.88% NIL 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	30.09.2021	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency	% Completion
6	BOILER HYDRO TEST (NON- DRAINABLE) COMPLETION	22.02.2021	15.03.2022	1	Chimney	Bygging	85%
7	BOILER LIGHT UP	28.02.2021	31.03.2022	2	Coal Handling Plant	Thyseen Krupp & RVPR (Conveyor Package)	14%
8	CHEMICAL CLEANING COMPLETION	10.03.2021	30.04.2022			Thyseen Krupp & Kanwar (Wagon Tripler)	85%
9	STEAM BLOWING START	09.04.2021	20.04.2022			Thyseen Krupp & Kanwar (Stacker Reclaimer)	60%
10	STEAM BLOWING COMPLETION	30.04.2021	20.05.2022	3	Ash Handling Plant	Indure/ Kanwar	68%
11	HP PIPING ERECTION START	03.11.2019	09.11.2022	4	Fuel Oil System	GMW/ Simplex	
12	HP PIPING ERECTION COMPLETION	29.08.2020	30.04.2022	5	Cooling Towers	Paharpur	13.90%
13	CONDENSER ERECTION START	30.04.2020	20.08.2021	6	CW Pump house & Piping	MHI/ Simplex	69%
14	TG ERECTION START	30.04.2020	01.09.2021	7	PT Plant	GDCL	51%
15	TG BOX UP	31.01.2021	31.08.2022	8	DM Plant	BGR & Simplex	90%
16	START OF OIL FLUSHING	30.01.2021	01.09.2022	9	Air Compressor	ATLAS COPCO	69%
17	ROLLING & SYNC.	31.05.2021	20.10.2022	10	Fire Protection System	BHEL	91%
18	FULL LOAD	30.06.2021	20.11.2022	11	Switch Yard	JSPPL	88%
19	TRIAL RUN	30.09.2021	20.11.2022	12	Station Transformers	BHEL	
20	COD			13	Unit Transformers	BHEL	Nil
21	PG TEST START AND COMPLETION			14	Railway siding	RITES	25%
				15	Power Evacuation	UPTL	

REASONS OF DELAY :

1. Due to COVID 19 outbreak and its consequences.

CRITICAL AREAS: NIL

WESTERN
REGION

BHUSAWAL SUPERCRITICAL TPP (1X660 MW)

As on 31.08.2021
STATE SECTOR

Developer- MAHAGENCO	Zero Date: Jan’2018	Main Plant Vendor-M/S BHEL (EPC Contract-17.01.2018)	Original/Anticipated Trial Run UNIT-06	May’2022/ DEC 2022
ADDRESS : - Village Pimpri Sekam, Tal Bhusawal, Dist Jalgaon, Maharashtra, 425307			E-GEN PORTAL: REGISTRATION STATUS- NO,	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Coal		ORIGINAL ESTIMATED COST OF THE PROJECT	Rs. 4548 Crs. dated 22/07/2011
COAL COMBUSTION TECHNOLOGY	Supercritical		LATEST ESTIMATED COST	Rs. 4550.97 Crs. Dated 31/12/2018
APPROVAL DATE/NOTICE TO PROCEED (NTP)	25-09-2009		DATE OF FINANCIAL CLOSURE	NA
ZERO DATE:	17.01.2018		Exp. during 2018-19	59.41
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	1381.85
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 AUG’21	94.56
POWER EVACUATION SYSTEM	Maharashtra State Electricity Transmission Company Limited (MSETCL) has started the work of 400 KV Switch yard		TOTAL EXPENDITURE (UPTO 31.08.21)	2535.5
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 (17.01.2018)			
Sl.	MILESTONE	UNIT-06		Sl.	Packages	UNIT	% Completion
		Original Date of Completion	Actual/Anticipated Date of Completion				
				1	BOILER	UNIT-06	60%
1	COMPLETION OF BOILER FOUNDATION	25.11.2019	15.11.2019	2	TG	UNIT-06	57%
2	START OF BOILER ERECTION	30.11.2019	22.11.2019	3	ESP	UNIT-06	57%
3	BOILER DRUM LIFTING	NA	NA	4	FGD	UNIT-06	22%
4	BOILER CEILING GIRDER LIFTING COMPLETION	30.06.2020	20.01.2021	STATUS OF BOPs			
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	31.05.2021	Nov 2021	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC- BHEL)	% Completion
6	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	10.11.2021	May 2022	1	Chimney	M/s Powermech	47%
7	BOILER LIGHT UP	30.11.2021	May 2022	2	Coal Handling Plant	M/s BJCL & Macawber Beekay Pvt Ltd.(Conveyor package)	65%
8	CHEMICAL CLEANING COMPLETION	20.12.2021	June 2022			M/s BJCL& Promac (Wagon tippler)	22%
9	STEAM BLOWING START	24.01.2022	July 2022			M/s BJCL& Promac(Stacker Reclaimer)	47%
10	STEAM BLOWING COMPLETION	19.02.2022	Aug 2022	3	Ash Handling Plant	M/s BJCL & Macawber Beekay Pvt Ltd.	17%
11	HP PIPING ERECTION START	11.05.2021	Nov 2021	4	Fuel Oil System	M/s. New Fire Engineers Pvt Ltd.	30%
12	HP PIPING ERECTION COMPLETION	25.04.2022	Oct'2022	5	Cooling Towers	M/s Hayagrev civil engineering Pvt Ltd	42%
13	CONDENSER ERECTION START	31.10.2020	15.03.2021 (A)	6	CW Pump house & Piping	M/s Alpha power engineering services Pvt Ltd,G&J Pvt Ltd.	52%
14	TG ERECTION START	30.11.2020	July 2021	7	PT Plant	M/s Clear Water company	12%
15	TG BOX UP	30.11.2021	July 2022	8	DM Plant	M/s Wipro Enterprises Pvt Ltd	40%
16	START OF OIL FLUSHING	04.12.2021	Aug 2022	9	Air Compressor	M/s Elgi equipment Ltd.	30%
17	ROLLING & SYNC.	31.03.2022	Oct 2022	10	Fire Protection System	M/s Alpha power engineering services Pvt Ltd	48%
18	FULL LOAD	30.04.2022	Dec 2022	11	Switch Yard	M/s BNC Power Projects Ltd	20%
19	TRIAL RUN	31.05.2022	Dec 2022	12	Station Transformers	M/s BHEL	44%
20	COD	30.06.2022	Dec 2022	13	Unit Transformers	M/s BHEL	44%
21	PG TEST START AND COMPLETION	30.06.2022	Dec-22	14	Railway siding	ISC Projects	2%
				15	Power Evacuation	MSETCL/BNC Power Projects	20%

REASONS OF DELAY :

Anticipated dates are provided considering delay of 6 months due to Covid-19 impact.

CRITICAL AREAS: NIL

SOUTHERN
REGION

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

As on 31.08.2021

STATE SECTOR

Developer APPDCL (JV of APGENCO & ILFS)	Zero Date: 02.11.2015	Main Plant Vendor- BTG order placed on BHEL on 02.11.15	Original/ Anticipated Trial Run UNIT-01	June 2019/ Oct 2021
ADDRESS : - Nelatur (Village), near Krishnapatnam, Muthukuru (Mandal), SPSR Nellore (District) Andhra Pradesh – 524 347			E-GEN PORTAL: REGISTRATIONSTATUS- YES, Reg No: U-01:1200001078	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Domestic Coal		ORIGINAL ESTIMATED COST OF THE PROJECT	4276.03
COAL COMBUSTION TECHNOLOGY	Supercritical		LATESTESTIMATED COST	7922.72
APPROVAL DATE/NOTICE TO PROCEED (NTP)	16-Feb-13		DATE OF FINANCIAL CLOSURE	17.09.2014
ZERO DATE:	02.11.2015		EXP. DURING 2015- 16	7.08
PPA	PPA entered with APDISCOMS to sell 90% of the declared capacity		EXP. DURING 2016- 17	568.03
COAL LINKAGE/FSA	M/s Mahanadhi Coal fields limited has Issued LOA to supply 3.548MTPA 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	885.36
WATERALLOCATION	Seawater about 6,556 Cum/Hr		EXP. OF AUG'21	139.59
MOEF CLEARANCE	MoEF clearancce obtained on 02-07-2015 for 7 Years		TOTAL EXPENDITURE (UPTO 31.08.21)	7448.69
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		SI.	Packages	UNIT	% Completion
		Original Date of Completion	Actual/Anticipated Date of Completion	1	BOILER	UNIT-01	97%
1	COMPLETION OF BOILER FOUNDATION	17.04.2017	27.05.2017	2	TG	UNIT-01	96%
2	START OF BOILER ERECTION	06.04.2017	26.06.2017	3	ESP	UNIT-01	98%
3	BOILER DRUM LIFTING	Not applicable	04.02.2018	4	FGD	UNIT-01	Tender specification prepared.
4	BOILER CEILING GIRDER LIFTING COMPLETION	06.04.2017		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	90%
8	CHEMICAL CLEANING	25.12.2018	07.12.2020			(Wagon tippler)	NOT APPLICABLE
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	90%
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	Sept'2021	10	Fire Protection System	TPL / AGNICE	90%
18	FULL LOAD	14.03.2019	Oct'2021	11	Switch Yard	TPL / ABB	100%
19	TRIAL RUN	--	Oct'2021	12	Station Transformers	M/s BHEL	100%
20	COD	14.06.2019	Oct'2021	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. Switchyard bus metering works were carried out to comply with new CEA regulations-2019. Awaiting for clearance from APTRANSCO for GT back charging.

CRITICAL AREA:

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

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

As on 31.08.2021
STATE SECTOR

Developer APGENCO	Zero Date:15.12.2015	Main Plant Vendor-M/SBHEL (BTG)	Original/ Anticipated Trial Run UNIT-08	Apr'2019/ Dec' 2021
ADDRESS : - Ibrahimpatnam (Village & Mandalam), Krishna District, Andhra Pradesh. PIN: 521456			E-GEN PORTAL: REGISTRATION STATUS- YES, Reg No: U-08:1200000271	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Coal	ORIGINAL ESTIMATED COST OF THE PROJECT	6143.88	
COAL COMBUSTION TECHNOLOGY	Supercritical	LATEST ESTIMATED COST	7586.67	
APPROVAL DATE/NOTICE TO PROCEED (NTP)	Administrative approval accorded on 09.07.2014	DATE OF FINANCIAL CLOSURE	44500	
ZERO DATE:	BTG/BHEL-15.12.2015 and BOP/BGR- 06.07.2016	EXP. DURING 2015-16	6.6	
PPA	PPA is available with DISCOMS of erstwhile APGENCO in combined AP. The same is being revised with APDISCOMS.	EXP. DURING 2016-17	422.91	
COAL LINKAGE/FSA	MCL issued LOI for supply of 35,48,000 Tonnes/Annum vide lettter dated:12.11.2018.	EXP. DURING 2017-18	2099.15	
START UP POWER AGREEMENT	Not Applicable	EXP. DURING 2018-19	1495.18	
POWER EVACUATION SYSTEM	Power evacuation with 3 Nos 400KV feeders are ready with extension of existing 400 Kv switch yard of Stage- IV.	EXP. DURING 2019-20	1032	
LAND POSSESSION	85 Acres land is available within plant boundary for Main plant & facilities and green belt. This is extension project being constructed in the available land of Dr. NTTPS Project.	EXP. DURING 2020-21	585	
WATER ALLOCATION	Irrigation department vide letter dt:05.03.2015 agreed to supply 25 Cu.Secs water from krishna river upstream of prakasam barrage,Vijayawada.	EXP. in AUG'21	58.9	
MOEF CLEARANCE	MoEF issued clearence for imported coal vide letter dated:26.06.2015 and the same was revised vide letter dt:11.04.2019.	TOTAL EXPENDITURE (UPTO 31.08.21)	6253.07	
CIVIL AVIATION CLEARANCE	Aviation clearence was obtained vide letter dated:15.10.2012			
CPCB CLEARANCE	CPCB clearence is Not Applicable.			
SPCB CLEARANCE	APCB issued consent for establishment vide letter dated:28.09.2015 and the same amended vide letter dt:07.03.2020			
FOREST CLEARANCE	Forest Clearence is Not applicale.			

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL /ANTICIPATED)				MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL (15.12.2015)			
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% 89%
1	COMPLETION OF BOILER FOUNDATION	15.11.2016	20.06.2017	2	TG	Civil works Structural works Pressure Parts	88.7% 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	Tendering process for installation of FGD 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	37% works completed
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	23.11.2017	03.10.2018	7	PT Plant	M/s BGRESL	95%
15	TG BOX UP	14.11.2018	13.06.2021	8	DM Plant	M/s BGRESL	95%
16	START OF OIL FLUSHING	30.11.2018	18.12.2020	9	Air Compressor	M/s BGRESL	90%
17	ROLLING & SYNC.	08.03.2019 14.03.2019	22.02.2021	10	Fire Protection System	M/s BGRESL	70%
18	FULL LOAD	30.04.2019	20.10.2021	11	Switch Yard	M/s BGRESL / M/s Sri Sai Contractors	95%
19	TRIAL RUN	20.04.2019	Dec'21	12	Station Transformers	M/s BHEL / M/s KSL Contractors	100%
20	COD	14.06.2019		13	Unit Transformers	M/s BHEL / M/s KSL Contractors	90%
21	PG TEST START AND COMPLETION	11.09.2019		14	Railway siding	M/s BGRESL	30%
				15	Power Evacuation	Unit-8 Switchyard is extended from existing switchyard of Unit-7 and Power evacuation is proposed through lines on the existing switchyard.	

REASONS OF DELAY:

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

CRITICAL AREA: Completion of CHP & AHP.

BHADRADRI TPP (4X270 MW)

As on 31.08.2021

STATE SECTOR

Developer-TSGENCO	Zero Date:21.03.2015	Main Plant Vendor-M/S BHEL (EPC Contract-21.03.2015)	Original/Actual COD UNIT-01	March 2017 / 05.06.2020(A)
			Original/ Actual COD UNIT-02	May 2017/07.12.2020(A)
			Original/ Actual COD UNIT-03	July 2017/26.03.21(A)
			Original/Anticipated Trial Run UNIT-04	Sept 2017/ Oct 2021
ADDRESS : - Village-Ramanujavaram, Teh-Manuguru, Dist-Bhadradri Kothagudem, Telangana, Pin-507117			E-GEN PORTAL: REGISTRATION STATUS- YES, UNIT-01-1200000624 UNIT-02-1200000625 UNIT-03-1200000628 UNIT-04-1200000629	
CLEARANCES ANDSTATIC DATA			FINANCIAL DATA (in Crore)	
FUELTYPE	Coal		ORIGINALESTIMATED COST OF THE PROJECT	Rs. 7290.60 Crores. Administrative approval vide Dt:20.03.2015
COAL COMBUSTION TECHNOLOGY	Subcritical		LATEST ESTIMATED COST	Rs. 9962.32 Crores .Revised administrative approval vide Dt: 10.08.2020
APPROVAL DATE/NOTICE TO PROCEED (NTP)	PROJECT APPROVED DATE (LOI) ON 21.03.2015.		DATE OF FINANCIAL CLOSURE	M/s Power Finance Corporation Ltd vide Letter dated- 03.06.2015
ZERO DATE:	Awarded on EPC Basis to M/s BHEL on 21.03.2015		Exp. during 2014-15	59.71
PPA	PPA entered on 17.09.2019 with TSDISCOMS		Exp. during 2015-16	256.54
COAL LINKAGE/FSA	Ministry of Coal vide file No.23014/1/2018-CLD date :15.02.2018,has granted coal linkage from M/s SCCL Grade: G9/G10, for supply of 4.2MTPA		Exp. during 2016-17	635.91
START UP POWER AGREEMENT	TSDISCOMS will provide electrical energy to TSGENCO for construction and start-up.		Exp. during 2017-18	1085.61
POWER EVACUATION SYSTEM	400KV Julurupadu Transmission Line-1 & Line-2		Exp. during 2018-19	2512.23
LAND POSSESSION	Total Land acquired and using : Acs 1186 - 11 Gts Totaland to be acquired : Acs 184 - 34 Gts Total land Required : Acs 1370 - 45 Gts		Exp. during 2019-20	1759.27
WATER ALLOCATION	State Govt. has allotted for drawl of 1.4 TMC of water per year @ 45 cusec from Godavari river vide G.O.Ms.No. 03, dt-07.01.2015		Exp. during 2020-21	1066.95
MOEF CLEARANCE	Environmental Clearance obtained from MoEF & CC vide Lr.No.J- 13012/02/2015-IA.I(T),dated.15.03.2017 with a validity of 7 years from the date of issue.		Exp. Of Aug'21	23.01
CIVIL AVIATION CLEARANCE	Civil Aviation cleared NOC issued by AAI vide Lr.No.AAI/SR/NOC/RHQ, Dt:11.12.2015 and it is valid for 07 years from date of issued		TOTAL EXPENDITURE (UPTO 31.08.21)	7478.78
CPCB CLEARANCE	Not Applicable			
SPCB CLEARANCE	Order no.59/TSPCB/CFE/RO-KGM/HO/2017-3680, Dt: 30.03.2017			
FOREST CLEARANCE	An extent of 25.8435 Ha of forest land required for construction of new railway line from Manuguru railway station to BTPS Project for transportation of coal from Singarani Mines is involved. In this regard MOEF/Chennai has accorded stage-I clearence vide Lr. F.No.4-TSC164/2019-CHN/0182, Dt: 04.02.2020. Further, compliance reported for the condition stipulated in the Stage-I were submitted to principal chief conservator of FOHS vide Lr. CE/C/Thermal/SE/C/TCD-II/F.Forest land/D.No. 170/21, Dt: 28.01.2020 for according stage-II clearance (final approval) Also PCCF accorded working permission vide RC. No. 6727/2018/FCA-4, Dt: 08.03.2021 for taking up of Railway line construction.Work in progress.			

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)				MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL (21.03.2015)			
Sl.	MILESTONE	UNIT-04		Sl.	Packages	UNIT	% Completion
		Original Date of Completion	Actual/Anticipated Date of Completion	1	BOILER	UNIT-04	87%
1	COMPLETION OF BOILER FOUNDATION	18.04.2016	15.02.2018	2	TG	UNIT-04	99%
2	START OF BOILER ERECTION	19.04.2016	03.08.2018	3	ESP	UNIT-04	84%
3	BOILER DRUM LIFTING	20.07.2016	21.08.2018	4	FGD	ENGINEERING IN PROGRESS	
4	BOILER CEILING GIRDER LIFTING COMPLETION	10.08.2018		STATUS OF BOPs			
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	19.02.2017	16.02.2020	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC- BHEL)	% Completion
6	BOILER HYDRO TEST (NON- DRAINABLE) COMPLETION	19.02.2017	03.04.2021	1	Chimney	M/s Shree Vijya	89%
7	BOILER LIGHT UP	19.05.2017	16.04.2021	2	Coal Handling Plant	M/s Macawber (Conveyor package)	88%
8	CHEMICAL CLEANING COMPLETION	19.06.2017	Jun'21			TRF (Wagon Tripler)	30%
9	STEAM BLOWING START	03.07.2017	Aug'21			TRF (Stacker Reclaimer)	80%
10	STEAM BLOWING COMPLETION	19.07.2017	Aug'21	3	Ash Handling Plant	M/s Macawber	85%
11	HP PIPING ERECTION START	08.06.2019		4	Fuel Oil System	M/s GMW Eng.	100%
12	HP PIPING ERECTION COMPLETION	July'21		5	Cooling Towers	M/s Paharpur Cooling towers	100%
13	CONDENSER ERECTION START	20.10.2016	24.12.2019	6	CW Pump house & Piping	M/s RVPR & M/s G&J	100%
14	TG ERECTION START	20.10.2016	17.12.2019	7	PT Plant	M/s Clear Water System	100%
15	TG BOX UP	19.07.2017	29.01.2021	8	DM Plant	M/s ION Exchange	100%
16	START OF OIL FLUSHING	19.07.2017	30.01.2021	9	Air Compressor	M/s ATLAS COPCO	100%
17	ROLLING & SYNC.	18.08.2017	Sept'2021	10	Fire Protection System	BHEL	85%
18	FULL LOAD	04.09.2017	Oct-21	11	Switch Yard	M/s Sreeco, PRV	100%
19	TRIAL RUN	17.09.2017	Oct-21	12	Station Transformers	M/s PRV	100%
20	COD	20.09.2017	Oct-21	13	Unit Transformers	M/s PRV	75%
21	PG TEST START AND COMPLETION	11.12.2018	Nov-21	14	Railway siding		14%
				15	Power Evacuation	M/s PRV	100%

Reasons of Delay:

All the work of BTPS was suspended due to Environmental Clearance from NGT for 15months

Due to monsoon, the works were affected severely during rain seasons from FY 2017 to 2020 as the BTPS Manuguru area is prone to heavy rain

Work is affected due to Covid -19 pandemic

Work Hampered due to non-availability of oxygen

CRITICAL AREAS: NIL

YADADRI TPS (5x800 MW)

As on 31.08.2021

STATE SECTOR

Developer- TSGENCO	Zero Date: 17.10.2017	Main Plant Vendor- BHEL (EPC)	Original/ Anticipated Trial Run UNIT-01		Oct' 20/Feb 23
			Original/ Anticipated Trial Run UNIT-02		Oct' 20/March 23
			Original/ Anticipated Trial Run UNIT-03		Jun' 21/April 23
			Original/ Anticipated Trial Run UNIT-04		Jun' 21/May 23
			Original/ Anticipated Trial Run UNIT-05		Oct' 21/June 23
ADDRESS : -Veerlapalem village, Damercharla Mandal,Nalgonda, Telangana -508208			E-GEN PORTAL: UNIT 01-1200001092, UNIT 02-1200001093, UNIT 03-1200001094, UNIT 04-1200001095, UNIT 05-1200001096		
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)		
FUEL TYPE		Coal	ORIGINAL ESTIMATED COST OF THE PROJECT		Rs.25,099.42 Crores. Administrative approval vide 29.08.2015
COAL COMBUSTION TECHNOLOGY		Supercritical	LATEST ESTIMATED COST		Rs.29,965.48 Crores .Revised administrative approval vide Dt: 23.12.2017
APPROVAL DATE/NOTICE TO PROCEED (NTP)		04.10.2014 (MoU entered with BHEL)	DATE OF FINANCIAL CLOSURE		M/s REC Ltd vide Lr dt 11-08-2015. 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 Total land acquired - Acs 5459.39 Gts Total land in use - Acs 2800	EXP. DURING 2020-21		4427.54
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 AUG'21		258.14
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 31.08.21)		11977.29
CIVIL AVIATION CLEARANCE		1.NOCID:NADI/SOUTH/B/071216/149982,Dt:26.07.2016. 2.NOCID:NADI/SOUTH/B/071216/149984,Dt:26.07.2016. 3. NOCID:NADI/SOUTH/B/071216/149988,Dt:26.07.2016.			
CPCB CLEARANCE		Not Applicable			
SPCB CLEARANCE		Consent for Establishment (CFE) received from TSPCB vide Order No.10/TSPCB/CFE/RO-NLG/HO/2017, Dt.25-07-2017.			
FOREST CLEARANCE		Approval was accorded by Central Govt. Ministry of Environment, Forest, Climate Change, MoEF &CC, GOI, FC Section, New Delhi for diversion of forest land to an extent of 1892.35 hectares vide Lr.no.F.No.8.07/2015-FC dt.07-07-2015 Subsequent G.O. was issued by Govt. of Telangana vide G.O.Ms.No.38,dt.30-07-2015 by EFS & T (For) Department			

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)												MAIN PLANT PACKAGE (BTG VENDOR):							
Sl.	MILESTONE	UNIT-01		UNIT-02		UNIT-03		UNIT-04		UNIT-05		Sl.	Packages	AREA	UNIT-01 (Percentage Completi on)	UNIT-02 (Percent age Comple tion)	UNIT-03 (Percentage Completi on)	UNIT-04 (Percentage Completi on)	UNIT-05 (Percentage Completi on)
		Original Date of Completion	Actual/Anticipated DateofComp letion	Original Date of Completion	Actual/Anticipated DateofComp letion	Original Date of Completion	Actual/Anticipated DateofComp letion	Original Date of Completion	Actual/Anticipated DateofComp letion	Original Date of Completion	Actual/Anticipated DateofComp letion				1	BOILER	CIVIL STRUCTURE PRESSURE PARTS	100 31.89 11.21	100 35.7 14.62
1	COMPLETION OF BOILER FOUNDATION	-	08.01.20	-	29.12.19	-	11.02.20	-	16.02.20	-	23.03.20	2	TG	STRUCTURAL TG Deck TG Mech	74.93 100 0	67.76 100 0	57.19 59.39 0	34.72 40.72 0	31.45 3.10 0
2	START OF BOILER ERECTION	Jul'2018	18.02.20	Jul'2018	30.07.20	Mar'2019	18.03.20	Mar'2019	30.07.20	Jul'2021	14.08.20	3	ESP	UNDER PROGRESS	70.9	68.39	61.85	58.69	35.31
3	BOILER DRUM LIFTING	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	FGD	YET TO START	STATUS OF BOPs				
4	BOILER CEILING GIRDER LIFTING COMPLETION	-	31.01.21	-	31.03.21	-	11.04.21	-	09.06.21	-	09.06.21	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC- BHEL)	UNIT-01 (Percentage Completi on)	UNIT-02 (Percent age Comple tion)	UNIT-03 (Percentage Completi on)	UNIT-04 (Percentage Completi on)	UNIT-05 (Percentage Completi on)
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	Oct'2019	31.01.22	Oct'2019	31.03.21	Jun'202	28.02.22	Jun'202	31.05.22	Oct'2020	30.06.22								
6	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	Mar'2020	15.06.22	Mar'2020	15.08.22	Nov'2020	15.08.22	Nov'2020	15.10.22	Mar'2021	15.11.22	1	Chimney	Bygging India Ltd for Unit #1&2 Pharpur for Unit #3&4 Bygging India Ltdfor Unit #5	41.45%	41.45%	47.13%	47.13%	25.29%
7	BOILER LIGHT UP	Apr'2020	31.07.22	Apr'2020	30.09.22	Dec'2020	31.08.22	Dec'2020	30.11.22	Apr'2021	31.12.22	2	Coal Handling Plant (civil)	Powermech (Conveyor package)	42.87%				
8	CHEMICAL CLEANING	-	29.08.22	-	29.09.22	-	29.10.22	-	29.11.22	-	29.12.22			Powermech (Wagon tripler	40.18%				
9	STEAM BLOWING START	-	14.09.22	-	14.10.22	-	14.11.22	-	14.12.22	-	14.01.23			Powermech (Stacker Reclaimer)	24.50%				
10	STEAM BLOWING COMPLETION	Jul'2020	14.10.22	Jul'2020	14.11.22	Mar'2021	14.12.22	Mar'2021	14.01.23	Jul'2021	14.02.23	3	Ash Handling Plant (civil)	Powermech / Indure	9.90%				
11	HP PIPING ERECTION START	-	01.04.21	-	01.05.21	-	01.06.21	-	01.07.21	-	01.08.21	4	Fuel Oil System	Thermosystems	0				
12	HP PIPING ERECTION COMPLETION	-	13.10.22	-	13.11.22	-	13.12.22	-	13.01.23	-	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	4.53%	4.99%	3.22%	4.24%	1.44%
13	CONDENSER ERECTION START	Mar'2019	31.03.21	Mar'2019	31.05.21	Nov'2019	30.06.21	Nov'2019	31.07.21	Mar'2020	31.08.21	6	CW Pump house & Piping	CW pump house &channel - BHEL/HES /	33%		8.46%		
14	TG ERECTION START	Apr'2019	03.05.21	Apr'2019	03.06.21	Dec'2019	03.07.21	Dec'2019	03.08.21	Apr'2020	03.09.21	7	PT Plant(CIVIL)	SCC/Gaja	39.74%				
15	TG BOX UP	May'2020	31.05.22	May'2020	31.07.22	Jan'2021	31.08.22	Jan'2021	30.09.22	May'2021	31.10.22	8	DM Plant (CIVIL)	SCC/Wipro	36.20%				
16	START OF OIL FLUSHING	Jun'2020	30.04.22	Jun'2020	31.05.22	Feb'2021	30.06.22	Feb'2021	30.07.22	Jun'2021	30.08.22	9	Air Compressor	HES	39.28%				
17	ROLLING & SYNC.	Jul'2020	30.10.22	Jul'2020	31.12.22	Mar'2021	31.01.23	Mar'2021	31.03.23	Jul'2021	31.05.23	10	Fire Protection System	BHEL	0				
18	FULL LOAD	Sept'2020	15.02.23	Sept'2020	15.03.23	May'2021	15.04.23	May'2021	15.05.23	Sept'2021	15.06.23	11	Switch Yard	Bluechip	15.62%				
19	TRIAL RUN	Oct'2020		Oct'2020		Jun'2021		Jun'2021		Oct'2021		12	Station Transformers	EIPL/KEPL	70%	65%	80%	70%	65%
20	COD	Oct'2020	28.02.23	Oct'2020	31.03.23	Jun'2021	30.04.23	Jun'2021	31.05.23	Oct'2021	30.06.23	13	UnitTransformer	EIPL/KEPL					
21	PG TEST START AND COMPLETION	-		-		-		-		-		14	Railway siding		0%				
												15	Power Evacuation	TS TRANSCO/MEIL	40%				

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

As on 31.08.2021
STATE SECTOR

Developer- KPCL	Zero Date: 03.11.2015	Main Plant Vendor-BHEL (EPC Contract-03.11.2015)	Original/Anticipated Trial Run	Feb 2018/ Nov 2021
ADDRESS : - Yelahanka Combined Cycle Power Plant (YCCPP), Doddballapura Road, Bengalure, Karnataka-560064			E-GEN PORTAL: REGISTRATION STATUS- Yes, Reg No. 1200002031	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	RLNG (Regasified Liqueified 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	219.28
WATER ALLOCATION	15 MLD Tertiary treated plant at JAKKUR is supplying water to YCCP Plant		Exp of AUG'21	4.79
MOEF CLEARANCE	Approval No : State Level environment impact assessment authority(SEIAA) no SEIAA20IND 2014 DATED 1/9/2015		TOTAL EXPENDITURE (UPTO 31.08.21)	2030.14
CIVIL AVIATION CLEARANCE	Approval no : AAI /KIA/ATM/NOC/488-92 DATED 5/5/2015			
CPCB CLEARANCE	NOT APPLICABLE			
SPCB CLEARANCE	Approval No : KSPCB/CFE/CEO/KPCL/2015-16/H1033 DATED 02/11/2015			
FOREST CLEARANCE				

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)				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	07.01.2016	11.09.2016	3	ESP	NOT APPLICABLE	
3	BOILER DRUM LIFTING	03-10-17	04-07-17	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	01.08.2021				
9	STEAM BLOWING START	26/10/2017	01.09.2021				
10	STEAM BLOWING COMPLETION	30/10/2017	01.10.2021	3	Ash Handling Plant	NOT APPLICABLE	
11	HP PIPING ERECTION START	NA	01.09.2017	4	Fuel Oil System	NOT APPLICABLE	
12	HP PIPING ERECTION COMPLETION	NA	01.11.2021	5	Cooling Towers	M/s BHEL/ BJCL	90%
13	CONDENSER ERECTION START	14/08/2017	01.11.2017	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) Aug 2021 (GT)	8	DM Plant	M/s BHEL/ GE (Mechanical work) M/s BHEL/ BJCL (Civil work)	100%
16	START OF OIL FLUSHING	30/09/2017 09.10.2017	01.02.2021 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	Nov-21	10	Fire Protection System	M/s BHEL (Mechanical work) M/s BHEL/ BJCL (Civil work)	100%
18	FULL LOAD	17/12/2017	Nov-21	11	Switch Yard	BHEL-TBG	
19	TRIAL RUN	07.02.2018	Nov-21	12	Station Transformers	M/s BHEL/ BJCL (Civil work)	100%
20	COD	01.03.2018	Nov-21	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	Dec-21	14	Railway siding	NOT APPLICABLE	
				15	Power Evacuation	KPTCL	95

REASONS OF DELAY :

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

CRITICAL AREAS: NIL

ENNORE SEZ STPP (2X660 MW)

As on 31.08.2021

STATE SECTOR

Developer- TANGEDCO	Zero Date: 27.09.2014	Main Plant Vendor-M/S BHEL (EPC)	Original/ Anticipated Trial Run UNIT-01	Nov'17/ Mar'23
			Original/ Anticipated Trial Run UNIT-02	Jan'18/ Apr'23
ADDRESS : - Voyalur village, Minjur 601203, Thiruvallur Dist. Tamil Nadu			E-GEN PORTAL: Unit 1 No: 1200001984 Unit 2 No: 1200001985	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Coal		ORIGINAL ESTIMATED COST OF THE PROJECT	Rs.9800.00 Crores
COAL COMBUSTION TECHNOLOGY	Supercritical		LATEST ESTIMATED COST	Rs.9800.00 Crores
APPROVAL DATE/NOTICE TO PROCEED (NTP)	27.09.2014		DATE OF FINANCIAL CLOSURE	ETripartite agreement between TANGEDCO, M/s BHEL (EPC contractor), PFC (Lender) signed on 21.11.16 and Loan agreement between PFC and TANGEDCO signed on 18.01.17.
ZERO DATE:	27.09.2014		EXP. DURING 2016-17	558.04
PPA	State sector project. Hence entire 100% power from this project will be utilized by TAMILNADU		EXP. DURING 2017-18	2276.51
COAL LINKAGE/FSA	Long term Coal Linkage application submitted on 26.02.2010 to Ministry of Coal/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 utilised for the development of the subject project)		EXP. Aug'2021	14.41
WATER ALLOCATION	Supply of 4 MGD water from CMWSSB obtained. However desalination plant is envisaged in the project.		TOTAL EXPENDITURE (UPTO DATE 31.08.2021)	4554.81
MOEF CLEARANCE	MOEF Letter No. J 13012 / 36/2010-1A.II(T) dt.07.01.2014. Validityextended 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					
						1	BOILER	CIVIL STRUCTURE PRESSURE PARTS	90% 89%	90% 74%
1	COMPLETION OF BOILER FOUNDATION	13.08.15	14.09.17	13.10.15	07.06.18	2	TG	CIVIL STRUCTURE PRESSURE PARTS	25% YET TO START YET TO START	37% YET TO START YET TO START
2	START OF BOILER ERECTION	25.08.15	15.09.17	28.10.15	08.06.18	3	ESP	UNDER PROGRESS	70%	57.94%
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	30.07.22	28.06.17	30.08.22	1	Chimney	M/s.Simplex	100%	
7	BOILER LIGHT UP	30.05.17	30.08.22	29.07.17	30.09.22	2	Coal Handling Plant	M/s.Bevcon (Conveyor package supply),M/s.FLSIDTH- Pipe conveyor package	95%(Civil works)	
8	CHEMICAL CLEANING	10.06.17	07.09.22	10.08.17	05.10.22			M/L&T: Crusher package supply		
9	STEAM BLOWING START	20.06.17	15.09.22	20.08.17	10.10.22			M/s.Promac : Stacker Reclaimer supply, M/s.Elecon : Vibrating Grizzly feeder supply, M/s.BEML: Dozers supply, M/s.APC: Water system	Supply Stacker Reclaimer - 40% Vibrating Grizzly feeder supply -100% Dozers supply -100%	
10	STEAM BLOWING COMPLETION	15.07.17	15.10.22	15.09.17	10.11.22	3	Ash Handling Plant	M/s.Indure (for supply and erection for mechanical packages) , M/s.Turbo Engineers for Sluury disposal pipes supply M/s.Weir for Slurry pumps supply, M/s.Atlas Copco& M/s.Ingersoll for Compressor supply M/s.Suraj cables for LT cables, M/s.Gem cabs for HT power cable supply, BHEL - BPL for HT motors, M/s.Mahaveer for earthing material supply,M/s.Premier for Cable trays & accessories supply	8% (Civil works)	
11	HP PIPING ERECTION START	27.04.16	15.03.22	27.06.16	15.01.22	4	Fuel Oil System	M/s.New Fire Engineers Pvt Ltd.	46% Civil works	
12	HP PIPING ERECTION	27.05.16	15.03.22	27.07.16	15.01.22	5	Cooling Towers	M/s.Simplex (Design – Paharpur)	19%	7%
13	CONDENSER ERECTION START	27.04.17	15.12.22	20.06.17	15.01.23	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% Piping – 1%	
14	TG ERECTION START	10.06.17	20.12.22	10.08.17	25.01.23	7	PT Plant	M/s.Otoklin Global business services for supply and erection package	Civil works - 2%	
15	TG BOX UP	27.09.17	30.01.23	27.11.17	15.03.23	8	DM Plant	M/s Cornerstone (De-scoped from M/s.Simplex)	Civil works - 26%	
16	START OF OIL FLUSHING	27.10.17	28.02.23	27.12.17	30.03.23	9	Air Compressor	M/s.ELGI Equipments Ltd.	Civil works - 68%	
17	ROLLING & SYNC.	27.11.17	30.03.23	27.01.18	30.04.23	10	Fire Protection Sys	BHEL- PE&SD	Civil works - 5%	
18	FULL LOAD	27.10.17	28.02.23	27.12.17	30.03.23	11	Switch Yard	BHEL-TBG (Awarded to Sakthi Kanna Construction Ltd & M/s.Vijay Gowtham- De-scoped from M/s.Simplex)	Civil works - 38%	
19	TRIAL RUN	27.11.17	30.03.23	27.01.18	30.04.23	12	Station Transformers	M/s Cornerstone	Civil works - 23%	
20	COD	27.01.18	15.04.23	27.03.18	15.05.23	13	Unit Transformers	M/s Cornerstone	Civil works - 23%	
21	PG TEST START AND COMPLETION	27.01.18	30.04.23	27.03.18	30.05.23	14	Railway siding	NA		
						15	Power Evacuation	TANGEDCO Scope		

REASONS OF DELAY :

- 1) Zero date is 27.09.2014, Works commenced at Site on 09.10.2014. Project works temporarily suspended from 07.09.2015 to 18.10. 2016 due to litigation. Work resumed at Site from 19.10.2016. Completion schedule re-fixed to 06.05.2019 (without levy of LD & penalty) due to time loss of 407 day due to court case. Time extension granted from 06.05.2019 to upto 31.08.2020 for U#1 and 31.10.2020 for Unit 2 without prejudice to levy of LD & Penalty clauses. Once again time extension granted from 01.09.2020 to 31.05.2022 for Unit 1 & from 01.11.2020 to 14.08.2022 for Unit 2 without prejudice to levy of LD & Penalty clauses.
- 2) Entire project civil works were awarded to M/s. Simplex. Wherever slow progress of work noticed, BHEL has de scoped the certain works from M/s. Simplex based on TANGEDCO's request, but still the progress is very poor from M/s. Simplex.
- 3) Project activities are slow down since 24th March 2020 due to lock down enforced by GOI in view of COVID-19 outbreak.

CRITICAL AREA/ ASSSISTANCE REQUIRED:

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

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

UPPUR STPP (2X800 MW)

As on 31.08.2021
STATE SECTOR

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		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 JUL'21	NIL
WATER ALLOCATION	Tamil Nadu Maritime Board has issued NOC for Construction of Jetty for drawal and discharge of cooling water, vide 27.4.2015.		TOTAL EXPENDITURE (UPTO 31.07.21)	2298
MOEF CLEARANCE	Ministry of Environment and Forest has accorded clearance for the above Project on 18.05.2016.			
CIVIL AVIATION CLEARANCE	Clearance expired on 21.11.2019. Clearance further extended upto 21.11.2024.			
CPCB CLEARANCE	NOT APPLICABLE. State sector project.			
SPCB CLEARANCE	CRZ committee of MOEF recommended the Project on 28.1.16 and MOM published in web site on 8.2.16.			
FOREST CLEARANCE	NOT APPLICABLE			

NOTE:

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 restudy the shifting of UPPUR Project

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	23% 55% 1%	30% 31% NIL
1	COMPLETION OF BOILER FOUNDATION	-		-		2	TG	CIVIL STRUCTURE PRESSURE PARTS	WORK YET TO BE COMMENCED	
2	START OF BOILER ERECTION	May'16		May'16		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	May'18		May'18		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	Nov'18		Nov'18		1	Chimney	RETENDERING WORK UNDER PROGRESS	RETENDERING WORK UNDER PROGRESS	RETENDERING WORK UNDER PROGRESS
7	BOILER LIGHT UP	Nov'18		Nov'18		2	Coal Handling Plant			
8	CHEMICAL CLEANING	-		-						
9	STEAM BLOWING START	-		-						
10	STEAM BLOWING COMPLETION	Jan'2019		Jan'2019		3	Ash Handling Plant			
11	HP PIPING ERECTION START	-		-		4	Fuel Oil System			
12	HP PIPING ERECTION COMPLETION	-		-		5	Cooling Towers			
13	CONDENSER ERECTION START	Jan'2018		Jan'2018		6	CW Pump house & Piping			
14	TG ERECTION START	Feb'2018		Feb'2018		7	PT Plant			
15	TG BOX UP	Nov'2018		Nov'2018		8	DM Plant			
16	START OF OIL FLUSHING	-		-		9	Air Compressor			
17	ROLLING & SYNC.	Feb'2019		Feb'2019		10	Fire Protection System			
18	FULL LOAD	Mar'2019		Mar'2019		11	Switch Yard			
19	TRIAL RUN	Nov'2019		Nov'2019		12	StationTransformers			
20	COD	Nov'2019		Nov'2019		13	UnitTransformer			
21	PG TEST START AND COMPLETION	-		-		14	Railway siding			
		-		-		15	Power Evacuation			

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

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

NORTH CHENNAI STPP STAGE III (1X800MW)

As on 31.08.2021
STATE SECTOR

Developer- TANGEDCO	Zero Date:29.01.2016	Main Plant Vendor-M/S BHEL (BTG)	Original/ Anticipated Trial Run UNIT-08	April'2019/ May'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 Based		ORIGINAL ESTIMATED COST OF THE PROJECT	Rs.6376 crores.
COAL COMBUSTION TECHNOLOGY	Super critical		LATEST ESTIMATED COST	Rs.8722.86 crores
APPROVAL DATE/NOTICE TO PROCEED (NTP)	BTG : SE/E/T & H (P)/ OT No. 02/2015-16 ; BOP : SE/E/T & H (P) OT No.04/2015-16		DATE OF FINANCIAL CLOSURE	In-principial 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 TANTRANSCO.		EXP. DURING 2016-17	198.08
LAND POSSESSION	The proposed site is within the existing NCTPS complex and land is already underpossession of TANGEDCO.		EXP. DURING 2017-18	929.75
WATER ALLOCATION	The raw water requirement for this project will be met from existing cooling water fore-bay of NCTPS, Stage-II. The make up water for cooling water, boiler make up and other sweet water requirements are to be met from desalination plant under construction for this project. Construction water from M/s. CMWSSB available to the contractor from 07.01.2017.		EXP. DURING 2018-19	2243.52
MOEF CLEARANCE	Environmental clearance issued by MoEF on 20.01.2016 valid for a period of seven years.		EXP. DURING 2019-20	2090.62
CIVIL AVIATION CLEARANCE	Chimney constructed for full height and the same was informed to Airports Authority of India.		EXP. DURING 2020-21	928.95
CPCB CLEARANCE	NOT APPLICABLE. Statesector project.		EXP. OF AUG'21	9.72
SPCB CLEARANCE	Approval has been obtained on 13.04.2017.		TOTAL EXPENDITURE (UPTO 31.08.21)	6595.56
FOREST CLEARANCE	NOT APPLICABLEsince the same is not coming under Forest area.			

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)				MAIN PLANT PACKAGE (BTG VENDOR): M/S BHEL (29.01.2016)				
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% 80% 96%	
1	COMPLETION OF BOILER FOUNDATION	31-10-2016	14-06-2018	2	TG	Civil works Structural works Pressure Parts	100% 98% 90%	
2	START OF BOILER ERECTION	29.11.2016	30.08.2017	3	ESP	Pass status	100.00%	
3	BOILER DRUM LIFTING	NA	NA	4	FGD	WORK AWARDED on 22.02.2021. DESIGN AND ENGINEERING WORKS 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	01.07.2021	1	Chimney	M/s BGRESL	97%	
7	BOILER LIGHT UP	29.10.2018	23.02.2021	2	Coal Handling Plant			77%
8	CHEMICAL CLEANING	27.02.2019	01.08.2021					
9	STEAM BLOWING START	31-12-2018	01.10.2021					
10	STEAM BLOWING COMPLETION	29-01-2019	01.11.2021	3	Ash Handling Plant			48%
11	HP PIPING ERECTION START	24-10-2017	25.03.2018	4	Fuel Oil System			95%
12	HP PIPING ERECTION COMPLETION	13-04-2019	01.08.2021	5	Cooling Towers			82%
13	CONDENSER ERECTION START	29.08.2017	02.01.2019	6	CW Pump house & Piping			60%
14	TG ERECTION START	28.10.2017	25.02.2019	7	PT Plant			75%
15	TG BOX UP	07.11.2018	01.02.2021	8	DM Plant			80%
16	START OF OIL FLUSHING	29.11.2018	03.11.2020	9	Air Compressor			90%
17	ROLLING & SYNC.	28-02-19	March 2022	10	Fire Protection System			72%
18	FULL LOAD	28.03.2019	April 2022	11	Switch Yard			80%
19	TRIAL RUN	28-04-2019	May 2022	12	Station Transformers	BHEL / PSSR		100%
20	COD	28.07.2019	June 2022	13	Unit Transformers	BHEL / PSSR	82%	
21	PG TEST START AND COMPLETION	28-07-2019	July 2022	14	Railway siding	NA		
				15	Power Evacuation	TANTRANSCO	88%	

REASONS OF DELAY:

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

CRITICAL AREAS:

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

TUTICORIN TPP STAGE IV (1x525 MW)

As on 31.08.2021
PRIVATE SECTOR

Developer- M/s. SEPC Power Private Ltd.	Zero Date: 18.01.2014	Main Plant Vendor- BHEL-BTG	Original/Anticipated Trial Run UNIT-01	SEP 2018 /Oct 2021
ADDRESS : -M/s. SEPC Power Private Ltd., Check Post 1, VOC Road, VOC Port Trust, Thoothukudi , TamilNadu -628004			E-GEN PORTAL: REGISTRATION STATUS- YES (1200000178)	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Imported Coal		ORIGINAL ESTIMATED COST OF THE PROJECT	Original & Latest Estimated Project Cost #: Rs 3514 Crore (TNERC approved Cost on 30.4.2015). Latest cost would be submitted as Part of final true up of capital cost.
COAL COMBUSTION TECHNOLOGY	Sub Critical		LATEST ESTIMATED COST	
APPROVAL DATE/NOTICE TO PROCEED (NTP)	Project Approval Date: 03.08.2009		DATE OF FINANCIAL CLOSURE	30.10.2015 (FCD approved by Hon'ble TNERC)
ZERO DATE:	30.10.2015 (NTP issued to EPC Contractor), 18.01.2014 (Date of Award on EPC Basis to M/s MEIL)		Exp. Upto Fy 2015-16	480.79
PPA	Signed with TANGEDCO and the PPA approved by the Hon'ble TNERC on 30.04.2015.		Exp. during 2016-17	248.7
COAL LINKAGE/FSA	Imported Coal firmed up and the Agreement with the Coal Supplier was approved by Hon'ble TNERC on 10.1.2020.		Exp. during 2017-18	822.94
START UP POWER AGREEMENT	09.10.2020 (Date of availing startup Power)		Exp. during 2018-19	508.91
POWER EVACUATION SYSTEM	2 X 400 kV approved by CEA and to be implemented by TANGEDCO / TANTRANSCO		Exp. during 2019-20	812.56
LAND POSSESSION	Land Lease Agreement signed with VOC Port trust. lease land of 36.81 Ha from VOCPT besides ash land of 262.4 acres		Exp. during 2020-21	561.55
WATER ALLOCATION	Sea Water Desalination Plant is envisaged for meeting water requirement of the Power Plant. Permission to draw Sea Water from Sheltered Basin has been obtained from Port		Exp of AUG'21	2.97
MOEF CLEARANCE	MOE & F Clearance Obtained and extended upto 2.11.2020. Since all construction works are completed (Civil & Mechanical) within the month of September 2020, thereafter CTO was obtained and therefore EC valid until 2.11.2020 is adequate and hence further extension not being taken up or required.		Total Exp.(UPTO 31.08.21)	3646.39
CIVIL AVIATION CLEARANCE	Civil Aviation Clearance Obtained and valid up to 17.12.2021.			
CPCB CLEARANCE	NA			
SPCB CLEARANCE	State Pollution Control Board Clearance Obtained and valid upto 30.11.2021.			
FOREST CLEARANCE	NA			

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)				MAIN PLANT PACKAGE (BTG VENDOR): 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	99% 97% 100%
1	COMPLETION OF BOILER FOUNDATION	15/12/2015	15/12/2015	2	TG	Civil works Structural works Pressure Parts	99% 100% 98%
2	START OF BOILER ERECTION	15/12/2016	15/12/2016	3	ESP	Status	99%
3	BOILER DRUM LIFTING	13/08/2017	13/08/2017	4	FGD	YET TO AWARD	
4	BOILER CEILING GIRDER LIFTING COMPLETION	NP	NP	STATUS OF BOPs			
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	28/12/2018	28/12/2018	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency	% Completion
6	BOILER HYDRO TEST (NON-DRAINABLE) COMPLETION	28/12/2019	12/03/2020	1	Chimney	Paharpur	100%
7	BOILER LIGHT UP	16/04/2020	20/10/2020	2	Coal Handling Plant	Lepton/MEIL (Conveyor package)	100%
8	CHEMICAL CLEANING COMPLETION	NP	NP				
9	STEAM BLOWING START	NP	NP				Promac India (Stacker Reclaimer)
10	STEAM BLOWING COMPLETION	16/05.2020	15/02/2021	3	Ash Handling Plant	MBPL	99%
11	HP PIPING ERECTION START	NP	NP	4	Fuel Oil System	MEIL	100%
12	HP PIPING ERECTION COMPLETION	NP	NP	5	Cooling Towers	Paharpur	100%
13	CONDENSER ERECTION START	08/09/2017	08/09/2017	6	CW Pump house & Piping	Flow Serve	100%
14	TG ERECTION START	08/09/2017	08/09/2017	7	PT Plant	Tecton	100%
15	TG BOX UP	25/02/2020	05/01/2021	8	DM Plant	Tecton	100%
16	START OF OIL FLUSHING	25/02/2020	30/09/2020	9	Air Compressor	Atlas Copco (I) Ltd.	100%
17	ROLLING & SYNC.	29.06.2020	11/09/2021	10	Fire Protection System	IDSL	100%
18	FULL LOAD	29.08.2020	20/09/2021	11	Switch Yard	GE T&D	100%
19	TRIAL RUN	03.09.2020	10/2021	12	Station Transformers		
20	COD	23.09.2020	04/10/2021	13	Unit Transformers	Prolec GE	100%
21	PG TEST START AND COMPLETION	NP	NP	14	Railway siding		
				15	Power Evacuation		

REAONS OF DELAY:

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

UDANGUDI STPP - STAGE-I (2x660MW)

As on 31.08.2021
STATE SECTOR

Developer-TANGEDCO	Zero Date: 07/12/2017	Main Plant Vendor-M/S BHEL (EPC)	Original/ Anticipated Trial Run UNIT-01	Jan'2021/ May'2023
			Original/ Anticipated Trial Run UNIT-02	Mar'2021/ July'2023
ADDRESS : - Distt. Thoothukudi, Tamil Nadu [TANGEDCO]			E-GEN PORTAL: Yes, Reg. No. Unit-1: 1200002175, Unit -2: 1200002176	
CLEARANCES AND STATIC DATA			FINANCIAL DATA (in Crore)	
FUEL TYPE	Coal Base		ORIGINAL ESTIMATED COST OF THE PROJECT	Rs.12778 Crores
COAL COMBUSTION TECHNOLOGY	Supercritical		LATEST ESTIMATED COST	Rs.12778 Crores
APPROVAL DATE/NOTICE TO PROCEED (NTP)	BGT-SE/E/T & H(P)/OT No. 01/ 2015-16. 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	Rs.366.61Cr
LAND POSSESSION	Land reuired for the proeject is under TANGEDCO Possesson. EPC Contracts awarded to M/s. BHEL & M/S L&T has been suspended as per the NGT(SZ), Chennai Judgment dated 17.03.2021, delivered on Appeal No. 144 of 2016(SZ) filed in the designated court for a period of six months or until further orders		EXP. OF Aug'2021	118.68
WATER ALLOCATION	Tamil Nadu Maritime Board has issued NOC for construction of Jetty for drawal and discharge of cooling water, vide 27.4.2015.		TOTAL EXPENDITURE (UPTO DATE 31.08.2021)	3976.49
MOEF CLEARANCE	Ministry of Environment and Forest has accorded clearance for the above Project on 18.05.2016.			
CIVIL AVIATION CLEARANCE	Clearance expired on 21.11.2019. Clearance further extended upto 21.11.2024.			
CPCB CLEARANCE	NOT APPLICABLE. State sector project.			
SPCB CLEARANCE	CRZ committee of MOEF recommended the Project on 28.1.16 and MOM published in web site on 8.2.16.			
FOREST CLEARANCE	NOT APPLICABLE			

UNDER-CONSTRUCTION UNITS WISE MILESTONE DATES (ACTUAL / ANTICIPATED)						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% 55.5% 3.13%	82.1% 56.5% 8.3%
1	COMPLETION OF BOILER FOUNDATION	12-09-2018	10-04-2021	12-11-2018	21-04-2021	2	TG	CIVIL Fabrication STRUCTURE ERECTION	50.5% 33.2% 5.55%	21.22% 8.95% -
2	START OF BOILER ERECTION	27-09-2018	20-09-2019	27-11-2018	16-09-2019	3	ESP	UNDER PROGRESS	50.40%	51.50%
3	BOILER DRUM LIFTING	-	-	-	-	4	FGD	Vendor 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	23-04-2022	27-04-2020	08-05-2022	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	18-10-2022	02-09-2020	02-11-2022	1	Chimney	M/s.BHEL/ M/s Bygging-Civil M/s.BHEL/ M/s Bygging-Structural Fabrication	98% 70%	
7	BOILER LIGHT UP	09-07-2020	23-11-2022	09-09-2020	08-12-2022	2	Coal Handling Plant	M/s. BHEL/ M/s.Annai / GEO Civil	6.10%	
8	CHEMICAL CLEANING	30-07-2020	13-12-2022	30-09-2020	28-12-2022			M/s. BHEL/ M/s.RPP /URC Structural Erection	-	
9	STEAM BLOWING START	13-08-2020	15-02-2023	13-11-2020	02-03-2023			M/s. BHEL/IGG Mechanical Equipment	-	
10	STEAM BLOWING COMPLETION	03-09-2020	16-02-2023	03-11-2020	03-03-2023	3	Ash Handling Plant	M/s.BHEL/ RPP/Srinic-Civil M/s.BHEL/ M/s.RPP/URC-Structural Erection M/s. BHEL Mechanical Equipment	16.7% -	
11	HP PIPING ERECTION START	30-10-2019	23-06-2022	30-10-2019	08-07-2022	4	Fuel Oil System	M/s.BHEL/ M/s.RPP Civil	18.20%	
12	HP PIPING ERECTION	06-08-2020	02-02-2023	06-10-2020	17-02-2023	5	Cooling Towers	M/s.BHEL/ M/s.Gammon	5.70%	
13	CONDENSER ERECTION START	15-08-2019	28-02-2022	15-10-2019	15-03-2022	6	CW Pump house & Piping	M/s.BHEL/ M/s.B&B M/s.BHEL/ M/s.Akash Techno	41.9% 52.6%	
14	TG ERECTION START	12-09-2019	06-04-2022	12-11-2019	21-04-2022	7	PT Plant	M/s.BHEL/ M/s.B&B	3.40%	
15	TG BOX UP	30-07-2020	31-01-2023	30-09-2020	15-02-2023	8	DM Plant	M/s.BHEL/ M/s.RPP	12.20%	
16	START OF OIL FLUSHING	30-07-2020	24-04-2022	30-09-2020	09-05-2022	9	Air Compressor	M/s.BHEL / M/s.GDCL	-	
17	ROLLING & SYNC.	12-11-2020	01-04-2023	12-01-2021	16-04-2023	10	Fire Protection System	M/s. BHEL/ subcontractor	-	
18	FULL LOAD	31-12-2020	13-04-2023	28-02-2021	28-04-2023	11	Switch Yard	M/s. BHEL/ M/s. JK construction	39%	
19	TRIAL RUN	07-01-2021	04-05-2023	07-03-2021	04-07-2023	12	Station Transformers	M/s.BHEL / M/s.GDCL	-	
20	COD	25-02-2021	16-05-2023	25-04-2021	31-05-2023	13	Unit Transformers	M/s.BHEL / M/s.GDCL	-	
21	PG TEST START AND COMPLETION	08-04-2021	15-06-2023	08-06-2021	30-06-2023	14	Railway siding	Main vendor/ subcontractor	-	
						15	Power Evacuation	L&T Construction Ltd	67%	

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

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

EASTERN
REGION

SAGARDIGHI TPP, PH-III (1X660 MW)

As on 31.08.2021

STATE SECTOR

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		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	236.22
START UP POWER AGREEMENT	Start up power shall be obtained from the other running units of the Sagardighi Thermal Power Project.		Exp. Of Aug'21	19.95
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 31.08.21)	497.65
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 (27.12.2018)		
Sl.	MILESTONE	UNIT-01		Sl.	Packages	% Completion
		Original Date of Completion	Actual/Anticipated Date of Completion	1	BOILER	CIVIL WORKS STRUCTURAL WORKS PRESSURE PARTS PILE WORK 100% .04% NIL
1	COMPLETION OF BOILER FOUNDATION	19.04.2021	U/P	2	TG	CIVIL WORKS STRUCTURAL WORKS PRESSURE PARTS PILE WORK 100%
2	START OF BOILER ERECTION	29.04.2021	27.03.2021	3	ESP	CIVIL WORKS STRUCTURAL WORKS 100% 2.75%
3	BOILER DRUM LIFTING	NA		4	FGD	Not Started yet
4	BOILER CEILING GIRDER LIFTING COMPLETION	30.12.2021	NIL	STATUS OF BOPs		
5	BOILER HYDRO TEST (DRAINABLE) COMPLETION	30.12.2022	30.12.2022	Sl.	Packages/ Linked Project Milestones	Vendor/Contracting Agency (EPC- BHEL) % Completion
6	BOILER HYDRO TEST (NON- DRAINABLE) COMPLETION	29.05.2023	29.05.2023	1	Chimney	M/s. BHEL Detail Engineering in Progress
7	BOILER LIGHT UP	13.06.2023	13.06.2023	2	Coal Handling Plant	(Conveyor package) : M/s Bengal Tools Limited Basic Engineering & finalization of Drawings in Progress
8	CHEMICAL CLEANING COMPLETION	28.06.2023	28.06.2023			Twin Wagon Tippler : M/s ThyssenKrupp)
9	STEAM BLOWING START	13.07.2023	13.07.2023			Existing Stacker Reclaimer of Stage-II will be used
10	STEAM BLOWING COMPLETION	12.08.2023	12.08.2023	3	Ash Handling Plant	M/s. MacawberBeekeyPvt. Ltd. Detail Engineering in Progress
11	HP PIPING ERECTION START	25.11.2022	25.11.2022	4	Fuel Oil System	M/s. BHEL
12	HP PIPING ERECTION COMPLETION	26.08.2023	26.08.2023	5	Cooling Towers	M/s. Paharpur Cooling Towers Limited
13	CONDENSER ERECTION START	03.03.2022	03.03.2022	6	CW Pump house & Piping	M/s. BHEL
14	TG ERECTION START	02.05.2022	02.05.2022	7	PT Plant	Will be used from Existing Existing from Stage – II Project will be used.
15	TG BOX UP	01.06.2023	01.06.2023	8	DM Plant	
16	START OF OIL FLUSHING	28.03.2023	28.03.2023	9	Air Compressor	M/s. BHEL Project is in early stage of development
17	ROLLING & SYNC.	01.09.2023	01.09.2023	10	Fire Protection System	M/s. BHEL
18	FULL LOAD	NP	NP	11	Switch Yard	M/s. BHEL
19	TRIAL RUN	01.01.2024	01.01.2024	12	Station Transformers	M/s. BHEL
20	COD	NP	NP	13	Unit Transformers	M/s. BHEL
21	PG TEST START AND COMPLETION	01.07.2024	01.07.2024	14	Railway siding	NP
				15	Power Evacuation	Power Evacuation from the proposed unit shall be done through the existing electrical network consisting of following feeders : (1) 220 KV New Sagardighi -1, (2) 220 KV New Sagardighi-2, (3) 400 KV Farakka-1, (4) 400 KV Farakka-2, (5) 400 KV Parulia-1, (6) 400 KV Parulia- 2, (7) 400 KV Subhashgram, (8) 400 KV Jeerat, (9) 400 KV Baharampore-1, (10) 400 KV Baharampore- 2, (11) 400 KV Gokarna-1, (12) 400 KV Gokarna -2.

REASONS OF DELAY:

CRITICAL AREAS: NIL

LIST OF ABBREVIATIONS

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