



भारत सरकार

GOVERNMENT OF INDIA

विद्युत मंत्रालय

MINISTRY OF POWER

BROAD STATUS REPORT

Under Construction
THERMAL POWER PROJECTS

फ़रवरी- 2021
February- 2021



तापीय विद्युत परियोजना प्रबोधन प्रभाग
Thermal Project Monitoring Division
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
नई दिल्ली
New Delhi

(विद्युत अधिनियम, २००३ की धारा ७३ (एफ) के तहत के.वि.प्रा. के दायित्व की पूर्णता के लिये संकलित)
(In fulfillment of CEA's obligation under section 73(f) of Electricity)

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 epidemic.

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

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

Chief Engineer (TPM)

This report is based on the details received from various project authorities & other organizations / agencies associated with the project 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 TPP in the country

(a) All India Installed Capacity (MW)

As on 31.12.2020

SECTOR	THERMAL				NUCLEAR	HYDRO (RENEW ABLE)	RENEWA BLE	GRAND TOTAL
	COAL+ LIGNITE	GAS	DIESEL	TOTAL				
State	67191.50	7119.86	236.01	74547.37	0.00	26958.50	2391.52	103897.39
Private	76003.00	10598.74	273.70	86875.44	0.00	3493.00	87129.98	177498.42
Central	62930.00	7237.91	0.00	70167.91	6780.00	15346.72	1632.30	93926.93
Total	206124.50	24956.51	509.71	231590.72	6780.00	45798.22	91153.80	375322.74
In % of Grand Total	54.92	6.65	0.14	61.70	1.81	12.20	24.29	100.00

*As per latest information available with National Power Portal. Installed capacity i.r.o Renewable as on 31.03.2018

(b) Tentative Thermal Capacity likely to be included into National Capacity addition for the next Five years

As on 24.03.2021

FY	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	Total	*Not likely to be commissioned	Grand Total
Central	660	6060	4100	1980	1460	1600	15860	500	16360
State	930	5020	6360	2920	2260	0	17490	660	18150
Private	525	0	0	0	0	0	525	23205	23730
Total	2115	11080	10460	4900	3720	1600	33875	24365	58240

* The list of under construction TPP where work is on hold / not likely to be commissioned is at Page No. 22
Further the details of the same may be seen in Monthly Broad status report for the month of Jan-21.

(c) Total under construction TPP in the country

As on 24.03.2021

Sector	Super Critical (MW)	Sub-Critical (MW)	Total (MW)	Total No. of Projects	Total No of Units
Central	15360	1000	16360	14	26
State	17240	910	18150	17	27
Private	9240	14490	23730	26	53
Total	41840	16400	58240	57	106

(d) Thermal Capacity Addition Target and achievement for the FY 2020-21

As on 24.03.2021

Sector	Target	Achievement
Central	5790	2760
State	4276.15	576.15
Private	525	0
Total	10591.15	3336.15

1.0 12th Plan Capacity Addition:

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:

Thermal capacity addition after 12 th Plan (from 01.04.2017 onwards)						
Sector	2017 - 18		2018-19		2019-20	
	Target (MW)	Achievement (MW)	Target (MW)	Achievement (MW)	Target (MW)	Achievement (MW)
Central	4880	3170	2760	1300	6040	3940
State	3546.15	1260	4506.15	2780	4256.15	2780
Private	2940	2280	Nil	Nil	Nil	Nil
Total	11366.15	6710	7266.15	4080	10296.15	6720
Additional Thermal Capacity included in Capacity Addition						
Central	-	0	-	660	-	-
State	-	500	-	69.755	-	-
Private	-	1500	-	972	-	45
Total	-	2000	-	1701.755	-	45
Grand Total	11366.15	8710	7266.15	5781.755	10296.15	6765

1.4. PROVISIONAL SCHEDULE FOR CAPACITY ADDITION IN 2020-21 (As on 24.03.2021)

S. No.	Project Name	LOA Date	Unit No	Fuel	Targeted Cap. (MW)	Org. COD Sched.	Ant. Trial Run/ COD at the Beginning of the year	Achieved Cap. (MW)	Actual/ Ant. Date of Cap. Addition
	CENTRAL SECTOR								
1	Lara STPP	Dec-12	U-2	Coal	800	May-17	Aug – 20	800	12.07.2020(A)
2	Gadarwara STPP	Mar-13	U-2	Coal	800	Sep-17	Sep – 20	800	16.02.2021(A)
3	Meja STPP	Apr-12	U-2	Coal	660	Feb - 17	Oct – 20	660	12.01.2021(A)
4	Neyveli New TPP	Jun-11	U-2	Lignite	500	Sep-18	Oct - 20	500	03.02.2021(A)
5	Darlipalli STPP St-I	Feb-14	U-2	Coal	800	Nov-17	Nov – 20	-	-
6	Barh STPP Stage - I	Mar-05	U-1	Coal	660	Aug - 09	Nov – 20	-	-
7	Tanda TPP St- II	Sep-14	U-6	Coal	660	Sep-17	Dec – 20	-	-
8	Nabi Nagar STPP	Jan-13	U-2	Coal	660	Jan-17	Jan – 21	-	-
9	Nabi Nagar STPP	Jan-08	U-2	Coal	250	Apr - 12	Feb – 21	-	-
	Total Central Sector				5790			2760	
	STATE SECTOR								
1	Namrup CCGT	Feb-09	ST	Gas	36.15	Jan-12	June - 20	36.15	17.05.2020(A)
2	Bhadradri TPP	Mar-15	U-1	Coal	270	Mar-17	June - 20	270	05.06.2020(A)
3	Bhadradri TPP	Mar-15	U-2	Coal	270	May - 17	Aug - 20	270	07.12.2020(A)
4	Yelahanka CCPP	Nov-15	GT+ST	Gas	370	Mar - 18	Nov - 20	-	-
5	Dr.Narla Tata Rao TPS Stage-V	Oct -15	U-8	Coal	800	Jul - 19	Nov - 20	-	-
6	Sri Damodaran TPS Stage II	Nov-15	U-8	Coal	800	Jun - 19	Dec - 20	-	-
7	Suratgarh SCTPP	Mar-13	U-7	Coal	660	Jul - 16	Dec - 20	-	-
8	North Chennai TPS	Jan - 16	U-1	Coal	800	Jul - 18	Dec - 20	-	-
9	Bhadradri TPP	Mar-15	U-3	Coal	270	Jul -17	Dec - 20	-	-
	Total Sector Sector				4276.15			576.15	
	PRIVATE SECTOR								
1	Tuticorin TPP Stage IV	Jan - 14	U-1	Coal	525	Oct - 18	Jan - 21	-	-
	Total Private Sector				525			0	
	TOTAL THERMAL CAPACITY ADDITION				10591.15			3336.15	

2.1 Thermal Capacity Addition Target/ Achievement for the Year 2012-13

State	Project Name	Impl Agency	Unit No	LOA Date	BTG Supplier	Targeted Cap. (MW)	Actual Cap. comm. (MW)	Comm. Date		COD
								Envisaged at the beginning of year	Ant. /Act(A)	
CENTRAL SECTOR										
Chhattisgarh	Sipat -I	NTPC	U-3	Apr-04	Others	660	660	06/12	02.06.12(A)	01.08.2012
Haryana	Indira Gandhi TPP	APCPL	U-3	Jul-07	BHEL	500	500	12/12	07.11.12(A)	26.04.2013
Jharkhand	Kodarma TPP	DVC	U-2	Jun-07	BHEL	500	500	12/12	15.02.13(A)	14.06.2014
Maharashtra	Mouda TPP	NTPC	U-1	Nov-08	BHEL	500	500	07/12	19.04.12(A)	13.03.2013
Maharashtra	Mouda TPP	NTPC	U-2	Nov-08	BHEL	-	500	-	29.03.13(A)	March 14
MP	Vindhyachal TPP-IV	NTPC	U-11	Jan-09	BHEL	500	500	07/12	14.06.12(A)	01.03.2013
MP	Vindhyachal TPP-IV	NTPC	U-12	Jan-09	BHEL	-	500	-	22.03.13(A)	March 14
TN	Vallur TPP Ph-I	NTECL	U-2	Aug-07	BHEL	500	500	02/13	28.02.13(A)	25.08.2013
Tripura	Tripura Gas	ONGC	Module-1	Jun-08	BHEL	363.3	363.3	11/12	03.01.13 (A)	04.01.2014
UP	Rihand TPP-III	NTPC	U-5	Feb-09	BHEL	500	500	06/12	25.05.12(A)	19.11.2012
Total Central Sector						4023.3	5023.3			
STATE SECTOR										
Chhattisgarh	Korba West Extn.St.III TPP	CSEB	U-5	-	BEHL	-	500	-	22.03.13(A)	05.09.2013
Chhattisgarh	Marwa TPP	CSEB	U-1	Apr-08	BHEL	500	-	02/13	Slipped	-
Delhi	Pragati CCGT - III	PPCL	GT-3	May-08	BHEL	250	250	08/12	27.06.12(A)	28.10.2013
Gujarat	Pipavav CCPP	GSECL	Block-2	Dec-07	BHEL	351	351	01/13	27.03.13(A)	27.03.2013
	Ukai TPP Extn	GSECL	U-6	Sep-07	BHEL	490	490	12/12	05.03.13(A)	08.06.2013
Rajasthan	Ramgarh CCGT	RRVUNL	GT	Aug-09	BHEL	110	110	01/13	20.03.13(A)	06.12.2013
	Ramgarh CCGT	ST-1	BHEL		50	-	02/13	Slipped	-	
MP	Satpura TPP Extn.	MPPGCL	U-10	Mar-08	BHEL	250	250	02/13	22.03.13(A)	18.08.2013
TN	Mettur TPP Ext	TNEB	U-1	Aug-08	Chinese	600	600	06/12	11.10.12(A)	12.10.2013
	North Chennai Extn.	TNEB	U-2	Aug-08	BHEL	600	600	03/13	09.03.13(A)	08.05.2014
UP	Harduaganj Ext	UPRVUNL	U-9	Jun-06	BHEL	250	250	05/12	25.05.12(A)	10.10.2013
	Parichha Extn	UPRVUNL	U-5			250	250	06/12	24.05.12(A)	17.07.2012
	Parichha Extn	UPRVUNL	U-6			250	250	09/12	11.03.13(A)	18.04.2013
Total -State Sector						3951	3911			
PRIVATE SECTOR										
AP	Simhapuri TPP Ph-1	Madhucon Projects Ltd.	U-2	Jan-09	Chinese	150	150	09/12	02.07.12(A)	15.07.2012
	Thamminapatnam TPP-I	Meenakshi Energy Pvt. Ltd.	U-1	Aug-09	Chinese	150	150	08/12	09.09.12(A)	07.10.2012
	Thamminapatnam TPP-I	Meenakshi Energy Pvt. Ltd.	U-2			150	-	11/12	Slipped	-
Chhattisgarh	Kasaipalli TPP	M/s ACB (India)	U-2	Nov-08	Chinese	135	135	06/12	21.06.12(A)	21.06.2012
	Salora TPP	M/s Vandna Vidyut	U-1	Nov-08	Chinese	135	-	12/12	Slipped	-
	Swastik Korba TPS	ACB	U-1	-	Others	25	-	06/12	Slipped	-
	Ratija TPP	SCPL	U-1	-	Chinese	-	50	-	04.02.13(A)	27.02.2013
Gujarat	Mundra Ultra Mega TPP	Tata Power Co.	U-2	May-07	Others	800	800	12/12	25.07.12(A)	28.07.2012
	Mundra Ultra Mega TPP	Tata Power Co.	U-3	May-07	Others	-	800	-	16.10.12(A)	27.10.2012
	Mundra Ultra Mega TPP	Tata Power Co.	U-4	May-07	Others	-	800	-	16.01.13(A)	21.01.2013
	Mundra Ultra Mega TPP	Tata Power Co.	U-5	Jun-07	Others	-	800	-	18.03.13(A)	22.03.2013
	UNO-SUGEN CCPP	Torrent Power Ltd.	Mod-1	-	Others	-	382.5	-	20.01.13(A)	04.04.2013
	Salaya TPP	ESSAR	U-2	Nov-07	Chinese	600	600	08/12	13.06.12(A)	15.06.2012
Haryana	Jhajjar TPP (Mahatma Gandhi TPP)	CLP Power India Pvt. Ltd.	U-2	Jan-09	Chinese	660	660	04/12	11.04.12(A)	19.07.2012
Jharkhand	Adhunik Power TPP	Adhunik Power Co. Ltd.	U-1	May-09	BHEL	270	270	09/12	19.11.12(A)	21.01.2013
	Adhunik Power TPP	Adhunik Power Co. Ltd.	U-2	May-09	BHEL	-	270	-	29.03.13(A)	19.05.2013
	Corporate Power Ltd Ph-I (Maitrishi Usha)	M/s Corporate Power Ltd.	U-1	Dec-09	BHEL	270	-	12/12	Slipped	-
Maharashtra	Bela TTP-I	IEPL	U-1	Dec-08	BHEL	270	270	09/12	20.03.13(A)	18.07.2013
	Butibori TPP	Vidarbha Industries Power Ltd	U-2	Dec-09	Chinese	300	300	08/12	17.08.12 (A)	04.04.2013
	EMCO Warora TPP	EMCO Energy Ltd. (GMR)	U-1	Sep-09	Chinese	300	300	11/12	07.02.13(A)	19.03.2013
	Tirora TPP Ph-I	Adani Power Ltd	U-1	Feb-08	Chinese	660	660	08/12	11.09.12(A)	23.09.2012

State	Project Name	Impl Agency	Unit No	LOA Date	BTG Supplier	Targeted Cap. (MW)	Actual Cap. comm. (MW)	Comm. Date		COD
								Envisaged at the beginning of year	Ant. /Act(A)	
	Tirora TPP Ph-I	Adani Power Ltd	U-2			660	660	11/12	25.03.13(A)	30.03.2013
	Tirora TPP Ph-II	Adani Power Ltd	U-1			660	-	02/13	Slipped	-
	GEPL TPP	GEPL Pvt. Ltd.	U-2	Mar-09	Chinese	-	60	-	28.04.12(A)	-
	GEPL TPP	GEPL Pvt. Ltd.	U-1	-	Chinese	-	60	-	08.09.12(A)	09.05.2012
	Amaravathi TPP Ph-I	Indiabulls	U-1	-	BHEL	-	270	-	25.03.13(A)	03.06.2013
MP	Bina TPP	Bina Power Ltd.	U-1	Sep-08	BHEL	250	250	09/12	12.08.12(A)	30.08.2012
	Bina TPP	Bina Power Ltd.	U-2	Sep-08	BHEL	-	250	-	31.03.13(A)	07.04.2013
	Mahan	Essar Power Ltd.	U-1	-	Chinese	-	600	-	24.02.13(A)	29.04.2013
Orissa	Sterlite TPP	Sterlite Energy Ltd.	U-4	Sep-08	Chinese	600	600	06/12	25.04.12(A)	26.04.2012
	Kamalanga TPP		U-1	-	Chinese	-	350		29.03.13(A)	25.03.2014
Rajasthan	Jallipa- Kapurdi TPP	Raj west power Ltd (JSW)	U-5	Mar-07	Chinese	135	135	03/13	05.02.13(A)	05.02.2013
			U-6	Apr-07	Chinese	-	135	-	03.03.13(A)	03.03.2013
			U-7	Jun-07	Chinese	-	135	-	16.03.13(A)	16.03.2013
			U-8	May-07	Chinese	-	135	-	28.02.13(A)	28.02.2013
TN	Tuticorin TPP	Ind Barath	U-1	-	Chinese	-	150	-	10.03.13(A)	07.02.2013
Total -Private Sector						7180	11187.5			
Total for the year 2012-13						15154.3	20121.8			

2.2 Thermal Capacity Addition Target/ Achievement for the Year 2013-14

State	Project Name	Impl Agency	Unit No	LOA Date	BTG Supplier	Targeted Cap. (MW)	Actual Cap. comm. (MW)	Actual Comm. Date	At the beginning of the year	COD
CENTRAL SECTOR										
Bihar	Barh STPP St-II	NTPC	4	03/08& 10/08	BHEL	660	660	30/11/13	12/13	15.11.2014
TN	Vallur TPP Ph-I	NTPC/ NTECL/ TNEB-JV	3	07/09	BHEL	500	500	28.02.2014	03/14	26.02.2015
TN	Tuticorin TPP	NLC/ TNEB-JV	1	01/09	BHEL	500	-	Slipped	03/14	-
Tripura	Tripura CCGT	ONGC JV	Blk-2	06/08	BHEL	363.3	-	Slipped	09/13	-
UP	Rihand STPP St-III	NTPC	6	02/09	BHEL	500	500	7/10/2013	12/13	March 2014
WB	Raghunathpur TPP	DVC	1	12/07	CHINA	600	-	Slipped	03/14	-
Total Central Sector						3123.3	1660			
STATE SECTOR										
Chhattisgarh	Marwa TPP	CSEB	1	04/08	BHEL	500	500	30.03.2014	09/13	-
Delhi	Pragati St-III CCGT	PPCL	GT-4	05/08	BHEL	250	250	7/5/2013	06/13	27.02.2014
Delhi	Pragati St-III CCGT	PPCL	ST-2	05/08	BHEL	250	250	26.02.2014	09/13	27.03.2014
Gujarat	Pipavav JV CCGT	GSECL	Block-1	12/07	BHEL	351	351	05/02/2013	09/13	-
MP	Shree Singaji TPP(Malwa TPP)	MPPGCL	1	12/08	BHEL	600	600	18/11/2013	06/13	February 2014
MP	Satpura TPS Extn.	MPPGCL	11	03/08	BHEL	250	250	25/12/2013	10/13	16.03.2014
Maharashtra	Chandrapur TPS Extn.	MAHAGENCO	8	07/08	BHEL	500	-	Slipped	12/13	-
Rajasthan	Kalisindh TPP	RRVUNL	1	07/08	SEPCO, CHINA	600	-	Slipped	12/13	-
Rajasthan	Chhabra TPS Extn.	RRVUNL	3	08/08	BHEL	250	250	14/09/13	06/13	19.12.2013
Rajasthan	Chhabra TPS Extn.	RRVUNL	4	08/08	BHEL	250	-	Slipped	01/14	-
Rajasthan	Ramgarh CCPP	RRVUNL	ST	08/09	BHEL	50	-	Slipped	12/13	-
TN	North Chennai TPS Extn.	TNEB	1	08/08	BHEL	600	600	13/09/13	09/13	20.03.2014
Total -State Sector						4451	3051			
PRIVATE SECTOR										
AP	Vizag TPP	Hinduja	1	03/10	BHEL	520	-	-	03/14	-
AP	Thammina-patnam TPP	Meena-kshi Energy	2	08/09	Chinese	150	150	17/04/13	09/13	30.04.2013
Chhattisgarh	Tamnar TPP	Jindal Power	1	12/08	BHEL	600	600	10.03.2014	03/14	14.03.2014
Chhattisgarh	Vandana Vidyut TPP	Vandana Vidyut TPP	1	05/08	BOILER: CETHAR VESSELS LTD TG: CNAIC, CHINA	135	-	Slipped	06/13	-
Chhattisgarh	DB Power TPP	DB Power Ltd	1	05/10	BHEL	600	600	23.02.2014	12/13	03.11.2014
Chhattisgarh	Swastik Korba TPP	ACB	1	02/10	BOILER: IJT; TURBINE: SIEMENS	25	-	Slipped	12/13	-
Chhattisgarh	Akaltara TPP	KSK Mahanadi	1	04/09	SEC, CHINA	600	600	13/08/13	09/13	14.08.2013
MP	Sasan UMPP	Reliance Power	3	06/08	SEC, CHINA	660	660	30/5/13	05/13	-
MP	Sasan UMPP	Reliance Power	2	06/08	SEC, CHINA	660	660	18/12/13	09/13	-
Maharashtra	Nasik TPP Ph-I	India Bulls	1	11/09	BHEL	270	270	25.02.2014	09/13	29.03.2014
Maharashtra	Dhariwal Infrastructure (P) Ltd.TPP	Dhariwal Infrastructure (P) Ltd.	1	04/10	SEC, CHINA	300	300	3/11/2013	06/13	13.02.2014
Maharashtra	Dhariwal Infrastructure (P) Ltd.TPP	Dhariwal Infrastructure (P) Ltd.	2	04/10	SEC, CHINA	300	-	Slipped	12/13	-
Maharashtra	EMCO Warora TPP	GMR EMCO Energy Ltd.	2	09/09	SEC, CHINA	300	300	27/08/2013	06/13	01.09.2013
Maharashtra	Tirora TPP Ph-II	Adani Power	1	02/08	SCMEC, CHINA	660	660	10/6/2013	06/13	14.06.2013

State	Project Name	Impl Agency	Unit No	LOA Date	BTG Supplier	Targeted Cap. (MW)	Actual Cap. comm. (MW)	Actual Comm. Date	At the beginning of the year	COD
Orissa	Derang TPP	Jindal India Thermal Power	1	07/09	BHEL	600	-	Slipped	12/13	-
Orissa	Kamalang TPP	GMR Energy	2	08/08	SEPCO III, CHINA	350	350	28/09/13	09/13	12.11.2013
Punjab	Goindwal Sahib TPP	GVK Industries	1	02/09	BHEL	270	-	Slipped	06/13	-
Punjab	Talwandi Sahib TPP	Sterlite	1	07/09	SEPCO I, CHINA	660	-	Slipped	01/14	-
Total -Private Sector						7660	5150			
Total for during the year 2013-14						15234.3	9861			
Additional Capacity Commissioned										
Tripura	Rokhia GT	Tripura State Electricity Corporation Ltd.)	9	-	BHEL	-	21	31/08/2013	-	-
Rajasthan	Kawai TPP	Adani Power Rajasthan Ltd.	1	04/10	Chinese	-	660	28/05/2013	-	31.05.2013
Rajasthan	Kawai TPP	Adani Power Rajasthan Ltd.	2	04/10	Chinese	-	660	24/12/2013	-	31.05.2014
MP	BLA Power (Niwari) TPP	BLA Power Pvt.Ltd	1	-	Boiler –ISGEC Turbine- SIEMENS	-	45	24/03/2012	-	03.04.2012
TN	Tuticorin Indbarath	Indbarath Ltd	2	-	Chinese	-	150	30/12/2013	-	15.03.2014
Punjab	Rajpura TPP	Nabha Power	1	Jul-10	L&T	-	700	24/01/2014	-	01.02.2014
Gujarat	Dgen CCPP	Torrent Power	Block-I	Jul-10	Siemens Germany	-	400	12/01/2014	-	-
Maharashtra	Amaravati TPP Ph-I	India bulls Power Ltd	2	Nov-09	BHEL	-	270	17.02.2014	-	28.03.2014
AP	Simhapuri TPS Ph-II	Simhapuri Energy Pvt Ltd	3	Mar-10	Chinese	-	150	21.02.2014	-	26.02.2014
Gujarat	Dgen CCPP	Torrent Power	Block-3	Jul-10	Siemens Germany	-	400	09/03/2014	-	-
Orissa	Kamalang TPP	GMR Energy	3	08/08	SEPCO III, CHINA	-	350	21/03/14	-	25.03.2014
Maharashtra	Tirora TPP Ph-II	Adani Power	2	02/08	SCMEC, CHINA	-	660	23/3/2014	-	31.03.2014
MP	Sasan UMPP	Reliance Power	4	06/08	SEC, CHINA	-	660	25/03/14	-	12.04.2014
Chhattisgarh	Tamnar TPP	Jindal Power	2	12/08	BHEL	-	600	30.03.2014	-	31.03.2014
Chhattisgarh	Chakabura TPP	ACBIL	1	-	Chinese	-	30	28.03.2014	-	30.03.2014
West Bengal	Durgapur TPS Extn	DPL	8	-	BHEL	-	250	31.03.2014	-	-
Chhattisgarh	Avantha Bhandar TPP	KWPCL	1	-	BHEL	-	600	31.03.2014	-	01.04.2014
Maharashtra	Butibori TPP	Vidarbha Industries Power Ltd	1	-	Chinese	-	300	19.03.2013	-	28.03.2014
Total Additional Thermal Capacity in 2013-14							6906			
TOTAL THERMAL CAPACITY ADDITION in 2013-14							16767			

2.3 Thermal Capacity Addition Target/ Achievement for the Year 2014-15

State	Project Name	Impl Agency	Equip. Supplier	Fuel	Unit No	LOA date	Targeted Cap. (MW)	Actual Cap .comm. (MW)	Actual Comm. Date	At the beginning of the year	COD
CENTRAL SECTOR											
Bihar	Barh STPP-II	NTPC	BHEL	Coal	U-5	SG:03/2008 TG:10/2008	660	660	04.03.2015	Feb-15	18.02.2016
	Muzaffarpur TPS Exp	KBUNL (JV of NTPC & BSEB)	BHEL	Coal	U-3	03/2010	195	195	31.03.2015	Mar-15	18.03.2017
TN	Tuticorin TPP	NTPL (JV of NLC & TANGEDCO)	BHEL	Coal	U-1	28.01.09	500	500	10.03.2015	Oct-14	18.06.2015
			BHEL	Coal	U-2		500	-	-	Feb-15	-
Tripura	Palatana CCPP	OTPC (JV of ILFS, ONGC & Tripura Govt)	BHEL	Gas	BLK-2	23.06.08	363.3	363.3	16.11.2014	Aug-14	-
WB	Raghunathpur TPP, Ph-I	DVC	Chinese	Coal	U-1	14.12.2007	600	600	24.08.2014	Aug-14	31.03.2016
Total Central Sector							2818.3	2318.3			
STATE SECTOR											
AP	Damodaram Sanjeevaiah TPP	APPDCL	Blr- BHEL TG- L&T	Coal	U-1	SG:08/2008	800	800	28.08.2014	Jun-14	05.02.2015
					U-2	TG:09/2008	800	800	17.03.2015	Jan-15	24.08.2015
Chhattisgarh	Marwa TPP	CSPGCL	BHEL	Coal	U-2	11.04.08	500	-	Slipped	Dec-14	-
Maharashtra	Chandrapur TPS	MSPGCL	BHEL	Coal	U-8	25.07.08	500	500	29.03.2015	Oct-14	04.06.2016
	Koradi TPS Expn.	MSPGCL	L&T	Coal	U-8	23.09.09	660	660	30.03.2015	Oct-14	16.12.2015
	Koradi TPS Expn.	MSPGCL	L&T	Coal	U-9		660	-	Slipped	Jan-15	-
	Parli TPS Expn.	MSPGCL	BHEL	Coal	U-8	21.01.09	250	-	Slipped	Nov-14	-
MP	Malwa TPP (Shree Singaji)	MPPGCL	BHEL	Coal	U-2	12.12.08	600	600	15.10.2014	Sep-14	01.01.2015
Rajasthan	Kalisindh TPP	RRVUNL	Chinese	Coal	U-1	09.07.08	600	600	02.05.2014	Jun-14	01.06.2014
	Kalisindh TPP		Chinese	Coal	U-2		600	-	Slipped	Jan-15	-
	Ramgarh CCPP		BHEL	Gas	ST	18.08.09	50	50	01.05.2014	Jul-14	-
	Chhabra TPP		BHEL	Coal	U-4	20.08.08	250	250	30.06.2014	Jun-14	30.12.2014
UP	Anpara-D TPS	UPRVUNL	BHEL	Coal	U- 6	27.10.07	500	-	Slipped	Mar-15	-
Total State Sector							6770	4260			
PRIVATE SECTOR											
AP	Painampuram TPP	Thermal Power Tech Corp.Ltd	Chinese	Coal	U-1	09/2010	660	660	07.02.2015	Dec-14	02.03.2015
	Vizag TPP	Hinduja National Power Corp.Ltd	BHEL	Coal	U-1	03/2010	520	-	Slipped	Oct-14	-
Chhattisgarh	Swastic Korba TPP	ACB India Ltd.	Blr:ISGEC India TG:Siemens	Coal	U-1	29.03.10	25	25	31.03.2015	Nov-14	-
	Salora TPP	Vandana Vidyut Ltd	Chinese	Coal	U-1	11/2008	135	135	10.04.2014	Sep-14	01.05.2014
	Bandakhar TPP	Maruti Clean coal	Chinese	Coal	U-1	-	300	-	Slipped	Jan-15	-
Maharashtra	Amravati TPP Ph-I	India Bulls Power Ltd	BHEL	Coal	U-3	30.11.09	270	270	29.01.2015	Oct-14	03.02.2015
Maharashtra	Nasik TPP Ph-I	India Bulls Realtech	BHEL	Coal	U-2	24.11.09	270	-	Slipped	Jul-14	-
Maharashtra	Dhariwal TPP	Dhariwal Infrastructure Ltd	Chinese	Coal	U-2	28.04.10	300	300	28.05.2014	Jun-14	02.08.2014
Orissa	Derang TPP	JIPL	BHEL	Coal	U-1	26.07.09	600	600	10.05.2014	Jun-14	06.06.2014
Punjab	Rajpura TPP (Nabha)	Nabha Power Ltd	L&T	Coal	U-2	16.07.10	700	700	06.07.2014	Jul-14	01.08.2014
Punjab	Talwandi Sabo TPP	M/s Sterlite	Chinese	Coal	U-1	18.07.09	660	660	17.06.2014	May-14	01.08.2014
Punjab	Talwandi Sabo TPP	M/s Sterlite	Chinese	Coal	U-2	18.07.09	660	-	Slipped	Sep-14	-
WB	Haldia TPP	M/s Haldia Energy Ltd.	Chinese	Coal	U-1	14.09.11	300	300	14.01.2015	Dec-14	28.01.2015
Total Private Sector							5400	3650			
Total during 2014-15							14988.3	10228.3			

Additional Capacity Commissioned during 2014-15											
State	Project Name	Impl Agency	Equip. Supplier	Fuel	Unit No	LOA date	Targeted Cap. (MW)	Actual Cap .comm. (MW)	Actual Comm. Date	At the beginning of the year	COD
Central Sector											
TN	Neyveli TPS Ph-II Exp	NLC	BHEL	Coal	U-2	-	-	250	24.01.2015	-	22.04.2015
Tripura	Monarchak gas power project	NEEPCO	BHEL	Gas	GT	-	-	65.4	30.03.2015	-	-
Tripura	Agartala CCPP	NEEPCO	Thermax	Gas	ST-2	-	-	25.5	22.03.2015	-	-
Total Central Sector (Addition in 2014-15)								340.9			
State Sector											
Gujarat	Dhuvaran CCPP	GSECL	Siemens Germany	Gas	Unit 1	-	-	376.1	21.05.2014	-	-
Total Sate Sector (Additional in 2014-15)								376.1			
Private Sector											
Gujarat	D gen CCPP	Torrent Power	Siemens Germany	Gas	Block-II	02.07.2010	-	400	23.04.2014	-	-
MP	Sasan UMPP	SPL	Chinese	Coal	4th Unit (Unit-1)	-	-	660	21.05.2014	-	27.05.2014
MP	Sasan UMPP	SPL	Chinese	Coal	Unit-5	-	-	660	24.08.2014	-	26.12.2014
Chhattisgarh	Akaltara TPP	KSK	Chinese	Coal	Unit-2	-	-	600	22.08.2014	-	26.08.2014
MP	Nigrie TPP	JPVL	L&T	Coal	Unit-1	-	-	660	29.08.2014	-	03.09.2014
Maharashtra	Tirora TPP Ph-II	Adani Power Maharashtra Pvt Ltd	Chinese	Coal	Unit-3	05.11.2009	-	660	25.09.2014	-	11.10.2014
TN	Mutiara TPP	Coastal Energen	Chinese	Coal	Unit-1	25.02.2009	-	600	02.12.2014	-	23.12.2014
Chhattisgarh	Tamnara TPP (Raigarh)	Jindal Power	BHEL	Coal	Unit-3	-	-	600	07.01.2015	-	15.01.2015
Orissa	Derang TPP	JIPL	BHEL	Coal	U-2	-	-	600	24.01.2015	-	12.02.2015
WB	Haldia TPP	M/s Haldia Energy Ltd.	Chinese	Coal	U-2	-	-	300	16.02.2015	-	21.02.2015
MP	Nigrie TPP	JP Ventures Ltd	Non-BHEL	Coal	U-2	-	-	660	17.02.2015	-	21.02.2015
Chhattisgarh	Raikhera TPP	GMR	Chinese	Coal	U-1	-	-	685	27.02.2015	-	01.06.2015
Maharashtra	Amravati TPP Ph-I	India Bulls Power Ltd	BHEL	Coal	U-4	30.11.09	-	270	04.03.2015	-	08.03.2015
AP	Simhapuri	Simhapuri Energy Pvt Ltd	Chinese	Coal	U-4	-	-	150	07.03.2015	-	31.03.2015
Maharashtra	Amravati TPP Ph-I	India Bulls Power Ltd	BHEL	Coal	U-5	30.11.09	-	270	12.03.2015	-	13.03.2015
MP	Sasan UMPP	SPL	Chinese	Coal	Unit-6	-	-	660	19.03.2015	-	27.03.2015
Chhattisgarh	DB Power TPP	DB Power Ltd	BHEL	Coal	Unit-2	-	-	600	24.03.2015	-	-
Chhattisgarh	Tamnara TPP (Raigarh)	Jindal Power	BHEL	Coal	Unit-4	-	-	600	26.03.2015	-	-
Gujarat	Sikka TPP Extn	GSECL	BHEL	Coal	U-3	-	-	250	28.03.2015	-	14.09.2015
Total Private Sector (Additional in 2014-15)								9885			
Additional Capacity Commissioned during 2014-15								10602			
TOTAL THERMAL CAPACITY ADDITION in 2014-15								20830.3			

2.4 Thermal Capacity Addition Target/ Achievement for the Year 2015-16

State	Project Name	Impl Agency	Unit No	BTG Supplier	Cap. (MW)	Anti. Comm. (beginning of the year)	Now Anti. Comm.	Cap. Add (MW)	Actual Date of Comm.	COD
CENTRAL SECTOR										
Assam	Bongaigaon TPP	NTPC	U-1	BHEL	250	06/2015	-	250	22.06.15(A)	01.04.2016
Bihar	Muzafferpur	NTPC	U-4	BHEL	195	02/2016	Slipped	-	-	-
Bihar	Nabi Nagar TPP	NTPC	U-1	BHEL	-	-	-	250	20.03.16(A)	15.01.2017
Jharkhand	Bokaro TPS "A" Exp.	DVC	U-1	BHEL	-	-	-	500	22.03.16(A)	23.02.2017
Maharashtra	Mouda STPP-II	NTPC	U-3	BHEL	-	-	-	660	28.03.16(A)	01.02.2017
MP	Vindhyachal TPP-V	NTPC	U-13	BHEL	500	12/2015	-	500	06.08.15(A)	30.10.2015
Tripura	Agratala STG	NEEPCO	ST-2	Thermax	25.5	05/2015	Slipped	-	-	-
Tripura	Monarchak CCPP	NEEPCO	ST	BHEL	35.6	08/2015	-	35.6	14.01.16(A)	-
TN	Tuticorin TPP	NLC	U-2	BHEL	500	07/2015	-	500	09.07.15(A)	29.08.2015
WB	Raghunathpur TPP,Ph-I	DVC	U-2	Chinese	600	01/2016	-	600	18.01.16(A)	31.03.2016
Total Central Sector					2106.1			3295.6		
STATE SECTOR										
Chhattisgarh	Marwa TPP	CSPGCL	U-2	BHEL	500	09/2015	Slipped	-	-	-
Gujarat	Sikka TPS	GSECL	U-4	BHEL	250	12/2015	-	250	25.09.15(A)	28.12.2015
Karnataka	Bellary TPS St-III	KPCL	U-3	BHEL	700	12/2015	-	700	01.03.16(A)	16.09.2017
Karnataka	Yermarus TPP	KPCL	U-1	BHEL	800	01/2016	-	800	29.03.16(A)	07.03.2017
Maharashtra	Chandrapur TPS	MSPGCL	U-9	BHEL	500	10/2015	-	500	21.03.16(A)	24.11.2016
Maharashtra	Koradi TPS Expn.	MSPGCL	U-9	L&T	660	09/2015	-	660	15.03.16(A)	22.11.2016
Maharashtra	Koradi TPS Expn.	MSPGCL	U-10	L&T	660	02/2016	Slipped	-	-	-
Maharashtra	Parli TPS	MSPGCL	U-8	BHEL	250	01/2016	-	250	30.03.16(A)	30.11.2016
Rajasthan	Kalisindh TPP	RVUNL	U-2	Chinese	600	05/2015	-	600	06.06.15(A)	25.07.2015
Telangana	Singareni TPP	Singareni Collieries Co Ltd	U-1	BHEL	600	01/2016	-	600	13.03.16(A)	25.09.2016
Telangana	Kakatiya TPS Extn.	T GENCO	U-1	BHEL	600	12/2015	-	600	31.12.15(A)	24.03.2016
UP	Anpara-D TPS	UPRVUNL	U- 6	BHEL	500	06/2015	-	500	06.06.15(A)	08.05.2016
UP	Anpara-D TPS	UPRVUNL	U- 7	BHEL	500	12/2015	-	500	06.03.16(A)	18.10.2016
WB	Sagardighi TPS-Extn	West Bengal	U-3	BHEL	500	09/2015	-	500	14.12.15(A)	-
WB	Sagardighi TPS-Extn	West Bengal	U-4	BHEL	500	01/2016	Slipped	-	-	-
Total State Sector					8120			6460		
PRIVATE SECTOR										
AP	Painampuram TPP	Thermal Power Tech Corporation Ltd	U-2	Chinese	660	08/2015	-	660	03.09.15(A)	15.09.2015
AP	Vizag TPP	Hinduja National Power Corp. Ltd	U-1	BHEL	520	10/2015	-	520	27.12.15(A)	11.01.2016
AP	Lanco Kondapalli Extn. Ph-III (PS)	Lanco Kondapalli Power Co.Ltd	Block-I	Others	-	-	-	371	07.08.15(A)	-
AP	Lanco Kondapalli Extn. Ph-III (PS)	Lanco Kondapalli Power Co.Ltd	Block-II	Others	-	-	-	371	05.09.15(A)	-
AP	Vemagiri CCPP-II (PS)	GMR Rajahmundry Energy Ltd.	Block-I	Others	-	-	-	384	12.09.15(A)	-
AP	Vemagiri CCPP-II (PS)	GMR Rajahmundry Energy Ltd.	Block-II	Others	-	-	-	384	05.10.15(A)	-
AP	Vizag TPP	Hinduja National Power Corp. Ltd	U-2	BHEL	-	-	-	520	30.03.16(A)	03.07.2016
Chhattisgarh	Bandakhar TPP	M/s Maruti Clean (Chhattisgarh) Ltd.	U-1	Chinese	300	06/2015	-	300	19.06.15(A)	-
Chhattisgarh	Uchpinda TPP	RKM Powergen Pvt. Ltd	U-1	Chinese	360	06/2015	-	360	28.10.15(A)	27.11.2015
Chhattisgarh	Uchpinda TPP	RKM Powergen Pvt. Ltd	U-2	Chinese	-	-	-	360	28.01.16(A)	12.02.2016
Chhattisgarh	BALCO TPP	BALCO Pvt Ltd	U-1	Chinese	300	06/2015	-	300	05.06.15(A)	11.07.2015
Chhattisgarh	BALCO TPP	BALCO Pvt Ltd	U-2	Chinese	300	09/2015	-	300	24.03.16(A)	30.03.2016
Chhattisgarh	Raikheda TPP	GMR	U-2	Doosan (Non-BHEL)	685	12/2015	-	685	28.03.16(A)	-
Chhattisgarh	Salora	Vandana Vidyut	U-2	Chinese	135	09/2015	Slipped	-	-	-
Maharashtra	Nasik TPP Ph-I	Ratan India (Nasik) Power Ltd	U-2	BHEL	270	01/2016	Slipped	-	-	-
MP	Anuppur TPP Ph-I	MB Power(MP)	U-1	Chinese	600	06/2015	-	600	20.04.15(A)	20.05.2015
M.P	Seioni TPP Ph-I	Jhabua Power Ltd	U-1	BHEL	-	-	-	600	22.03.16(A)	03.05.2016
MP	Anuppur TPP Ph-I	MB Power(MP)	U-2	Chinese	-	-	-	600	30.03.16(A)	07.04.2016
Orissa	Ind Bharat TPP (Orissa)	Ind Barath	U-1	Chinese	350	10/2015	-	350	25.02.16(A)	20.07.2016
Punjab	Talwandi Sabo TPP	Talwandi Sabo Power Ltd	U-2	Chinese	660	06/2015	-	660	30.10.15(A)	25.11.2015

State	Project Name	Impl Agency	Unit No	BTG Supplier	Cap. (MW)	Anti. Comm. (beginning of the year)	Now Anti. Comm.	Cap. Add (MW)	Actual Date of Comm.	COD
Punjab	Talwandi Sabo TPP	Talwandi Sabo Power Ltd	U-3	Chinese	660	12/2015	-	660	29.03.16(A)	25.08.2016
Punjab	Goindwal Sahib TPP	GVK Power	U-1	BHEL	-	-	-	270	14.02.16(A)	06.04.2016
Punjab	Goindwal Sahib TPP	GVK Power	U-2	BHEL	-	-	-	270	15.03.16(A)	16.04.2016
TN	ITPCL TPP	IL&FS TN PC.Ltd	U-1	Chinese	-	-	-	600	19.09.2015	29.09.2015
TN	Melamaruthur (Mutiaru)	Coastal Energen	U-2	Chinese	-	-	-	600	02.01.16(A)	15.01.2016
UP	Lalitpur TPP	Lalitpur power Generation Co. Ltd	U-1	BHEL	660	-	-	660	26.03.16(A)	01.10.2015
UP	Lalitpur TPP	Lalitpur power Generation Co. Ltd	U-2	BHEL	-	09/2015	-	660	08.01.16(A)	14.10.2016
UP	Prayagraj (Bara) TPP	Prayagraj power Gen. Co. Ltd(J.P.Power Ventures)	U-1	BHEL	660	10/2015	-	660	25.12.15(A)	29.02.2016
Total Private Sector					7120			12705		
Total Grand Thermal Capacity in 2015-16					17346.1			22460.6		

2.5 Thermal Capacity Addition Target/ Achievement for the Year 2016-17

State	Project	Unit	Imp Agency	BTG Supplier	Capacity (MW)	Anticipated Commng. Schedule	Actual date of comm.	Capacity Achieved	COD
<u>CENTRAL SECTOR</u>									
Bihar	Nabinagar TPP	U-2	NTPC	BHEL	250	Slipped	-	-	-
Bihar	Kanti TPS St-II	U-4	NTPC	BHEL	195	-	24.03.2017	195.0	01.07.2017
Chhattisgarh	Lara STPP	U-1	NTPC	NON BHEL	800	Slipped	-	-	-
Karnataka	Kudgi TPP	U-1	NTPC	NON BHEL	800	-	25.12.2016	800.0	31.07.2017
Maharashtra	Mauda STPP-II	U-4	NTPC	BHEL	660	-	18.03.2017	660.0	18.09.2017
Tripura	Agartala Gas Based Power Project	ST-1	NEEPCO	NON BHEL	25.5	-	23.08.2016	25.5	-
Total Central Sector					2730.5			1680.5	
<u>STATE SECTOR</u>									
Assam	Namrup CCGT	GT	APGCL	BHEL	70	-	11.01.2017	62.25	-
Assam	Namrup CCGT	ST	APGCL	BHEL	30	Slipped	-	-	-
Bihar	Barauni TPP,	U-8	BSEB	BHEL	250	Slipped	-	-	-
Chhattisgarh	Marwa TPS	U-2	CSPGCL	BHEL	500	-	15.07.2016	500.0	31.07.2016
Gujarat	Bhavnagar TPP	U-1	BECL	BHEL	250	-	16.05.2016	250.0	-
Gujarat	Bhavnagar TPP	U-2	BECL	BHEL	250	-	27.03.2017	250.0	-
Karnataka	Yermarus TPP	U-2	KPCL	BHEL	800	-	29.03.2017	800.0	06.04.2017
Maharashtra	Koradi TPP	U-10	MSPGCL	NON BHEL	660	-	28.12.2016	660.0	17.01.2017
Telangana	Singreni TPP	U-2	SCCL	BHEL	600	-	25.11.2016	600.0	02.12.2016
West Bengal	Sagardighi TPS-II	U-4	WBPDC	BHEL	500	-	15.12.2016	500.0	-
Total State Sector					3910			3622.25	
<u>PRIVATE SECTOR</u>									
Andhra pradesh	Sembcorp Gayatri Pvt.Ltd.(NCC TPP)	U-1	SGPL	NON BHEL	660	-	12.11.2016	660.0	17.11.2016
Andhra pradesh	Sembcorp Gayatri Pvt.Ltd.(NCC TPP)	U-2	SGPL	NON BHEL	660	-	15.02.2017	660.0	21.02.2017
Chhattisgarh	Nawapara TPP	U-1	TRN	CHINESE	300	-	14.08.2016	300.0	19.08.2016
Chhattisgarh	Nawapara TPP	U-2	TRN	CHINESE	300	Slipped	-	-	-
Chhattisgarh	Uchpinda TPP	U-3	RKM	CHINESE	360	Slipped	-	-	-
Chhattisgarh	Binjkote TPP	U-1	SKS	NON BHEL	300	Slipped	-	-	-
Chhattisgarh	Athena Singhitarai TPP	U-1	Athena Chhattisgarh	NON BHEL	600	Slipped	-	-	-
Maharashtra	Nashik TPP, Ph-I	U-2	Rattan Power	BHEL	270	-	15.02.2017	270.0	-
Maharashtra	Nashik TPP, Ph-I	U-3	Rattan Power	BHEL	270	Slipped	-	-	-
Orissa	Utkal TPP	U-2	Ind Barath	NON BHEL	350	Slipped	-	-	-
Orissa	Lanco Babandh TPP	U-1	Lanco Babandh	NON BHEL	660	Slipped	-	-	-
Tamilnadu	ITPCL TPP	U-2	ILFS	NON BHEL	600	-	18.04.2016	600.0	30.04.2016
Uttar pradesh	Bara TPP	U-2	Jaypee	BHEL	660	-	06.09.2016	660.0	10.09.2016
Uttar pradesh	Lalitpur TPP	U-3	LPGCL	BHEL	660	-	01.04.2016	660.0	23.12.2016
West Bengal	Hiranmaye Energy TPP	U-1	Hiranmaye Energy Limited	BHEL	150	Slipped	-	-	-
Total Private Sector					6800			3810.0	
Total Thermal					13440.5			9112.75	
ADDITIONAL PROJECTS COMMISSIONED IN RFD 2016-17									
<u>CENTRAL SECTOR</u>									
Assam	Bongaigaon TPP	U-2	NTPC	BHEL	-	-	22.03.2017	250.0	01.11.2017
Karnataka	Kudgi TPP	U-2	NTPC	NON BHEL	-	-	23.03.2017	800.0	31.12.2017
Uttar Pradesh	Unchahar TPS ST-IV	U-6	NTPC	BHEL	-	-	31.03.2017	500.0	-
<u>PRIVATE SECTOR</u>									
Chhattisgarh	Ratija TPP -II	U-2	Spectrum Coal&Power Ltd	Non-BHEL	-	-	10.11.2016	50.0	-
Uttarakhand	GAMA CCPP	Module-1 (GT1&2+ST)	M/s GAMA Infraprop Ltd.	Others	-	-	25.04.2016	225.0	-
Uttarakhand	Kashipur CCPP	Blk-I	Srawanthi Energy Pvt.Ltd	Others	-	-	20.11.2016	225.0	-
Maharashtra	Mangaon CCPP	Block-I	M/s PGPL	Others	-	-	14.07.2016	388.0	-
Total Additional Projects Commissioned in 2016-17								2438.0	
Total Grand Thermal Capacity in 2016-17					13440.5			11550.75	

2.6 Thermal Capacity Addition Target/ Achievement for the Year 2017-18

State	Project Name	Impl Agency	Equipment Supplier	Unit No.	Targeted Cap. (MW)	Anti. Comm Date at beginning of year	Anti. Comm Date (At present)	Actual Date of Comm	Capacity Achieved (MW)	COD
CENTRAL SECTOR										
Assam	Bongaigaon TPP	NTPC	BHEL	3	250	Dec-17	Slipped	-	-	-
Bihar	Nabi Nagar TPP	JV of NTPC & Rly	BHEL	2	250	Apr-17	-	03.04.2017	250.00	10.09.2017
Bihar	New Nabi Nagar TPP	JV of NTPC & BSPGCL	NON BHEL	1	660	Aug-17	Slipped	-	-	-
Chhattisgarh	Lara TPP	NTPC	NON BHEL	1	800	Oct-17	-	23.03.2018	800.00	-
Karnataka	Kudgi STPP Ph-I	NTPC	NON BHEL	3	800	Aug-17	-	12.03.2018	800.00	-
MP	Gadarwara STPP, St-I	NTPC	BHEL	1	800	Jan-18	Slipped	-	-	-
Maharashtra	Solapur STPP	NTPC	NON BHEL	1	660	Apr-17	-	07.04.2017	660.00	25.09.2017
UP	Meja STPP	JV of NTPC & UPRVUNL	NON BHEL	1	660	Oct-17	-	31.03.2018	660.00	-
TOTAL CENTRAL SECTOR					4880				3170.00	
STATE SECTOR										
AP	Royal seema TPP	APGENCO	BHEL	6	600	Aug-17	-	12.03.2018	600.00	29.03.2018
Assam	Namrup	APGCL	BHEL	ST	36.15	Feb-18	Slipped	-	-	-
MP	Shree Singaji TPP, St-II	MPPGCL	NON BHEL	3	660	Dec-17	Slipped	-	-	-
Rajasthan	Suratgarh TPS	RRVUNL	BHEL	7	660	Nov-17	Slipped	-	-	-
Rajasthan	Chhabra SCTPP	RRVUNL	L&T & MHI	5	660	Apr-17	-	04.04.2017	660.00	-
Rajasthan	Chhabra SCTPP	RRVUNL	L&T & MHI	6	660	Jan-18	Slipped	-	-	-
Telangana	Bhadradi TPP	TGENCO	BHEL	1	270	Mar-18	Slipped	-	-	-
TOTAL STATE SECTOR					3546.15				1260.00	
PRIVATE SECTOR										
Chhattisgarh	Akaltara (Naiyara) TPP	KSK Mahandi Power Company Ltd	CHINESE	3	600	Nov-17	-	18.01.2018	600.00	28.02.2018
Chhattisgarh	Binjkote TPP	SKS Power Generation (Chhattisgarh) Ltd	CHINESE	1	300	May-17	-	25.04.2017	300.00	-
Chhattisgarh	Nawapara TPP	TRN Energy	CHINESE	2	300	May-17	-	18.04.2017	300.00	01.05.2017
Chhattisgarh	Lanco Amarkantak TPS-II	LAP Pvt. Ltd.	CHINESE	3	660	Nov-17	Slipped	-	-	-
Maharashtra	Nasik TPP Ph-I	RattanIndia Nasik Power Ltd	BHEL	3	270	May-17	-	14.04.2017	270.00	-
UP	Bara TPP	Prayagraj Power Generation Co.Ltd.	BHEL	3	660	Aug-17	-	22.05.2017	660.00	26.05.2017
WB	Hiranmaye Energy TPP	Hiranmaye Energy Limited	BHEL	1	150	Apr-17	-	07.06.2017	150.00	13.08.2017
TOTAL PRIVATE SECTOR					2940				2280.00	
ADDITIONAL PROJECTS COMMISSIONED										
PRIVATE SECTOR										
Maharashtra	Nasik TPP Ph-I	RattanIndia Nasik Power Ltd	BHEL	4	-	-	-	19.05.2017	270.00	-
Maharashtra	Nasik TPP Ph-I	RattanIndia Nasik Power Ltd	BHEL	5	-	-	-	30.05.2017	270.00	-
Chhattisgarh	Uchpinda TPP	RKM Powergen Pvt.Ltd.	Chinese	3	-	-	-	12.09.2017	360.00	-
Maharashtra	Shirpur TPP	Shirpur Power Pvt. Ltd.	BHEL	1	-	-	-	28.09.2017	150.00	-
WB	Hiranmaye Energy TPP	Hiranmaye Energy Limited	BHEL	2	-	-	-	31.12.2017	150.00	31.12.2017
Bihar	Barauni Ext.	BSEB	BHEL	8	-	-	-	11.01.2018	250.00	-
Chhattisgarh	Binjkote TPP	SKS Power Generation	CHINESE	2	-	-	-	28.03.2018	300.00	-
Bihar	Barauni Ext.	BSEB	BHEL	9	-	-	-	31.03.2018	250.00	-
TOTAL ADDITIONAL PRIVATE SECTOR									2000.00	
TOTAL THERMAL CAPACITY in 2017-18					11366.15				8710.00	

2.7 Thermal Capacity Addition Target/ Achievement for the Year 2018-19

State	Project Name	Impl Agency	Equipment Supplier	Unit No.	Targeted Cap. (MW)	Anti. Comm Date at beginning of year	Anti. Comm Date (At present)	Actual Date of Capacity addition	Capacity Achieved (MW)	COD
CENTRAL SECTOR										
Assam	Bongaigaon TPP	NTPC	BHEL	3	250	Sept-18	-	-	250.00	26.03.2019
Bihar	Nabi Nagar TPP	JV of NTPC & Rly	BHEL	3	250	Dec-18	-	-	250.00	26.02.2019
Bihar	New Nabi Nagar TPP	JV of NTPC & BSPGCL	NON BHEL	1	660	Jan-19	Slipped	-	-	-
MP	Gadarwara STPP, St-I	NTPC	BHEL	1	800	Jan-18	-	29.03.2019	800.00	02.04.2019
Odisha	Darlipali STPP	NTPC	BHEL	1	800	-	Slipped	-	-	-
TOTAL CENTRAL SECTOR					2760				1300.00	
STATE SECTOR										
Assam	Namrup CCGT	APGCL	BHEL	ST	36.15	Feb - 19	Slipped	-	-	-
MP	Shri Singhaji TPP St-II	MPGCL	L&T & MHI	3	660	Sept - 18	-	18.11.2018	660.00	18.11.2018
MP	Shri Singhaji TPP St-II	MPPGCL	L&T & MHI	4	660	Feb - 19	-	27.03.2019	660.00	27.03.2019
Odisha	Ib valley TPP	OPGC	BHEL	4	660	March - 19	Slipped	-	-	-
Rajasthan	Chhabra TPP Extn	RRVUNL	L&T & MHI	6	660	Dec - 18	-	29.03.2019	660.00	02.04.2019
Rajasthan	Suratgarh SCTPP	RRVUNL	L&T & MHI	7	660	Dec - 18	Slipped	-	-	-
Karnataka	Yelahanka CCPP	KPCL	BHEL	1	370	Oct - 18	Slipped	-	-	-
Telangana	Kothagudem TPS St-VII	TGENCO	BHEL	-	800	Dec - 19	-	26.12.2018	800.00	26.12.2018
TOTAL STATE SECTOR					4506.15				2780.00	
ADDITIONAL PROJECTS COMMISSIONED										
Central SECTOR										
Maharashtra	Solapur STPP	NTPC	Non-Bhel	2	-	-	-	29.03.2019	660.00	30.03.2019
State Sector										
Assam	Lakwa Replacement Power Project	APGCL	-	-	-	-	-	26.04.2018	69.755	26.04.2018
Private Sector										
MP	Mahan TPP	Essar Power Ltd	Chinees	2	-	-	-	07.10.2018	600.00	07.10.2018
Chhattisgarh	Uchpinda TPP	R K M PowerGen Ltd	Chinees	4	-	-	-	20.03.2019	360.00	20.03.2019
WB	Dishergarh TPS	IPCL	Non-BHEL		-	-	-	27.03.2019	12.00	25.09.2012*
TOTAL ADDITIONAL PRIVATE SECTOR									1701.755	
TOTAL THERMAL CAPACITY in 2018-19					7266.15				5781.755	

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

2.8 Thermal Capacity Addition Target/ Achievement for the Year 2019-20

State	Project Name	Impl Agency	Equipment Supplier	Unit No.	Targeted Cap. (MW)	Anti. Comm Date at beginning of year	Anti. Comm Date (At present)	Actual Date of Capacity addition	Capacity Achieved (MW)	COD
CENTRAL SECTOR										
Bihar	New Nabi Nagar TPP	JV of NTPC & BSPGCL	NON BHEL	1	660	May-19	-	12.07.2019	660.00	-
Chhatisgarh	Lara STPP	NTPC	BHEL	2	800	Dec-19	Slipped	-	-	-
MP	Gadarwara STPP,St-I	NTPC	BHEL	2	800	Dec-19	Slipped	-	-	-
MP	Khargone STPP	NTPC	BHEL	1	660	Aug-19	-	29.09.2019	660.00	-
MP	Khargone STPP	NTPC	BHEL	2	660	Feb-20	-	24.03.2020	660.00	-
Odisha	Darlipali STPP	NTPC	BHEL	1	800	Aug-19	-	30.12.2019	800.00	-
U.P.	Tanda TPP Stage - II	NTPC	L&T & MHI	1	660	Sep-19	-	28.09.2020	660.00	-
Tamil Nadu	Neyveli New TPP	NLC	BHEL	1	500	Apr-19	-	21.12.2019	500.00	-
Tamil Nadu	Neyveli New TPP	NLC	BHEL	2	500	Oct-19	Slipped	-	-	-
TOTAL CENTRAL SECTOR					6040				3940.00	
STATE SECTOR										
Andhra Pradesh	Dr.Narla Tata Rao TPS Stage-V	APGENCO	BHEL	8	800	Feb – 20	Slipped	-	-	-
Assam	Namrup CCGT	APGCL	BHEL	ST	36.15	Nov-19	Slipped	-	-	-
Gujarat	Wanakbori TPS Extn.	GSECL	BHEL	-	800	Nov-19	-	12.10.2019	800.00	-
Karnataka	Yelahanka CCPP	KPCL	BHEL	GT+ST	370	Nov - 19	Slipped	-	-	-
Odisha	Ib valley TPP	OPGC	BHEL	3	660	Apr – 19	-	01.07.2019	660.00	-
Odisha	Ib valley TPP	OPGC	BHEL	4	660	Jul - 19	-	17.08.2019	660.00	-
Rajasthan	Suratgarh SCTPP	RRVUNL	L&T & MHI	7	660	Nov -19	-	15.03.2020	660.00	-
Telangana	Bhadradi TPP	TGENCO	BHEL	1	270800	Jan - 20	Slipped	-	-	-
TOTAL STATE SECTOR					4256.15				2780.00	
ADDITIONAL PROJECTS COMMISSIONED										
Private Sector										
MP	Niwari TPP	BLA Power Ltd	Chinees	2	-	-	-	06.06.20219	45.00	-
TOTAL ADDITIONAL PRIVATE SECTOR									45.00	
TOTAL THERMAL CAPACITY in 2019-20					10296.15				6765.00	

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 24.03.2021)

S.No.	State	Project Name	LOA Date/ ordered date	Unit No	Cap. (MW)	Org. Comm. Sched.	Ant TR/ COD	Total Project Exp. (crores)	Till Date
CENTRAL SECTOR									
1	Bihar	Barh STPP-I	Mar-05	U-1	660	Aug-09	Apr-21	18308.58	Feb-21
			Mar-05	U-2	660	Jun-10	Mar-22		
			Mar-05	U-3	660	Apr-11	Jun-23		
2	Bihar	Nabi Nagar TPP	Jan-08	U-4	250	Nov-13	May-21	8708.95	Feb-21
3	Bihar	New Nabi Nagar TPP	Jan-13	U-2	660	Jul-17	Mar-21	15463.61	Feb-21
			Jan-13	U-3	660	Jan-18	Jun-21		
4	Jharkhand	North Karanpura STPP	Feb-14	U-1	660	Feb-18	Oct-21	11612.82	Feb-21
			Feb-14	U-2	660	Aug-18	Apr-22		
			Feb-14	U-3	660	Feb-19	Oct-22		
5	Odisha	Darlipalli STPP	Feb-14	U-2	800	Jun-18	Apr-21	11641.13	Feb-21
6	Telangana	Telangana STPP St- I	Feb-16	U-1	800	Jan-20	Jan-22	8262.45	Feb-21
			Feb-16	U-2	800	Jul-20	Mar-22		
7	UP	Tanda TPP St II	Sep-14	U-6	660	Mar-19	Mar-21	8051.56	Feb-21
8	UP	Ghatampur TPP	Aug-16	U-1	660	Apr-20	Nov-21	11135.69	Feb-21
			Aug-16	U-2	660	Oct-20	Mar-22		
			Aug-16	U-3	660	Oct-20	Jul-22		
9	Jharkand	Patratu STPP	Mar-18	U-1	800	Jan-22	Sep-23	4060.28	Feb-21
			Mar-18	U-2	800	Sep-22	Mar-24		
			Mar-18	U-3	800	Dec-22	Sep-24		
10	Odisha	Rourkela PP-II Expansion	May-16	U-1	250	Dec-18	Jul-21	1763.69	Feb-21
11	Uttar Pradesh	Khurja SCTPP	Mar-19	U-1	660	Mar-23	Feb-24	1432.12	Feb-21
				U-2	660	Sep-23	Aug-24		
12	Bihar	Buxar TPP	Jun-19	U-1	660	Jul-23	Jul-23	1479.16	Feb-21
				U-2	660	Jan-24	Jan-24		
	TOTAL CENTRAL SECTOR				15860				
STATE SECTOR									

1	A.P	Dr.Narla Tata Rao TPS St-V	Oct-15	U-1	800	Jun-19	Jun-21	5897.8	Feb-21
2	A.P	Sri Damodaran Sanjeevaiah TPP St-II	Nov-15	U-1	800	Mar-19	Apr-21	6866.3	Feb-21
3	Rajasthan	Suratgarh SCTPP	May-13	U-8	660	Dec-16		10555.251	Feb-21
4	Telangana	Bhadradi TPP	Mar-15	U-3	270	Jul-17	Mar-21	7346.19	Feb-21
			Mar-15	U-4	270	Sep-17	Jun-21		
5	TN	Ennore SCTPP	Sep-14	U-1	660	Jan-18	May-22	4366.44	Jan-21
			Sep-14	U-2	660	Mar-18	Aug-22		
6	TN	North Chennai TPP St-III	Jan-16	U-1	800	Mar-19	Aug-21	6249.87	Feb-21
7	TN	Uppur Super Critical TPP	May-16	U-1	800	Mar-19	Dec-22	3071.35	Feb-21
			Feb-16	U-2	800	Oct-19	Mar-23		
8	UP	Harduaganj TPS Exp-II	Sep-15	U-1	660	Jun-19	Jun-21	4191.44	Feb-21
9	Karnataka	Yelahanka CCPP	Nov-15	GT+ST	370	Mar-18	Sep-21	1682.5504	Jan-21
10	UP	Jawaharpur STPP	Dec-16	U-1	660	Sep-20	Dec-22	5744	Feb-21
			Dec-16	U-2	660	Jan-21	Jun-23		
11	UP	Obra-C STPP	Dec-16	U-1	660	Sep-20	Jan-23	5004.83	Feb-21
			Dec-16	U-2	660	Dec-20	May-23		
12	Telangana	Yadadri TPS	Oct-17	U-1	800	Sep-20	Feb-23	9313.69	Feb-21
				U-2	800	Sep-20	Mar-23		
				U-3	800	Mar-21	Apr-23		
				U-4	800	Mar-21	May-23		
				U-5	800	Sep-21	Jun-23		
13	UP	Panki TPS Extn.	Mar-18	U-1	660	Jun-21	Sep-22	2325.89	Feb-21
14	TN	Udangudi STPP Stage I	Dec-17	U-1	660	Feb-21	May-22	2572.68	Feb-21
				U-2	660	Feb-21	Jul-22		
15	Maharashtra	Bhusawal TPS	Jan-18	U-6	660	Nov-21	Jun-22	1404.9	Jan-21
16	West bengal	Sagardighi Thermal Power Plant Ph-III	Jul-20	U-1	660	Jan-24	Jan-24	326.8	Feb-21
Total State Sector					17490				
PRIVATE SECTOR									
1	TN	Tuticorin TPP St-IV	Jan-14	U-1	525	Sep-18	May-21	3808.73	Feb-21
	Total Private Sector				525				
	Grand Total				33875.00				

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

(As on 24.03.2021)

S.No.	State	Project Name / Impl. Agency/ EPC or BTG	LOA Date/ ordered date	Unit No	Cap. (MW)	Org. Comm. Sched.	Present Status/Reamrks	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 withdrwal 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 withdrwal 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	Corporate Insolvency & Bankruptcy Process (CIRP) initiated against LITL(the EPC Contractor) by IDBI Bank from 07.08.2017 and interim resolution professional appointed on 10.08.2017 and hence the project has been stalled rom 07.08.2017.	4956	5421.38	Mar-02	Jan-00
	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	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	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	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	16190	27080	18730	Dec-16
			Apr-09	U-5	600	Aug-13					
			Apr-09	U-6	600	Dec-13					
5	Chhattisgarh	Binjkote TPP/ SKS Power Generation (Chhattisgarh) Ltd. Boiler-Cethar Vessels /Turbine-Harbin China	Mar-11	U-3	300	Mar-14	Work held up due to financial constraints.	5058	7940	3828	Jun-15
			Mar-11	U-4	300	Jun-14					

6	Chhattisgarh	Lanco Amarkantak TPP-II/ LAP Pvt. Ltd. BTG-DEC china	Nov-09	U-3	660	Jan-12	Admitted to NCLT on 05.09.2019	6886	10815.24	9537.79	Dec-16
			Nov-09	U-4	660	Mar-12					
7	Chhattisgarh	Singhitarai TPP / Athena Chhattisgarh Power Ltd. BTG -DEC china	Dec-09	U-1	600	Nov-14	Admitted to NCLT on 15.05.2019	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	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	2618.7	3930	2077.23	Nov-15
10	Jharkhand	Matrishri Usha TPP Ph-I / Corporate Power Ltd. EPC-BHEL	Dec-09	U-1	270	Apr-12	Admitted to NCLT on 19.02.2020	2900	3120	3120	Nov-12
			Dec-09	U-2	270	May-12					
11	Jharkhand	Matrishri Usha TPP Ph-II / Corporate Power Ltd. EPC-BHEL	Mar-11	U-3	270	Oct-12	Admitted to NCLT on 19.02.2020	3182	3182	2207	Sep-12
			Mar-11	U-4	270	Jan-13					
12	Jharkhand	Tori TPP Ph-I / Essar Power Ltd. BTG-Harbin China	Aug-08	U-1	600	Jul-12	Liquidation Order date 18.12.2019	5700	5700	4757.92	Jun-17
			Aug-08	U-2	600	Sep-12					
13	Jharkhand	Tori TPP Ph-II / Essar Power Ltd./ BTG-Harbin China	Feb-10	U-3	600	Dec-15	Liquidation Order date 18.12.2019	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	Due to financial constraints project has been put on hold.	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	Lanco Vidarbha TPP / LVP Pvt. Ltd. EPC-LANCO/ Boiler- Dongfong China / Turbine- Harbin china	Nov-09	U-1	660	Jul-14	Admitted to NCLT on 03.10.2019	6936	10433	5338	Apr-17
			Nov-09	U-2	660	Nov-14					
16	Maharashtra	Nasik TPP Ph-II / Ratan India Nasik Power Pvt. Ltd. BTG-BHEL	Nov-09	U-1	270	Apr-13	No work is going on at site due to financial problems.	6789	6789	711.81	Mar-15
			Nov-09	U-2	270	Jun-13					
			Nov-09	U-3	270	Aug-13					
			Nov-09	U-4	270	Oct-13					
			Nov-09	U-5	270	Dec-13					
17	Maharashtra	Bijora Ghanmukh TPP / Jinbhuvish Power Generation Pvt. Ltd. / BTG-CWPC, Chinese	Sep-11	U-1	300	Dec-16	Work held up due to financial constraints.	3189	3450	422.27	Mar-15
			Sep-11	U-2	300	Mar-17					

18	<i>Maharashtra</i>	Shirpur TPP ,Shirpur Power Pvt. Ltd./ BTG-BHEL	Nov-11	U-2	150	Apr-15	Admitted to NCLT on 04.03.2020	2413	2413	2277.94	Apr-17
19	<i>MP</i>	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.	3941	3941	475.79	Sep-15
20	<i>Odisha</i>	Ind Barath TPP (Odisha) / Ind Barath /BTG-Cethar Vessels	May-09	U-2	350	Dec-11	financial constraints due to non-disbursement of funds by financier.	3150	4254	4254	Apr-17
21	<i>Odisha</i>	KVK Nilanchal TPP/ KVK Nilanchal / BTG-Harbin China	Nov-09	U-1	350	Dec-11	Admitted to NCLT on 17.09.2019. Initially delayed due to chimney clearance and law & order problem. Work was held up due to stay by Hon'ble High Court of Orissa. Hon'ble High Court has given order dated : 20.05.14 to start the work. Delay in approval of revised cost of the project by lenders.	4990	6000	1708.36	Mar-15
			Nov-09	U-2	350	Feb-12					
			Nov-09	U-3	350	Feb-12					
22	<i>Odisha</i>	Lanco Babandh TPP / LBP Ltd./ BTG-DEC Chinese	Nov-09	U-1	660	Apr-13	Liquidation Order date 27.11.2019	6930	10430	7615	Mar-17
			Nov-09	U-2	660	Aug-13					
23	<i>Odisha</i>	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	<i>TN</i>	Tuticorin TPP (Ind- Barath) / IBPIL / BTG- Shangdong China	May-10	U-1	660	May-12	Liquidation Order date 22.04.2019	3595	3595	2000	May-15
25	<i>WB</i>	Hiranmaye Energy Ltd (India Power corporation (Haldia) TPP / Haldia Energy Ltd/ EPC- MEIL /BTG-BHEL.	Sep-10	U-3	150	May-16	work is totally on hold	2656	3307	3263.05	Oct-17
	Total Private Sector				23205						
	Grand Total				24365						

BROAD STATUS

Of

THERMAL POWER PROJECTS

CENTRAL SECTOR

Sl. No.	PROJECT DETAILS	Cap (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. Com	Trail run COD	Syn. Com	Trail run COD	
	Central Sector						
1.	Barh STPP St-I, Dist: Patna, Bihar (NTPC Ltd.)	1980					Unit-1: Unit Synchronized (on oil) on 27.09.20 Boiler: Boiler erection started in 03/11. Boiler Hydro Test completed on 28.02.13. Boiler light up on 14.08.2019. SBO completed on 23.01.2020. Coal firing done on 31.12.2020. TG: TG erection started in 08/11. TG Box up completed on 28/12/13.TG Lub oil flushing completed. TG put on barring gear in July, 2019. Unit-2: Boiler: Boiler erection started in 07/11. TG: TG erection started in 09/11.TG Box up completed in 01/15. TG oil-flushing completion in 02/21. Unit-3: Boiler: Boiler erection started in 01/12. 17803/42878 pr parts erected. TG: TG erection started in 03/12. Condenser erection started in 11/13. Balance of Plant (BoP): Chimney: Ready with Flue can. Borosilicate Liners by BHEL under FGD Pkg is pending. CHP: Erection up to TP-4 completed. Beyond TP-4 erection is in progress. Track hopper & WT system stream commissioned. One stream of CHP comm.Second i/p. AHP: Erection of ash water pumps, vacuum pumps, 2 Nos. Slurry pumps completed. Trench work, Ash slurry PH, TAC Building works completed. Ash slurry line to dyke in progress. Ash dyke: All works in Ash Dyke completed. Cooling Tower: Erection completed CT 1 fan trail taken. PT Plant: 2 clarifiers Ready DM Plant: Ready CW System: Erection completed. All Raw water pumps & 03 SACW pumps commissioned. 02 nos CW pumps commissioned. Switchyard: Ready FGD: FGD is awarded to BHEL on 18.09.18. Test Pile completed. Chimney liner preparatory work in progress. Borosilicate Lining for FGD to be done in the existing Chimney by BHEL. Major BOI ordered.Job piling is i/p.
	U-1	660	03/09 08/09 05/17* 05/17*	06/17	27.09.20(A) 03/21	03/21 -	
	U-2	660	01/10 06/10 11/17* 11/17*	12/17	07/21 09/21	09/21 -	
	U-3	660	11/10 04/11 05/18* 05/18*	06/18	02/22 03/22	04/22 -	
	(*Revised as per award of balance works of SG package dated 30.01.16)						
	Original/Latest Cost : Rs8692.97 / 15095.67 / 21312.11 Crs.						
	Cum Exp.upto 2009 : Rs 3967.10 Crores						
	2009-10 : Rs 695.39 Crores						
	2010-11 : Rs 922.00 Crores						
	2011-12 : Rs 1272.00 Crores						
	2012-13 : Rs 1433.00 Crores						
	2013-14 : Rs 1601.00 Crores						
	2014-15 : Rs 811.00 Crores						
	2015-16 : Rs 1167.00 Crores						
	2016-17 : Rs 1474.00 Crores						
	2017-18 : Rs.1395.00 Crores						
	2018-19 : Rs.1366.84 Crores						
	2019-20 : Rs.1438.05 Crores						
	2020-21 : Rs. 900.93 Crores						
	Cumulative Exp : Rs 18308.58 Crs (up to (02/21))						
	Investment Approval : Feb'05 Original / Qtr - 4 2018 (Latest)						
	Sanctioning Authority : NTPC Board						
	Type of fuel : Coal						
	Date of Main Plant Order (BTG) : SG :03/2005 on M/s Technopromexport, Russia. (Terminated on 14.01.2015) # TG : 03/2005 on M/s Power Machines Russia						
	Zero Date : 14/03/2005						
	Critical Areas	• Readiness of railway line Hazaribagh-Koderma-Tilaiya-Rajgir-Bakhtiyarpur route (250km) is critical for transportation of coal for Project. Project would face major coal supply constraints until this line is made operational. • NTPC has funded Rs 664 Crores to Railways for development of following works in envisaged Coal transportation route. – Construction of Karnauti-Bakhtiyarpur flyover with 3rd line and surface triangle. – Construction of Manpur Flyover (ROR) – Electrification of Manpur-Tillaiya-Bakhtiyarpur section. Work progress is slow due to land acquisition issues. • work of 01 • nos Push culvert work (required for Stage-I ash slurry pipeline) is moving at slow pace. • 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 US sanctions. Modalities for direct procurement from TKZ through tripartite agreement with DPSI, TKZ and NTPC needs expediting.					
	Reason of Dealy	• Work stopped wef 23.03.2020 due to COVID pandemic. • Non-Performance by TPE (SG contract) & M/s Power Machine. • Multiple failures of Boiler#1 Super heater and Re-heater tubes (DI 59 materials) for which action plan is under finalization for expeditious supply of new materials and restoration of Boiler to move forward. • Readiness of railway line 250 km (Hazaribagh-Koderma-Tillaiya Rajaji-Bhaktiyarpur) is critical for transportation of coal. Project would face major coal supply constraints till this line is made operational. • USA has imposed sanction on Power Machines,Russia on 26th Jan'18 which is a major issue for balance supply,erection & commissioning of TG & Aux package					

MK 23.03.21

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A) / As now Expected			
			Syn. Com	Trail run COD	Syn. Com	Trail run COD		
2.	Central Sector						Unit-1: COD declared on 15.01.2017. Trial run completed on 06.01.17. Commissioned on 20.03.2016. Boiler: Boiler erection started in 05/11. Boiler drum lifted on 20/10/12. Boiler HT completed on 11.04.2014. BLU done in Mar'15. Chemical cleaning completed on 11.10.15. SBO completed in 01/16. TG: Condenser erection started on 26.2.13. TG erection started in 01/14. TG Box-up done in 12/15. TG oil flushing completed in 12/15. Unit-2: COD declared on 10.09.2017; Trial run completed on 03.08.17. Commissioned on 03.04.2017. Boiler: Boiler erection started in Dec'11. Boiler drum lifting completed on 21st Mar'13. Boiler HT completed in 02/15. BLU done in 10/16. TG: TG deck casting completed in 04/15. Condenser erection started in 05/15. TG erection started in 10/15. TG box-up done in 02/17. Unit-3: COD Declared on 26.02.2019. Trial run completed on 10.02.19. Commissioned on 23.01.19. Unit Sync on 31.12.18 Boiler: Boiler erection started in 11/11. Boiler drum lifting completed on 10.06.13. Boiler hydro test done on 30.11.16. Trial run completed on 10.02.19. TG: TG erection started in 06/16. TG box-up done in 3/18. TG Deck floating work started on 28/08/18 Unit-4: Boiler: Boiler erection started in 12/12. Boiler drum lifting completed on 16.09.13. Boiler Drainable HT done on 28.04.19. Non drainable hydro test done on 21.10.20. BLU 12.11.20. TG: TG columns work in progress. TG erection started in 01/19.HP&IP turbine erected. Condenser HT completed. ESP: Pass A&D all columns erected. Frame erection work i/p Balance of Plant: • Chimney: Chimney-1(for U-1&2) ready. Chimney #2 (for U-3&4) shell casting completed. Flue can erection completed for U-3. • CHP: Coal feeding in progress at both 2A & 2B Side. WT1&2 – Commissioned. SR-2 Balance civil &mech work i/p. Track hopper work in progress. • AHP (Indure): AWPB commissioning u/p. Ash slurry PH 4/6 (A&B) completed. C&D series pumps erected, trial balace. Compressor house comm. U-3 BAH completed. U-4 BAH hydro test done. • CW Pump house: Fore bay raft completed. Pumps (11 Nos) erection completed. CW Pump 5, 6&7 trial run completed. .pump 7&8 mototr ready for no load trail • IDCTs: Order placed in Sep'13.. There are 20 cells in each IDCT. IDCT-1, 2&3 taken into service. IDCT-4 cells (20/20) completed.Motor trial planned in 03/21. • PT plant: Completed in all respect. • DM plant: DM lab building civil work is i/p. CW system comm. DM Tank -1 & 2 – in service. • Switchyard: • FOHS: LDO tanks commissioned. HFO tank -1 insulation work done.tank-2 HT done.. • FGD: order placed to BHEL on 14.07.19.Pilling work started.	
	Nabinagar TPP, Dist: Aurangabad, Bihar [BRBCL-Bhartiya Rail Bijlee Co. Ltd. (JV of NTPC & Indian Railways)]	1000						
	U-1	250	08/10* 10/10* 12/12** 02/13**	06/13	03/16(A) 20.03.16(A)	06.01.17(A) 15.01.17(A)		
	U-2	250	02/11* 04/11* 03/13** 05/13**	10/13	03/17(A) 03.04.17(A)	30.08.17(A) 10.09.17(A)		
	U-3	250	08/11* 10/11* 06/13** 08/13**	02/14	31.12.18(A) 23.01.19(A)	10.02.19(A) 26.02.19(A)		
	U-4	250	02/12* 04/12* 09/13** 11/13** (* Org / ** Rev)	06/14	04/21 05/21	05/21 -		
	Original/Latest. Cost		: Rs 5352.51 /7998.00 Crores / 10556.78 (basis –III Qtr 2019)					
	Exp. During	2007-08	: Rs 263.19 Crores					
		2008-09	: Rs 68.37 Crores					
		2009-10	: Rs 196.17 Crores					
		2010-11	: Rs 226.80 Crores					
		2011-12	: Rs 487.13 Crores					
		2012-13	: Rs 1096.68 Crores					
		2013-14	: Rs 1300.68 Crores					
		2014-15	: Rs 906.04 Crores					
		2015-16	: Rs 927.77 Crores					
		2016-17	: Rs 924.09 Crores					
	2017-18	: Rs 705.71 Crores						
	2018-19	: Rs 620.79 Crores						
	2019-20	: Rs 399.42 Crores						
	2020-21	:Rs 226.17 Crores						
Total Expenditure		: Rs 8708.95Crores (02/21)						
Investment Approval		: January'2008.						
Sanctioning Authority		: BRBCL board accorded investment approval						
Type of fuel		: Coal (Pachra and South Pachra blocks of North Karanpura Coalfields)						
Fuel linkage		: 5 MTPA (FSA signed on 29.08.13)						
Date of Main Plant Order		: 23.01.2008 on M/s BHEL(BTG)						
Zero Date		: 01/01/2008						
Power Evacuation		: ATS work completed and is in charged condition.						
Critical Areas		• Material supply against open door and poor mobilization by SG agency of BHEL. BHEL committed to provide latest by 03/21. • AHP critical supplies by Indure. • Balance land issues on 38.248 acres of land for ash dyke lagoon-I and overflow lagoon. • 0.09375 acres land physical possession taken on 23.10.20 in township area						
Reasons for Delay		• Work stopped wef 23.03.2020 due to COVID pandemic. No work in April 2020. • Delay in Civil Works, SG Supplies, Frequent bandhs/Local agitation by villagers • Delay in land acquisition. Physical possession of balance land for ESP/VF Darea for U#2 & U#3 andU#4 received in Jan'16/Nov'16. Physical possession of 38.248 acres of critical land is still balance due to court cases, wrong payments in awarded landand ownership disputes in Main Plant 21.372, MUW corridor0.190, ash dyke 15.126, township 1.55 acres. • TG civil fronts delayed due to corporate in solvency proceedings by NCLT against MS ERA. Contract now terminated.						

MK 23.03.21

/Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule		Broad Status
			Original	Actual(A) / Anticipated	

			Syn. Com	Trail run COD	Syn. Com	Trail run COD	
	Central Sector						
3.	New Nabinagar STPP, Dist.: Aurangabad, Bihar [NPGCPL- Nabinagar Power Generating Co. Pvt. Ltd. (JV of NTPC & BSPGCL)]	1980					Unit-1: COD declared on 06.09.19. Trial run completed on 12.07.19. Unit Achieved Full Load on 29.03.2019. Synchronized on 14.01.19. Boiler: Boiler erection started on 15th Jun'14 (delay: 05 months). Hydro test done in 12/16. BLU done in 07/17. Steam blowing completed on 27.12.17. TG: Condenser erection started in 09/15. TG erection started in 01/16. TG Box-up achieved in 12/16. TG oil flushing completed in 06/17. TG on barring gear on 14.09.17. ESP: All six passes ATT & electrode erection done.
	U-1	660	11/16 01/17	05/17	14.01.19(A) 29.03.19(A)	12.07.19(A) 06.09.19(A)	
	U-2	660	05/17 07/17	11/17	12.02.20(A) 03/21	03/21 -	
	U-3	660	11/17 01/18	05/18	03/21 05/21	06/21 -	
	Orig.Cost/Latest Cost	Rs 13624.02 Cr/15131.67/17304 Crores					
	Exp. During 2008-09	Rs 0.10 Crores					
	2009-10	Rs 222.90 Crores					
	2010-11	Rs 83.00 Crores					
	2011-12	Rs 383.92 Crores					
	2012-13	Rs 711.17 Crores					
	2013-14	Rs 369.91 Crores					
	2014-15	Rs 1534.32 Crores					
	2015-16	Rs 2697.12 Crores					
	2016-17	Rs 3070.00 Crores					
	2017-18	Rs 2265.00 Crores					
	2018-19	Rs 1786.00 Crores					
	2019-20	Rs 1373.21 Crores					
	2020-21	Rs. 949 Crores					
	Cum. Exp up to	Rs 15463.61 Crores (02/21)					
	Investment Approval	31.01.2013(Jan'13)					
	Sanctioning Authority	NTPC Board					
	Type of fuel/FSA	: Coal. Coal linkage from CCL for 7.03Million Ton Per Annum. For commissioning coal 2 Lakh MT MOU has been signed. FSA will be signed after unit commissioning as per guideline.					
	Zero Date	: 31.01.2013					
	Date of Main Plant Order	TG –M/s ALSTOM-Bharat Forge on 31.03.2013. SG-Awarded to M/s BHEL on 31.01.2013.					
	Financial Closure	loan from REC. Debt, equity ratio is 70:30. NOC from BSPCB received on 08.04.2011					
	Main plant order	Boiler erection agency: U-1&3 – Powermech and U-2 is Indwell.					
	Critical Areas	●Poor Work Progress in SG, Ash Handling System and CHP affecting U#2 and U#3 milestones ●Balance supply of AHP, Boiler, CHP, Cooling Tower materials					
	Reasons for Delay	● Work stopped wef 23.03.2020 due to COVID pandemic. After 20.04.2020 efforts are being made to mobilize resources to start work progressively. ●Delay in Physical possession/Hindrance in Railway siding area.Possession of 3.96 Acres of land is Transferred to NPGC only on25.04.2020. It is reqd. for MUWcorridor, Outfall drain etc. ● Delay in readiness of Ash handling M/s DCIPS (Agency under liquidationprocess). It is affecting supply andwork progress. ● Delay in civil work for SG U#2 &3nd Offsite works due to financialissues due to NCLT order againsagency M/s ERA.					

MK 23.03.21

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A) / As now Expected			
			Syn. Com	Trail run COD	Syn. Com	Trail run COD		
	Central Sector							
4	Lara STPP, Dist: Raigarh, Chhattisgarh (NTPC Ltd.)	1600					Unit-1: COD – 01.10.2019. Unit completed 72 hr. full load trial on 02.03.2019, Commissioned on 22.03.18. Synchronized on oil on 09.09.17. Boiler: Boiler erection started on 23/12/13. Boiler Hydro test done on 12/15. BLU done in 01/17. SBO completion done in 05/17. TG: Condenser erection started on 29.05.2015 and TG erection started in 08/15. TG box-up done in 02/17. TG oil flushing completed in 07/17. ESP: 05 out of 06 passes of ESP erection completed. Unit-2: COD -07.11.20(A). Unit completed 72 hrs trail run on full load 12.07.20. Commissioned on 04.07.20. Synchronized on 14.02.2020 Boiler: Boiler erection started in 04/14. Boiler Hydro test done on 26.04.16. BLU completed on 24.12.18. MS, CRH, HRH hydro test completed. SBO completion in 12/2019. TG: Condenser erection started in 01/16. TG deck casting started on 26.05.16. TG erection started in 02/17. TG Box-up completed in 03/19. Chemical cleaning for feed water system completed, MDBFP trial run done. TG boxup in March 2019. ESP: ESP structural erection completed. ESP hoppers erection completed in 3rd pass and hopper erection works are in progress in 4th pass. BOPs: Chimney: U#1& U#2 work completed CHP: Both streams commissioned from TH to Bunker for U#1and U#2. Wagon tippler trial operation with loaded rake is completed. Stacker reclaim commissioning done. MGR Priority line commissioned. Wagon unloading started. AHP: Unit#1 system commissioned and ash discharged up to ash dyke. Erection of Unit#2: Fly ash system, HCSD silo (balance 1nos), ASPH (3rd stream) erection is in progress. However, due to poor financial condition of agency, balance supplies for Common Systems &Unit#2 are critically delayed. Poor mobilization by agency affecting the progress. Cooling Tower: Unit#1 &2 CT commissioned. PT Plant: Both streams are commissioned. DM Plant: Both streams for DM water generation are ready. CWPs: Unit#1 stream commissioned. Unit#2 pump commissioning done. IDCT: Unit-1 & 2 circuit is commissioned. Switchyard: Charged. FGD: FGD is awarded to L&T on 31.07.18. Chimney, absorber, Gypsum, dewatering, Gypsum shed, limestone conveyor civil foundation work in progress. Structural erection work started. Chimney fluecan i/p.	
	U-1	800	09/16 11/16	03/17	09.09.17(A) 22.03.18(A)	02.03.19(A) 01.10.19 (A)		
	U-2	800	03/17 05/17	09/17	14.02.20(A) 04.07.20(A)	12.07.20(A) 07.11.20(A)		
	Investment Approval	: 07.11.2012						
	Sanctioning Authority	: NTPC Board						
	Orig.Est. cost	: Rs 11846.00 Crores						
	Latest. App.Est. Cost	: Rs 12739.82 Crores						
	Est cost upto 2020-21	: Rs 14121.88 Crores						
	Exp.During 2011-12	: Rs 280.0 Crores						
	2012-13	: Rs 77 3.00 Crores						
	2013-14	: Rs 535.00 Crores						
	2014-15	: Rs 2147.00 Crores						
2015-16	: Rs 2383.00 Crores							
2016-17	: Rs 1900.00 Crores							
2017-18	: Rs.1512.00 Crores							
2018-19	: Rs 1988.29 Crores \							
2019-20								
2020-21	Rs 1900.58 Crores							
Cum Exp	: Rs 13722.66 Crores (up to 06/20)							
Type of fuel	: Coal							
Fuel linkage								
Date of Main Plant Order (BTG)	SG- M/s Doosan, in Dec'12							
Zero Date	TG - M/s BGR Hitachi in Dec'12							
Power Evacuation	13.12.2012							
	There are two nos. of D/c evacuation lines from Lara switchyard, each line is capable of evacuating around 1000 MW. One line is going to Champa and the other going to Kotra. Tower erection, stringing of one line near to the plant is completed and for the other line stringing is to be done.							
Critical Areas	- Support of State Govt. is required for early possession/ acquisition of balance land for MGR route - Support of Railways required for CRS Sanction for insertion of turnout & completion of associated S&T works at Kotarlia station - Completion of balance work of Railway siding.							
Reasons for Delay	- Work stopped wef 23.03.2020 due to COVID pandemic. - Delay in readiness of Railway siding due to land acquisition, ROW issue in 18 nos foundation of MU Water 66kVtransmission line copridors is hampering process. - Delay in supplies of Ash Handling Material.							

MK 29.07.20

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A) / As now Expected			
			Syn. Com	Trail run COD	Syn. Com	Trail run COD		
	Central Sector							
5	North Karanpura STPP, Dist.Chatra, Jharkhand NTPC Ltd	1980					Unit-1: Boiler: Boiler erection started in 04/16. Hydro test (Non drainable) completed in 01/19. BLU completed in 12/20. Steam blowing off completed in 02/21. TG: TG civil work started in 04/16, TG erection started in 11/17. Condensor erection started in 11/18. TG Box up in 08/19. TG oil flushing completed in 10/20. Unit-2: Boiler: Boiler erection started in 07/16. Hydro test (Non drainable) completed in 10/19. TG: TG erection started in 01/18. Condensor erection started in 01/20 Box up expected in 12/20. Unit-3: Boiler: Boiler erection started in 06/17. TG: TG civil work started in 06/16. BOP: Chimney: U#1 Flue can Erection completed. U#2 ,Flue can erection done ,U#3 Chimney Shell: Beam erection in progress CHP: Civil & Structural works under progress AHP: Civil & Structural works under progress PT/DM Plant: Civil works on clarifier in progress. Mech erection is in progress. Tank foundations completed. Cooling Towers: completed. Fuel Oil System: Civil work completed, Mech erection of both tank in progress. Switchyard: erection completed. FGD: Awarded to BHEL on 31.07.18. Civil work in progress.	
	Unit-1	660	12/17 02/18 02/19* 02/19*	04/19	05/21 09/21	10/21 -		
	Unit-2	660	06/18 08/18 08/19* 08/19*	10/19	01/22 03/22	04/22 -		
	Unit-3	660	12/18 02/19 02/20* 02/20*	04/20	08/22 09/22	10/22 -		
		* Revised Schedule.						
	Original /Latest Cost		: Rs 14366.58 / 15164.05Crores					
	Exped. during		: Rs. 1530.00 Crores					
	2013-14		: Rs. 525.00 Crores					
	2014-15		: Rs. 573.00 Crores					
	2015-16		: Rs. 2208.00 Crores					
	2016-17		: Rs. 2042.00 Crores					
	2017-18		: Rs. 1699.13 Crores					
2018-19		Rs. 1712.99 Crores						
2019-20		Rs. 1183.95 Crores						
2020-21		Rs. 1183.95 Crores						
Cumulative Exp		: Rs. 11612.82 Crores (up to 02/21)						
Type of fuel		: Coal						
Investment. approval		Feb 2014						
Date of Main Plant Order		EPC placed on BHEL (except external CHP, MUW system and Ash dyke) on 28.02.14. Main plant civil works awarded on BHEL						
Amendment to EC issued by MOEF on 31.10.2014 for use of Air Cooled Condenser system (one ACC for each unit).								
Critical Areas		Work of EPC Pkg (BHEL) needs to be expedited. Forest Clearance in ATS –NK Chandwa line to be expedited. Support of State Govt of Jharkhand is required for following: 1. Acquisition / transfer/ possession of balance land for Ash Dyke and Reservoir 2. Acquisition of Land by CCL for external CHP. 3. Early completion of Road Widening and strengthening of SH-7 from Hazaribagh to Bijupara. It is being done on deposit basis by RCD. The road diversion in project area needs to be completed on priority.						
Reasons for Delay		• Work stopped wef 23.03.2020 due to COVID pandemic. • Delay in civil work due to land acquisition issue. • Delay in land handover by NTPC to BHEL due to change in main plant area location change in plot plan. • Delay in ACC package by BHEL. • Balance land acquisition (53.03 Acres), Lease transfer of 704 Acres of Govt. land, water system package, Switchyard transmission system by BHEL, ATS/Start up power, No objection certificate from MoC is required for start of transmission line works for startup power readiness by Dec 2018.						

MK 23.03.21

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A) / As now Expected			
			Svn. Com	Trail run COD	Svn. Com	Trail run COD		
	Central Sector							
6	Gadarwara STPP, St-I, Dist: Narsinghpur M.P NTPC Ltd.	1600					Unit-1: COD - 01.06.19. Trail run completed on 23.11.18. Taken into cap addition on 29.03.2019. Full load is achieved on 13.10.18. Synchronization on 30.08.18 Boiler: Boiler erection started in 06/14. HT done in 12/16. BLU achieved in 04/17. SBO completed in July'17. ESP: All six pass erection completed and emitter's erection is in progress. Hopper erection completed. TG: Condenser erection started in 12/15. TG erection started in 04/16. TG box-up completed in 08/17. TG oil flushing completed in 09/17. Unit-2: COD on 01.03.21.Trail run completed on 16.02.21. Taken into cap addition on 16.02.21. Full load is achieved on 19.01.21. Unit Synchronisedon 26.08.20. Boiler: Boiler erection started in 30 th Nov'14. Pressure part erection in progress. HT completed in 11/17. BLU completed on 31.12.18.SBO completed on 23.12.19. Coal firing done in 08/20. ESP: Pass A, B & C erection completed and foundation work of D, E & F passes completed. TG: TG erection started in 06/17. TG Box-up completed in 11/18. TG oil flushing completed in 03/19. TG put on barring gear on 31.03.19. BOPs: Chimney: Unit-1 &2 work done. CHP: . Both stream from WT to Bunker commissioned for both Units, 3/3 nos. WTs, both Stacker / Reclaimers commissioned. AHP: U#1 Bottom ash evacuation with 2 nos ash slurry series completed up to Ash dyke. Fly ash evacuation for all 6 passes completed up to HCSD silo & up to Dyke U#2 BAH &BH erection completed PT Plant: All three CW streams commissioned. DM Plant: Both stream of DM water commissioned. CWPs: All 5nos CW pumps commissioned. IDCTs: CT-1: All 28 nos fan erection done. CT-1 taken into service. CT-2: Trail completed. Switch Yard: 132KV tower erection completed and charged.Both 765KV Jabalpur & Warora line line charged. FGD: FGD is awarded to ISGEC on 18.09.18. U-2 chimney raft completed. Civil work i/p. U-2 chimney shell casting started.U-2 absorbr rection i/p.	
	U-1	800	12/16 03/17	07/17	30.08.18(A) 13.10.18(A)	23.11.18(A) 01.06.19(A)		
	U-2	800	06/17 09/17	01/18	26.08.20(A) 19.01.21(A)	16.02.21(A) 01.03.21(A)		
	Investment Approval	22.02.2013						
	Sanctioning Authority	NTPC Board						
	Orig.Est. cost	Rs 11638.55 Crores						
	Latest.Est. Cost	Rs 12865.92 Crores /15105.22Crore						
	Exp.During 2012-13	Rs 655.00 Crores						
	2013-14	Rs 463.00 Crores						
	2014-15	Rs 1614.00 Crores						
	2015-16	Rs 2749.00 Crores						
	2016-17	Rs 1988.00 Crores						
2017-18	Rs 1556.00 Crores							
2018-19	Rs 1914.61 Crores							
2019-20	Rs 1475.31 Crores							
2020-21	Rs 162.08 Crores							
Cumulative Exp	Rs 660.17 Crore							
Cumulative Exp	Rs 13657.43 Crores (upto 2/21)							
Type of fuel	Coal							
Fuel linkage								
Date of Main Plant Order (BTG)	in 03/2013 M/s BHEL, Main plant & offsite civil works order placed in 08/13.							
Zero Date	22.03.13							
	Critical Areas	• Possession of 2.91acres part land for Crossing Station of Railway Siding. • Support of Railways is required for early completion of works of Crossing station. • Slow Progress of AHP agency (M/s Indure) due to inadequate manpower mobilization & repeated defaults in material supplies. Comfort letters issued by site for supplies of BOIs.						
	Reasons for Delay	• Work affected due to COVID pandemic. • Work stopped for 56 daysin 2014 due to agitation by villagers demanding additional compensation for already acquired land. • In may 2016, work was stopped for two and half day from 18.05.16 due to labour strike and one more day was lost due to death of labour on 27.05.2016 • Work stopped for 56 days in 2017-18 (22.12.2017 to 15.02.2018) due to agitation by PAP's under the banner of "Kisan Mazdoor Sangh" with their major demand for permanent employment in NTPC and some demands related to local development work as part of R&R plan. • Turbine vibration issue(now under observation, to be checked at full load)						

MK 23.02.21

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A) / As now Expected			
			Syn. Com	Trail run COD	Syn. Com	Trail run COD		
	Central Sector							
7	Darlipalli STPP ST-I, Dist. Sundergarh, Odisha (NTPC Ltd.)	1600					Unit-1: COD declared in 01.03.20 .72 hrs trial run completed on 31.12.19, Full load on 02.10.19 and synchronized on 04.04.2019. Boiler: Boiler erection started in 04/15. HT completed in 8/17. BLU completed in 10/18. Steam blowing completed in 02/19. TG: Condenser erection started in 12/15. TG erection started in 05/16. TG box-up done in 11/17. TG oil flushing done in 11/18. TG put on barring gear on 12/18. ESP: All passes completed. Unit-2: Boiler: Boiler erection started in 07/15. HT done in 03/18. BLU in Oct-2019. Steam blowing completed in 01/21. TG: Condenser erection started in 09/16. TG erection started in 03/17. TG BOX up in 02/19. TG oil flushing completed in Jan 2020. TG put on barring gear on 06.12.20. ESP: All 6 passes are completed. BOPs: Chimney: raft completed. CHP: Order placed on Tata projects in Feb'15. Coal conveying system upto U-1 completed. DPR & Coal Trans. : 13 km rail laying (priority line) completed. Coal is transported by MGR to Project site. Railway siding work awarded by IRCON and work started AHP: Order placed on Indure in Oct'14. Structural work at bottom ash hopper erection, ASPH and AWPB foundations completed. Supply of material from Indure is pending. Ash Dyke: Lagoon 1, 2 and OFL is completed and work in Lagoon 3 under progress. PT/DM Plant: Order for water treatment plant placed on Triveni Engineering in Feb'15. One stream for DM water generation is ready, one stream clarifier ready. Completion work is in progress. DM water production is done on daily basis. CWPs: Order for CW equipment placed on Kirloskar Brothers Ltd in Oct'14. Equipment supplies done. Work in progress. RW PH & CWPB completed; CT: Order placed on L&T, ECC in Dec'14. Unit 1 all 32 cells mech& civil work completed. 32 cells charged erection under progress & U- 2 Cooling tower 32 cells completed. Comm in progress Switchyard: U-1 all transformers completed. U-2 erection completed. Comm in progress. FGD: FGD is awarded to L&T on 18.09.18. Front handed over , work in progress for Unit 1 Absorber , Electrical and C&I building , Unit 2 Chimney etc.	
	U-1	800	12/17 02/18	04/18	04.04.19(A) 02.10.19(A)	30.12.19(A) 01.03.20(A)		
	U-2	800	04/18 06/18	08/18	03/21 04/21	04/21 -		
	Investment. approval							
	Orig. Est. cost	Rs 12532.44 Crores.						
	Latest. Est. Cost	Rs 13140.53 Crores. (Jan 2014)						
	Exp. During 2013-14	:Rs. 951.00 Crores.						
	2014-15	:Rs 1457.00 Crores.						
	2015-16	:Rs 1417.00 Crores.						
	2016-17	:Rs 2384.00 Crores.						
	2017-18	:Rs 2100.00 Crores.						
	2018-19	:Rs 1531.66 Crores.						
2019-20	Rs 991.99 Crores.							
2020-21	Rs. 1620.08 Crores							
Cumulative Exp	:Rs 11641.13 Crores (up to 02/21)							
MOEF clearance								
Type of fuel	: Coal							
Date of Main Plant Order	SG. Awarded in 02/14 on M/s BHEL. TG awarded in 02/14 on M/s Toshiba							
Critical Areas	Balance RoW for 132 kV transmission line (Approx. 265 towers) for Make Up Water pump house. 2. Acquisition/possession of balance land for Railway siding and Outfall drain.							
Reasons for Delay	• Work stopped wef 23.03.2020 due to COVID pandemic • Delay due to readiness of AHP(Indure), MGR(IRCON) civil work(Toshiba) • Non availability of land in railway siding and make up water corridor. • Delay in Completion of CW system from TG Deck floating.							

MK 23.03.21

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A) / As now Expected			
			Svn. Com	Trail run COD	Svn. Com	Trail run COD		
	Central Sector							
8	Telangana TPP (Ph-I), Dist. Karim Nagar Telangana NTPC Ltd.	1600					Unit-1: Boiler: Boiler erection started in 12/17. Boiler Ceiling Girder erection completed on 9/3/19; Pressure parts erection started from 13/3/19. TG: Condenser erection started in 07/18. TG erection started in 08/18. TG box up completed. TG Lub oil piping works completed. TG integral piping works completed. CEP extraction piping works in progress. Generator stator lifted and placed in position on 17.04.19. Generator rotor thread in done on 14.6.19. TG oil flushing completed in 01/21. ESP: ATT for all passes completed. Unit-2: Boiler: Boiler erection started in 12/17. Boiler 1st Ceiling Girder erection done on 28/3/19.2Header erection commenced on 26.06.19. TG: Condenser erection started in 02/19. TG erection started in 03/19. TG erection commenced on 28/3/19. TG box up completed on 29.05.2020. TG put on Barring gear on 28.02.2021 ESP: ATT done. BOPs: Chimney: shell completed up to 45 m., U-2 chimney shell casting completed on 13.02.19. Chimney Flue Liner fabrication in progress. U#1 – 24/33 & U#2- 4/33 Fabrication Completed. CHP: TP's and Conveyor foundation in progress. Track hopper: 5/7 casting done.. WT#1,2 and 3 –Raft completed, RCC works in progress. Crusher House erectionn i/p. Stacker-Reclaimer erection also in progress. CT: CT#1& 2 RCC work above basin in progress. WTP area- DM Tank & CW clarifier excavation RCC civil works completed.mechanical erection i/p. AHP: Ash Dyke: Protective bund and reservoir earth work in progress. CWPH: CW PH & RW PH- Operating floor casting done. Mechanical erection commenced. Balance CW duct civil and fabrication/erection works in progress. DM Plant: WPT area – DM tank erection completed & CW clarifier mechanical works in progress. Switchyard: GIS equipment erection commenced on 25.07.19 and is in advance stage. Startup power bay successfully charged. FGD: Awarded to M/s GE on 04.01.18. Gypsum dewatering Building & ECR building, Bowl mill foundation casted. Absorber cone erection completed. Absorber cone erected. Shell 6/17erected.Outlet elbow prefabrication under progress.Inlet duct 1/5 piece erected.Aux absorbent tank, lime slurry tanks erection completed. U-1 absorber 90% erection completed.	
	Unit-1	800	10/19 01/20	05/20	09/21 01/22	01/22 -		
	Unit-2	800	05/20 07/20	11/20	02/22 03/22	03/22 -		
	Orig.Est. cost	Rs 10599.00 Crores						
	Latest.Est. Cost	Rs 10997.7 Crores						
	Exp. During	2015-16 : Rs. 6.00 Crores 2016-17 : Rs 807.00 Crores 2017-18 : Rs. 1035.00 Crores 2018-19 : Rs. 2522.06 Crores 2019-20 Rs 2537.67 Crores 2020-21 Rs 1260.13 Crores						
	Cumulative Exp	: Rs. 8262.45 Crores (up to 02/21)						
	Type of fuel	Coal						
Date of Main Plant: Order: Zero date MOEF clearance	SG on BHEL TG on Alstom-Bharatforge on 05.02.16. 31.03.2015							
Critical Areas		- Poor site mobilisaion and pending supplies by BHEL is hampering bsite work progress. CHP, LHP readiness is critical Sub agencies is delaying Boiler readiness.						
Reasons for Delay		Work stopped wef 23.03.2020 due to COVID pandemic Delay due ot readiness of AHP(Indure) Change in boiler design w.r.t. new environmental norms, Delay in BHEL supplies. - Slow progress of work by M/s GE power.						

MK 23.03.21

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule		Broad Status
			Original	Actual(A) / As now Expected	

			Syn. Com	Trail run COD	Syn. Com	Trail run COD	
	Central Sector						
9.	Meja STPP, Dist:Allahabad, U.P. [MUNPL- Meja Urja Nigam Pvt. Ltd. (JV of NTPC & UPRVUNL)]	1320					Unit-1: Commissioned on 31.03.18, Synchronized on 23.08.17. Boiler: Boiler erection started on 11 th Jun'13. Boiler hydro test done on 27.05.16. BLU achieved in 03/17. SBO completed in 07/17. TG: TG erection started in 09/14. TG box-up done in 09/15. TG oil flushing completion done in 11/16.
	U-1	660	04/16 06/16	08/16	23.08.17(A) 31.3.18(A)	- -	
	U-2	660	10/16 12/16	02/17	14.09.20(A) 26.11.20(A)	12.01.21(A) -	
	Original/Latest Cost	: Rs 10821.00 /10821.00/12176.28 Crores					
	Exp.During 2008-09	:Rs 54.01 Crores					
	2009-10	:Rs 41.51 Crores					
	2010-11	:Rs 61.43 Crores					
	2011-12	:Rs 65.42 Crores					
	2012-13	:Rs 862.87 Crores					
	2013-14	:Rs 565.90 Crores					
	2014-15	:Rs 1624.20 Crores					
	2015-16	:Rs 1803.86 Crores					
	2016-17	:Rs 715.83 Crores					
	2017-18	:Rs 2005.97 Crores					
	2018-19	:Rs 848.00 Crores					
	2019-20	:Rs. 748.00 Crores					
	2020-21	:Rs. 690 Crores					
	Cumulative Exp.	:Rs 11130 Crores (Up to 01/21)					
	Type of fuel	: Coal					
	Zero Date	30.04.2012					
	Sanctioning Authority	: NTPC Board					
	Date of Main Plant Order (BTG)	SG: 30.04.12 on M/s BGR Energy Systems, Chennai. TG: 01.05.12 on M/s Toshiba Corporation, Japan.					
	MOE&F clearance available on 10.01.11. Environment Clearance for Project extended up to 31.03.2019 by MOEF on 30.08.2018						

MK 23.03.21

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. Com	Trail run COD	Syn. Com	Trail run COD	
	Central Sector						
10	Tanda-II STPP, Dist. <u>Ambekar Nagar</u> , U.P. NTPC Ltd.	1320					Unit-5: Unit completed 72 hr. full load trial on 28.09.2019. Unit commissioned on 14.09.2019. Unit Synchronized on oil on 09.06.19. Boiler: Boiler erection started in 12/15. Hydro test done on 20/04/18.BLU completed on 31.12.18.Steam blowing completed in 05/19.Syn on oil in 06/19. TG: Condenser erection started in 03/17. TG erection started in 07/17. TG Boxed up in 03/18.TG Oil flushing is completed in 09/18. TG put on barring. ESP: ESP is having 6 Passes, all passes commissioned. Unit-6: Boiler: Boiler erection started in 10/16. Hydro test completed on 18/01/19. 44879/45610 MT structur erection done. BLU completed in 10/20. Steam blowing completed in 02/21. TG: TG erection started in 12/18.Condenser erection started in 10/18. TG boxed up in 03/19. TG oil flushing completd in 01/2020. TG put on barring gear. ESP: ESP is having 6 Passes; work is in progress for all passes BOPs: Chimney: Order placed on GDCL in 02/15. PCC/RCC 197439/204500 Cum completed Fabrication 36179/39774 MT completed. Erection 33967/37905MT completed CHP: Order placed on L&T in 12/15. CHP ready except 1 Reclaimer, wip. Tipper ready. Coal Transportation: Order placed on RITES on 06/15. Rake unloaded at WT-1 & WT-2. Further Formation & rail linking wip AHP: Order placed on L&T in 03/16. Civil works under progress. Mech erection of AWP, ASPH completed. Wip in HCSDPH and TACH &HCSD silo. Ash Dyke : Embankment filling Dyke-1:- 416781 /700000 CuM Dyke-2:- 1117717/1300000 Cum DM Plant: Ready CWPs: Order for CW system equipment placed on KBI in Jun'15. Pumps 1,2 ,3,4 & 5 commissioned. & in service. NDCTs: U-5 completed. U-6 compartment-1&2 ready for water charging.U-2 i/p. Switchyard: U-5 portion is ready. U-6 work completed FGD: FGD is awarded to GE on 21.09.18. Geo technical investigation completed. Job piling and foundation work in progress. Absorber #5 tanks and cable work in progress.
	U-5	660	07/18 09/18	01/19	09.06.19(A) 14.09.19(A)	28.09.19 (A) -	
	U-6	660	01/19 03/19	07/19	03/21 03/21	03/21 -	
	Original/Latest Cost : Rs 9188.98 /9842.02 Crores						
	Exp. During 2013-14 : Rs 280.00 Crores						
	2014-15 : Rs. 298.00 Crores						
	2015-16 : Rs 649.00 Crores						
	2016-17 : Rs 1413.00 Crores						
	2017-18 : Rs 1671.12 Crores						
	2018-19 : Rs 1553.25 Crores						
2019-20 Rs 1419.53 Crores							
2020-21 Rs 659.78 Crores							
Cumulative Exp : Rs 8051.56 Crores (up to 02/21)							
Type of fuel : Coal							
Investment. approval Sep 2014							
Date of Main Plant Order Boiler: L&T, TG: Alstom in Sep'14. MP civil works awarded to M/s GDCL in Feb'15.							
Critical Areas		• Physical possession of balance 8.088 Acres Abadi land. Out of this, 1.772 acres in Ash Dyke area is critical. • 22 houses of Khattegaon need to be shifted for completion of Lagoon IIA • Associated Transmission System for Unit-6 by UPPTCL: - Construction of sub-station at Basti - Construction of Tanda – Basti 400 KV Line					
Reasons for Delay		• Work stopped/affected wef 23.03.2020 due to COVID pandemic • Poor mobilization by civil agency, Delay in Engg. & Supply. • Delay in AHP (L&T MMH). • Delay in Civil Front. • Tapering coal linkage, physical possession of balance abadi land in main plant & Ash ares.					

MK 23.03.21

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule		Broad Status
			Original	Actual(A) / As now Expected	

			Syn. Com	Trail run COD	Syn. Com	Trail run COD	
	Central Sector						
11	PatratuTPS, Imp.Agency-PVUNL Dist: Jharkhand. (JV of NTPC & Govt. of Jharkhand)]	2400					Unit-1: Boiler: Boiler erection started on 27.08.19.Ceiling girders ersion started in 01/21. 6/9 girder erection completed. TG: SG foundation completed. ESP: ESP erection started on 22.01.2020.foundation work completed. Unit-2: Boiler: Boiler erection started on 30.12.19. TG:. SG foundation completed. ESP: ESP erection started on 19.02.2020. Foundation work completed. Unit-3: Boiler: Boiler erection started on 30.12.19. TG:. SG foundation work completed. ESP: ESP foundation work i/p. BOPs: Chimney: Chimney#1Shell casting completed. Chimney#2 work started on 20.07.18. Present height is 55 m. Chimney 3: Raft csting completed in 12/20. CHP: civil work started on 27.08.19. Design & engg drawings is being finalized. Foundation works of Track Hopper, Wagon Tippler, TPs and Conveyor Galleries in progress. AHP: Design and Engg Drgs being finalized. Civil work started on 16.10.19.Foundation work of Silos, Compressor house and Conveyor Galleries i/p. ACC: Air Cooled condenser (ACC)Mech Package awarded to M/s Beijing Shouhang terminated. NIT for re-award of ACC pkg done. PT Plant: Package awarded by BHEL, Design and Engg going on DM Plant: Package awarded by BHEL, Design and Engg going on CW System: Work yet to start Switchyard: Existing Transmission Line shifting work: Diversion of 220 KV Hatia line, 132 KV Hatia line, 220 KV Tenughat line and 132 KV Ramgarh DVC line completed • GIS (Gas Insulated Switchgear) for new units: GIS Building erection completed. Crane erection i/p. Railway siding: Work awarded to M/s RITES for consultancy work of construction of Railway Siding (Plant end) FGD: order placed to BHEL on 08.03.18. Civil foundations are being released. Design and Engg going on. Duct Foundation and Lime Stone hopper work in progress.
	U-1	800	11/21 01/22	03/22	05/23 07/23	- 09/23	
	U-2	800	05/22 06/22	11/22	11/23 01/24	- 03/24	
	U-3	800	11/22 12/22	03/23	05/24 07/24	- 09/24	
	Original/Latest Cost	Rs 17112.00/ 18668 Crores					
	Exp.During 2017-18	Rs. 992.11 Crores					
	Exp.During 2018-19	Rs. 485.18 Crores					
	Exp.During 2018-19	Rs. 1212.8 Crores					
	Exp.During 2019-20	Rs. 1112.10 Crores					
	Exp.During 2020-21	Rs. 1068.65 Crores					
	Cumulative Exp.	Rs 4060.28 Crore (02/21)					
	Type of fuel	Coal					
	Zero Date	07.11.17					
	Date of Main Plant Order (BTG)	BTG and Main Plant Civil &BTG Awarded to BHEL on 08.03.18					
	MOEF&CC : EAC recommended in meeting held on 25.09.2017 and letter issued on 07.11.2017. NOC from AAI : Received on 03.06.2016. Forest Clearance : No foreset land in main plant area. Water : 27 Cusec water from Nalkari DFam Reservoir vide agreement dt. 25.01.2016 with GoJ. PPA : 85 % allocated to Jharkhanmd, PPA signed on 30.03.2016 & 15 % of Un-allocated power will be reamin as un-allocated quota at the disposal of GOI. Land : 1199.03 acres land – GoJ vide sankalp dt 08.09.2017. 34.97 acres Pvt / Raiyatri land lying in midst of Ash dyke-Ii transfer is under progress. Power Evacuation System : Power evacuation at 400 KV line through: i. Upcoming Patratu Sub-Station (7.5 Km) ii. Koderma Sub-station (160 Km) iii. New Chandil Station (150 Km)						
Critical Areas	- Expediting award of CHP civil, EOT, DBA, Structure erection of CHP FGD by BHEL. - Slow Engg. progress due to non-award of transmission system contract and delay in award of BOIs. - Delay in supply of Boiler structure from BHEL Trichy /Jagdishpur Unit and MPH structure affecting erection progress. - Acquisition of Balance land of 34.97acres fro Ash dyke -2.269acre fro railway siding, 14.09 acre for infrastructure facility. - Delay in award of Air Cooler Condenser (ACC) Mech Pkg (LOI placed in Dec’19 with delay of 29 months), ACC Civil Package, Dry bottom ash hopper and EOT crane. Re-awarding of AHP.						
Reasons for Delay	- Work stopped wef 23.03.2020 due to COVID pandemic. - Dealy in supply of Boiler structure, main plant houise structure, inserts for TG. - Delay in award of 400 KV evacuation line by GoJ. This line is required for startup power. - Debt funging problem from REC.						

MK 23.03.21

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. Com	Trail run COD	Syn. Com	Trail run COD	
	Central Sector						
12	Rourkela PP-II Expansion,Odisha	250					Unit-1: Boiler: Boiler erection started on 30.03.17. Boiler drum lifted on 04.11.17. Hydro Test (drainable) done on 08.09.18.. Boiler light up done on19.11.20. Chemical cleaing completed on 17.01.21.
	U-1	250	- 09/18	12/18	04/21 05/21	06/21 07/21	
	Investment Approval	14.09.15					
	Orig.Est. cost Latest.Est. Cost	Rs 1885.13 Crores Rs 1885.13 Crores					TG: TG civil work started on 02.03.17. Condenser erection started on 28.12.17. TG erection started on 27.11. 18.
	Exp.During 2016-17 2017-18 2018-19 2019-20 2020-21:	Rs 237.51 Crore Rs 515.81 Crore Rs 448.96 Crores Rs 354.67 Crores Rs 206.74 Crores					ESP: All passes electrodes erected. ATT for pAss A, B & C completed. D i/p. BOPs: Chimney: Shell casting completed on 30.03.18. Flue can erection completed. Chimney painitng work i/p. CHP: ERH-1&2: ERH-1 & ERH-2 erection completed up to roof truss level & top gratings erected. Equipment erection i/p. ERH-2 ground portal pedestal casting completed. Crusher house: All 28 columns up to 4 th segment erected. Wagon tippler work i/p. AHP: AHP MCC, MCC control room, compressor house cum AWPH roof slab cast done. Ash slurry sump foundation casting completed. Fly Ash Silo Utility building all slab cast. Bottom ash hoppers leakage test done and castable casting completed. 02 HP water, 02 LP water 02 fly ash water, 01 flushing water, 02 seal water pumps 03 heaters and 03 fluidizing air blowers erected. AHP slurry pumps, compressors & air driers erected. Readiness of AHS upto ash dyke A, B, C& HCSD system in next 3 months. PT Plant: Clarified water storage tank partially completed.sludge collection pump completed. DM Plant: Main Foundation completed, DM tank erection done. CWPs: 219/220 MT erection completed. CW inlet duct and riser pipe and re-circulating pipe erection completed. CW treatment building Civil Works completed IDCTs: Cooling Tower fan stack completed for Cell 4 to 10. Civil Works of Cell No. 3 slab completed. Hot water channel completed for Cell#4 to 10. Fans erection in Cell#7, 8 , 9 &10 completed. Grid fills erection up to Cell#7, 8 & 9 completed and Cell#10 is i/p. Hot water duct at CT is in progress Switch Yard: 220kV line charged on 12.02.21. GIS charged on 15.02.21. FGD: Fresh tender to be floated (earlier cancelled).
	Cumulative Exp	: Rs 1763.69 Crores(upto 02/21)					
	Type of fuel	: Coal					
	Fuel linkage	Project taken up with supply of 1.42 MTPA coal from Ramnagore Colliery. However on 17.04.18, SAIL informed that Ramnagore Colliery shall be delayed and requested NSPCL for making alternative arrangements for supply of coal. Applied on 14.05.18 under Shakti Scheme					
	Date of Main Plant Order (BTG) PPA	BTG and EPC contracted to M/s BHEL including offsite civil works, order placed on 11.05.16 Signe don 09.05.16 with RSP, SAIL.Long term PPAs with validity of 25 years with M/s SAIL, GRIDCO Odisha,WBSEDCL & DNHPDCL					
	Critical Areas	Project taken up with supply of 1.42 MTPA coal from their Ramnagore Colliery (SAIL's letter dated 29.08.13). However, on 17.04.18, SAIL informed that Ramnagore Colliery shall be delayed and requested NSPCL for making alternative arrangements for supply of coal to Rourkela PP-II Expansion (1x250 MW) Project. Applied on 14.05.18 under SHAKTI scheme and the same has been recommended by CEA to MOP. Coal linkage is critical for the Project.					
	Reasons for Delay	• Work stopped wef 23.03.2020 due to COVAID pandemic. • Slow progress of work by BHEL. • Delay in getting coal mines, coal linkages.					

MK 23.03.21

(NLC India Limited)

Sl. No.	Project Details	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A)/ As Expected			
			Syn. Comm	COD	Syn. Comm	Trial-run COD		
Central Sector								
1	Neyveli New TPP M/s Neyveli Lignite Corporation Ltd. at Neyveli in Tamil Nadu	1000					Unit-1: Unit completed 72 hr. full load trial on 20.12.2019, commissioned on 29.09.2019 and Synchronisation on 28.03.2019. Boiler (M/s BHEL) Civil work srtrart on 30.06.2014, erection start on 07.03.2016, Hydro test (drainable) – 22.08.2018. BLU – 28.12.2018, Synchronisation on 28.03.2019. Lignite firing 18.07.2019 and full load 29.09.2019 TG & Condenser: Civil work start on 30.06.2014 and erection start on 24.03.2016. Condensor erection start on 24.03.2016. TG boxup 31.03.2017, TG oil flushing 20.11.2017 Steam blow off 20.02.2019. Unit-2: Unit completed 72 hr. full load trial on 03.02.2021, commissioned on 31.01.2021 and Synchronized on 26.02.2020 Boiler : Civil work srtrart on 31.10.2014, erection start on 28.03.2016, Hydro test (drainable) – 26.11.2018. BLU – 30.05.2019. Steam blow completed on 25.09.2019 and first ligniyte firing as on 13.03.2020. TG & Condenser: Civil work start on 29.10.2014 and erection start on 24.03.2016. Condensor erection start on 24.03.2016. TG boxup 30.06.2017, TG oil flushing 15.09.2018 Steam blow off 26.09.2019. BOPs • Chimney: Initial Operation completed and in service. • LHP: Complete and in operation. • AHP: All the equipments in AHS is commissioned. FGD and AHP line erection work in progress • PT/DM plant: Awarded to M/s EPIL on 30/04/14. Initial Operation completed and Plant in service. • CW System: Awarded to M/s EPIL on 30/04/14 and further to M/s KBL on 20/01/15. CWP: CWP -IA &IB- pumps Initial Operation completed and Pump in service. For unit-2: Both CWP 2A & 2B taken into service. • Cooling Tower: completed and in service. • FO System: Completed and in service. Switchyard: 220kV GIS: 220kV GIS permanently charged. 400kV GIS: 400KV GIS permanently charged on 13.02.19. • FGD : LOI issued on 31.08.2019. Contract termination letter issued to M/s china Datang tech on 07.09.20.Retendering done on 8.12.20. prebid conducted on 21.12.20.	
	U-1	500	07/17 09/17	10/17	28.03.2019(A) 29.09.2019(A)	20.12.2019(A) 28.12.2019 (A)		
	U-2	500	01/18 03/18	04/18	26.02.2020(A) 31.01.2021(A)	03.02.2021(A) 10.02.2021(A)		
	Original Estd. Cost	: Rs. 5907.11 Crores						
	Latest Est. Cost	: Rs. 7080.41 Crores (Base-Fab 2018)						
	Latest est approval	:Rs. 7980.79 Cr						
	Expenditure during 2011-12	: Rs. 14.4715 Crores						
	2012-13	: Rs. 13.5319 Crores						
	2013-14	: Rs. 311.1426 Crores						
	2014-15	: Rs. 445.6023 Crores						
	2015-16	: Rs. 1028.6206 Crores						
	2016-17	: Rs. 1933.3514 Crores						
	2017-18	: Rs. 1099.3654 Crores						
	2018-19	: Rs. 739.9544 Crores						
	2019-20	: Rs. 728.43 Crores						
	2020-21	Rs. 226.99 Crores						
	Total Expenditure	: Rs. 6541.44 Crores (up to 01/21)						
	Approval date:							
	Zero date:	: 09/06/11						
	Financial closure	Debt: Equity 70:30 Loan availed from power finace corpn. and HDFC						
Main Plant Order	: Main Plant Order (EPC) issued to M/s BHEL on for SG & Auxiliaries on 31/10/13 and TG & Auxiliaries on 23/12/13.							
BOP Package	: Awarded to M/s EPIL on 30/04/2014.							
Type of fuel	: Lignite from NLC mine 1 & 1A							
PPA	:PPA signed for 25 years with AP- 52.46 MW, Telangana – 61.31 MW, Karnataka 70.54 MW, Kerala 32.38 MW, Tamil Nadu 653.07 MW, Puducherry 4.24 MW, NLC – 66.00 MW and Un allocated power – 60.00 MW.							
Power Evacuation system	For power evacuation and drawing of start-up power,400kVand 220kV switchyard would be provided. Each of the 500 MW units would be connected to the 400kV switchyard. The power generated at the plant would be evacuated through a 400kV system. Start-up power would be drawn from the 220kV switchyard. The generator transformers of 500MW units would step up generator voltages to the switchyard voltage of 400Kv.One and Half Breaker scheme is proposed for 400kV and 220kV switchyard. These schemes are reliable and provide flexibility in operation.							
• Coal Linkage/FSA: Lignite from the NLC Mine 1 & 1A. • Land possession: 160 Hectares Owned by NLC • Water allocation: Existing TS 1 lake and erstwhile Fertilizer lake of NLC Ltd., • MOE&F: Clearances obtained on 21/10/2010 and extended up to 20/10/2017, clearance further extended upto 20.10.19. • CPCB: Clearances obtained and valid up to 31/03/2018. • SPCB: Approval up to 31.03.2019 has been obtained and further CTO process initiated. • Civil Aviation: Obtained from AAI on 25.11.2009 valid for 7 years. Extention obtained upto 25.11.2021								
Critical issues	Boiler mills pending erection is being expedited to match with the full load activities. BHEL is being insisted for augmentation of resources to make good the delays.							
Reasons for Delay	• Woprk stopped wef 23.03.2020 due to COVID Pandemic. • Delayed due to change in design of foundations(depth) of main plant area and finalisation of civil contractors. • Initial delay in supply of Boiler Material and inadequate resource mobilization and new technology(Boiler) being used first time in India. • Delay in placement of order for outlet channel & structure of CW system.							

MK 23.02.21

NO.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual (A) / As now Anticipated.			
			Syn. Comm	COD	Syn. Comm	COD		
2	Ghatampur TPP JV of NLC & UPRVUNL (Lahurimau village, Ghatampur, Kanpur), U.P.	1980					Unit -1: Boiler #1: Boiler civil work start on 17.03.17 and erection start 27.02.18. Hydro Test (Non Drainable) start on 06.01.2020, 34752/43819 MT boiler erection completed. Structure erection 1183/1844 MT completed. Pressure parts welding completed. TG: civil work start on 05.05.2017 and Condensor erection started on 08.10.2018. TG Box up is done on 21.11.2019. 37529/48565 cum RCC completed for TG including common works. Structure Erection 8732/8735 MT completed. TG oil flushing completed on 06.11.20. ESP-1: Structural erection in progress. 7294/7892 MT erection completed. Collecting electrode & outlet funnel erection in progress. Unit-2: Boiler #2: Boiler civil work start on 21.08.17 and erection start 30.06.18. Boiler erection is in progress 24725/42675 MT erected. 51315/54835 nos Pressure Parts joints welding works completed. TG: civil work start on 19.12.2017 and Condensor erection started on 04.01.20. Tg erection started on 20.02.20. 16499/20138 cum RCC completed. Structure Erection 5653/6039 MT completed for MPH. ESP-2: Structure erection works in progress. 5470/7892 MT erected. Unit-3: Boiler#3: Boiler civil work start on 08.12.17 and erection start 04.12.18. Boiler 20776/42675 MT erection completed. 14774/54835 pressure parts joints welding work completed. TG: civil work start on 20.02.2018. 13771/22551 cum RCC completed. Structure Erection 4073/7195 MT completed. ESP-3: Structure erection works started. 1317/7892 MT erected. BOPs Chimney: 269/269 mtr height completed. 566/1900 MT structure erection completed. CHP : Wagon Tippler, Track Hopper, Crusher House, SCR 1A, 1B, Stacker reclaimers, JT 1 to 12 & Emergency Reclaimer structure erection works are in progress. AHP : Ash Silo and Ash dyke civil works are in progress. COOLING TOWER: NDCT#1 31620/38301 cum RCC completed. NDCT#2: 17722/38301 cum RCC completed. NDCT #3: 15500/38301 cum RCC completed CW System: Structural erection 447/813 MT completed & RCC 21292/24218 cum completed. DM Plant: 3931/3934 cum RCC completed, Switchyard: 132 KV GIS • 132 KV GIS Building – Finishing works are in progress. • 132 KV Switchyard – Fencing & Gravel filling work is under progress. • 400KV GIS Building- 16m level tie beam work completed. Control Room & GIS Hall brickwork under progress. • Structural steel roof truss Assembly work in progress. • 765 KV GIS Building- Second tie beam work & column works are in progress. FGD: Bid opened on 25.09.2020. 2 bids (L&T and BHEL) received. 1st stage under evaluation. Expected Date of LoA issue: Feb/Mar 2021.	
	U-1	660	03/20 04/20	11/20	08/21 09/21	11/21		
	U-2	660	09/20 10/20	05/21	12/21 02/22	03/22		
	U-3	660	03/21 04/21	11/21	03/22 06/22	07/22		
	Original/Latest Est. Cost		: Rs.17237.80 Cr					
	Exp. During 2012-13		:Rs. 138.38 Cr					
	2013-14		:Rs. 5.80 Cr					
	2014-15		:Rs. 39.78 Cr					
	2015-16		:Rs. (-)5.28 Cr					
	2016-17		:Rs. 735.80 Cr					
	2017-18		:Rs. 909.50 Cr					
	2018-19		:Rs. 3519.04 Cr					
	2019-20		:Rs. 3525.20 Cr					
	2020-21		:Rs. 1936.49 Cr					
	Cumulative Exp		:Rs. 11135.69 Cr (up to 02/21)					
	Type of fuel		: Coal					
	Date of Financial Closure		: Declared on 31.12.2017					
	Date of clearance by the board of NUPPL		: 15.10.2016					
	Date of Main Plant Order/BoPs		: Order for Gen. Auxiliaries (1) placed on MHPS Boilers Pvt. Ltd. on 02.08.16 Order for Gen. Auxiliaries (2) placed on M/s. Alstom Bharat Forge Power Ltd. on 02.08.16					
	Zero date		: 02.08.2016					
	PPA : : Signed with UP Gov. on 31.12..2010							
MoEF : Clearance to NUPPL on 17.06.2015								
SPCB: NOC (consent to establish) on 17th November 2017.								
Civil Aviation Clearance : Received on 13.12.2013								
Land :Land of 828 Hectares has been acquired, balance for railway siding yet to be acquired.								
Water : 80 cusec from downstream of Bidhnu canal								
Fuel Linkage :: Pachwara South Coal block in the state of Jharkhand has been allocated to cater the coal requirement of 8 MT per annum. Letter of award (LOA) dt.22.10.2018 was issued to M/s. MIPL GCL Infracontract Pvt. Ltd., Ahmedabad. for the work of Mine Developer and Operator (MDO) .								
Power Evacuation : CEA in its 36 th Standing Committee meeting held on 13.07.2015 at New Delhi, has agreed for power evacuation system of Ghatampur Thermal Power Station proposed by UPPTCL								
Critical issues		Registration for Balanlce land (41.01 hectares) for railway siding is pending.						
Reasons for Delay		• Work stopped wef 23.03.2020 due to COVID Pandemic.						

MK 23.03.21

BROAD STATUS OF CENTRAL SECTOR THERMAL POWER PROJECTS

(THDC India Limited)

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A) / As now Expected			
			Syn. com.	COD	Syn. com	Trial-run COD		
	Central Sector							
1.	Khurja STPP Khurja (UP) (THDCIL)	1320					Boiler : Package awarded to M/s L&T-MHPS Boilers Pvt Ltd on 29.08.2019 for Rs. 4087 Cr. • Work of Site leveling and area grading, Raw Water Reservoir, Assembly of Anchor Bolts & Frames, Priority & Patrol Roads, Drains, High Mast for illumination, Watch Towers, Gate Complex, diversion of Aligarh Drain etc. is in progress. • Job Pile work, Casting of Pile Cap Raft & Pedestals is in progress. Coal Bunker fabrication works is also in progress. • Erection of Main Boiler Unit#1 started on 20.02.21 and erection of around 800 MT structure is planned to complete by end of Mar-21. TG : Package awarded to M/s BHEL on 03.10.19 for Rs. 1,575 Cr. • Material Handling Works, Main Plant Civil Work and Main Plant Structural Works have been awarded by BHEL. Casting of all Job Piles TG area has been completed. • Foundation Works of Main Power House, Casting of Pile Cap Raft & Pedestals in TG Unit area and CCR building is in progress. • Concreting of TG condenser raft is likely to start by 1st Week of April-21. • Engineering and supply of steel for fabrication is under progressSwitch Yard - Geo-Technical Investigation works have been completed. BoPs: Chimney: Detailed engineering for the same in under progress. CHP: Earlier tender has been annulled due to high price quoted by the bidders. NIT for retendering has been issued on 23.10.2020 and Last date of bid submission is 10.03.2021. Award is expected by 30.04.2021. AHP: Detailed engineering for the same in under progress CT: Geo-Technical Investigation is in progress. Foundation works for main structures are likely to start from 3 rd week of March-21. Switchyard: Site enabling works has been completed. Foundation works of Control Room Building and Towers is in progress. FGD: Installation of FGD executed by BHEL. Detailed engineering for the same in under progress.	
	U-1	660	04/23 06/23	08/23	10/23 12/23	02/24		
	U-2	660		09/23				
	Original/Latest Cost	Rs 11089.42 Crore						
	Exp.During 2019-20 2020-21	Rs 938.40 Crores Rs 493.77 Crores						
	Cumulative Expenditure	Rs. 1432.12 Crores (up to 02/21)						
	Type of fuel	Coal						
	Zero Date	31.03.2018						
	Date of Main Plant Order (BTG)	EPC package to M/s BHEL. LOA date: 31.03.18.						
	MOEF &CC : EC has been accorded to Khurja STPP by MOEF&CC on 30.03.2017. Clearance for Chimney : Revised Clearance for construction of 275 m high chimney for Khurja STPP obtained from Airport Authority of India on 19.04.2018 for a period of 05 years i.e.up to Jul-23. Makeup Water : 43 Cusec from Upper Ganga Canal at just 11 Km from Project. (Water Resource Department, GoUP on 12.06.2014) Coal : For Coal linkage, Ministry of Coal, GoI vide allotment order dtd.17.01.2017 has allotted Amelia Coal Mine in District Singraulli, Madhya Pradesh. PPA :Signed on 05.01.2011 with Uttar Pradesh, Uttarakhand, Rajasthan, Himachal Pradesh and Delhi.							
Critical Areas								
Reasons for Delay		• Work stopped wef 23.03.2020 due to COVID Pandemic.						

MK 23.03.21

BROAD STATUS OF CENTRAL SECTOR THERMAL POWER PROJECTS

(SJVN Limited)

Sl. No.		Capacity	Commissioning Schedule	
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	PROJECT DETAILS	(MW)	Original		Actual(A) / As now Expected		Broad Status	
			Syn. com.	COD	Syn. com	Trial-run COD		
	Central Sector							
1.	Buxar TPP Village Chausa, Distt Buxar, Bihar (SJVNL)	1320					Boiler: Pile Cap (RCC): Pile cap (raft foundation work) ,Structure Erection started on 21.10.2020. Pilling of Boiler 2 is in progress. Pilling, raft foundation and structure erection for ESP-I and pilling work for ESP-II in progress. Pilling for coal mills I& II completed. Deck foundation of Mill-I in progress. TG: civil work started in 03/20. Main Plant works (Single EPC) awarded to M/s L&T on 22.06.2019. BoP: Chimney: Piling work for foundation completed. Concreting and Reinforcement work for pile cap raft foundation i/p. CHP: Track Hopper: Reinforcement work under progress. Wagon Tippler: Foundation reinforcement work in progress AHP: Piling for Bottom Ash Hopper-I foundation completed . Raft foundation work in progress DM Plant: Piling work for DM Water Building and Foundation work for DM Water tanks completed . Column concreting in progress PT Plant: RCC work for Clarified Water Tank, Clarifier and Sludge Thickener in orogress. CW system: Excavation and RCC work in CW forebay in progress. CT: foundation of IDCT-1 and its control building in progress. Switchyard: Civil foundation work i/p. for 400kV and 220kV GIS switchyard and control room. FGD: Installation of FGD executed by BHEL	
	U-1	660		07/23		07/23		
	U-2	660		01/24		01/24		
	Original/Latest Cost	Rs 1043900 lakhs						
	Exp.During 2019-20							
	CumulativeExpenditure	Rs. 1479.16 Crores (up to 02/21)						
	Type of fuel	Coal						
	Zero Date	22.06.2019						
	Date of Main Plant Order (BTG)	Main Plant works (Single EPC) awarded to M/s L&T on 22.06.2019.						
	Power Evacuation	Meeting held with Principal Secretary, Energy Deptt., GoB on 10.02.20 and with BSPGCL on 19.02.20 to resolve the issues of Power Evacuation system.Matter being follow up with CEA/MoP.						
	MOE&F clearance: MOEF &CC Clearanace on 28.02.17. - NOC issued on 12.04.17from airport authority. - CCEA accorded investment approval for the project on 08.03.19. Foundation stone laid by Hon'ble Prime Minister of India on 09.03.19. - Power Purchase Agreement (PPA) has been signed with Bihar State Power Holding Company Limited (BSPHCL) for 85% share of power generation on bus bar rate. - Consent to establish : NOC granted by Bihar State Pollution Control Board on 03.09.2019. - Coal : Long-term coal linkage tied up through Central Coalfields Ltd. (CCL) vide Letter of Assurance (LoA) dated 10.12.2018							
	Critical Areas	Land Acquisition:The project is scheduled to commis ion in FY 2023-24 .Acquisition of land for Rail infrastructure corridor and Water pipe line corridor, Intake, Main Gate & Extra land for the project is critical for timel commissioning of the project. Matter needs to be taken up with Govt. of Bihar for early acquisition Law and Order : Construction activities of project have been commenced but construction work is being disrupted by locals frequently. Cooperation from Administration is required for uninterrupted construction activities of the project.						
Reasons for Delay								

MK 23.02.21

STATE & PRIVATE SECTOR

Thermal Power Plants

NORTHERN REGION

Thermal Power Plants

BROAD STATUS OF THERMAL POWER PROJECTS IN RAJASTHAN

Sl.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual (A) / As now Expected		
			Syn. Comm	Trial Run COD	Syn. Comm	Trial Run COD	
State Sector							
1.	Suratgarh Super Critical TPP, RRVUNL, Suratgarh (Distt Sri Ganga Nagar), Rajasthan	1320					Unit-7: COD (Commercial operation declaration) declared at 00:00 hrs of 01.12.2020. Unit completed 72 hr. full load trial on 15.03.2020. Synchronisation done on 18.12.2018. Boiler: Erection started on 26/03/14. Hydro test completed on 31/12/15. BLU completed on 24/02/17. Steam Blowing completed on 25/08/18. Unit synchronized on 18.12.18 at 1140 hrs with 205MW max load. full load achieved at 16:08 hrs on 30.03.19. Trial run completed on 15.03.2020. TG: TG civil work started on 07/12/13. Condenser erection started on 29/04/15. TG erection started on 16/11/15. TG box up done on 21/01/17. TG put on barring gear on 10/11/17. ESP: Erection completed. Insulation and cladding work also completed Unit-8 Boiler: Erection started on 25/06/14 HT completed on 15/03/16. Boiler light up completed on 28/09/17. Boiler Hyd. Test (Non-Drainable) performed on 27/07/18. Steam Blowing completed on 07.06.2019. TG: TG erection started on 05/11/15 and Condenser Erection started on 28/06/15. Turbine boxed up on 09.11.17. Turbine oil Flushing completed on 18/08/2018. After completion of modification work of LP Turbine blades, LP turbine boxed-up on 25.01.2020. Commissioning work is in progress. Exciter-Generator rotor alignment is completed. Erection of hydrogen cooler is completed. ESP: Erection completed. Insulation work also completed. Main Plant : Civil & structural work almost completed for commissioning purpose. BoP's: Chimney: Both the chimney are ready. Electrical work completed. CHP: Commissioning of Unit#8 Stacker cum reclaimar has been completed and checking of some logics is pending. Technological structure erection work of L - route conveyors is under progress. AHP: - Bottom Ash Hopper & ESP erection work completed and commissioning work under progress. NDCT: U-7: Commissioned. U#8: Peripheral walls and Internal Coloumns completed. Fills erection completed. CW System: Erection and commission works of CW Pump & ACWP completed. DM Plant: Commissioning through PLC completed. PG test under progress. PT Plant: Commissioning through PLC completed. PG test completed. Switchyard: Back charging done from existing plant 400 KV switchyard on 21/1/2017. Progress of SSCTPS-BABAI Line-Erection-676/676, stringing- 234/245 km 400 KV, DC, SSCTPS-BIKANER transmission line is ready. SSCTPS- BIKANER transmission line synchronized on 30.09.2018. FGD Plant: - NIT floated on 13.05.2019.
		U-7 (660)	06/16 07/16	09/16	18.12.18(A) 30.03.19(A)	15.03.2020(A) 01.12.2020(A)	
		U-8 (660)	09/16 10/16	12/16			
	Original/Latest cost		Rs. 7920/8966.47crs. (without FGD)				
	Exp. during 2012-13		Rs. 17.36 crs.				
	Exp. during 2013-14		Rs. 550.29 crs.				
	Exp. during 2014-15		Rs. 1918.74 crs.				
	Exp. during 2015-16		Rs. 2527.88 crs.				
	Exp. during 2016-17		Rs 1653.53 crs.				
	Exp. during 2017-18		Rs 392.6422 crs.				
	Exp. during 2018-19		Rs 554.2054 crs.				
	Exp. during 2019-20		Rs 1055.6855 crs.				
	Exp. during 2020-21		Rs 644.1896 crs. (upto 02/21)				
	Total Expenditure		Rs 10555.2515crs. (up to 02/21)				
	Type of fuel		Coal				
	Zero date		28/03/13				
	Main Plant Order		Order placed on 23/05/13 on M/s BHEL on EPC basis. Blr-ALSTOM, TG-SIEMENS				
	Fuel linkage		Approval accorded by MOC on 03/02/12 from Parsa East & Kanta Basan coal bocks of RVUNL				
	Power purchase agreement:		PPA made between RVUN and Jaipur, Ajmer, Jodhpur Vidyut Vitran Nigam Ltd. on 18/05/10.				
	Power evacuation system:		Through 4 x 400 kV transmission line of RVPN.				
	Land		Possession of 672.873 ha of land for water system, construction of main power plant, residential colony on approach road taken.				
Water		60 cusec of water from Indira Gandhi Canal is allocated on 02/09/09.					
MOEF		Clearance obtained vide letter No. J-13012/14/2009 – IA. II (T) on 23/05/12					
Civil Aviation		NOC obtained from AAI on 26/4/10					
Critical Areas		AHP, Marshalling Yard Extension, Regular CHP.					
Reasons for delay		- Work stopped during March/April,2020 due to COVID Pandemic. - BHEL manpower; delay in supply and non-sequential supply by BHEL. Non-readiness of regular AHP & CHP by BHEL.					

RKM - 03.03.2021

BROAD STATUS OF THERMAL POWER PROJECTS IN UTTAR PRADESH

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status		
			Original		Actual (A) / As now Anticipated.				
			Svn. Comm	COD	Svn. Comm	Trial-run COD			
1	Harduaganj Expn. -II UPRVUNL Distt.: Aligarh, U.P						Boiler: Boiler Light Up completed, Mill Bay, APH structure erection completed, Insulation & Cladding work is in progress, Boiler & Auxiliaries major erection completed. APH-B & SCR- B erection is under progress.ID Fan-A, PA Fan-A erection work completed. Air Duct & Gas Duct, Expansion Joints & Dampers erection completed. TG & Aux: LP condenser flash box work & neck joint welding in progress. HP condenser neck joint welding completed & Gland steam work in progress HP, IP Turbine trial box-up in progress, CRV & MSV erection completed.3. TG Building: Ground & Mezzanine & Operating floor all equipment foundations completed. HP Turbine, IP Turbine, LP-A & B final box-up completed. ESP: All Passes ATT completed. Pass-A,B,C ALT completed. Balance erection work under progress. BOP areas : Civil works under progress. Chimney: Shell construction , Corbel work, AR Brick lining work completed. External Platform & Hopper work completed. Chimney outside painting completed. CEMS & Electrical cable tray work in progress.. Raw Water system: Raw water Reservoir-A & B completed, RW Intake Pump House and RWPH major Civil works completed. PT Plant: Mechanical, Electrical and C&I erection completed. PT Plant both streams in operation. Chemical House, Chlorination building, CWST & PH finishing works is in progress.ETP/ERS mechanical erection in progress. CHP: Major equipment & syructure material received at site. Track Hopper civil works in progress. Crusher House & ERH major erection completed. Commissioning activities under progress. AHP: Ash Slurry Piping Fabrication & Laying work in progress. Ash water pumps erected, Fly Ash piping works in progress at ESP. Bottom Ash Hopper major erection completed. Ash Slurry Piping inside & outside plant to Ash dyke erection in progress. IDCT: All 24 cells mechanical, electrical work completed. Fan Load trial & Group trial completed. DM plant: Regeneration equipment& piping erection completed. DMWST-A & B water fill test completed, Now in operation. Stream-A & B commissioning completed. In Operation. Switchyard: Erection of Switchyard Structure, EHV Equipment's completed. 220 KV & 400 KV Switchyard charging completed. Transmission Tower-1 & 2 erection completed. Switchyard in charged condition and start up power available for commissioning works. FGD Plant: FGD awarded to M/S Doosan. Major civil works completed. Mechanical erection is in progress. Lime stone & Gypsum processing building civil works in progress Absorber Tower Make up water tank& steel structure erection in progress.		
	Unit-1	660	09/19 11/19	01/20	03/21 04/21	05/21 06/21			
	Original//Latest Cost	: Rs. 4826.49 Cr. / Rs. 5500.98 Cr due to inclusion of FGD & SCR / Rs. 6011.83 Cr which is approved by ATS and submitted to cabinet.							
	Exp. During 2015-16 Exp. During 2016-17 Exp. During 2017-18 Exp. During 2018-19 Exp. During 2019-20 Exp. During 2020-21	: Rs. 305.81 Crores : Rs 115.13 Crores : Rs 458.10 Crores : Rs 1223.83 Crores : Rs 1339.22 Crores : Rs. 749.35 Crores (upto 02/21)							
	Cumulative Exp.	: Rs 4191.44 Crores (upto 02/2021)							
	Date of Financial Closure	: Achieved on 14.03.2012 (80% PFC Loan & 20% government equity)							
	Type of fuel	: Coal							
	Date of Main Plant Order/BoPs	: M/s Toshiba JSW Systems Private Limited as a single EPC basis on 08.09.2015 Boiler: Doosan, India ; TG & Generator: Toshiba JSW Power Systems							
	Zero date	: 08.09.2015							
	NTP (Notice to proceed) date	: 08.09.2015							
	PPA	: Signed on 16.01.13							
	Fuel Linkage	: From Saharpur-Jamarpani, Jharkhand coal Block allocated on 25.03.15.							
	Power Evacuation System	400kV Switchyard, work under progress by UPPTCL.							
	MOE&F clearance	MoE&F clearance granted on 12.05.2015.							
	Land	Not required being an Expansion Project.							
	Civil Aviation Clearance	Civil Aviation Clearance granted on 12.07.12 from Airports Authority of India.							
	Water	Water Allotted on 03.12.11 from Upper Ganga Cana.I							
	SPCBClearance:	Consent to Establish (CTE) accorded by UPPCB vide ref no. 33082/UPPCB/Aligarh (UPPCBRO)/ CTE /ALIGARH /2019 dtd. 06.06.2019.							
	Critical Areas/ Assistance Required								
	Reasons for Delay		- Work stopped wef 23.03.2020 to 30.04.2020 due to COVID Pandemic. - Late receipt of the MOEF&CC revised order by UPRVUNL with inclusion of FGD & SCR System in the project i.e. in December 2016.						

RKM-18.03.2021

PROJECT DETAILS	Commissioning Schedule
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Sl. No.		Capacity (MW)	Original		Actual (A) / As now Anticipated.		Broad Status	
			Syn. Comm	COD	Syn. Comm	Trial-run COD		
2	Obra-C 2X660 MW TPP, UPRVUNL (Obra, Dist. Sonebhadra), U.P.	1320					Unit-1: Boiler: Erection Work of Furnace Front, Upper Vertical LHS Wall Panel for boiler in progress. RCC work in ER-01,ER-02,ER-04, Drive house-1 & 2, Pent house-3 in progress TG: Erection of Bottom LP casing (1 & 2) Turbine, Condenser#1 LP neck dragging ESP: Preassembly work of casing Panel with columns, Beams & Bracing of ESP#1 is in progress. Unit-2: Boiler: Steel Structure tier #1-#5,TBN Building #1 & CCB Building in progress RCC Work for ID Fan Unit #2 & Duct Support in progress TG: Erection Work of Main Steel Structure for TBN Building #1 & CCB Building. ESP: Pass B,C & D casing frame & panel erection and collecting beam & structure beam erection , Pass E support structure erection in progress BOP : • Chimney: RCC Work for chimney shell in progress • Raw Water system: RCC work for RWPH forbay electrical room under progress • CHP: Excavation, PCC & RCC Work for Stack/Re-claimer, Track Hopper, Wagon tripler & Emergency reclaiming hopper complex, RCC Work for JT#5 & JT#4 Column. CHP fabrication works for conveyor 10A/B, 8A/B,7A/B,5A/B & stringers in progress. • AHP: RCC work for Ash slurry pump house i/p • CWPH: • PCC & RCC work of CW treatment shelter, CW Chlorination in progress • PT Plant: RCC for HRSCC Tank-A, Cascade Ariator, Excavation of CW Chlorination Building in progress • Switchyard: RCC Work for 400kV GIS ground slab & brick work for wall & 765kV AIS Building column, Switchyard Fdn. & Pedestal in progress. • FGD:PCC & RCC Work for FGD MCC building in progress. PO placed for FGD Duct Bearing, GGH, insulation accessories	
	U-1	660	08/20 09/20	12/20	09/22 10/22	01/23		
	U-2	660	12/20 12/20	04/21	01/23 01/23	05/23		
	Original/Latest Cost	: Rs.10416 Crore (Including IDC)						
	Expenditure							
	2016-17	423.77 Crores						
	2017-18	277.83 Crores						
	2018-19	855.89 Crores						
	2019-20	2175.96 Crores						
	2020-21	1264.12 Crores (upto 02/21)						
	Cumulative Expenditure (up to 02/21)	: Rs. 5004.83 Crores						
	Date of Financial Closure	: 13.11.2013 70% debt loaned from REC and 30% equity to be borne by State Govt.						
	Type of fuel	: Coal						
	Fuel Linkage	: From Saharpur Jamrpani, Jharkhand Coal Block allocated to UPRVUNL with the project specified in the end use plants for the Block/ MoU with MMTC for imported Coal						
	Date of Main Plant Order/BoPs	: Order for main Plant Equipment (BTG) awarded to M/s. Doosan Power Systems India Pvt. Ltd. On 22.12.2016 SG package by M/s DPSI& STG package by M/s GE Ltd.						
	Zero date	: 22.12.2016						
	Land	: Not required being an expansion Project						
	PPA	: Signed with UPPCL on 16.01.2013						
	Power Evacuation System	By UPPTCL at 765KV						
	Water allocation	Allocation of 54 cusec water by Govt. of UP from Rihand Reservoir						
	MOE&F clearance	21.06.2016						
	Civil Aviation clearance	22.07.2009 and revalidated on 12.07.2016						
	Critical Areas/Assistance Required		Delay in Unit #1 & 2 COF will be approx 25 months as compared to the baseline schedule. The efforts are being made to arrest the delay.					
Reason of Delay		• Work delayed due to COVID Pandemic.						

RKM : 18.03.2021

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule		Broad Status
			Original	Actual (A) / As now Anticipated.	

			Syn. Comm	COD	Syn. Comm	Trial-run COD	
3	Jawaharpur STPP (2X660 MW) JVUNL (100% subsidiary of UPRVUNL) Village: Malawan, Dist. Etah), U.P	1320					Unit-1: Boiler: Column encasement rebar work, Roof sheet & Steel Structure erection work for Boiler and Final lift concrete & deshuttering work for PA & FD fanare in progress. Pre-Assembly and Erection of Critical Piping for Feed water, Main steam system, BRPsuction & discharge and Hot reheat system in progress TG: RCC column and Condenser Wall for TG pedestal in progress. TG top slab staging, shuttering and embedded item R/F fixing work for Grid (04-08) in progress. Condenser pre- Assembly for HP & LP condenser in progress ESP: Erection of ESP structure- A& B Pass& Hopper Bin Fabrication welding and Steel structure and Casing frame erection and alignment work in progress Unit-2: Boiler: Erection of Boiler steel structure Tier 1, Tier 2 and Tier 3 TG: Steel structure fabrication (Main Column & truss member)and Erection work for TGBuilding ESP: Pedestal and backfillingwork in progress, PCC and rebar work of Zone-3 & Zone-4 of ESP BOP • Chimney:RCC Shell work for chimney completed. • Raw Water system: Foundation (RCC) work for Raw water reservoir-A, HDPE lining & motor and sand bedding in progressExcavation work for raw water Reservoir-B in progress • DM Plant: Column work for DM Plant building and backfilling work for electrical Building in progress • CHP:Excavation work for JT-1 + Tunnel. Foundation work for Stacker & Re-claimer and coal stock drain. Foundation re-bar, shuttering and column work for Pipe rack –09and cable rack(03,04,5 & 24)Steel Structure erection for JT-05,JT-06,(JT-08 ~ JT-10).Conveyor 3A/3B and 5A/5B structure fabrication and erection work in progress • AHP: Embankment, rock toe and sand chimney, Bottom Excavation work for ash dyke-A, Embankment, Rock toe & Crushed rock work for ash dyke-B in progress • NDCT:- Foundation for Basin Floor (1st and 2nd layer) and pedestal work for NDCT –B in progress PCC & RCC Basin slab (2nd layer),Grillage Footing, Internal Column, Re-cast Beams,Hot Water Duct, Jump Form erection and Pre-Cast for NDCT-A in progress • CWPH: CW pump station & CW Forebay intake wall shuttering & re-bar work and volute 2ndstage re-bar and form work alignment in progress. • PT Plant: Grade slab PCC work for PT plant shelter in progress • Switchyard:Finishing work (Celling and Epoxy painting for Floor) for 220KV GIS Building.220 KV Hall HVAC duct support erection, Super structure work for 400kV GIS building, 765kV GIS building Brick work, Plastering and cable trench 765 KV GIS HVAC Duct assembly and erection work Foundation & pedestal (Raft & Column), Back filling & Trench work for 220 kV, 400 kV & 765kV in progress FGD: Order with EPC to M/s Doosan Power Systems India Pvt. Ltd. on 22.12.2016.
		U-1 (660)	08/20 09/20	12/20	08/22 09/22	12/22	
		U-2 (660)	12/20 01/21	04/21	02/23 03/23	06/23	
	Original/Latest Cost	: Rs.10566.27 cr					
	Expenditure Details						
	2017-18	Rs 805 cr					
	2018-19	Rs 991 cr					
	2019-20	Rs 2286 cr					
	2020-21	Rs 935 cr					
	Cumulative Expenditure	Rs. 5744 cr (upto 02/2021)					
	Type of fuel	Coal					
	Date of Financial Closure	80% debt loan from M/s PFC/REC and 20% state equity. Out of 80% loan 50% from PFC & 50% from REC agreement signed					
	Date of Main Plant Order/BoPs	Order for main Plant Equipment (BTG) awarded to M/s. Doosan Power Systems India Pvt. Ltd. On 22.12.2016					
	Zero date	22.12.2016					
	Coal Linkage/FSA	Coal allocated from Saharpur Jamarpani Coal Block, Jharkhand (25.03.2015)					
	PPA	Signed on 31. 12.2016 with UPPCL					
	Power Evacuation System	765 KV, 400 KV, 220 KV					
	Land	The land required is 865 acres for the proposed plant at Malawan is in possession of JVUNL					
	MOE&F clearance	Received on date 26.10.2016					
	Water	09.11.2009, 53 Cusec from U.P. irrigation					
	Civil Aviation clearance	12.06.2015 for Chimney					
	Critical Areas/Assistance required	Delay in Unit 1 & 2 COF will be approx. 23 & 25 months respectively as compared to the baseline schedule of 21st Dec. 2020. The efforts are being made to catch up the baseline schedule with below catch-up activities: - Acceleration effort for various work activities like (a) day & night shift work for piling and steel structure fabrication (TG & CCB) (b) working on Sundays and holidays (c) Emphasis on maximizing pressure part pre-assembly at ground level (d) Subcontract with additional vendors for Boiler steel structure supply (e) Acceleration work for TBN pedestalincluding Top deck.					
	Reason of Dealy	• Work stopped wef 23.03.2020 due to COVID Pandemic.					

RKM -18.03.2021

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A) / As now Expected			
			Syn. com.	COD	Syn. com	Trial-run COD		
	State Sector							
4	Panki TPS Ext, Distt. Kanpur, U.P. (UPRVUNL)	Unit-1 660	05/21 06/21	09/21	05/22 06/22	09/22	Piling & pedestal works- - 8882 out of 8894 (RFC) piling completed. - 1/ 4 no rigs are under operation. - Boiler pile cap-43/ 50 no & pedestal 93/ 95 no completed. - ESP pile cap-130/ 130 no & pedestal 180/ 180 no completed. - PHB pile cap-72/ 77 no & pedestal 88/ 94 no completed. - MDBFP, ID Fan-A & B, FD Fan-A, PA fan-A&B final lift foundation casted. Boiler: Boiler erection started on 21.04.19. Total-18731 MT erected. 11823/ 28000 Nos HP joints completed. Ceiling girder erection completed. TG: TG raft: Casting completed TG column casting started on 20.02.20. 68/68 lift column completed. TDBFP: 261/ 275 m³ RCC completed. ESP: 6799/ 11886 MT erected. BOPs: Chimney: Chimney shell casting, EL +270 m completed. 423/545 MT flue can fabrication completed. CHP: ERH: Excavation 92358/125000 m3 completed, Wagon tippler: Excavation started and 44897/5000 m3 RCC completed, JT-1 & tunnel: Excavation 82555/110000 m3 completed. AHP: Bottom ash Hopper - RCC completed. Ash slurry Pump house - 764/2370 cum RCC completed. Ash water Pump House - 101/140cum RCC completed. CWPH: 283/ 350 m3 RCC completed. Clarified water tank: 2012/ 3915 m3 RCC completed. Raw Water System: Compartment 1: 20297/20319 m³ RCC completed. Compartment 2: 13753/ 20319 m3 RCC completed. RWPH: 1547/ 2400 m3 RCC completed. NDCTs: Raft casting completed. Racker Column: 84/ 96 Nos casted. Basin slab: 422/ 514 nos basin pile cap and 3500/ 6787 m³ RCC completed. PT Plant: 1847/ 2200 m³ excavation & 68/ 850 m³ RCC of HRSCC-1 completed. 900/ 2200 m³ excavation & 67/ 850 m³ RCC of HRSCC2 completed. FGD: GGH order placed on M/s Howden on 21.02.20 • Wet ball mill order placed on M/s Zhejiang Tuna on 18.05.20 • Slurry Recirculation pump order placed on M/s XIANGYANG WUERWU on 23.06.20. • Agitator order placed on M/s United Burgmann Power on 22.07.20.	
	Original/Latest Cost	Rs 3715 cr +GST						
	Exp.During 2018-19	Rs 543.29 cr						
	2019-20	Rs 837.26 cr						
	2020-21	Rs 945.34 cr (upto 02/21)						
	Cumulative Exp (upto 28.02.2021)	Rs 2325.89 Crores						
	Type of fuel	Coal						
	Zero Date	31.03.2018						
	Date of Main Plant Order (BTG)	EPC package to M/s BHEL. LOA date: 31.03.18.						
	Fuel Linkage :	Saharpur-Jamarpani coal mine allotted to UPRVUNL for the project.Bridge linkage is also available.						
Water Supply:	16 cusec of treated water from secondary treatment plant of U.P. Jal Nigam’s Sewage Treatment Plant at Bingawan (Kanpur)shall be utilised for the project as clarified water after again treating in tertiary treatment plant. In addition, water sully from Lower Ganga Canal is also available.							
MoE&F clearance:	Obtained NOC from MoEF&CC on 29.06.2017.							
Critical Areas								
Reasons for Delay		Due to the challenging environment and various restrictions imposed by ongoing pandemic COVID-19, all activities related to ordering, procurement, manufacturing & construction for Panki Project are getting affected. Due to lockdown invoked by Government of India/UP, all activities for the projects were suspended from 22.03.20 to 04.05.20 (except civil work of WT, which resumed on 16.04.20 with reduced manpower). Presently work with limited/available manpower is under progress.						

RKM-23.03.2021

WESTERN REGION

Thermal Power Plants

BROAD STATUS OF THERMAL POWER PROJECTS IN MAHARASHTRA

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Sync Comm	COD	Synch Comm	Trial-run COD	
State Sector								
1.	Bhusawal Thermal Power Project, Distt. Jalgaon, Maharashtra (1x660 MW)	6	660	03/22	06/22	03/22	06/22	Boiler: Boiler civil work started on 15.05.2019 and erection started on 22.11.2019. Total Boiler structure 6899 / 8000 MT erected. Deck casting completed for FD, PA, ID fan.All ceiling girder erection completed TG: TG Civil work started on 22.07.2019. TG deck casting completed on 11.01.2021. Excavation completed. Erection 5974/ 8000 MT completed. ESP: Erection started on 06.01.2020, Foundation of all 6 passes completed on 08.02.2020. Total erection weight 3833/10500 MT completed. BoPs: AHP: Ash slurry PH excavation 1250/2000 cum completed. PCC 68/150 cum completed, RCC 213/226 cum completed. Chimney: Raft casting work completed. Chimney shell height 143 /272.2 mtr completed. CHP: Wagon Tippler excavation 111280/112000 cum completed, PCC 466/500 cum and RCC 1283/8000 cum completed. NDCT: Excavation completed, PCC 1809/2000 cum completed, RCC 3978/25000 cum completed. RWR: Excavation completed. PCC 1224/1240 cum completed. RCC 5954/8690 cum completed. CWPH: Excavation 18020/18500 cum completed, PCC 82/100 cum & RCC completed. DM Plant: Building Excavation in progress, PCC and RCC in progress. FGD: Letter issued to BHEL on 20.11.2018(FGD &SCR) for Technical clearance to proceed further.
Original / Latest Cost		:Rs4550.98 Crores						
Expenditure during 2018-19		:Rs 34.23 Cr						
2019-20		:Rs. 548.76 Cr						
2020-21		:Rs. 821.91 Cr						
Total Expenditure (Upto 01/2021)		:Rs 1404.90 Crores						
Zero date:		: 31/12/2018 (Revised)						
Notice To Proceed (NTP)		:31/12/2018						
Financial closure		:						
Date of Main Plant Order		: LOA has been issued to M/s BHEL on single point responsibility EPC contract basis on 17.01.2018. Amendment to LOA issued to M/s BHEL dated 31/12/18 for additional work of FGD, SCR and other scope of work.						
BTG Make		M/s BHEL						
BOP on EPC basis								
		PPA :24.12.2010 as addendum to existing PPA. PPA approved by MERC vide order No 103 of 2010. MERC in a suo moto proceeding in respect of case No 42 of 2017 issued a final order on dated 27.03.2018 regarding upcoming Generation projects of MSPGCL. MERC issued directives, as ‘MSPGCL shall approach the commission afresh accordingly. In the mean time, it shall not take any effective steps in pursuance of Generation Projects approved in the PEA or the other Projects now proposed in these proceedings, which are at the planning stage or in respect of which contracts, which had not been awarded at the time of last MYT order. Any capital expenditure incurred on these Projects shall be at MSPGCL's own risk and cost. MERC has approved further go-ahead for the project vide order dated 01.08.2018 in case no. 154 of 2018 Fuel : MSPGCL vide letter dated 12.07.2017 & 18.04.2018 has requested Ministry of Coal, Govt of India to transfer the coal linkage of Mahagenco's retired /decommissioned units(i.e. Parli U-3, Koradi U-5, Bhusawal 112) constituting 3.18 MMTPA of coal quantity for this project. Reply from MoC is awaited. Power Evacuation system : Revised application for LTOA submitted with CE (STU), MSETCL & matter being followed up Water : already tied up with WRD AAI Clearance : AAI issued NOC having the validity till 23 Feb 2022 MoE&F : EC was granted till 26 Nov 2019. Application for extension of EC for three years i.e upto 26.11.2022 submitted Land : Land in own possession of MPGCL for the project. For railway siding. Till date out of 8.02 heatcares, 5.21 hectares in possession of MPGCL, balance not yet acquired.						
Critical issues								
Reasons for Delay		- Work stopped wef 23.03.2020 to 20.04.2020 due to COVID Pandemic. - Labour count as on 28.02.2021 was 1834 nos.						

RKM-.08.03.2021

Southern Region Thermal Power Plants

BROAD STATUS OF THERMAL POWER PROJECTS IN ANDHRA PRADESH

Sl. No.	Project Details	Unit No.	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Syn. Comm	COD	Syn. Comm	Trail run CODT	
State Sector								
1	Sri Damodaram Sanjeevaiah TPP St-II (Krishnapatnam) (APPDCL) Distt.Nellore, Andhra Pradesh	U-1	800	03/19 04/19	06/19	04/21 05/21	06/21	Boiler: Civil work started on 10.11.2016. erection started in 26.06.2017. Hydro Test (Drain-able) on 01.07.2019. Boiler erection 94.5% complete (37772 MT /39845 MT). Boiler light up on 31.12.2019. SBO anticipated on 18.03.2021. Critical piping works and critical piping welding joints 100% completed. TG : TG erection started on 20.09.2018. All Turbines boxed up and insulation works completed. Condenser erection works started in 01.8.2018. TG oil flushing on 07.09.2020. CW Rear interconnection piping between condenser is in progress. Generator and Exciter work in progress. Turbine on barring gear anticipated in March.21. ESP : ESP, ID / FD / PA fans and Duct supports Civil works completed. ESP Control building- RCC framework, brickwork & plastering completed. Transformer foundations 6/6nos completed, Fire wall in progress. FF floor finish and Windows fixing completed. Scream concrete works is completed. ESP erection 95% complete (11484 MT / 12072 MT). • BoPs. CHP: Structural Steel - Fabrication 5927/6000T completed, erection 5678/6000 T completed. Structural Steel received– 6150/6200 MT. AHP: Fabrication of Hydrobins, Bottom ash hopper, Buffer Hopper Tower under progress. Bottom Ash Hopper: Wall panels & structure erected. NDCT : 100% Racker columns completed. 99% Pond & partition wall completed (561/565RM) & 100% Basin floor completed. PU coating is in progress. Cooling tower fills assembly as block pattern : assembling 89000/90688 and erection 89000/90688 blocks. Chimney shell with internal brick lining, hopper slab, Cage ladder up to top including platform handrail, Baffle wall RCC framework completed. External painting works completed. All other BOP works are in progress. • FGD : Order not yet placed.
Original / Latest Estd. Cost		Rs. 6034 Crs./ 6841.70 Crs./ 7922.72 crs. (Administrative Approval dt 30.07.2020)						
Loan obtained from PFC		Rs. 5953.87 Crs.						
Total Expenditure (upto 02/2021)		Rs. 6866.30 Crs. including IDC (upto 31.01.2021)						
Approval date:		14.12.2017 for revised cost						
Zero date:		15.12.2015						
Financial closure		Completed						
Main Plant Order		BTG order placed on BHEL on 02.11.15.						
Type of fuel/ FSA		Coal. LOA issued by M/s MCL.						
Power Evacuation system		Already in place						
PPA		Available with 4 DISCOMS of undivided A.P.						
Land Possession: Available. Water allocation: Available. MOE&F clearance: Available State Pollution Control Board Clearance: Available Civil Aviation clearance: Available								
Critical issues								
Reasons for Delay		• Work stopped wef 22.03.2020 due to COVID pandemic. Work has been resumed slowly since 18.05.2020. • Slow progress of work by BHEL. • Delay in providing various building foundations. • APGENCO has given time extension up to June 2020 to BHEL due delays in project not attributable to BHEL.						

RKM-16.03.2021

Sl. No.	Project Details	Unit No.	Capacity (MW)	Commissioning Schedule				Broad Status		
				Original		Actual(A)/ As Expected				
				Syn. Comm	COD	Syn. Comm	Trail run COD			
State Sector										
2	Dr. Narla Tata Rao TPP Stage-V APGENCO Distt. Vijayawada, Andhra Pradesh	U-8	800	03/19 06/19	07/19		04/21	Boiler: Erection started on 22.05.2017. Drainable Hydraulic Test completed on 05.03.2019. 91% Boiler structure & 98% pressure parts erection completed. Boiler light up completed on 28.12.2019. TG: Deck casting completed. TG and condenser erection started. Condenser box up completed. 70% TG Package erection completed. Turbine kept under barring gear on 22.02.2021. 86% BTG works completed. ESP: Erection started on 15.03.2017. 99% erection works completed. Pass A & B - works completed. Pass C & D – Fields erection completed. Inlet duct works under progress. APH: Commissioing of APH-A is completed and balance welding works is carried out for APH-B. Mills: Left hand side mills erection completed. Right hand side mills erection under progress. BOPs: CHP: 85% Civil & 80% Mechanical erection completed in Wagon Tippler. 79% civil works completed in Track Hopper & 22% Track Hopper liner plates completed. 55% Civil & 36% Mechanical works completed in Stacker cum Reclaimer. 75% Crusher House Mechanical erection completed. AHP: 76% Ash water pump house with sumps works completed. 76% Ash slurry pump house with sumps works completed. Seal water sump walls final lift concrete completed. Vacuum pump house concreting of all roof beams is completed. Hydro-bins 1,2&3 columns 3rd lift above plinth beam completed. Silo 1: columns IInd lift completed, silo 2 columns 3rd lift completed. Silo utility building roof slab completed. Bottom Ash Hopper- Mechanical erection of hopper completed. ID Fan- Fan A : Alignment of coupled fan shaft with motor is under progress Fan B : lube oil flushing is under progress. Mills- Mill A and Mill –B Mounting of sale plates and grouting work Completed, Mill-B and Mill-C Mountnig of Sale plates (elevation and Master level) and grouting work under progress Cooling Towers: 80 % of NDCT works completed and NDCT is ready for synchronization activity. Other internal works like pipe support pedestals, Fills erection etc. are in progress. Chimney: Chimney works completed for boiler light up. AR brick lining completed cage ladder elevator and Lab in chimney are yet to be completed. 95 % of Chimney works completed. PT Plant/ DM Plant: Raw water, PTP & DM water Mechanical erection works completed. DM plant one stream (stream-A) Commissioned. Stream-B resin filling completed, DM water generation started on 12.09.2019. CW System: 530/563 mt CW pipeline RCC base raft completed ACW pipe line. 328/409 mt erection completed in CWP. Erection of-gates and Screens for CW pumps is under progress. 90% of CW and ACW pipe line erection completed. Switch Yard: 400 KV extension Switch yard charged on 28.02.2019 and Station Transformer charging completed.		
	Original / Latest Cost	Rs. 5515 Cr./6144 Cr. (NIP data) / 7586.67 Cr.								
	FY 2020-21	Rs 517.8 cr								
	Total Expenditure	Rs. 5897.80 Cr. (till 02/2021)								
	Approval date:									
	Zero date:	15/12/2015								
	Financial closure	Completed								
	Main Plant Order	BTG order placed on BHEL on 31.12.15.								
	BOP Package	Order placed on M/s. BGR energy Systems Ltd on 06/07/2016.								
	Type of fuel /FSA	Coal / Available								
	PPA	Available with 4 DISCOMS before bifurcation of A.P. To be revised with 2 DISCOMS of A.P								
	Power Evacuation system	Under progress								
	Land Possession: Available Water allocation: Available MOE & F clearance: Available State Pollution Control Board Clearance: Available Civil Aviation clearance: Available									
	Critical issues									
	Reasons for Delay		• Stoppage of work due to COVID pandemic. • Slow progress of work by BHEL. • Delay in providing various building foundations. • APGENCO has given time extension up to June 2020 to BHEL due delays in project not attributable to BHEL.							

RKM-02.03.2021

BROAD STATUS OF THERMAL POWER PROJECTS IN TELANGANA

			Commissioning Schedule	
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Sl. No.	Project Details	Capa- city (MW)	Original		Actual(A) / As Expected		Broad Status	
			Syn. Comm	COD	Syn. Comm	Trial-run COD		
State Sector								
1	Bhadradri TPP (TSGENCO) Distt. Khammam,Telangana	1080					Unit 1: COD has been declared on 05.06.2020. Trial run completed on 05.06.2020; Full load on 20.03.20. Synchronisation on 19.09.2019. Boiler: Boiler erection started on 15.09.17. Boiler drum lifted on 06.01.18. Boiler hydro test completed on 17.08.18. BLU 25.03.2019. SBO – 23.07.2019. TG: TG civil work started on 06.11.15. Condenser erection started on 01.06.18.TG erection started on 01.09.18. TG box up 13.02.2019, TG Oil flushing 01.04.2019. Unit 2: COD has been declared on 07.12.2020. Trial run completed on 07.12.2020; Full load on 23.11.20. Synchronisation on 03.07.2020. Boiler: Boiler erection started on 12.01.18. Boiler drum lifted on 28.03.18. Boiler hydro test completed on 04.11.18. BLU on 19.10.2019. TG: TG civil work started on 06.11.15. Condenser erection started on 29.11.18. TG erection started on 10.01.19. TG Box up 03.07.2019. TG oil flushing 25.09.2019. Unit 3: Boiler: Boiler erection started on 11.01.18. Boiler drum lifted on 28.03.18. Boiler hydro test (drainable) completed on 26.11.18. BLU on 30.12.2019. TG: TG civil work started on 04.12.15. Condenser erection started on 11.06.2019. TG erection started on 20.06.2019. TG box up on 24.02.2020. TG oil flushing on 18.06.2020. Unit 4: Boiler: Boiler erection started on 08.03.18. Boiler drum lifted on 21.08.18. Boiler hydro test (drainable) completed on 16.02.2020. Boiler light up expected in March,21. TG: TG civil work started on 04.12.15. TG erection started on 17.12.19. Condenser erection started on 24.12.19. TG box-up on 29.01.21. TG oil flushing expected in March,21. BTG - 89% completed. BoPs: • CHP: conveyer package - 65% completed. Stacker Reclaimer - 40% completed. Wagon Tripler – 15% completed. • AHP: 80% work completed. • Cooling Tower: 100% completed. • Chimney: 86% completed. • DM Plant – 99% completed. • PT Plant – 90% completed. • CW Treatment plant: 98% completed. • Switchyard – 100% completed. FGD: Agency not yet finalized.	
	U-1	270	02/17 03/17	03/17	19.09.19(A) 20.03.20(A)	05.06.20(A) 05.06.20(A)		
	U-2	270	04/17 05/17	05/17	03.07.20(A) 23.11.20(A)	07.12.20(A) 07.12.20(A)		
	U-3	270	06/17 07/17	07/17	15/01/21(A)	03/21		
	U-4	270	08/17 09/17	09/17	06/21	06/21		
	Original Cost /Latest Estimated Cost		Rs. 7290.60 Crs./ Rs.8536.98 Crs / 9962.32 Crs (including FGD system).					
	Total Expenditure		Rs. 7346.19 Crs. (up to 04/03/2021)					
	Approval date:							
	Zero date:		21.03.2015					
	Financial closure		Power Finance Corporation Ltd sanctioned loan for an amount of Rs.6373.01 Cr.					
	Main Plant Order		EPC order placed on BHEL on 21.03.15.					
	PPA		Entered with TS Discoms on 17.09.2019.					
	Power Evacuation system		Commissioned in February 2019.					
	Project clearances / Inputs : 1. State Government Permission: As directed by Govt. of Telangana State vide letter from Chief Minister Office, i.e. Lr No. 177/PrISCM/2014, Dt-1.12.2014 2. Water Allocation: State Govt. has allotted 1.4 TMC of water per year@ 45 cusec from Godavari river vide G.O.Ms.No. 03 dt-07.01.2015. 3. Coal linkage / FSA : MoC sanctioned 4.2 MTPA on 15.02.2018 vide file No. 23014/1/2018-CLD. 4. Civil Aviation Clearance for Chimney: NOC issued by AAI vide Ref.No. AAI/SR/NOC/RHQ dt:11.12.2015 5. Environmental Clearance from MoE&F& CC, GoI.: EC obtained on 15.03.2017. 6. State PCB Pollution Clearance for water & Air (Consent for Establishment): Obtained on 30.03.2017. 7. Land Possession : 1179.394 Acres land acquired.							
	Critical issues		Readiness of DM plant is subjected to availability of Raw water at Reservoir. Readiness of FO System subjected to availability of fuel oil.					
	Reasons for Delay		Work stopped due to Lockdown for COVID Pandemic.					

RKM-06.03.2021

RKM-06.03.2021

Sl. No.	Project Details	Capa-city (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A)/ As Expected		
			<u>Syn. Comm</u>	COD	<u>Syn. Comm</u>	<u>Trial-run COD</u>	
State Sector							

2	Yadadri TPP (TSGENCO) Distt. Nalgonda, Telangana	4000 (5x800)					BTG : - Boiler & ESP Civil foundations completed for all units. - Mill foundation raft completed for all units. Main Power House foundations completed for all units. - Boiler Civil works started for all units. Boiler erection works completed 18.55%, 18.47%, 16.03%, 15.02% & 13.40% for Units 1,2,3,4 & 5 respectively. - TG foundations U#1, U#2, U#3 and U#4 completed upto raft level and reinforcement for raft in progress. ESP : ESP erection works completed 54.74%, 55.27%, 47.37%, 44.51% & 20.42% for Units 1,2,3,4 & 5 respectively. Chimney : Construction of twin steel flue RCC Chimneys for U#1 & U#2 and U#3 & U#4 and single steel flue RCC Chimney for U#5 started. 10.7m/270 m for U#1&2 and 24.8m/270m for U#3&4 completed. Shell concreting upto 10.3m/270m completed for U#5. Cooling Tower : Excavation under progress for NDCT-1,3 & 5. Raft PCC started and is in progress for NDCT-\$ & 5. CHP : Work under progress. AHP : Bottom Ash Hopper for U#2 & U#4 are in progress. Plinth beam complete and Backfilling is under progress. FGD Plant : Work to be commenced. Generator Transformer : 6 Nos. GT reached to the site. DM Plant : Earth work excavation in progress. Dressing for PCC-9/138 completed. Engineering and ordering for all other BoPs are in progress.
	U-1	800	07/20 09/20	10/20	10/22	02/23	
	U-2	800	07/20 09/20	10/20	12/22	03/23	
	U-3	800	03/21 05/21	10/21	01/23	04/23	
	U-4	800	03/21 05/21	10/21	03/23	05/23	
	U-5	800	07/21 09/21	10/21	05/23	06/23	
	Original Estd. Cost /Latest Cost		Rs. 29965.48 Crs.				
	Expenditure during 2015-16 Expenditure during 2016-17 Expenditure during 2017-18 Expenditure during 2018-19 Expenditure during 2019-20 Expenditure during 2020-21		Rs. 486 Crs				
	Total Expenditure	Rs. 9313.69 Crs. (upto 02/2021)					
	Approval date:						
	Zero date:	17.10.2017					
	Financial closure	M/s. REC sanctioned loan for Rs.16070.54 Cr vide letter dated 11.08.15 and M/s PFC sanctioned loan for Rs.4009 Cr vide letter dated 19.07.15.					
Main Plant Order	LOI has been issued to M/s BHEL on 17.10.2017. Three Purchase Orders were issued to M/s. BHEL on Single EPC basis vide dt: 29-03-2018 towards Supply, Erection & Commissioning and Civil works.						
1. Water Allocation: State Govt. has accorded permission for drawal of 208 Cusecs (6.60 TMC per year) of water from Krishna River vide letter dated 30.01.2015. 2. Power Purchase Agreement: - Govt. of Telangana issued Permission vide letter Dt: 21.08.2017 to avail entire 4000 MW Power from YTPS through TSDISCOMS. Power Purchase Agreement is entered on 11.03.2020. 3. Forest Clearance: Stage II clearance was accorded by Central Govt. MOEF &CC for diversion of forest land of 1892.35 Ha vide Lr. No. F.No. 8.07/2015-FC dtd 7.7.15. Subsequent Govt order was issued by Govt. of Telanagan vide G.O.Ms. No.38, dtd 30.7.15 4. MoEF&CC Clearance: EC obtained from MOEF&CC on 29.06.2017. 5. SPCB Clearance: Consent for Establishment received from TSPCB on 25.07.2017. 6. Civil Aviatin Clearance: NOC obtained on 26.07.2016. 7. Land possession: 5459.39 Gts acquired. 8. Coal Linkage/ FSA: 14MMTPA of G9 grade coal from SCCL. 9. Power Evacuation: 400KV Janagaon, Damarcherla, Choutuppall and Dindi.							
Critical issues							
Reasons for Delay	Work stopped due to COVID Pandemic.						

RKM-17.03.21

BROAD STATUS OF THERMAL POWER PROJECT IN KARNATAKA

Sl. No.	Project Details	Capacity (MW)	Unit	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				<u>Syn.</u> Comm	COD	<u>Syn.</u> Comm	Trial-run COD	
State Sector								

1.	Yelahanka Combined Cycle Power plant. Distt. – Bangalore, Karnataka	370	GT	10/17	03/18	06/21	09/21	• Main Plant: GT erection started on 3.04.2017. GT and Generator erected, GTG Aux. erection is in progress (98%). GT Aux. erection is in progress (90%). STG HIP module, Generator erected. LP turbine erection under progress. ST Aux. erection is in progress (85%). HRSG: Leak test completed, box up completed and insulation work in progress (98%). • GT : cranking on 26.09.20, FSNL on 02.10.20. ST box up on 15.02.21, ST oil flushing on 25.05.20 – 20.12.20, ST - BG on 18.02.21. STG building structural erection completed. GTG building – structural work 98% completed. STG/GTG – EOT Crane girder and EOT erection works completed. • BOPs: • Chimney: Erection upto 58.5 meter height (Full Height) completed. • CT: Civil work is in progress. 98% completed. Shell internals erection completed, fan trial run taken. • CW system: CWP cold and hot tunnel hydraulic test completed, cooling tower, forebay inlet screen erected & commissioned. • ETP: ETP-1 & ETP-2 civil works completed. Electro-Mechanical works under progress. • DM Plant: RODM plant Commissioned. Doors and windows works are under progress. • Switch Yard: 220 KV switchyard, GTG Transformer and UAT through Line-1& LT /HT switchgear Charged. • FPS: MVWS, HVWS piping erection, testing (97%) completed. Balance work under progress. • Air Conditioning & Ventilation: Erection of Chiller units, condenser pumps, chilled water pumps, piping and fans is in progress (95%). • Control & Instrumentation: Control panel erected and cable laying work in progress (96%) • LT/HT Switch gears: Panel erection work completed and cable laying work in progress (98%) • Cables (Power/Control): Cable tray erection works (96%) in progress. Cabling works (96%) in progress. • Generator Transformers: GT/ST transformers testing completed, GT/ST transformers are in charged condition. • Unit Transformers: UATs are in charged condition.
	Original Cost / Latest Cost	:Rs 1571.18 Crs (subject to revision)						
	Exp. during 2016-17	: Rs 215.668 Crs						
	Exp. during 2017-18	: Rs 932.1737 Crs						
	Exp. during 2018-19	: Rs 114.38 Crs						
	Exp. during 2019-20 & 20-21	: Rs 420.3287 Crs.						
	Total Expenditure	: Rs 1682.5504 Crs (up to 02/21)						
	Zero date:	: 09.11.2015						
	Financial closure	: 12.01.2017						
	Main Plant Order	: M/s BHEL						
	HRSG Civil Work	M/s BHEL						
	Type of fuel	Gas						
	PPA	: PPA agreement is under review.						
	Power Evacuation system	Power evacuation work is entrusted to M/s.KPTCL and work start up power charged on 25.01.2019						
		• Land: 102.33 acres of land possessed by KPCL. • MOE&F: NOC obtained on 01/09/2015. • SPCBC: NOC obtained on 02/12/2015. • Gas allocation/FSA: KPCL & GAIL entered Gas Sale &Transmission Agreement on 24.06.2017. M/s. GAIL have early Supply line and ready for Supplying the gas Generation. Regular line work is also completed. • Civil Aviation: NOC obtained from Airports Authority of India on 05/05/2015. • Water: 15 MLD from Jakkur tertiary treated water plant.						
Critical issues	The Gas Turbine activities stopped due to fire incident in exhaust chamber of Gas turbine during FSNL activity on 02.10.2020. The committee is formed to assess root cause for the incident headed by Shri P.D.Siwal, Former Member, CEA and other members from BHEL, GE & KPCL. The committee inspected the site & analysed the cause for the accident and submitted the report. M/s GE has carried out BOROSCOPIC inspection of Gas Turbine and run other drives for analysis and submitted the report. Based on the report by GE, BHEL ordered for required spares & submitted schedule of activities. Restoration of GT works under progress.							
Reasons for Delay	- Delay in Civil Works. - Work stopped w.e.f. 23.03.2020 to 03.05.2020 due to COVID Pandemic.							

RKM-06.03.2021

BROAD STATUS OF THERMAL POWER PROJECTS IN TAMIL NADU

Sl. No.	Project Details	Unit No.	Cap-acity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Syn. Comm	COD	Syn. Comm	Trial-run COD		
State Sector									
1	Ennore SEZ STPP TANGEDCO Distt. Thiruvallur Tamil Nadu	1	660	07/19 07/20	04/21	03/22	05/22	Unit-I Boiler: Boiler civil works started on 27.03.2017 and erection started on 15.09.17. Drainable hydro test completed on 15.02.2020. 26661/ 31650 MT erection completed. Non-Pressure parts erection in progress. TG: Civil works started in 06.06.2017. No work in poggess due to lack of manpower. ESP 1: Air leak test completed in all four passes. 7520/9400 MT erected. Unit-II Boiler: Boiler erection started on 08.06.18. Hydro Test (Drainable) expected by 30.03.2021. 21186/31000 MT erection completed. Equivalent weld Joints 30749/33463(drainable) completed. Pressure parts erection in progress. TG: Civil works started on 06.08.2017. No work in poggess due to lack of manpower. ESP 2: 2/4 passes air leak test completed. 6082 / 9400 MT erected. BOP: Chimney: Shell for full height (270.5 m) completed on 04.05.2019. AHP / CHP : Stacker Reclaimer: 1A/1C: 18/18 modules completed; 1B/1D: 14/18 modules completed. Transfer Tower: RC piling for TT 1-12 completed, pile cap/pedestal works under progress. TT-8,10 & 11 superstructure erection under progress. External Coal Handling System: Test pile- 57/66 completed; 32/66 load test completed and repTest pile- 36/66 completed; 28/66 load test completed Aux Boiler: : Civil foundation works completed except 2 Nos FD foundations. Erection started on 07 th Aug 2019. Cooling Tower: 28/96 Raker column for NDCT-1 & 9/24 Raker column for NDCT-2 casted. For NDCT-1 CW basin, 21/43 segments casting completed. Switchyard: 400 kV Tower foundations - 25/26 nos. pedestal & bolting completed.	
	Original Cost/ Latest Cost	Rs. 9800 Crores (Includes cost of FGD, ECHS and IDC)							
	Total Expenditure (up to 01/21)	Rs 4366.44 Crores.							
	Approval date:	12/12/2005							
	Zero date:	27/09/2014							
	Financial closure	Six months from the date of Award.							
	Main Plant Order	Order placed on M/s. BHEL (EPC- Rs. 7688 Crores) on 27/09/14. Further, order for Rs 126 Crores For Supply and erection works of environment norms placed and hence total EPC cost revised from Rs.7688 Crores to Rs.7814 Crores.							
	BOP Package	Orders placed on different venders.							
	Coal Linkage /FSA	Long term Coal Linkage application submitted on 26.02.2010 to Ministry of Coal/GoI/New Delhi for 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% imported coal. During the standing linkage committee (SLC) meeting held on 24.6.2019 it has been decided that the discussion on Bridge linkage will be taken up in the next SLC meeting.							
	PPA	N.A. State sector project. Entire100% power will be utilised by Tamil nadu.							
	Power Evacuation system	Power will be evacuated from the proposed thermal power station through double circuit 400 KV transmission lines i.e. through 2 Nos. 400 KV lines to 765 KV Pooling Station and 2 Nos. 400 KV lines to ETPS Expansion STPP.							
		- Land: Acquisition of land does not arise since own land of TANGEDCO (Out of 1100 acres available at Ash dyke of NCTPS, only 500 acres utilised for the subject project development). - MOE&F: NOC obtained on 07/01/2014. - SPCBC: NOC obtained on 11/03/2014. - Civil Aviation: NOC obtained from Airports Authority of India. Validity extend upto 13.05.22. - Water : Supply of 4 MGD water from CMWSSB obtained. However, desalination plant is envisaged in the project.							
	Critical issues								
Reasons for Delay		- Work temporarily suspended on 07.09.2015 due to Litigation and resumed on 19.10.2016 by BHEL at site after receipt of judgement from Supreme Court /New Delhi in favour of TANGEDCO. - Work stopped w.e.f. 23.03.2020 till end of April,2020 due to COVID Pandemic.							

RKM-11.03.2021

Sl. No.	Project Details	Unit No.	Capa-city (MW)	Commissioning Schedule				Broad Status														
				Original		Actual(A)/ As Expected																
				Syn. Comm	COD	Syn. Comm	Trial-run COD															
State Sector																						
2	Uppur STPP TANGEDCO Distt. Ramnad, Tamil Nadu	1	800	05/20 06/20	02/21	Project is expected to be commissioned in the year 2022-23.		Unit-1 BOILER : Unit-I Structural fabrication in progress - 5896 tonnes. ESP : Erection of columns in ESP in progress. BTG : BTG Materials – 115494 tonnes ; Structural and reinforcement materials – 35896 tonnes received at site.														
Original Cost /Latest Cost		: Rs. 12778 Cr. (Including IDC)																				
Expenditure during 2016-17		:Rs. 16.74 Crores																				
Expenditure during 2017-18		:Rs. 226.62 Crores																				
Expenditure during 2018-19		:Rs. 1594.15 Crores																				
Expenditure during 2019-20		: Rs 924.32 Crores																				
Expenditure during 2020-21		: Rs 309.52 Cr (up to 02/21)																				
Total Expenditure		: Rs. 3071.35 Cr (up to 02/21)																				
Approval date:																						
Zero date:		Revised from 20.05.2016 to 03.08.2017																				
Financial closure		Financial tie-up is proposed with M/s PFC.																				
Main Plant Order		Order placed on M/s. BHEL (BTG- Rs. 5580 Crores) on 27/02/16.																				
BOP Package		: Awarded to M/s. Reliance Infra Structure Ltd, Mumbai on 21.2.2018. BOP Package is under re-tendering.																				
Type of fuel		COAL, MoU entered with MMTC for supply of imported coal of 5.02 MTPA on 25.05.2015.																				
PPA		State owned project.																				
Power Evacuation system		765 KVA																				
		- Land: Out of 995.16 acres of land, Government Poromboke Land for 227.36 acres and private patta lands of 767.80 acres. Around 192.36 acres of Govt. land in BTG area has been handed over by TANGEDCO to M/s BHEL on 21.07.2016 for project preparatory works. The District Collector/ Ramnad has accorded enter upon permission to the patta land not covered under litigation for an extent of 407.74 acres to TANGEDCO on 03.08.2017. Out of this, around 63 acres of patta land in BTG area has been handed over by TANGEDCO to M/s BHEL on 03.08.2017. 552 Acres of land handed over to M/s RIL, BOP contractor on 17.03.18. Balance land around 354 acres pending for enter upon due to litigation has been cleared by Collector of Ramand on 03.07.2020. - MOE&F: Ministry of Environment and Forest has accorded clearance for the above Project on 18.05.2016. - SPCBC: CRZ committee of MOEF recommended the Project on 28.1.16 and MOM published in web site on 8.2.16. - Civil Aviation: NOC obtained from Airports Authority of India on 22.11.2012 valid up to 21.11.2019. Clearance further extended upto 21.11.2024 - Water: Tamil Nadu Maritime Board has issued NOC for construction of Jetty for drawal and discharge of cooling water, vide 27.4.2015.																				
Critical issues		The Honorable Madras High Court – Madurai Bench has banned quarrying of “Savudu Sand (Filling soil) on 28.08.2019 in 13 districts including Ramanathapuram District vide WMP No. 20930/2016 (PIL). The High Court / Chennai has ordered to shift another bench and awaiting for listing in proposed bench. In this regard, to speed up the BTG progress, TN Govt. filed SLP filed at Supreme Court against District Collector on 19.03.2020. Meanwhile, the District Collector of Ramand has issued the Enter upon permission on 03.07.2020 for the entire project land.																				
Reason of Delay		- Work stopped w.e.f. 25.03.2020 to 03.05.2020 due to COVID Pandemic.BHEL resuming the construction activities on 04.05.2020. - Migrant labours belonging to varios states moving to their native place by Train on 21.05.2020 to 14.06.2020. - Due to heavv rain at site, water was filled in the area and work was stopped.																				
						<table><tr><th>Sl. No</th><th>Location</th><th>Total No of piles</th><th>No. of piles completed as on 31.12.2020</th><th>Balance to be completed</th></tr><tr><td>1.</td><td>Unit-I</td><td>3123</td><td>3066</td><td>57</td></tr><tr><td>2.</td><td>Unit-II</td><td>3180</td><td>3117</td><td>63</td></tr></table> Unit-2 Structural fabrication in progress – 4917 tonnes. Balance of Plant Package by M/s Reliance Infrastructure Ltd.(RIL): - Soil Investigation bore holes 30 Nos completed. Balance 27 Nos in litigation land. - Jungle clearance for about 240 acres completed. - Construction of stores building (600 sq.m X 2 Nos) in progress. - Contract was short closed due to huge price escalation sought by M/s RIL and retendering is under progress. Sea water Intake & Outfall system by M/s. L & T - Laying of MS pipes in progress. - Forest clearance: GO issued vide G.O(MS)No.49 dt 27-05-2019 for diversion of 0.40 hectares of forest land for USTPP CW intake and pipe line structures and work commenced on 30-05-2019. Work re-commenced in offshore area on 28-08-2019 and is in progress. District Collector has given clearance to commence the earth filling for in offshore area from 30.08.19 onwards. The work was re-commenced on 27.04.2020 based on concurrence of District Administration.		Sl. No	Location	Total No of piles	No. of piles completed as on 31.12.2020	Balance to be completed	1.	Unit-I	3123	3066	57	2.	Unit-II	3180	3117	63
Sl. No	Location	Total No of piles	No. of piles completed as on 31.12.2020	Balance to be completed																		
1.	Unit-I	3123	3066	57																		
2.	Unit-II	3180	3117	63																		

RKM- 08.03.2021

Unit-1**BOILER** : Unit-I Structural fabrication in progress - 5896 tonnes.**ESP** : Erection of columns in ESP in progress.**BTG** : BTG Materials – 115494 tonnes ; Structural and reinforcement materials – 35896 tonnes received at site.

Sl. No	Location	Total No of piles	No. of piles completed as on 31.12.2020	Balance to be completed
1.	Unit-I	3123	3066	57
2.	Unit-II	3180	3117	63

Unit-2

Structural fabrication in progress – 4917 tonnes.

Balance of Plant Package by M/s Reliance Infrastructure Ltd.(RIL):

- Soil Investigation bore holes 30 Nos completed. Balance 27 Nos in litigation land.
- Jungle clearance for about 240 acres completed.
- Construction of stores building (600 sq.m X 2 Nos) in progress.
- **Contract was short closed due to huge price escalation sought by M/s RIL and retendering is under progress.**

Sea water Intake & Outfall system by M/s. L & T

- Laying of MS pipes in progress.
- Forest clearance: GO issued vide G.O(MS)No.49 dt 27-05-2019 for diversion of 0.40 hectares of forest land for USTPP CW intake and pipe line structures and work commenced on 30-05-2019. Work re-commenced in offshore area on 28-08-2019 and is in progress. District Collector has given clearance to commence the earth filling for in offshore area from 30.08.19 onwards. The work was re-commenced on 27.04.2020 based on concurrence of District Administration.

Sl. No.	Project Details	Unit No.	Capa- city (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Svn. Comm	COD	Svn. Comm	Trial Run COD		
State Sector									
3	North Chennai TPP St-III by TANGEDCO Distt. Thiruvallur, Tamil Nadu	1	800	02/19 03/19	07/19	07/21 07/21	08/21	Boiler: Boiler Structural erection works started on 30.08.2017. 12832 MT/ 16859 MT work completed. Pressure parts erection started on 26.10.2018 and so far 10690MT (94.64%) erected. Pressure parts joints welding works 49594 Nos. (94.23%) completed. Drainable Boiler Hydro test was carried out on 31.12.2019. Boiler initial light up was done on 23.02.2021 by making contingency arrangement of DM water and Fuel oil with one pass auxiliaries in running condition. Balance pressure part erection and Joints welding are in progress. Insulation work for backpass is in progress. Power cycle pipe erection is in progress. TG: Condensor erection started on 14.11.2018. Erection is in progress. LP heater erected. TURBINE: HP turbine erected, ESV with actuator 2 no's erected. ESV connection to MS line alignment fit up completed and being made ready for steam blowing. IP turbine trial box up completed. LP turbine radial & axial blade clearance sitting and Diffuser clearance setting are in progress. TG Stage-2 oil flushing commenced and normalization for seal oil system is in progress. MD BFP: Oil flushing completed. Piping work under progress. TD BFP: Pipe erection work in progress. ESP: Civil works completed in ESP area and ESP grade slab completed in all passes. Erection of all six passes completed. ESP electrical works completed. Finishing works is in progress. Balance internal erection and Monorail works are in progress. So far 11554 MT (99.24%) erected. BOPs • CHP: ECHS: External Towers (5Nos)- All civil foundation works completed. Structural erection is in progress for ET 2 to 5. For conveyors EC 2A / 2B, EC 3A/3B, 4A/4B, 5A/5B & 6A/6B- gallery and trestle erection under progress. For other conveyors civil works are in progress. Bulldozer shed- Tie beam work is in progress. • AHP: Fly ash silo-1 & 2: Shell construction completed upto 38.55m level. Bottom Ash silo: Shell completed on 22.04.2019. Pedestal final lift works under progress. 93% work completed. • Coling Tower: NDCT pond wall 100% completed. NDCT shell jump completed (124 lifts completed). Pre-cast beam erection is in progress (99% completed). • Chimney: 100% Chimney completed. Flue can erection completed. Flue can duct and staircase erected. Painting work is in progress. • SWITCHYARD: 765KV GIS Building: Civil works major portions completd. 230KV GIS Building: Building works completed. Bay erections completed in 230KV. Charging of GIS control room Battery bank is in progress. 765KV GIS side wall brick work under progress. transformer is ready for Charging cableing is completed and termination work is in Progress. • Considering the revised emission norms, In principle approval was given to M/s.BHEL for making in boiler modification to achieve the NOx reduction from 510 mg/Nm3 to 300 mg/ Nm3 on 18.08.2016 and commercial acceptance was given on 31.03.2017. • FGD is not included in the scope of both BTG and BOP package. Opinion on of consultant sought for regarding the type of technology to be adopted for FGD and allied issues like water availability, disposal of gypsum etc.	
Original Estd. Cost		: Rs. 6376.00 Crores (Including IDC)							
Expenditure during 2009-10		: Rs. 0.02206 Crores							
Expenditure during 2010-11		: Nil.							
Expenditure during 2011-12		: Nil.							
Expenditure during 2012-13		: Rs. 0.2058 Crores							
Expenditure during 2013-14		: Rs. 0.3955 Crores							
Expenditure during 2014-15		: Rs. 0.1294 Crores							
Expenditure during 2015-16		: Rs. 0.2529 Crores							
Expenditure during 2016-17		: Rs. 198.0875 Crores							
Expenditure during 2017-18		: Rs. 929.7544 Crores							
Expenditure during 2018-19		: Rs. 2243.52 Crores							
Expenditure during 2019-20		: Rs. 2090.6273Crores							
Expenditure during 2020-21		Rs 786.89 Crores (upto 02/21)							
Total Expenditure (upto 02/21)		: Rs 6249.8773 Crores							
Zero date:		: 29.01.2016 (BTG), 28.10.2016 (BOP)							
Main Plant Order		: EPC on M/s BHEL for Rs. 2759 Crores. Boiler: Alstom, TG & generator: Siemens & BHEL.							
BOP Package		28.10.2016 (EPC) on M/s BGRESL- Rs.2600 Crores.							
Type of fuel		: Coal							
PPA		: N.A. State owned Project, entire power is to be utilized by TANGEDCO.							
Power Evacuation		:The power generated from this plant is proposed to be evacuated through a 765 KV DC feeder to the proposed North Chennai Pooling Station and 765KV DC link line feeder to the proposed Ennore Replacement Power Plant which is being established by TANTRANSOCO, around 85% works has been completed so far.							
		• MOE&F Clearances obtained on 20/01/2016. • SPCB clearance obtained on 13.04.2017 • Civil Aviation: clearance obtained on 15/05/2013, valid for 7 years. The Chimney has been completed in all respect (up to 275 mt) within the validity period, so no fresh NOC from AAOI is required. • Land Acquisition: The propose site is within the existing NCTPS complex and land is already under possession of TANGEDCO. • Water allocation: Water requirement for the project will be met from existing fore bay of NCTPS stage-II. The make-up water for cooling tower, boiler make-up & other sweet water requirements are to be met from proposed desalination plant for this project. Construction water from M/s.CMWSSB available to the contractor from 07.01.2017. • FSA: MOU has been entered with M/s. MMTC for supply of imported Coal of 2.51 MTPA on 25.05.2015. MoC has recommended for long term coal linkage for 1.971 MT Indigenous Coal to Singareni Collieries. Draft FSA under finalisation between TANGEDCO and SCL.							
Critical issues		CW piping got damaged on 03.09.2019 due to upliftment. Now transportation of the CW pipes from Uppur TPP is under progress. 20 Nos. pipes out of 76 nos. reached at site. Excavation work and cutting of damaged CW pipe are in progress. The work is expected to be completed by May'2021.							
Reasons for Delay		- M/s Bridge and Roof (for Boiler and Bunker erection) – Structural works kept on hold for two months from 18.02.2019 due to internal issue. - Work stopped w.e.f. 23.03.2020 till end of April,2020 due to COVID Pandemic. - Delay due to modification in Boiler design by BHEL to achieve revised NOx emission norms for new projects to be installed after 01.01.2017, issued by MOEF&CC.							

RKM - 11.03.2021

Sl. No.	Project Details	Unit No.	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Syn. Comm	COD	Syn. Comm	Trial-run COD		
Private Sector									
4	Tuticorin TPP St-IV / (M/s SEPC Power Pvt. Ltd.) Distt. Thoothukudi, Tamil Nadu.	1	525	07/18 09/18	10/18	04/21 05/21	05/21	• BTG: Civil works 98% and Mechanical erection works 95% completed. • Boiler: Boiler civil work started on 15/12/15 & erection started on 15/12/16. Boiler Drum lifted on 13.8.17. Boiler hydro Test (non drainable) completed on 12.03.2020. Boiler light up on 20.10.2020. • TG: civil work started on 01/06/016. TG erection started on 8.9.17. TG Box up done on 05.01.2021. BOPs: • CHP, AHP, CT, Chimney, PT and DM Plant, CW system, Fuel oil system and all other systems related to power evacuation, switchyard including C&I, Fire protection system, air-conditioning & ventilation etc. are all awarded to M/s MEIL on 18/01/14. • CHP: 95% of civil foundation work has been completed. Mechanical structural fabrication & erection under progress. Mechanical work 99% has been completed • AHP: 95% of civil works has been completed. Mechanical structural fabrication erection under progress. Mechanical work is going on in Transfer Towers & Belt Conveyors. • Cooling Tower: Erection works completed. Testing work under progress. • Chimney: M/s MEIL awarded the chimney works to M/s Paharpur. Foundation works completed. Shell concreting completed up to 275 m. Finishing work under progress. • PT Plant: Civil works completed, Equipment erection and commissioning by M/s Tecton under progress. 97% work has been completed. • DM Plant: Civil works are nearing completion. Equipements erection under progress. • Fire Perotection System: Erection & Commissioning works under progress. • Fuel Oil System: 96% of civil works and 98% of mechanical works has been completed. • CW System: Commissioning under progress. 98% works has been completed. • Switchyard: Erection works completed. Commissioning under progress. • LT/HT Switch-gear: Erection & commissioning works completed.	
	Original /Latest Cost		: Rs. 3514.00 / Rs. 3514.00 Crores						
	Expenditure up to 2015-16		:: Rs. 480.79 Crores						
	Expenditure during 2016-17		: Rs. 248.70 Crores						
	Expenditure during 2017-18		: Rs. 822.94 Crores						
	Expenditure during 2018-19		: Rs. 508.91 Crores						
	Expenditure during 2019-20 & 20-21		: Rs. 1747.39 Crores (upto 28.02.2021)						
	Total Expenditure (up to 02/2021)		:Rs. 3808.73 Crores						
	Zero date		: 30/10/2015						
	Main Plant Order		: Awarded on EPC basis to M/s MEGHA Engg. and Infrastructures Ltd. ("MEIL") on 18/01/14. M/s MEIL in turn awarded the BTG package to M/s BHEL on 30/10/2015.						
	Type of fuel & FSA		Imported Coal firm up and agreement with the coal supplier was approved by Hon'ble TNERC on 10.01.2020.						
	PPA		:PPA signed with TANGEDCO and approved by TNERC						
	Power Evacuation system		• For power evacuation 2x400 KV line has been approved by CEA and is to be implemented by TANGEDCO/ TANTRANSCO.						
		• MOE&F Clearance : Obtained. Extended up to 02.11.2020. Since all construction works (Civil & Mechanical) are completed within the month of September 20, thereafter consent to operate (CTO) was obtained and therefore EC valid until 02.11.2020 is adequate & hence further extension not required. • CPCB Clearance: Obtained and valid up to 02.11.2020. • Civil Aviation: Clearances obtained and valid up to 17.12.2021. • Land Possession: Land Lease Agreement signed with VOC port Trust and 100% possession obtained. • 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.							
Critical issues		1) Approval/NOC from Department of Forests, GoTN for pipeline and conveyor crossing. 2) Fixation of revised date of availability of start up Power and accordingly the SCOD at TNERC. 3) Approval of Coal Supply, Transport and Handling Agreements by TANGEDCO and TNERC.							
Reasons for Delay		• Startup power received on 09.10.2020, SCOD to be achieved by SPEC with in six months there after.							

RKM - 11.03.2021

Sl. No.	Project Details	Unit No.	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Syn. Comm	COD	Syn. Comm	Trial-run COD		
State Sector									
5	Udangudi STPP - Stage-I Distt. Thoothukudi, Tamil Nadu [TANGEDCO]	1	660	12/20 02/21	03/21	04/22 04/22	05/22	Preliminary works Engineering activities, Geo Technical works, Approach road works, Topographical survey , Jungle clearances and Temporary weigh Bridge Construction are completed. *Site levelling and Grading work under progress. *Boiler & ESP Civil foundation works completed and Erection work under progress. *Chimney earthwork excavation PCC completed. RCC Raft work completed. Shell wall works upto 169 m completed. *TG foundation completed. *Mechanical Erection of Boiler I & II under progress. Compound wall, cooling water pump house, bunker, bowl mill, power house, sea water inake & outfall construction works, NDCT (Unit-I & II) excavation, Engineering and other civil works for non-plant buildings are in progress. Captive Coal Jetty : *Topographical Survey, Land investigation, Bathymetry Survey, Marine investigation and Construction enabling activities completed. *Approach Pile and Pile cap construction activities are under progress in the off shore. *Total 4km length of piles completed. *Casting of PSC Girders and Accropode Pre casting are under progress. *Pre casting of deck slab are under progress. *Brake water construction and Construction of compound wall work under progress. Unit-2 has a phase difference of 8 weeks. Appointment of Consultants (For Plant) - Project Management Consultancy LOA was issued to M/s.TATA Consulting Engineers Ltd., on 19.02.2019 for engaging Project Management Consultancy services in the post award of EPC contracts till completion of entire project and consultancy services for preparation of tender specification, analysis of bid, award and post award PMC services until completion of the FGD & SCR. For Captive Coal Jetty - TANGEDCO Board has approved the proposed of consultancy services through IIT Madras on nomination basis and the same was approved by GOTN on 07.02.2019.	
		2	660	12/20 02/21	05/21	06/22 06/22	07/22		
	Original Cost/ Latest Cost		: Rs. 13076.70 Crores (Includes cost of Pollution Control Equipments & IDC) { a. Plant Rs. 7894.169 Crores & b. Coal Jetty Rs. 1902.87 Crores }						
	Expenditure during 2010-11		: 102.84 Crores (Upto 31.03.14 by UPCL)						
	Expenditure during 2012-13		: 0.64375 Crores						
	Expenditure during 2013-14		: 0.39802 Crores						
	Expenditure during 2014-15		: 14.06281 Crores						
	Expenditure during 2015-16		: 0.54035 Crores						
	Expenditure during 2016-17		: 0.14855 Crores						
	Expenditure during 2017-18		: 0.29594 Crores						
	Expenditure during 2018-19		: 336.4342 Crores						
	Expenditure during 2019-20		: 654.7697 Crores						
	Expenditure during 2020-21		: 1462.55 Crores (up to 02/21)						
	Total Expenditure		: 2572.684 Crores (up to 02/21)						
	Zero date:		: 07.12.2017						
Financial closure		. Financial tie up with REC							
Main Plant Order & BOP		: EPC Contract was awarded to M/s. BHEL for Rs. 7359.00 Crores on 07.12.2017.							
Captive Coal Jetty		EPC Contract was awarded to M/s ITD Cementation India Ltd for Coal Jetty to the Power Project for an amount of Rs. 1902.87 Crores (Post GST)							
Type of fuel		: COAL. MMTC clearance obtained on 19.11.2012 (Import coal)							
PPA		N.A. State sector project. Entire power will be utilised by Tamilnadu State.							
Power Evacuation system		400 KV							
		- Land: Out of 1040 acres of land, Government Poromboke Land is of 760 acres and private patta lands of 280 acres. Around 760 acres of Govt. land and 135 acres of private land had been handed over by TANGEDCO to M/s. BHEL on 15.12.2017 for project preparatory works. Almost all 280 acres of private land are in possession of TANGEDCO except 11 acres which are under court case. 66 acres of land has been handed over to M/s. ITD cementation India Ltd., EPC contractor for Captive Coal Jetty. - MOE&F: Ministry of Environment and forest has accorded clearance for 2x800 MW of the project on 14.10.13 and for 2x660 MW amendment on 16.03.2017, which is valid up to 13.10.2023. - SPCB Clearance: Obtained. TNPCB has given consent for extension up to 31.03.2020. Extension for consent has been applied on 07.03.2020 and approval is awaited. - Civil Aviation Clearance: Obtained on 19.07.2016 valid till 18.07.2023. - CRZ clearance: Awarded for coal jetty on 06.06.2021, valid up to 05.06.2021. - Water: Intake of 21000 m³/hr and outfall discharge of 13500 m³/hr as per CRZ clearance dt. 06.06.2011, valid up to 05.06.2021.							
Critical issues									
Reasons for Delay		- Work stopped w.e.f. 23.03.2020 due to COVID pandemic. - Slow progress of work by BHEL.							

RKM - 08.03.2021

Eastern Region Thermal Power Plants

BROAD STATUS OF THERMAL POWER PROJECTS IN WEST BENGAL

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Sync	Trial-run COD	Synch	Trial-run COD	
State Sector								
1.	Sagardighi Thermal Power Project, WBPDCCL (1x660 MW)	5	660	09/23	01/24			Main Plant Civil & Structural work : Job Piling works in Boiler area, TG area & Main Power House are under progress. Piling work in Coal Mill & PA Fan areas have been completed. BTG: Agency has mobilized at site. Detail Engineering & finalization of drawings are in progress. Boiler Civil work started on 19.11.2020. Cooling Tower : Construction work commenced on 20.12.2020. Detail Engineering is in progress. Civil work for Micro Pile job for NDCT basin raft is under progress. Ring Beam Casting is under progress. CHP: Basic Engineering & finalization of drawings are in progress. Excavation work for Twin wagon Tippler has started. AHP: Job Piling work in ESP area & Bottom Ash Hopper areas have been completed. In ESP area excavation and chipping work for pile caps and bolt lift are in progress. Chimney: Tender floated on 10.12.2020 for selection of agency. Earlier Tenders were cancelled. Considering Model Code of Conduct imposed regarding Legislative Assembly Elections in West Bengal, re-tendering will be done, subject to clearance from Election Commission. DM & PT Plant : will be catered from existing stage-II Project. Detailed Engineering is in progress for other BoPs.
Original / Latest Cost		: Rs 3862.65 Crores/ 4567.316 Crores (Rev.1)						
Expenditure during 2019-20 : 2020-21 (upto 02/21)		: Rs 126.25 crs. Rs 200.55 crs.						
Total Expenditure (Upto 02/2021)		: Rs 326.80 Crores						
Zero date:		: 01/07/2020						
Notice To Proceed (NTP)		:						
Financial closure		: 70% of the Project Cost financed by PFC and the remaining 30% shall be equity.						
Date of Main Plant Order		: LOA has been issued to M/s BHEL on single point responsibility EPC contract basis on 17.01.2018. Amendment to LOA issued to M/s BHEL dated 31/12/18 for additional work of FGD, SCR and other scope of work.						
BTG Make		M/s BHEL						
PPA : Power Purchase Agreement executed with WBSEDCL Fuel : Coal will be sourced from captive coal mines of WBPDCCL. 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. Water : 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 AAI Clearance : NOC for height Clearance vide NOC ID: MALD/EAST/B/100316, Dated: 19.10.2016 obtained from Airports Authority of India. MoE&F : Environmental clearance vide F. No. J-13012/01/2019-IA. I (T) dated 24.03.2020 accorded by MoEF & CC Govt. of India. Land : Adequate land is available as the same was acquired during implementation of Phase-I Units (2x300 MW)								
Critical issues								
Reasons for Delay								

RKM-15.02.21

North – Eastern Region

BROAD STATUS OF THERMAL POWER PROJECTS IN ASSAM

Sl. No.	PROJECT DETAILS	Cap (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. comm	COD	Syn. comm	Trial Run COD	
	State Sector						
1.	Namrup Replacement Power Project Distt:Dibrugarh (Assam) APGCL	98.40					GT&GTG: GT synchronized on 03.01.17 and Commissioned on 11.01.17 (open cycle). GT was put on barring gear on 01.03.2016 and cranking was completed on 05.08.16. FSNL achieved on 3.1.17. ST: 72 hrs. Trial run completed on 17.05.20. Unit achieved Full load/comm. on 06.03.20, Synchronized on 02.10.19. (TG Hall roof collapsed on 09.07.2018.) TG erection started in October'16. Oil Flushing was STG in progress. ST synchronization and commissioning is expected in 10/19 (Combined cycle). COD is expected in 03/19. HRSG: HRSG work started in 01/12 and insulation work nearing completion. LP/IP/HP Hydro test completed. BFP no load test completed. Chemical cleaning was in progress at the time of accident • Work for erection, commissioning, PG Test and all BOPs (ordering and execution) has been allotted to M/s NBPPL (Joint venture of NTPC & BHEL) on nomination basis with approval of APGCL. • Earlier BHEL requested for provisional time extension up to Dec., 2013. APGCL approved formal extension up to Aug., 12 and provisional extension up to 2013. • Main plant civil works was awarded to M/s. Ramky and work was started in 4/10. • BHEL/NBPPL terminated the civil contractor M/s. Ramky on 05/09/13 & BHEL terminated M/s. NBPPL on 22.11.13 for their poor performance. • Tender for new civil contractor for balance civil work floated by BHEL on 18.12.13. Civil contract awarded on 13.03.14 to M/s Power Mech Projects & work was started on 05.05.14.
	GT	62.25	08/11 09/11	01/12	03.01.17(A) 11.01.17(A)		
	ST	36.15	11/11 01/12	01/12	02.10.19(A) 06.03.20(A)	17.05.20(A)	
	Date of sanction of the project		17.03.2007				
	Project sanctioning Authority		Govt of Assam				
	Date of Investment Approval		17.03.2007				
	Org. Est. cost		Rs 41100 Lakhs				
	Latest cost		Rs 69373 Lakhs				
	Exp. During 2007-08		Rs 23 Lakhs				
	Exp. During 2008-09		Rs 1816 Lakhs				
	Exp. During 2009-10		Rs 1799 Lakhs				
	Exp. During 2010-11		Rs 2159 Lakhs				
	Exp. During 2011-12		Rs 12363 Lakhs				
	Exp. During 2012-13		Rs 10640 Lakhs				
	Exp. During 2013-14		Rs 2105 Lakhs				
	Exp. During 2014-15		Rs 2005 Lakhs				
	Exp. During 2015-16		Rs 12870 Lakhs				
	Exp. During 2016-17		Rs 2950 Lakhs				
	Exp. During 2017-18		Rs 2450 Lakhs				
	Exp. During 2018-19 (06/18)		Rs 4727 Lakhs				
	Cumulative exp. up to(06/18)		Rs 58148 Lakhs				
	Date of Main Plant Order (LOA)		: 31.12.2008 (EPC) on M/s BHEL				
	Zero date of the project		: 09.02.2009				
	- Land: 30 Acres of land required for the project. - Fuel: Natural Gas. - Fuel Source: Gas supply agreement made with Oil India Limited for 0.66 MMSCMD of natural gas. Gas Transportation agreement with Assam Gas Company Ltd. through existing Gas supply line to NTPS. - Power Evacuation: LILO to connect with the existing Namrup – Tinsukia 220 kV D/C line.						
	Critical Issuewere:	- Readiness of firefighting system. - TG hall roof and TG restoration.					
	Reason for Delay were:	- Delay in start of civil work by 7 months and delay in civil work by another 7 months. - Termination of civil & BoP contracts due to poor performance and re-awarded to new contractors by BHEL, failure of SFC and Power module cards. - Gas Turbine & Generator bearing and Load Gear Box damaged due to power failure and DC motor failure. - Collapsing of TG hall roof (09.07.2018).					

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	Steam Blowing Operation
47	SCR	Selective Catalytic Reduction
48	SG	Steam Generator
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

BROAD STATUS REPORT

Under Construction THERMAL POWER PROJECTS

प्रतिवेदन

(फ़रवरी – 2021)

(February - 2021)

Central Electricity Authority

Thermal Project Monitoring Division

9th Floor(S), Sewa Bhawan,

R.K. Puram,

New Delhi – 110 066

Phone: 011-26732996, 2610 5075 (Fax)

E mail: cea-tmd@nic.in