भारत सरकार

GOVERNMENT OF INDIA

विद्युत मंत्रालय

MINISTRY OF POWER

BROAD STATUS REPORT

Under Construction

THERMAL POWER PROJECTS

जनवरी - 2021

January - 2021

तापीय विद्युत परियोजना प्रबोधन प्रभाग

Thermal Project Monitoring Division

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

नई दिल्ली

New Delhi

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(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 reporttitled "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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1.0 12th Plan Capacity Addition:

1.A. 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.B 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.C Sector-wise Thermal Capacity Addition during FY 2017-18; FY 2018-19 & FY 2019-20:

Thermal capacity addition after 12th 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. D. Sector-wise break up of under construction Thermal Power Projects:

(As on 16.02.2021)

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

1.E. PROVISIONAL SCHEDULE FOR CAPACITY ADDITION IN 2020-21 (As on 16.02.2021)

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**	

2.0 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	RRVUNL	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	Jun-06	BHEL	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

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)	
	EMCO Warora TPP	EMCO Energy Ltd. (GMR)	U-1	Sep-09	Chinese	300	300	11/12	07.02.13(A)	19.032013
	Tirora TPP Ph-I	Adani Power Ltd	U-1	Feb-08	Chinese	660	660	08/12	11.09.12(A)	23.09.2012
	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**			

2.1 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,CHIINA	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 Infra-structure (P) Ltd.	1	04/10	SEC, CHINA	300	300	3/11/2013	06/13	13.02.2014
Maharashtra	Dhariwal Infrastructure (P) Ltd.TPP	Dhariwal Infra-structure (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

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
Maharashtra	Tirora TPP Ph-II	Adani Power	1	02/08	SCMEC, CHINA	660	660	10/6/2013	06/13	14.06.2013
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, CHNA	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	-	03.042012
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, CHNA	-	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**			

2.2 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 TG:09/2008	800	800	28.08.2014	Jun-14	05.02.2015
					U-2		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 Infrastucture 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	Uniit 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	Tamnar 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	Tamnar 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**			

2.3 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-BHEI	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

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
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
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 (Mutiara)	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**		

2.4 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
	CENTRAL SECTOR								
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**	
	STATE SECTOR								
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	WBPDCL	BHEL	500	-	15.12.2016	500.0	-
				Total State Sector	3910			**3622.25**	
	PRIVATE SECTOR								
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	Ucchpinda 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									
	CENTRAL SECTOR								
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	-
	PRIVATE SECTOR								
Chhattisgarh	Ratija TPP -II	U-2	Spectrum Coal&Power Ltd	Non-BHEL	-	-	10.11.2016	50.0	-
Uttrakhand	GAMA CCPP	Module-1 (GT1&2+ST)	M/s GAMA Infraprop Ltd.	Others	-	-	25.04.2016	225.0	-
Uttrakhand	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**	

2.5 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	Rayal 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	Bhadradri 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**	

2.6 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 .

2.7 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	Bhadradri 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

State	Project Name	Impl Agency	Main Plant Equipment Supplier	Unit No	12th Plan Tar. Cap.	Cap. Ach. From Target (MW)	Add. Cap. Ach (MW)	Total cap. Ach. (MW)	Actual Comm.Date	Slipped
CENTRAL SECTOR										
Assam	Bongaigaon TPP	NTPC	BHEL	U-1	250	250	-	250	22.06.15	-
Assam	Bongaigaon TPP	NTPC	BHEL	U-2	250	250	-	250	22.03.17	-
Assam	Bongaigaon TPP	NTPC	BHEL	U-3	250	-	-	-	-	250
Bihar	Barh STPP-II	NTPC	BHEL	U-4	660	660	-	660	30.11.13	-
Bihar	Barh STPP-II	NTPC	BHEL	U-5	660	660	-	660	04.03.15	-
Bihar	Muzaffarpur TPP Extn	KBUNL (JV of NTPC & BSEB)	BHEL	U-3	195	195	-	195	31.03.15	-
Bihar	Muzaffarpur TPP Extn	KBUNL (JV of NTPC & BSEB)	BHEL	U-4	195	195	-	195	24.03.17	-
Bihar	Nabi Nagar TPP	NTPC	BHEL	U-1	250	250	-	250	20.03.16	-
Bihar	Nabi Nagar TPP	NTPC	BHEL	U-2	250	-	-	-	-	250
Bihar	Nabi Nagar TPP	NTPC	BHEL	U-3	250	-	-	-	-	250
Bihar	Nabi Nagar TPP	NTPC	BHEL	U-4	250	-	-	-	-	250
Bihar	Barh STPP-I	NTPC	Others	U-1	660	-	-	-	-	660
Bihar	Barh STPP-I	NTPC	Others	U-2	660	-	-	-	-	660
Bihar	Barh STPP-I	NTPC	Others	U-3	660	-	-	-	-	660
Chhattisgarh	Sipat-I	NTPC	Others	U-3	660	660	-	660	02.06.12	-
Haryana	Indira Gandhi TPP	APCPL	BHEL	U-3	500	500	-	500	07.11.12	-
Jharkhand	Koderma TPP	DVC	BHEL	U-2	500	500	-	500	15.02.13	-
Jharkhand	Bokaro TPS "A" Exp.	DVC	BHEL	U-1	500	500	-	500	22.03.16	-
Karnataka	Kudgi STPP Ph-I	NTPC	Non-BHEL	U-1 #	-	-	800	800	25.12.16	-
Karnataka	Kudgi STPP Ph-I	NTPC	Non-BHEL	U-2 #	-	-	800	800	23.03.17	-
Maharashtra	Mouda TPP	NTPC	BHEL	U-1	500	500	-	500	19.04.12	-
Maharashtra	Mouda TPP	NTPC	BHEL	U-2	500	500	-	500	29.03.13	-
Maharashtra	Mouda STPP Ph-II	NTPC	BHEL	U-3 #	-	-	660	660	28.03.16	-
Maharashtra	Mouda STPP Ph-II	NTPC	BHEL	U-4 #	-	-	660	660	18.03.17	-
MP	Vindhyachal TPP-V	NTPC	BHEL	U-13 #	-	-	500	500	06.08.15	-
MP	Vindhyachal STPS-IV	NTPC	BHEL	U-11	500	500	-	500	14.06.12	-
MP	Vindhyachal STPS-IV	NTPC	BHEL	U-12	500	500	-	500	25.03.13	-
TN	Vallur TPP Ph I	NTECL	BHEL	U-2	500	500	-	500	28.02.13	-
TN	Vallur TPP-II	NTECL	BHEL	U-3	500	500	-	500	28.02.14	-
TN	Neyveli TPS-II EXP	NLC	BHEL	U-2	250	250	-	250	24.01.15	-
TN	Tuticorin TPP	NTPL (JV NLC & TANGEDCO)	BHEL	U-1	500	500	-	500	10.03.15	-

State	Project Name	Impl Agency	Main Plant Equipment Supplier	Unit No	12th Plan Tar. Cap.	Cap. Ach. From Target (MW)	Add. Cap. Ach (MW)	Total cap. Ach. (MW)	Actual Comm.Date	Slipped
TN	Tuticorin TPP	NTPL (JV NLC & TANGEDCO)	BHEL	U-2	500	500	-	500	09.07.15	-
Tripura	Tripura Gas	ONGC	BHEL	Module-1	363.3	363.3	-	363.3	03.01.13	-
Tripura	Tripura Gas	OTPS	BHEL	Module-2	363.3	363.3	-	363.3	16.11.14	-
Tripura	Monarchak Gas Power Project	NEEPCO	BHEL	GT	65.4	65.4	-	65.4	30.03.15	-
Tripura	Monarchak CCPP	NEEPCO	BHEL	ST	35.6	35.6	-	35.6	14.01.16	-
Tripura	Agartala CCPP	NEEPCO	Thermax	ST-2 #	-	-	25.5	25.5	22.03.15	-
Tripura	Agartala CCPP	NEEPCO	Thermax	ST-I #	-	-	25.5	25.5	23.08.16	-
UP	Rihand STPS- III	NTPC	BHEL	U-6	500	500	-	500	07.10.13	-
UP	Rihand STPS- III	NTPC	BHEL	U-5	500	500	-	500	25.05.12	-
UP	Unchahar - IV	NTPC	BHEL	U-6 #	-	-	500	500	31.03.17	-
WB	Raghunathpur TPP Ph-I	DVC	Chinese	U-1	600	600	-	600	24.08.14	-
WB	Raghunathpur TPP,Ph-I	DVC	Chinese	U-2	600	600	-	600	18.01.16	-
				Total Central Sector	**14877.6**	**11897.6**	**3971**	**15868.6**		**2980**
STATE SECTOR										
AP	Damodaram Sanjeevaiah TPS	APPDL	BHEL / MHI	U-1	800	800	-	800	28.08.14	-
AP	Damodaram Sanjeevaiah TPS	APPDL	BHEL / MHI	U-2	800	800	-	800	17.03.15	-
AP	Rayalaseema St-IV	AP Genco	BHEL	U-6	600	-	-	-	-	600
Assam	Namrup CCGT	APGCL	BHEL	GT	63.85	62.25	-	62.25	11.01.17	-
Assam	Namrup CCGT	APGCL	BHEL	ST	36.15	-	-	-	-	36.15
Chhattisgarh	Korba West -St -III	CSPGCL	BHEL	U-5	500	500	-	500	22.03.13	-
Chhattisgarh	Marwa TPP	CSPGCL	BHEL	U-1	500	500	-	500	30.03.14	-
Chhattisgarh	Marwa TPP	CSPGCL	BHEL	U-2	500	500	-	500	15.07.16	-
Delhi	Pragati CCGT - III	PPCL	BHEL	GT-3	250	250	-	250	27.06.12	-
Delhi	Pragati CCGT - III	PPCL	BHEL	GT-4	250	250	-	250	07.05.13	-
Delhi	Pragati CCGT - III	PPCL	BHEL	ST-2	250	250	-	250	26.02.14	-
Gujarat	Pipavav CCPP	GSECL	BHEL	Block-2	351	351	-	351	27.03.13	-
Gujarat	Pipavav CCPP	GSECL	BHEL	Block-1	351	351	-	351	05.02.14	-
Gujarat	Ukai TPP Extn.	GSECL	BHEL	U-6	500	500	-	500	05.03.13	-
Gujarat	Dhuvaran CCPP-III	GSECL	Others	Block-1 #		-	376.1	376.1	21.05.14	
Gujarat	Sikka TPS Extn	GSECL	BHEL	U-3	250	250	-	250	28.03.15	-
Gujarat	Sikka TPS	GSECL	BHEL	U-4 #	-	-	250	250	25.09.15	-
Gujarat	Bhavnagar CFBC TPP	Bhavnagar Energy	BHEL	U-1 #	-	-	250	250	16.05.16	-
Gujarat	Bhavnagar CFBC TPP	Bhavnagar Energy	BHEL	U-2 #	-	-	250	250	27.03.17	-

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Karnataka	Bellary TPS St-III	KPCL	BHEL	U-3 #	-	-	700	700	01.03.16	-
Karnataka	Yermarus TPP	KPCL	BHEL	U-1 #	-	-	800	800	29.03.16	-
Karnataka	Yermarus TPP	KPCL	BHEL	U-2 #	-	-	800	800	29.03.17	-
Maharashtra	Chandrapur TPS	MSPGCL	BHEL	U-8	500	500	-	500	29.03.15	-
Maharashtra	Koradi TPS Extn	MSPGCL	L&T	U-8	660	660	-	660	30.03.15	-
Maharashtra	Koradi TPS Expn.	MSPGCL	L&T	U-9 #	-	-	660	660	15.03.16	-
Maharashtra	Koradi TPS Expn.	MSPGCL	L&T	10 #	-	-	660	660	28.12.16	-
Maharashtra	Chandrapur TPS	MSPGCL	BHEL	U-9 #	-	-	500	500	21.03.16	-
Maharashtra	Parli TPS	MSPGCL	BHEL	U-8	250	250	-	250	30.03.16	-
MP	Malwa TPP (Shree Singaji TPP)	MPGENCO	BHEL	U-2	600	600	-	600	15.10.14	-
MP	Malwa TPP (Shree Singa ji TPP)	MPGENCO	BHEL	U-1	600	600	-	600	18.11.13	-
MP	Satpura TPS Extn	MPPGCL	BHEL	U-10	250	250	-	250	22.03.13	-
MP	Satpura TPS Extn	MPPGCL	BHEL	U-11	250	250	-	250	25.12.13	-
Rajasthan	Ramgarh	RRVUNL	BHEL	GT	110	110	-	110	20.03.13	-
Rajasthan	Ramgarh CCPP Extn. -III	RRVUNL	BHEL	ST	50	50	-	50	01.05.14	-
Rajasthan	Chhabra TPS Extn.	RRVUNL	BHEL	U-3	250	250	-	250	14.09.13	-
Rajasthan	Chhabra TPS Extn.	RRVUNL	BHEL	U-4	250	250	-	250	30.06.14	-
Rajasthan	Kalisindh TPP	RRVUNL	Chinese	U-1	600	600	-	600	02.05.14	-
Rajasthan	Kalisindh TPP	RVUNL	Chinese	U-2 #	-	-	600	600	06.06.15	-
TN	North Chennai Extn	TNEB	BHEL	U-2	600	600	-	600	09.03.13	-
TN	North Chennai TPS Extn, U-1	TNEB	BHEL	U-1	600	600	-	600	13.09.13	-
TN	Mettur TPS Ext	TNEB	Chinese	U-1	600	600	-	600	11.10.12	-
Telangana	Singareni TPP	Singareni Collieries Co Ltd	BHEL	U-1 #	-	-	600	600	13.03.16	-
Telangana	Singareni TPP	Singareni Collieries Co Ltd	BHEL	U-2 #	-	-	600	600	25.11.16	-
Telangana	Kakatiya TPS Extn.	T GENCO	BHEL	U-1 #	-	-	600	600	31.12.15	-
Tripura	Rokhia CCPP	Govt.of Ttipura		GT-9 #	-	-	21	21	31.08.13	-
UP	Parichha Extn	UPRVUNL	BHEL	U-5	250	250	-	250	24.05.12	-
UP	Parichha Extn	UPRVUNL	BHEL	U-6	250	250	-	250	11.03.13	-
UP	Harduaganj Ext	UPRVUNL	BHEL	U-9	250	250	-	250	25.05.12	-
UP	Anpara-D TPS	UPRVUNL	BHEL	U- 6	500	500	-	500	06.06.15	-
UP	Anpara-D TPS	UPRVUNL	BHEL	U- 7	500	500	-	500	06.03.16	-
WB	Durgapur TPS Extn U-8	DPL	BHEL	U-8 #	-	-	250	250	31.03.14	-
WB	Sagardighi TPS-Extn	West Bengal	BHEL	U-3 #	-	-	500	500	14.12.15	-

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WB	Sagardighi TPS-Extn	West Bengal	BHEL	U-4 #	-	-	500	500	15.12.16	-
				Total State Sector	**13922**	**13284.25**	**8917.1**	**22201.4**	**0**	**636.15**
PRIVATE SECTOR										
AP	Simhapuri TPP Ph-I	Madhucon	Chinese	U-2	150	150	-	150	02.07.12	-
AP	Thamminapatnam TPP-I	Meenakshi	Chinese	U-1	150	150	-	150	09.09.12	-
AP	Thamminapatnam TPP-I	Meenakshi Energy Pvt. Ltd	Chinese	U-2	150	150	-	150	17.04.13	-
AP	Thamminapatnam TPP-II	Meenakshi Energy Pvt. Ltd	Chinese	U-3	350	-	-	-	-	350
AP	Thamminapatnam TPP-II	Meenakshi Energy Pvt. Ltd	Chinese	U-4	350	-	-	-	-	350
AP	Simhapuri Energy Pvt Ltd Ph-II	Madhucon Projects Ltd.	Chinese	U-3 #	-	-	150	150	21.02.14	-
AP	Simhapuri Ph-II	Simhapuri Energy Ltd.,	Chinese	U-4 #	-	-	150	150	06.03.15	-
AP	Bhavanapadu TPP Ph-I	East Coast Energy Ltd.	Chinese	U-1	660	-	-	-	-	660
AP	Bhavanapadu TPP Ph-I	East Coast Energy Ltd.	Chinese	U-2	660	-	-	-	-	660
AP	NCC TPP	NCC Power Project Ltd.	Chinese	U-1	660	660	-	660	12.11.16	-
AP	NCC TPP	NCC Power Project Ltd.	Chinese	U-2	660	660	-	660	15.02.17	-
AP	Painnampuram TPP	Thermal Power Tech Corp.Ltd.	Chinese	U-1	660	660	-	660	07.02.15	-
AP	Painampuram TPP	Thermal Power Tech Corp. Ltd	Chinese	U-2	660	660	-	660	03.09.15	-
AP	Vizag TPP	Hinduja National Power Corp. Ltd	BHEL	U-1	525	520	-	520	27.12.15	-
AP	Vizag TPP	Hinduja National Power Corp. Ltd	BHEL	U-2	525	520	-	520	30.03.16	-
AP	Lanco Kondapalli Extn. Ph-III (PS	Lanco Kondapalli Power Co.Ltd	Others	Block-I #	-	-	371	371	07.08.15	-
AP	Lanco Kondapalli Extn. Ph-III (PS)	Lanco Kondapalli Power Co.Ltd	Others	Block-II #	-	-	371	371	05.09.15	-
AP	Vemagiri CCPP-II (PS)	GMR Rajahmundry Energy Ltd.	Others	Block-I #	-	-	384	384	12.09.15	-
AP	Vemagiri CCPP-II (PS)	GMR Rajahmun dry Energy Ltd.	Others	Block-II #	-	-	384	384	05.10.15	-
Chattisgarh	Kasaipalli TPP	ACB	Chinese	U-2	135	135	-	135	21.06.12	-
Chattisgarh	Nawapara TPP	TRN energy Pvt.Ltd..	Chinese	U-1	300	300	-	300	14.08.16	-
Chattisgarh	Nawapara TPP	TRN energy Pvt.Ltd..	Chinese	U-2	300	-	-	-	-	300
Chhattisgarh	Ratija TPP	Spectrum Coal & Power Ltd	Chinese	U-1	50	50	-	50	03.02.13	-
Chhattisgarh	Ratija TPP -II	Spectrum Coal & Power Ltd	Non-BHEL	U-2 #	-	-	50	50	10.11.16	-
Chhattisgarh	Akaltara (Nariyara) TPP	Wardha PCL (KSK)	Chinese	U-1	600	600	-	600	13.08.13	-
Chhattisgarh	Akaltara (Naiyara) TPP	KSK Mahandi Power Co. Ltd	Chinese	U-2 (4th)	600	600	-	600	22.08.14	-
Chhattisgarh	Akaltara (Naiyara) TPP	KSK Mahandi Power Co. Ltd	Chinese	U-3	600	-	-	-	-	600
Chhattisgarh	Avantha Bhandar TPP, U-1	Korba West Power Co. Ltd.	BHEL	U-1	600	600	-	600	31.03.14	-
Chhattisgarh	Baradarha TPP	D.B. Power Ltd	BHEL	U-1	600	600	-	600	23.02.14	-
Chhattisgarh	Baradarha TPP	D.B. Power Ltd	BHEL	U-2	600	600	-	600	24.03.15	-

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Chhattisgarh	Chakabura TPP	ACB India	Non-BHEL	U-1#	-	-	30	30	28.03.14	-
Chhattisgarh	Tamnar TPP (Raigarh)	O.P.Jindal	BHEL	U-1	600	600	-	600	10.03.14	-
Chhattisgarh	Tamnar TPP (Raigarh)	O.P.Jindal	BHEL	U-2	600	600	-	600	30.03.14	-
Chhattisgarh	Tamnar (Raigarh) TPP	Jindal Power	BHEL	U-3 #	-	-	600	600	07.01.15	-
Chhattisgarh	Tamnar (Raigarh) TPP	Jindal Power	BHEL	U-4 #	-	-	600	600	26.03.15	-
Chhattisgarh	Salora TPP	M/s Vandana Vidyut	Chinese	U-1	135	135	-	135	10.04.14	-
Chhattisgarh	Salora TPP	M/s Vandana Vidyut	Chinese	U-2	135	-	-	-	-	135
Chhattisgarh	Raikheda TPP	GMR Chhattisgarh Power Ltd.	Doosan (Non-BHEL)	U-1 #	-	-	685	685	27.02.15	-
Chhattisgarh	Raikheda TPP	GMR	Doosan (Non-BHEL)	U-2 #	-	-	685	685	28.03.16	-
Chhattisgarh	Swastic TPP	ACB India	Others	U-1	25	25	-	25	31.03.15	-
Chhattisgarh	Bandakhar TPP	M/s Maruti Clean (Chhattisgarh) Ltd.	Chinese	U-1	300	300	-	300	19.06.15	-
Chhattisgarh	Uchpinda TPP	RKM Powergen Pvt. Ltd	Chinese	U-1	360	360	-	360	28.10.15	-
Chhattisgarh	Uchpinda TPP	RKM Powergen Pvt. Ltd	Chinese	U-2	360	360	-	360	28.01.16	-
Chhattisgarh	Uchpinda TPP	RKM Powergen Pvt. Ltd	Chinese	U-3	360	0	-	-	-	360
Chhattisgarh	Athena Singhitarai TPP	Athena	Chinese	U-1	600	-	-	-	-	600
Chhattisgarh	Binjkote TPP	SKS Power Gen	Chinese	U-1	300	-	-	-	-	300
Chhattisgarh	Binjkote TPP	SKS Power Gen	Chinese	U-2	300	-	-	-	-	300
Chhattisgarh	Binjkote TPP	SKS Power Gen	Chinese	U-3	300	-	-	-	-	300
Chhattisgarh	Lanco Amarkantak TPP-II	LAP Pvt. Ltd.	Chinese	U-3	660	-	-	-	-	660
Chhattisgarh	Lanco Amarkantak TPP-II	LAP Pvt. Ltd.	Chinese	U-4	660	-	-	-	-	660
Chhattisgarh	BALCO TPP	BALCO Pvt Ltd	Chinese	U-1	300	300	-	300	05.06.15	-
Chhattisgarh	BALCO TPP	BALCO Pvt Ltd	Chinese	U-2	300	300	-	300	24.03.16	-
Gujarat	Mundra UMTPP	Tata Power	Others	U-2	800	800	-	800	25.07.12	-
Gujarat	Mundra UMTPP	Tata Power	Others	U-3 #	-	-	800	800	16.10.12	-
Gujarat	Mundra UMTPP	Tata Power	Others	U-4 #	-	-	800	800	16.01.13	-
Gujarat	Mundra UMTPP	Tata Power	Others	U-5 #	-	-	800	800	18.03.13	-
Gujarat	Salaya TPP	EssarPower	Chinese	U-2	600	600		600	13.06.12	-
Gujarat	Uno sugen Mega CCPP	Torrent Energy Ltd	Others	Mod.I #	-	-	382.5	382.5	20.01.13	-
Gujarat	DGEN Mega CCPP	Torrent Energy Ltd	Others	Module-1 #		-	400	400	12.01.14	-
Gujarat	DGEN Mega CCPP	Torrent Energy Ltd	Others	Module-3 #		-	400	400	09.03.14	-
Gujarat	DGEN Mega CCPP	Torrent Energy Ltd	Others	Module-2 #		-	400	400	23.04.14	-
Haryana	Jajjar TPS(Mahatama Gandhi TPP)	CLP Power	Chinese	U-2	660	660	-	660	11.04.12	-

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Jharkhand	Adhunik Power TPP	Adhunik Power	BHEL	U-1	270	270	-	270	19.11.12	-
Jharkhand	Adhunik Power TPP	Adhunik Power	BHEL	U-2	270	270	-	270	29.03.13	-
Jharkhand	Matrishri Usha TPP Ph-I	Corporate Power Ltd.	BHEL	U-1	270	-	-	-	-	270
Jharkhand	Matrishri Usha TPP Ph-I	Corporate Power Ltd.	BHEL	U-2	270	-	-	-	-	270
Maharashtra	Butibori TPP	VIPL	Chinese	U-1	300	300	-	300	19.03.13	-
Maharashtra	Butibori TPP	VIPL	Chinese	U-2 #	-	-	300	300	17.08.12	-
Maharashtra	Bela TPP-I,	IEPL	BHEL	U-1	270	270	-	270	20.03.13	-
Maharashtra	EMCO Warora TPP,	EMCO GMR	Chinese	U-1	300	300	-	300	07.02.13	-
Maharashtra	EMCO Warora TPP,	EMCO GMR	Chinese	U-2	300	300	-	300	27.08.13	-
Maharashtra	Tirora TPP Ph-I,	Adani Power Ltd	Chinese	U-1	660	660	-	660	11.09.12	-
Maharashtra	Tirora TPP Ph-I,	Adani Power Ltd	Chinese	U-2	660	660	-	660	25.03.13	-
Maharashtra	Gupta Energy Power Ltd	Gupta Energy Power Ltd	Chinese	U-2	60	60	-	60	28.04.12	-
Maharashtra	Gupta Energy Power Ltd	Gupta Energy Power Ltd	Chinese	U-1	60	60	-	60	08.09.12	-
Maharashtra	Amaravati TPP Ph-I	Indiabulls	BHEL	U-1	270	270	-	270	25.03.13	-
Maharashtra	Amravati TPP Ph-I	India Bulls	BHEL	U-2	270	270	-	270	17.02.14	-
Maharashtra	Amravati TPP Ph-I	India Bulls	BHEL	U-3	270	270	-	270	29.01.15	-
Maharashtra	Amravati TPP Ph-I	India Bulls	BHEL	U-4	270	270	-	270	04.03.15	-
Maharashtra	Amravati TPP Ph-I	India Bulls	BHEL	U-5	270	270	-	270	12.03.15	-
Maharashtra	Dhariwal Infracture TPP	Dhariwal Infracture (P) Ltd	Chinese	U-1	300	300	-	300	03.11.13	-
Maharashtra	Dhariwal Infracture TPP	Dhariwal Infracture (P) Ltd	Chinese	U-2	300	300	-	300	28.05.14	-
Maharashtra	Nasik TPP Ph-I	Ratan India Nasik Power Ltd.	BHEL	U-1	270	270	-	270	25.02.14	-
Maharashtra	Nasik TPP Ph-I	Ratan India Nasik Power Ltd.	BHEL	U-2	270	270	-	270	15.02.17	-
Maharashtra	Nasik TPP Ph-I	Ratan India Nasik Power Ltd.	BHEL	U-3	270	-	-	-	-	270
Maharashtra	Nasik TPP Ph-I	Ratan India Nasik Power Ltd.	BHEL	U-4	270	-	-	-	-	270
Maharashtra	Nasik TPP Ph-I	Ratan India Nasik Power Ltd.	BHEL	U-5	270	-	-	-	-	270
Maharashtra	Tirora TPP Ph-II	Adani Power Ltd	Chinese	U-1	660	660	-	660	10.06.13	-
Maharashtra	Tirora TPP Ph-II	Adani Power Ltd	Chinese	U-2 #	-	-	660	660	23.03.14	-
Maharashtra	Tirora TPP Ph-II	Adani Power Ltd	Chinese	U-3 #	-	-	660	660	25.09.14	-
Maharashtra	Lanco Vidarbha TPP	Lanco Vidarbha	Chinese	U-1	660	-	-	-	-	660
Maharashtra	Lanco Vidarbha TPP	Lanco Vidarbha	Chinese	U-2	660	-	-	-	-	660
Maharashtra	Mangaon CCPP	PGPL	Others	Block-1#	-	-	388	388	14.07.16	-
MP	Nigri TPP	Jaiprakash Power Ventures Ltd	L&T/MHI	U-1 #	-	-	660	660	29.08.14	-

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MP	Nigri TPP	Jaiprakash Power Ventures Ltd	L&T/MHI	U-2 #	-	-	660	660	17.02.15	-
MP	Sasan UMPP	Reliance Power Ltd.	Chinese	U-1 #	-	-	660	660	21.05.14	-
MP	Sasan UMPP	Reliance Power Ltd.	Chinese	U-4 #	-	-	660	660	25.03.14	-
MP	Sasan UMPP	Reliance Power Ltd.	Chinese	U-5 #	-	-	660	660	24.08.14	-
MP	Sasan UMPP	Reliance Power Ltd.	Chinese	U-6 #	-	-	660	660	19.03.15	-
MP	Sasan UMPP	Reliance Power Ltd.	Chinese	U-2	660	660	-	660	18.12.13	-
MP	Sasan UMPP	Reliance Power Ltd.	Chinese	U-3	660	660	-	660	30.05.13	-
MP	BLA Power (Niwari) TPP	BLA Power Ltd	Non-BHEL	U-1 #	-	-	45	45	24.03.12	-
MP	Bina TPP,	Bina Power	BHEL	U-1	250	250	-	250	12.08.12	-
MP	Bina TPP,	Bina Power	BHEL	U-2	250	250	-	250	31.03.13	-
M.P.	Mahan TPP	Essar Power MP Ltd	Chinese	U-1 #	-	-	600	600	24.02.13	-
MP	Anuppur TPP Ph-I	MB Power(MP)	Chinese	U-1	600	600	-	600	20.04.15	-
MP	Anuppur TPP Ph-I	MB Power(MP)	Chinese	U-2	600	600	-	600	30.03.16	-
MP	Seioni TPP Ph-I	Jhabua Power Ltd	BHEL	U-1	600	600	-	600	22.03.16	-
MP	Gorgi TPP (D B Power)	DB Power Ltd	BHEL	U-1	660	-	-	-	-	660
Orissa	Sterlite TPP,	Sterlite	Chinese	U-4	600	600	-	600	25.04.12	-
Orissa	Lanco Babandh TPP	Lanco babandh Power Ltd.	Chinese	U-1	660	-	-	-	-	660
Orissa	Kamalanga TPP	GMR	Chinese	U-1	350	350	-	350	28.03.13	-
Orissa	Kamalanga TPP	GMR	Chinese	U-2	350	350	-	350	28.09.13	-
Orissa	Kamalanga TPP	GMR	Chinese	U-3	350	350	-	350	21.03.14	-
Orissa	Derang TPP	JITPL	BHEL	U-1	600	600	-	600	10.05.14	-
Orissa	Derang TPP	JITPL	BHEL	U-2 #	-	-	600	600	24.01.15	-
Orissa	Ind Bharat TPP (Orissa)	Ind Barath	Chinese	U-1	350	350	-	350	25.02.16	-
Orissa	Ind Bharat TPP (Orissa)	Ind Barath	Chinese	U-2	350	-	-	-	-	350
Orissa	KVK Neelanchal TPP	KVK Neelanchal	Chinese	U-1	350	-	-	-	-	350
Punjab	Talwandi Sabo TPP	M/s Sterlite	Chinese	U-1	660	660	-	660	17.06.14	-
Punjab	Talwandi Sabo TPP	Talwandi Sabo Power Ltd	Chinese	U-2	660	660	-	660	30.10.15	-
Punjab	Talwandi Sabo TPP	Talwandi Sabo Power Ltd	Chinese	U-3	660	660	-	660	29.03.16	-
Punjab	Rajpura TPP (Nabha)	Nabha Power Ltd	L&T	U-2	700	700	-	700	06.07.14	-
Punjab	Rajpura TPP (Nabha)	Nabha Power Ltd	BTG- L&T	U-1	700	700	-	700	24.01.14	-
Punjab	Goindwal Sahib TPP	GVK Power	BHEL	U-1	270	270	-	270	14.02.16	-
Punjab	Goindwal Sahib TPP	GVK Power	BHEL	U-2	270	270	-	270	15.03.16	-
Rajasthan	Jallipa-Kapurdi TPP,	Raj West	Chinese	U-5	135	135	-	135	05.02.13	-

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Rajasthan	Jallipa-Kapurdi TPP	Raj West	Chinese	U-6	135	135	-	135	03.03.13	-
Rajasthan	Jallipa-Kapurdi TPP	Raj West	Chinese	U-8 #	-	-	135	135	28.02.13	-
Rajasthan	Jallipa-Kapurdi TPP	Raj West	Chinese	U-7 #	-	-	135	135	16.03.13	-
Rajasthan	Kawai TPP	Adani Power Ltd.	Chinese	U-1 #	-	-	660	660	28.05.13	-
Rajasthan	Kawai TPP	Adani Power Ltd.	Chinese	U-2 #	-	-	660	660	24.12.13	-
TN	Tutucorin TPP -2 (Ind Barath)	Ind Barath	Chinese	U-1 #	-	-	150	150	10.03.13	-
TN	Tuticorin TPP (Ind barath)	Ind Barath	Chinese	U-2 #	-	-	150	150	30.12.13	-
TN	Tuticorin TPP-II (Ind barath)	IBPIL	Chinese	U-1	660	-	-	-	-	660
TN	Melamaruthur TPP	Coastal Energen	Chinese	U-1 #	-	-	600	600	02.12.14	-
TN	Melamaruthur (Mutiara)	Coastal Energen	Chinese	U-2 #	-	-	600	600	02.01.16	-
TN	ITPCL TPP	IL&FS TN PC.Ltd	Chinese	U-1 #	-	-	600	600	19.09.15	-
TN	ITPCL TPP	IL&FS TN PC.Ltd	Chinese	U-2 #	-	-	600	600	18.04.16	-
Uttrakhand	GAMA CCPP	M/s GAMA Infraprop Ltd.	Others	Module-1#		-	-	225	25.04.16	
Uttrakhand	Kashipur CCPP Ph-I	M/a Sravanthi Energy Pvt.Ltd	Others	Module-1#		-	-	225	20.11.16	
UP	Lalitpur TPP	Lalitpur Power Gen. Co. Ltd	BHEL	U-2 #	-	-	660	660	08.01.16	-
UP	Lalitpur TPP	Lalitpur power Gen. Co. Ltd	BHEL	U-1 #	-	-	660	660	26.03.16	-
UP	Lalitpur TPP	Lalitpur power Gen. Co. Ltd	BHEL	U-3#	-	-	660	660	01.04.16	-
UP	Prayagraj (Bara) TPP	Prayagraj power Gen. Co. Ltd (J.P.Power Ventures)	BHEL	U-1	660	660	-	660	25.12.15	-
UP	Prayagraj (Bara) TPP	Prayagraj power Gen. Co. Ltd (J.P.Power Ventures)	BHEL	U-2	660	660	-	660	06.09.2016	
UP	Prayagraj (Bara) TPP	Prayagraj power Gen. Co. Ltd (J.P.Power Ventures)	BHEL	U-3	660	-	-	-	-	660
WB	Haldia TPP-I	Haldia Energy Ltd	Chinese	U-1	300	300		300	14.01.15	-
	Haldia TPP-I	Haldia Energy Ltd	Chinese	U-2	300	300		300	16.02.15	-
Total Private Sector					**43540**	**31285**	**22375.5**	**53660.5**		**12245**
Total Commissioned during 12th Plan up to 31.03.17					**72339.6**	**56466.85**	**35263.6**	**91730.45**		**15861.15**
Note: # indicates the additional units commissioned which are not included in 12th Plan Target										
Difference of 11.60 MW is 10 MW in Vizag TPP (PS) and 1.6 MW in Namrup CCGT										

4.0 Thermal Power Projects Slipped from the 12th Plan Target with reasons for Slippage

State	Project Name	Impl Agency	Main Plant Equipment Supplier	Unit No	12th Plan Slipped Cap. (MW)	Reasons for Slippage
CENTRAL SECTOR						
Assam	Bongaigaon TPP	NTPC	BHEL	U-3	250	Frequent bandhs, Heavy monsoon and slow civil works. Delay in supply of material by BHEL. Work came to halt due to violence and mass exodus of labour from site in 2011-12. Civil works got affected due to poor performance by civil contractors resulting in to their contract cancellation. Balance civil and structural works awarded to NBCC on 29.09.14.
Bihar	Nabi Nagar TPP	NTPC	BHEL	U-2	250	Delay in acquisition of Land. Slow progress of works by main plant civil agency M/s ERA resulting in delay in handing over civil fronts to erection agencies. Delay in Supply of equipment by BHEL. Agitation by villagers. Patches of land could not be acquired because of unwillingness of people to accept compensation. Financial crunch faced by CHP vendor(Techpro).
Bihar	Nabi Nagar TPP	NTPC	BHEL	U-3	250	
Bihar	Nabi Nagar TPP	NTPC	BHEL	U-4	250	
Bihar	Barh STPP-I	NTPC	Others	U-1	660	Delay due to contractual dispute of NTPC with Power machine & Technopromexport, Russia. *Orig. Sch. was in 2009-10 & 2010-11. Delay in supply of boiler material and ordering of Bought out Items(BOIs)by M/s TPE due to financial constrant. M/s. TPE stopped work from 10/13. M/s TPE contract was terminated on 14.01.2015 by NTPC. Delay in supply of material and slow progress by M/s. Power Machine.
Bihar	Barh STPP-I	NTPC	Others	U-2	660	
Bihar	Barh STPP-I	NTPC	Others	U-3	660	
				Total Central Sector	**2980**	
STATE SECTOR						
AP	Rayalaseema St-IV	AP Genco	BHEL	U-6	600	Delay in start & completion of civil works and land acquisition. Delay in BoP works.
Assam	Namrup CCGT	APGCL	BHEL	ST	36.15	Delay in start and slow progress of of civil works, Termination of civil contractor. Poor soil conditions and heavy monsoon. Delay in supply of material by BHEL & shortage of skilled manpower. Termination of NBPL order. Delay in award of civil and Electrical, Mechanical & Instrumentation agency.
				Total State Sector	**636.15**	
PRIVATE SECTOR						
AP	Thamminapatnam TPP-II	Meenakshi Energy Pvt. Ltd	Chinese	U-3	350	Slow progress of Civil works. Due to financial problem, work at site remained closed for a long time.
AP	Thamminapatnam TPP-II	Meenakshi Energy Pvt. Ltd	Chinese	U-4	350	
AP	BhavanapaduTPPPh-I	East Coast Energy Ltd.	Chinese	U-1	660	Work remained under suspension due to MoE&F order for a long time. After restart works hampered due to two cyclones. Agitation against State bifurcation. Slow progress of work at site due to financial problems.
AP	BhavanapaduTPPPh-I	East Coast Energy Ltd.	Chinese	U-2	660	
Chattisgarh	Nawapara TPP	TRN energy Pvt.Ltd..	Chinese	U-2	300	Delay in start of civil works. Slow progress in erection works of boiler and T.G. Manpower shortage.
Chhattisgarh	Akaltara (Naiyara) TPP	KSK Mahandi Power Co. Ltd	Chinese	U-3	600	Shortage of manpower, Agitation by Villagers. Delay in supply of material due to fund contraints.
Chhattisgarh	Salora TPP	M/s Vandana Vidyut	Chinese	U-2	135	Delay in commissioning of unit-1. Agitation by vllagers at site. Delay in supply of BTG and CHP material. Non cooperation of BTG supplier in commissioning activities. Acquistion for railway siding and ash pond.
Chhattisgarh	Uchpinda TPP	RKM Powergen Pvt. Ltd	Chinese	U-3	360	Work suffered due to agitation by villagers. Slow progress of work at site. Delay in readiness of BOPs.Delay in readiness of start up power. Delay due to financial problem. Balance land acquistion for ash pond and Railway line siding. Consent to operate for U- 3 &4.
Chhattisgarh	Athena Singhitarai TPP	Athena	Chinese	U-1	600	Delay in land acquisition. Slow progress of Boiler & TG erection. Delay due to financial problems.
Chhattisgarh	Binjkote TPP	SKS Power Gen	Chinese	U-1	300	Delay in start of civil works. Slow progress of pressure parts erection. Balance land acquisition for ash dyke. Delay due to financial problems.
Chhattisgarh	Binjkote TPP	SKS Power Gen	Chinese	U-2	300	

State	Project Name	Impl Agency	Main Plant Equipment Supplier	Unit No	12th Plan Slipped Cap. (MW)	Reasons for Slippage
Chhattisgarh	Binjkote TPP	SKS Power Gen	Chinese	U-3	300	
Chhattisgarh	Lanco Amarkantak TPP-II	LAP Pvt. Ltd.	Chinese	U-3	660	Delay in acquisition of land for water system. Presently work is going slow at site due to financial problems.
Chhattisgarh	Lanco Amarkantak TPP-II	LAP Pvt. Ltd.	Chinese	U-4	660	
Jharkhand	Matrishri Usha TPP Ph-I	Corporate Power Ltd.	BHEL	U-1	270	Law and order problem. Delay in supply of BTG equipment. Delay in readiness of transmission line due to forest clearance. Work held up due to financial problems since Nov, 12.
Jharkhand	Matrishri Usha TPP Ph-I	Corporate Power Ltd.	BHEL	U-2	270	
Maharashtra	Nasik TPP Ph-I	Ratan India Nasik Power Ltd.	BHEL	U-3	270	Non-Acceptance of BTG material by Project Authorities. Work is going slow at site due to financial problems.
Maharashtra	Nasik TPP Ph-I	Ratan India Nasik Power Ltd.	BHEL	U-4	270	
Maharashtra	Nasik TPP Ph-I	Ratan India Nasik Power Ltd.	BHEL	U-5	270	
Maharashtra	Lanco Vidarbha TPP	Lanco Vidarbha	Chinese	U-1	660	Work is going slow at site due to financial problems
Maharashtra	Lanco Vidarbha TPP	Lanco Vidarbha	Chinese	U-2	660	
MP	Gorgi TPP (D B Power)	DB Power Ltd	BHEL	U-1	660	Order for main plant equipment has been placed. Work is on hold. Commissioning schedule would be assessed after re-start of work.
Orissa	Lanco Babandh TPP	Lanco babandh Power Ltd.	Chinese	U-1	660	Delay in land acquisition. Work is going slow at site due to financial problem.
Orissa	Ind Bharat TPP (Orissa)	Ind Barath	Chinese	U-2	350	Delay due to heavy rains. Delay in readiness of transimission line for start up power. Commissioning problems such as change of firing guns of boiler and change in bypass valve.
Orissa	KVK Neelanchal TPP	KVK Neelanchal	Chinese	U-1	350	
TN	Tuticorin TPP-II(Ind barath)	IBPIL	Chinese	U-1	660	Late start and slow progress of civil works and delay in supply of boiler structural material at site.
UP	Prayagraj (Bara) TPP	Prayagraj power Gen. Co. Ltd(J.P.Power Ventures)	BHEL	U-3	660	Delay in BTG supply, Raw water pipe line readiness and transmission line readiness for start up power. Progress of work at site delayed due to financial problems. Delay in Land Acqisition for railway siding and power evacuation.
		Total Private Sector			**12245**	
	Total Slippage from 12th Plan Target as on 31.03.17				**15861.15**	

5.0 THERMAL POWER PROJECTS UNDER CONSTRUCTION IN THE COUNTRY

(As on 16.02.2021)

S.No.	State	District	Project Name	LOA Date/ ordered date	Unit No	Cap. (MW)	Org. Comm. Sched.	Ant. TR. Sched./COD	Exp. In crores.	Till Date
		CENTRAL SECTOR								
1	*Bihar*	*Patna*	Barh STPP-I	Mar-05	U-1	660	Aug-09	Feb-21	18320.71	Jan-21
				Mar-05	U-2	660	Jun-10	Sep-21		
				Mar-05	U-3	660	Apr-11	Apr-22		
2	*Bihar*	*Aurangabad*	Nabi Nagar TPP	Jan-08	U-4	250	Nov-13	Apr-21	8680.05	Jan-21
3	*Bihar*	*Aurangabad*	New Nabi Nagar TPP	Jan-13	U-2	660	Jul-17	Feb-21	15384	Jan-21
				Jan-13	U-3	660	Jan-18	Jun-21		
4	*Jharkhand*	*Chatra*	North Karanpura STPP	Feb-14	U-1	660	Feb-18	Oct-21	11430.4	Jan-21
				Feb-14	U-2	660	Aug-18	Apr-22		
				Feb-14	U-3	660	Feb-19	Oct-22		
5	*Odisha*	*Sundergarh,*	Darlipalli STPP	Feb-14	U-2	800	Jun-18	Apr-21	11486.86	Jan-21
6	Telangana	Karim Nagar	Telangana STPP St- I	Feb-16	U-1	800	Jan-20	Jan-22	8125.04	Jan-21
				Feb-16	U-2	800	Jul-20	Mar-22		
7	*UP*	*Kanpur*	Tanda TPP St II	Sep-14	U-6	660	Mar-19	Mar-21	7966.63	Jan-21
8	*UP*	*Kanpur*	Ghatampur TPP	Aug-16	U-1	660	Apr-20	Oct-21	10909.5	Jan-21
				Aug-16	U-2	660	Oct-20	Feb-22		
				Aug-16	U-3	660	Oct-20	Jun-22		
9	Rajasthan	Bikaner	Barsingar TPP ext	Nov-16	U-1	250	May-20	Hold	158.25	Jan-21
10	Rajasthan	Bikaner	Bithnok TPP	Nov-16	U-1	250	May-20	Hold	173.82	Jan-21
11	*Jharkand*	*Ramgarh*	Patratu STPP	Mar-18	U-1	800	Jan-22	Sep-23	4016.71	Jan-21
				Mar-18	U-2	800	Sep-22	Mar-24		
				Mar-18	U-3	800	Dec-22	Sep-24		
12	*Odisha*	*Angul*	Rourkela PP-II Expansion	May-16	U-1	250	Dec-18	Mar-21	1720.71	Nov-20
13	*Uttar Pradesh*		Khurja SCTPP	Mar-19	U-1	660	Mar-23	Feb-24	1333.81	Jan-21
					U-2	660	Sep-23	Aug-24		
14	*Bihar*	*Buxar*	Buxar TPP	Jun-19	U-1	660	Jul-23	Jul-23	1344.02	Jan-21
					U-2	660	Jan-24	Jan-24		
	TOTAL CENTRAL SECTOR					**16360**				
		STATE SECTOR								
1	*A.P*	*Krishna*	Dr.Narla Tata Rao TPS St-V	Oct-15	U-1	800	Jun-19	Apr-21	5707	Jan-21
2	A.P	SPSR Nellore	Sri Damodaran Sanjeevaiah TPP St-II	Nov-15	U-1	800	Mar-19	May-21	6828.42	Jan-21
3	*Rajasthan*	*Ganganagar*	Suratgarh SCTPP	May-13	U-8	660	Dec-16	Mar-21	10551.87	Jan-21
4	*Telangana*	*Khammam*	Bhadradri TPP						7217.67	Jan-21

S.No.	State	District	Project Name	LOA Date/ ordered date	Unit No	Cap. (MW)	Org. Comm. Sched.	Ant. TR. Sched./COD	Exp. In crores.	Till Date
				Mar-15	U-3	270	Jul-17	Feb-21		
				Mar-15	U-4	270	Sep-17	Mar-21		
5	*TN*	*Thiruvallur*	Ennore exp. SCTPP	May-14	U-1	660	Jan-18	Uncertain	791.4	Dec-17
6	*TN*	*Thiruvallur*	Ennore SCTPP	Sep-14	U-1	660	Jan-18	May-22	4366.44	Jan-21
				Sep-14	U-2	660	Mar-18	Aug-22		
7	*TN*	*Thiruvallur*	North Chennai TPP St-III	Jan-16	U-1	800	Mar-19	Jun-21	6097.32	Jan-21
8	*TN*	*Ramnad*	Uppur Super Critical TPP	May-16	U-1	800	Mar-19	Sep-23	3038.24	Jan-21
				Feb-16	U-2	800	Oct-19	Apr-24		
9	*UP*	*Aligarh*	Harduaganj TPS Exp-II	Sep-15	U-1	660	Jun-19	Jun-21	4171.46	Jan-21
10	*Karnataka*	*Bangalore*	Yelahanka CCPP	Nov-15	GT+ST	370	Mar-18	Sep-21	1669.467	Jan-21
11	*UP*	*Etah*	Jawaharpur STPP	Dec-16	U-1	660	Sep-20	Nov-22	5596	Jan-21
				Dec-16	U-2	660	Jan-21	May-23		
12	*UP*	*Sonebhadra*	Obra-C STPP	Dec-16	U-1	660	Sep-20	Jan-23	4571.35	Dec-20
				Dec-16	U-2	660	Dec-20	May-23		
13	*Telangana*	*Nalgonda*	Yadadri TPS	Oct-17	U-1	800	Sep-20	Feb-23	8995.64	Jan-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		
14	*UP*	*Kanpur*	Panki TPS Extn.	Mar-18	U-1	660	Jan-22	Jan-22	2214.86	Jan-21
15	*TN*	*Thoothukudi*	Udangudi STPP Stage I	Dec-17	U-1	660	Feb-21	May-22	2432.55	Jan-21
					U-2	660	Feb-21	Jul-22		
16	*Maharashtra*	*Jalgaon*	Bhusawal TPS	Jan-18	U-6	660	Nov-21	Jun-22	1392.06	Jan-21
17	*West bengal*		Sagardighi Thermal Power Plant Ph-III	Jul-20	U-1	660		Jan-24		
		Total State Sector				**18150**				
		PRIVATE SECTOR								
1	*AP*	*Srikakulam*	Bhavanapadu TPP Ph-I	Sep-09	U-1	660	Oct-13	Uncertain	3785.6	Jan-16
				Sep-09	U-2	660	Mar-14	Uncertain		
2	*AP*	*SPSR Nellore*	Thamminapatnam TPP stage -II	Dec-09	U-3	350	May-12	Uncertain	5414.4	Feb-19
				Dec-09	U-4	350	Aug-12	Uncertain		
3	*Chhattisgarh*	*Janjgir-Champa*	Akaltara TPP	Apr-09	U-4	600	Apr-13	Uncertain	18730	Dec-16
				Apr-09	U-5	600	Aug-13	Uncertain		
				Apr-09	U-6	600	Dec-13	Uncertain		
4	Bihar	Banka Bihar	Siriya TPP	Mar-11	U-1	660	Aug-14	Uncertain	NA	
				Mar-11	U-2	660	Dec-14	Uncertain		
				Mar-11	U-3	660	Apr-15	Uncertain		

S.No.	State	District	Project Name	LOA Date/ ordered date	Unit No	Cap. (MW)	Org. Comm. Sched.	Ant. TR. Sched./COD	Exp. In crores.	Till Date
				Mar-11	U-4	660	Aug-15	Uncertain		
5	*Chhattisgarh*	*Raigarh,*	Binjkote TPP	Mar-11	U-3	300	Mar-14	Uncertain	3828	Jun-15
				Mar-11	U-4	300	Jun-14	Uncertain		
6	*Chhattisgarh*	*Korba*	Lanco Amarkantak TPP-II	Nov-09	U-3	660	Jan-12	Uncertain	9537.79	Dec-16
				Nov-09	U-4	660	Mar-12	Uncertain		
7	*Chhattisgarh*	*Janjgir-Champa*	Singhitarai TPP	Dec-09	U-1	600	Nov-14	Uncertain	6408.47	May-17
				Dec-09	U-2	600	Feb-15	Uncertain		
8	*Chhattisgarh*	*Korba*	Salora TPP	Sep-09	U-2	135	Sep-11	Uncertain	2386.89	Mar-15
9	*Chhattisgarh*	*Raigarh,*	Deveri (Visa) TPP	Jun-10	U-1	600	Aug-13	Uncertain	2077.23	Nov-15
10	*Jharkhand*	*Latehar*	Matrishri Usha TPP Ph-I	Dec-09	U-1	270	Apr-12	Uncertain	3120	Nov-12
				Dec-09	U-2	270	May-12	Uncertain		
11	*Jharkhand*	*Latehar*	Matrishri Usha TPP Ph-II	Mar-11	U-3	270	Oct-12	Uncertain	2207	Sep-12
				Mar-11	U-4	270	Jan-13	Uncertain		
12	*Jharkhand*	*Angarha*	Tori TPP Ph-I	Aug-08	U-1	600	Jul-12	Uncertain	4757.92	Jun-17
				Aug-08	U-2	600	Sep-12	Uncertain		
13	*Jharkhand*	*Angarha*	Tori TPP Ph-II		U-3	600	Dec-15	Uncertain	246.65	Mar-15
14	*Maharashtra*	*Amravati*	Amravati TPP Ph-II	Oct-10	U-1	270	Jul-14	Uncertain	763.8	Mar-15
				Oct-10	U-2	270	Sep-14	Uncertain		
				Oct-10	U-3	270	Nov-14	Uncertain		
				Oct-10	U-4	270	Jan-15	Uncertain		
				Oct-10	U-5	270	Mar-15	Uncertain		
15	*Maharashtra*	*Wardha*	Lanco Vidarbha TPP	Nov-09	U-1	660	Jul-14	Uncertain	5338	Apr-17
				Nov-09	U-2	660	Nov-14	Uncertain		
16	*Maharashtra*	*Nasik*	Nasik TPP Ph-II / Ratan India Nasik Power Pvt. Ltd. BTG-BHEL	Nov-09	U-1	270	Apr-13	Uncertain	711.81	Mar-15
				Nov-09	U-2	270	Jun-13	Uncertain		
				Nov-09	U-3	270	Aug-13	Uncertain		
				Nov-09	U-4	270	Oct-13	Uncertain		
				Nov-09	U-5	270	Dec-13	Uncertain		
17	*Maharashtra*	*Yavatmal*	Bijora Ghanmukh TPP	Sep-11	U-1	300	Dec-16	Uncertain	422.27	Mar-15
				Sep-11	U-2	300	Mar-17	Uncertain		
18	*Maharashtra*	*Dhule*	Shirpur TPP ,Shirpur Power Pvt. Ltd.-BHEL	Nov-11	U-2	150	Apr-15	Uncertain	2277.94	Apr-17
19	*MP*	*Singrauli*	Gorgi TPP	Mar-11	U-1	660	Jun-13	Uncertain	475.79	Sep-15
20	*Odisha*	*Jharsuguda*	Ind Barath TPP (Odisha)	May-09	U-2	350	Dec-11	Uncertain	4254	Apr-17
21	*Odisha*	*Dhenkanal*	KVK Nilanchal TPP	Nov-09	U-1	350	Dec-11	Uncertain	1708.36	Mar-15
				Nov-09	U-2	350	Feb-12	Uncertain		
				Nov-09	U-3	350	Feb-12	Uncertain		

S.No.	State	District	Project Name	LOA Date/ ordered date	Unit No	Cap. (MW)	Org. Comm. Sched.	Ant. TR. Sched./COD	Exp. In crores.	Till Date
22	*Odisha*	*Dhenkanal*	Lanco Babandh TPP	Nov-09	U-1	660	Apr-13	Uncertain	7615	Mar-17
				Nov-09	U-2	660	Aug-13	Uncertain		
23	*Odisha*	*Angul*	Malibrahmani TPP	Jun-10	U-1	525	Dec-12	Uncertain	5329.75	Dec-14
				Jun-10	U-2	525	Feb-13	Uncertain		
24	*TN*	*Tuticorin*	Tuticorin TPP	May-10	U-1	660	May-12	Uncertain	2000	May-15
25	*TN*	*Tuticorin*	Tuticorin TPP St-IV	Jan-14	U-1	525	Sep-18	Mar-21	3521.97	Jan-21
26	*WB*	*East Medinipur*	Hiranmaye Energy Ltd	Sep-10	U-3	150	May-16	Uncertain	3263.05	Oct-17
	Total Private Sector					**23730**				
	Grand Total					**58240.00**				

BROAD STATUS

Of

THERMAL POWER PROJECTS

CENTRAL SECTOR

CENTRAL SECTOR THERMAL POWER PROJECTS (NTPC Limited)

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. **TG:** TG erection started in 03/12. Condenser ererction 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. **AHP:** Erection of ash water pumps, vacuum pumps, 3 Nos. FAE tower structures 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 piliing is i/p.**
	U-1	**660**	03/09 08/09 05/17* 05/17*	06/17	**27.09.20(A)** 02/21	02/21 -	
	U-2	**660**	01/10 06/10 11/17* 11/17*	12/17	07/21 08/21	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. 823.06 Crores					
	Cumulative Exp	: Rs 18320.71 Crs (up to (01/21)					
	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 03 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					

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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						
2.	**Nabinagar TPP, Dist: Aurangabad, Bihar [BRBCL-Bhartiya Rail Bijlee Co. Ltd. (JV of NTPC & Indian Railways)]**	**1000**					**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. WT 1&2 – Commissioned. SR-2 Balance civil & mech work i/p. Track hopper work in progress. • **AHP (Indure):** AWPH 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. • **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**: • **FO HS**: 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.**
	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 04/21	04/21 -	
	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 387.61 Crores					
	2020-21	:Rs 197.27 Crores					
	Total Expenditure	**: Rs 8680.05** Crores **(01/21)**					
	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.** • **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 and U#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 land and ownership disputes in Main Plant 21.372, MUW corridor 0.190, 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.					

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/Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / Anticiciapted		
			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. **Unit-2: Synchronised with oil on 12.02.2020** **Boiler:** Boiler erection started on 29.11.14. Hydro test completed. Boiler light up on 15.09.19. SBO completed on 24.12.19. **TG:** TG raft casting completed.TG erection started in 12/16.TG boxed-up in 07/17. TG put on barring gear.TG oil flushing completed in 02/18. **ESP:** All SIX passes ATT done. **Unit-3:** **Boiler:** Boiler erection started on 29.04.2015. Hydro test on 04.07.19 **TG:** TG erection started on 31.07.17. TG box up completed in 06/18.condenser erection started in 06/17. TG put on barring gear on 26.06.19. **ESP:** 7380/9253 work completed. Inlet duct i/p. panel shifting i/p. **BOPs:** • **Chimney:** Chimney-1(Unit-1) & Chimney-2 (Unit-2&3) shell casting completed. Flue can erection completed for U-1, 2 & 3. Both chimneys (all the three units)are ready. • **CHP:** Order has been placed on M/s TRF Ltd in March'13. Coal Transportation-2nos NPGC Loco Trial Run from Warf Wall to R&D and R&D yard to Inside plant completed on 25.05.18 Rail laying 6.5 km completed. WT-1&3 commissioned.WT-2 comm.Track hopper civil work completed, mech erection i/p.. , Stacker cum reclaimer, Crusher house work has been completed. • **AHP: U-1 :** Fly Ash water pump house work completed. BASPH motors no load trail run completed, HCSD pump trail run completed. Bottom ash hopper system comm. HCSD pump house and silo comm.. Pump house is common for all three units. • **DM plant:** Order placed on M/s Thermax in Jan'14. All the three streams charged manually. Work for all three streams completed for auto mode. • **CW pump house:** All three units trial is completed for 2/2 each unit.. RWPH2/3PT pump comm. CWPH 2/2 motors trail done. • **CTs:** CT-1A , 1B & Aux CT : Commissioned. λ CT # 2A:- Commissioned. λ CT # 2B:- Civil work completed. HW piping work -header erection • **Switchyard:** 132kV &.400kV switchyard charged..Power evacuation line(400kV) nabinagar-Gaya line charged.ICT 1& 2 charged. **FGD: order placed to BHEL on 14.06.19. Topographical survey completed on 04.11.2019. Borehole completed on 08.12.2019.**
	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 2009-10 2010-11 2011-12 2012-13 2013-14 2014-15 2015-16 2016-17 2017-18 2018-19 2019-20 2020-21	:Rs 0.10 Crores :Rs 222.90 Crores :Rs 83.00 Crores :Rs 383.92 Crores :Rs 711.17 Crores :Rs 369.91 Crores :Rs 1534.32 Crores :Rs 2697.12 Crores :Rs 3070.00 Crores :Rs 2265.00 Crores Rs 1786.00 Crores : Rs 1373.21 Crores :Rs. 869.39 Crores					
	Cum. Exp up to	**Rs 15384 Crores (01/20)**					
	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 MUW corridor, 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 23.02.21

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						
4	**Lara STPP, Dist: Raigarh, Chhattisgarh**	**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#1 and U#2. Wagon tippler trial operation with loaded rake is completed. Stacker reclaimer 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.**
	(NTPC Ltd.) 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 Latest. App.Est. Cost Est cost upto 2020-21	: Rs 11846.00 Crores : Rs 12739.82 Crores Rs 14121.88 Crores					
	Exp.During 2011-12 2012-13 2013-14 2014-15 2015-16 2016-17 2017-18 2018-19 2019-20 2020-21	: Rs 280.0 Crores : Rs 77 3.00 Crores : Rs 535.00 Crores : Rs 2147.00 Crores : Rs 2383.00 Crores : Rs 1900.00 Crores : Rs.1512.00 Crores : Rs 1988.29 Crores \ Rs 1900.58 Crores Rs 148.95 Crores					
	Cum Exp	**: Rs 13722.66 Crores (up to 06/20)**					
	Type of fuel	**: Coal**					
	Fuel linkage						
	Date of Main Plant Order (BTG) Zero Date	SG- M/s Doosan, in Dec'12 TG - M/s BGR Hitachi in Dec'12 13.12.2012					
	Power Evacuation	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 **66kV transmission** line coprridors 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. **TG:** TG civil work started in 04/16, TG erection started in 11/17.Condensor erction started in 11/18. TGBox 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 erction 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. during2013-14 2014-15 2015-16 2016-17 2017-18 2018-19 2019-20 2020-21	: Rs. 1530.00 Crores : Rs. 525.00 Crores : Rs. 573.00 Crores : Rs. 2208.00 Crores : Rs. 2042.00 Crores : Rs. 1699.13 Crores Rs. 1712.99 Crores Rs. 1001.53 Crores					
	Cumulative Exp	**: Rs. 11430.4 Crores (up to 01/21)**					
	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 inb civil work due to land acquisiotion 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 23.02.21

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						
6	**Kudgi STPP ST-I, Dist: Bijapur, Karnataka, NTPC Ltd.**	**2400**					**Unit-1: COD achieved on 31.07.2017. Commissioned on 25.12.2016.** **Boiler:** Boiler erection started on 04.05.13. Boiler hydro test done in 01/15. BLU done in 12/15. SBO completed on 12.06.16. **TG:** Condenser erection started in 02/14. TG erection started in Jun'14. TG box-up done on 24.04.2015. TG oil flushing started in Jun'15 and completed in 11/15. TG put on barring gear in 12/15. **Full Load achieved** on **25.12.2016**. **Unit-2: COD achieved on 31.12.2017. Commissioned on 22.03.2017.** **Boiler:** Boiler erection commenced on 20.08.13. Boiler hydro test done in 08/15. BLU done in 10/16.SBO completion achieved in 01/17. **TG:** Condenser erection started on 14.11.14.TG erection started in 03/15. TG box-up done in 01/16. TG oil flushing done in 11/16 **Unit-3: Commissioned on 12.03.2018. Synchronized in 08/17.** **Boiler:** Boiler erection started in 09/13. Boiler Hydro test done in 03/16. BLU done in 04/17. SBO completed in 06/17. **Unit synchronized on oil on 22.08.17. Full load achieved on 12th March 18.** **TG:** Condenser & TG erection started in 09/15. TG box-up done in 01/17.TG oil Flushing done in 01/17.Turbine rolled. **BOPs:** **Chimney:** Chimney-1 (for unit-1) & Chimney-2 (for unit-2&3) Shell casting works completed. **CHP:** The progress of CHP is slow. Only structural work of transfer points, conveyor galleries and crusher house etc. are in progress. Civil works have been started in WT4 & WT5. Erection of mechanical equipment are yet to be started. Requirement for U#1 & U#2 services completed and U#3 portion works in progress. M/s. Energo contract terminated in Oct 17. **AHP**: Order placed on McNally Bharat in Aug'13. Ash Dyke package awarded to M/s Sunil Hitech in 09/15. Requirement for U#1 & U#2 services completed and U#3 portion works in progress **CW system**: Out of total 7 CW pumps, 2 CW pumps have been commissioned- to meet requirement of unit- 1. Another 2 pumps have been installed and their motors are available at site. Pump & motors for last 3 CWPs are available at site and these are yet to be installed. **IDCTs**: Requirement for U#1 & U#2 services completed and U#3: IDCT #3 B & IDCT #3A charged. **FGD: order placed to ISGEC on 31.07.18**
	U-1	800	09/15 12/15	04/16	**12/16(A)** **25.12.16(A)**	**-** **31.07.17(A)**	
	U-2	800	03/16 06/16	10/16	**03/17(A)** **22.03.17(A)**	**-** **31.12.17(A)**	
	U-3	800	09/16 12/16	04/17	**08/17(A)** **12.03.18(A)**	- -	
	Orig.Est. cost Latest.Est. Cost	: Rs 15166.19 lakhs Crores : Rs 15166.19 lakhs Crores					
	Exp.During 2011-12 2012-13 2013-14 2014-15 2015-16 2016-17 2017-18	: Rs 192.00 Crores : Rs 1304.00 Crores : Rs 2277.00 Crores : Rs 4047.00. Crores : Rs 2800.00 Crores : Rs 2560.00 Crores : Rs. 2098..00 Crores **(2/18)**					
	Cum Exp	**:Rs 1508.00** Crores **(up to 2/18)**					
	Invest. Approval	:Dec'2011.					
	Sanctioning Authority	: NTPC Board					
	Type of fuel	: Coal					
	Coal block	Bhalumuda Captive coal block					
	Zero Date	25.01.2012					
	Date of Main Plant Order	SG: Feb'12, M/s Doosan Heavy Ind., Korea TG: Feb'12 on M/s Toshiba					
Critical Areas	Land acquisition for Railway siding, ash pipe corridor, raw water reservoir. Poor progress of main plant civil works Readiness of railway siding.						
Reasons for Delay	Stoppage of work on account of NGT order–work stopped from 17.03.2014 to 01.04.2014. Work stoppage due to agitation against the project (05.07.2014 to 22.07.2014). Delay in award of SG civil works. Delay in TG erection start. Unrest and violent agitation in 07/14 with exodus of manpower. Delay in supply of generator stator of Unit #2 &3 by M/s Toshiba. Supply of material against CHP-Energo, AHP- MBECL, ESP-L&T and FDPS & slow progress.						

MK 20.06.2020

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	**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: Trail run completed on 16.02.21. Taken into cap addition on 16.02.21. Full load is achieved on 19.01.21. Unit Synchronized on 26.08.20.** **Boiler: Boiler** erection started in 30th 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)** -
		Investment Approval	: 22.02.2013				
		Sanctioning Authority	: NTPC Board				
		Orig.Est. cost Latest.Est. Cost	: Rs 11638.55 Crores : Rs 12865.92 Crores /15105.22Crore				
		Exp.During 2012-13 2013-14 2014-15 2015-16 2016-17 2017-18 2018-19 2019-20 2020-21	: Rs 655.00 Crores : Rs 463.00 Crores : Rs 1614.00 Crores : Rs 2749.00 Crores : Rs 1988.00 Crores : Rs 1556.00 Crores : Rs 1914.61 Crores Rs 1475.31 Crores Rs 162.08 Crores Rs 633.63 Crore				
		Cumulative Exp	**: Rs 13630.89** Crores **(upto 1/21)**				
		Type of fuel	: Coal				
		Fuel linkage					
		Date of Main Plant Order (BTG) Zero Date	in 03/2013 M/s BHEL, Main plant & offsite civil works order placed in 08/13. 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 days in 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						
8	**Darlipalli STPP ST-I, Dist. Sundergarh, Odisha (NTPC Ltd.)**	**1600**					**Unit-1: COD declaredin 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)competed. 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 AWPH foundations completed. Supply of material from Indure is pending. **Ash Dyke:** Lagoon1, 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 & CWPH 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. **Switchyard:** 765kV one bay and 132kV switchyard charged for startup power. **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 Latest. Est. Cost	: Rs 12532.44 Crores. : Rs 13740.53 Crores. (Jan 2014)					
	Exp. During 2013-14 2014- 15 2015-16 2016-17 2017-18 2018-19 2019-20 2020-21	:Rs. 951.00 Crores. :Rs 1457.00 Crores. :Rs 1417.00 Crores. :Rs 2384.00 Crores. :Rs 2100.00 Crores. :Rs 1531.66 Crores. Rs 991.99 Crores. Rs. 1620.08 Crores Rs. 560.35Crores					
	Cumulative Exp	**:Rs 11486.86 Crores (up to 01/21)**					
	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 ot 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 fro TG Deck floating.					

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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.	**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. **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. **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:** TPs 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 footing casting 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. **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 Latest.Est. Cost	: Rs 10599.00 Crores : Rs 11811.00 Crores					
	Exp. During 2015-16 2016-17 2017-18 2018-19 2019-20 2020-21	: Rs. 6.00 Crores : Rs 807.00 Crores : Rs. 1035.00 Crores : Rs. 2522.06 Crores Rs 2537.67 Crores Rs 1122.72 Crores					
	Cumulative Exp	**: Rs. 8125.04** Crores **(up to 01/21)**					
	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. • Chimney liner supply and fabrication work, chimney platform supply & errection work is critical.
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 23.02.21

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						
10.	**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 11th 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. **Unit-2: Trail Run completed on 12.01.21. Taken into capacity addition on 12.01.21. Achieved full load on 26.11.20. Unit synchronized on 14.09.20.** **Boiler:** Boiler erection started on 20.06.14 (Delay 06 months). All mill and bunker foundations completed. SBO completed on 18.01.2020 **TG:** TG Deck casting completed. Condenser erection started in 11/15. TG erection started on 30/01/18. **ESP: U #1-**All Pass ATT & purge system piping done. Insulation & cladding works for A,B & C pass completed. 62/96 rectifier transformer filtration done. A,B pass field test charged. U#2- Erection commenced on 19.02.15 **BOPs:** **Chimney:** Chimney shell concreting completed. Flue can erection & Mini cell done completed, Outer platform RCC done. Painting works done. Wind stack fixing -6/39 done, Lift erected. **CHP:** Order placed on BHEL-ISG in Apr'12. Structure erection of TP-1,2,3,4,5,11 & 12 completed and CRUSHER house in progress. WT-B: Flushing completed of WT-2 WT-A: Oil flushing -Piping work i/p. **AHP:** Order placed on Techpro in 07/12. Ash Water P/H. Pumps foundations completed. Ash Slurry P/H- -RCC & Bricks works completed. Pumps foundations completed. Pump erection started. Ash disposal pipe laying in side plant- -Pipe Laying started in May'16 inside plant. 25 Km pipe supplied. Inside pipe laying done **CWPs:** Order placed on Flowmore in 12/14. Gantry commissioned. Two no's pump commissioned. 3rd Erection in progress. **IDCTs:** Order placed on Fans A S in May'12. Aux CT- 2/3 Fans commissioned. Balance One fan ready for commissioning. CT 1A: All 16 fans commissioned. CT 1B: 6/16 no's fan commissioned, Balance cabling works in progress. Civil works completed, fill erection done, motor & gear box placed on fdns. Painting & drift eliminators works competed. CT 2B: Civil works completed, Hot water pipe risers erection in progress. CT 2A: Civil works- All fan deck slab done & 14/16 fan stack rcc completed. Railway siding: Order placed on M/s RITES. This work is split in to 07 no of packages and all packages are awarded. Further, works are in progress. **Switchyard:** Completed. Startup Power charged by Allahabad line-1 on 12.11.16 **FGD: order placed to GE on 20.09.18**
	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 2009-10 2010-11 2011-12 2012-13 2013-14 2014-15 2015-16 2016-17 2017-18 2018-19 2019-20 2020-21	:Rs 54.01 Crores :Rs 41.51 Crores :Rs 61.43 Crores :Rs 65.42 Crores :Rs 862.87 Crores :Rs 565.90 Crores :Rs 1624.20 Crores :Rs 1803.86 Crores :Rs 715.83 Crores :Rs 2005.97 Crores :Rs 848.00 Crores : Rs. 748.00 Crores : 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						
Critical Areas	Balance land for railway siding-Village Lehdi 22.12 acres for laying 1.8 km track & Other 0.75 KM in assorted patches in different villages. Various Clearances from Indian Railway and DFCIL to be taken by Rites at the earliest: · Clearance from Railways for Connection of Meja Siding with IR Tracks at Meja and Unchdih. Approval of Girder Launching Scheme for ROR & Block for launching from Railways. Approval of General Arrangement Drawing (GAD) of Rail Over Rail Bridge (ROR) and ViaDuct from Railways. · Approval of Girder Launching Scheme for ROR & Block for launching from Railways. Shifting of UPTCL and Power Grid Transmission lines 4 nos each 132/400 KV. CHP, LHP readiness is critical						
Reasons for Delay	• Work stopped due to COVID pandemic. • Delay in supply of boiler material by M/s BGR due to non-settlement of QSGM between BGR and Hitachi. • Slow progress of main plant civil works. • Land acquisition for railway corridors. • Dealy in AHP M/s Techpro), physical possession of 0.14 acre land for rilway siding. • Poor performance o f amin palnt civil work agency(M/s IVRCL)						

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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	**Tanda-II STPP, Dist. Ambedkar Nagar, 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. 44612/45610 MT structur erection done. BLU completed in 10/20. **TG:** TG erection started in 12/18.Condenser erection started in 10/18. TG boxed up in 03/19. TG oil flushing in 01/2020. LP & integral piping WIP.Steam blowing completed in 02/21. **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 WT and 1 Reclaimer, wip **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 AWPH, ASPH, HCSDPH and TACH &HCSD silo completed. **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 KBL 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.**
	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 /10016.10 Crores					
	Exp. During 2013-14 2014-15 2015-16 2016-17 2017-18 2018-19 2019-20 2020-21	: Rs 280.00 Crores : Rs. 298.00 Crores : Rs 649.00 Crores : Rs 1413.00 Crores : Rs 1671.12 Crores : Rs 1553.25 Crores Rs 1419.53 Crores Rs 574.85 Crores					
	Cumulative Exp	**: Rs 7966.63 Crores (up to 01/21)**					
	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.					

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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.	**PatratuTPS, Imp.Agency-PVUNL Dist: Jharkhand. (JV of NTPC & Govt. of Jharkhand)]**	**2400**					**Unit-1:** **Boiler**: Boiler erection started on 27.08.19. **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#1Work started on 20.07.18,. Present height is 236 m. Chimney#2 work started on 20.07.18. Present height is 40 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. Tower Foundation work in progress **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 06/23	- 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 Exp.During 2018-19 Exp.During 2018-19 Exp.During 2019-20 Exp.During 2020-21	:Rs. 992.11 Crores :Rs. 485.18 Crores :Rs. 1212.8 Crores :Rs. 1112.10 Crores Rs. 1025.07 Crores					
	Cumulative Exp.	**Rs 4016.71 Crore (01/21)**					
	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.
Reasons for Delay	• Work stopped wef 23.03.2020 due to COVID pandemic. • Delay in award of Air Cooler Condenser (ACC) Mech Pkg (LOI placed in Dec'19 with delay of 15 months), ACC Civil Package, Dry bottom ash hopper and EOT crane. Re-awarding of AHP. • 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. • Acquisition of Balance land of 34.97acres fro Ash dyke -2.269acre fro rqailway siding, 14.09 acre for infrastructure facilty. • Debt funging problem from REC.

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			Original		Actual(A) / As now Expected		
			Syn. Com	Trail run COD	Syn. Com	Trail run COD	
	Central Sector						
13	**Rourkela PP-II Expension,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. 11500/12000 MT erection done. All joints (1716) done for non-drainable hydro. All 834 Reheater joints and 734/978 critical piping joints done. Both APH-A & B centre section & modules and APH-B rotor erected. Boiler light up done on19.11.20 **ESP**: 3875/4000 MT erection done. Electrode erection completed in all Passes. *Pass-A & B:* hoppers and roof canopy structure erected, ATT done and ash collection system erection in progress along with insulation work *Pass-C:* ATT done. hopper lower part welding done. *Pass D:* shock bar erection done.HVR transformer erection completed in pass A,B&C. **TG:** TG civil work started on 02.03.17. Condenser erection started on 28.12.17. TG erection started on 27.11. 18. **BOPs:** **Chimney**: Shell casting completed on 30.03.18. All External platform casting completed. Chimney shell internal painting completed. Flue can erection is completed. Erection of Flue Duct inside chimney is in progress. **CHP:** *ERH-1&2:* ERH-1 & ERH-2 erection completed up to roof truss level & top gratings erected. ERH-2 ground portal pedestal casting completed. *Crusher house:* All 28 columns up to 4th 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. **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 5 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:** GIS control room & GIS Building slab casting completed. Station transformer grade slab, cable trench raft and oil trench side wall cast. UAT foundation completed up to top lift. **FGD: Fresh tender to be floated (earlier cancelled).**
	U-1	250	- 09/18	12/18	03/21 03/21	03/21 03/21	
	Investment Approval	: 14.09.15					
	Orig.Est. cost Latest.Est. Cost	: Rs 1885.13 Crores Rs 1885.13 Crores					
	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 163.76 Crores					
	Cumulative Exp	**: Rs 1720.71 Crores(upto 11/20)**					
	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 23.02.21

BROAD STATUS OF CENTRAL SECTOR THERMAL POWER PROJECTS

(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 Synchrinisation on 28.03.2019.** **Boiler** (M/s BHEL) Civil work srtart 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 srtart 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. CWPH: 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 Latest est approval	: Rs. 7080.41 Crores (Base-Fab 2018) :Rs. 7980.79 Cr					
	Expenditure during 2011-12 2012-13 2013-14 2014-15 2015-16 2016-17 2017-18 2018-19 2019-20 2020-21	: Rs. 14.4715 Crores : Rs. 13.5319 Crores : Rs. 311.1426 Crores : Rs. 445.6023 Crores : Rs. 1028.6206 Crores : Rs. 1933.3514 Crores : Rs. 1099.3654 Crores : Rs. 739.9544 Crores : Rs. 728.43 Crores 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,400kV and 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 resourses 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.

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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 reclaimer, 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 completd. **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	10/21	
	U-2	660	09/20 10/20	05/21	12/21 02/22	02/22	
	U-3	660	03/21 04/21	11/21	03/22 06/22	06/22	
	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. 1710.3 Cr					
	Cumulative Exp	:Rs. 10909.5 Cr (up to 01/21)					
	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 36th 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 Balalnce land (41.01 hectares) for railway siding is pending.
Reasons for Delay	• Work stopped wef 23.03.2020 due to COVID Pandemic.

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Sl. No	PROJECT DETAILS	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual (A) / As Expected		
				Syn. Comm	COD	Syn. Comm	COD	
Central Sector								
3	**Barsingsar TPP ext (Distt. Bikaner)** **(250 MW)**	U-1	250	05/20	08/20 08/20	Uncertain	Uncertain	• Detailed engineering work and vendor' approval is in progress • R-infra has established their site office at BTPSE. • The package activities at BTPSE are yet to start. • Soil investigation work was completed. **Project activities are under hold from 02/06/2017 due to withdrawl of PPA by DISCOMS.**

Estimated cost	Rs. 2112.59 Crores
Exp. During 2017-18	Rs. 154.70 Crores
Exp. During 2018-19	Rs. 3.6724 Crores
Exp. During 2019-20	
Total Exp	Rs. **Rs 158.2538 Crores (up to 01/21)**
Zero Date of Project	: 21/11/2016
Financial Closure	Under progress
Main Plant order Date	EPC contract to M/s Reliance Infra..
Type of Fuel	Lignite
Fuel linkage	Halda Lignite Mine 1.90 MTA (original cost is Rs. 522.45 Cr.)
PPA	Signed with GoR on 31/12/2010
Power evacuation system	Through two No. S/C 220 kV transmission lines viz (i) BTPSE- Gajner (ii) BTPSE-Bikaner, to be executed by RVPNL

Water: Water supply agreement signed on 08/10/03 b/w Indira Gandhi Nahar Pariyojna, GoR and NLC
Land: Land is in procession of NLC and the proposed plant is being constructed with in the existing 2x125MW Barsingsar TPP
MOE&F clearance: EC for mines granted on 21/10/13. EC for thermal granted on 30/07/12
Civil Aviation: NOC obtained on 23/01/2012

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Uncertain

Critical Issues	
Reasons for delay	GoR had informed that due to increased project cost and time over run, Rajasthan Discom will not be in position to buy the power from BTPSE. NLCIL had replied that delay is due to acquisition of land for linked mine by GoR and informed to review the decision. Matter is pending with GoR. Project activities are under hold from 02/06/2017.

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Sl. No	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual (A) / As Expected		
			Syn. Comm	COD	Syn. Comm	COD	
Central Sector							
4	**Bithnok TPP** Distt. Bikaner, Rajasthan						• R-infra has established their site office at Bithnok. • The package activities at Bithnok are yet to start. **Project activities are under hold from 02/06/2017**
	U-1	250	05/20 08/20	08/20	Uncertain	Uncertain	
	Estimated cost (M/Y)	: Rs. 2196.30 Crores					
	Exp. During 2017-18	: Rs. 169.7948 Crores					
	Exp. During 2018-19	: Rs. 3.6762 Crores					
	Exp. During 2019-20						
	Total Exp	: Rs. 173.82 Crores (up to 01/21)					
	Zero Date of Project	: 21/11/2016					
	Financial Closure	: Under progress					
	Main Plant order Date	: EPC contract to M/s Reliance Infra.					
	Type of Fuel	: Lignite, Bithnok Lignite Mine 2.25MTA (Original cost is Rs. 513.63 Cr.)					
	PPA	: Signed with GoR on 31/12/2010					
	Power evacuation system	Through three No. S/C transmission lines viz (i) BLTPS-Kolayat (ii) BLTPS-Nokha(iii)BLTPS-Bikaner to be executed by RRVPNL.					
	Water: Water supply agreement signed on 10/06/14 b/w Indira Gandhi Nahar Pariyojna, GoR and NLC **Land: Private** land-1088.20 ha in possession. Govt Land-Transfer in favour of NLC India is under progress at O/o Commissioner colonization, Bikaner Forest land- Transfer in favour of forest dept is under progress at O/o Commissioner colonization, Bikaner **MOE&F** clearance:EC for mines granted on 26/02/16. EC for thermal granted on 30/04/10 and validity extension is under progress. **Civil Aviation:** NOC obtained on 09/08/16						
Critical Issues							
Reasons for delay		GoR had informed that due to increased project cost and time over run, Rajasthan Discom will not be in position to buy the power from BTPSE. NLCIL had replied that delay is due to acquisition of land by GoR and informed to review the decision. Matter is pending with GoR.					

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Uncertain

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 : Steam Generator and Associated Packages including site leveling (SG Pkg) for INR 4087 Cr. (including taxes and duties) has been awarded to M/S L&T MHPS Boiler Pvt. Ltd. (LMB) on 29.08.2019 and contract agreement has been signed on 18.10.19. • Topography Survey and Geotechnical Investigation has been completed by M/s LMB • Site Levelling and area grading work are under process. • TG Main Power House area has been handed over to M/s BHEL on 14.02.20 and entire TG Lay down area is likely to be handed over shortly. • The work of Job Piles is under progress and so far, 1438 Job Piles have been completed • Work of priority roads and diversion of Aligarh Drain has been taken up. • Supplies for construction power-ring main works have been ordered and Civil works are in progress. • Components of 60 Cum/hr capacity Batching Plant of RMC contractor has reached at site on 13.02.20. TG : - Turbine Generator and Associated Packages (TG Pkg) for INR 1575 Cr. (including taxes & Duties), has been awarded to M/S BHEL on 03.10.2019 and contract agreement has been signed on 22.10.19. • Site mobilization started andTopography Survey and Geotechnical investigation has been completed. • Foundation Works of Main Power House has commenced. Job Piles is under progress and so far, 1400 Job Piles have been completed. Switch Yard - Geo-Technical Investigation works have been completed. **FGD**: Installation of FGD executed by BHEL
	U-1	660	04/23 06/23	08/23	10/23 12/23	02/24	
	U-2	660		09/23			
	Original/Latest Cost	: Rs 1108942 lakhs					
	Exp.During 2019-20 2020-21	Rs 938.40 Crores Rs 395.46 Crores					
	Cumulative Expenditure (up to 01/21)	Rs. 1333.81 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.					
	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, Uttrakhand, Rajasthan, Himachal Pradesh and Delhi.						
	Critical Areas						
	Reasons for Delay	• Work stopped wef 23.03.2020 due to COVID Pandemic.					

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BROAD STATUS OF CENTRAL SECTOR THERMAL POWER PROJECTS
(SJVN 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						
5.	**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 proqress **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 oroqress. **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	:					
	Cumulative Expenditure (up to 01/21)	Rs. 1344.02 Crores					
	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						

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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. 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 is ready.Balance electrical work completed. **CHP:** Commissioning of Unit#8 Stacker cum reclaimer is in progress. 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 100%. NDCT U#8: Internal Coloumns completed. Erection is under progress in first half.U#8 10000 fills erection pending out of 411972 fills. **CW System:** Ready. **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-197.245/245 km. 400 KV, DC, SSCTPS- BIKANER transmission line is ready. SSCTPS-BIKANER transmission line charged on 28/07/18. **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	06/20 02/21	03/21	
	Original/Latest cost		Rs. 7920/ 8966.47 crs. (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 640.8133 crs.				
	Total Expenditure		Rs 10551.8753crs. (up to 01/21)				
	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 - 05.02.2021

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.		
			Syn. Comm	COD	Syn. Comm	Trial-run COD	
2	**Harduaganj Expn. -II UPRVUNL Distt.: Aligarh, U.P**						**Unit-I** **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 is under progress **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. **BOP areas :** Civil works under progress. • **Chimney:** Shell construction completed. 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:** 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, balance erection 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 completed, Group trial in progress. • **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 • **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. 729.37 Crores					
	Cumulative Exp.(01/21)	:Rs 4171.46 Crores					
	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.l					
	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-23.02.2021

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	**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 Stacker/Re-Claimer, Track Hopper, Wagon tripler & Emergency reclaimer 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 • **IDCT:** • **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 • **DM plant**: • **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 2017-18 2018-19 2019-20 2020-21	 423.77 Crores 277.83 Crores 855.89 Crores 2175.96 Crores 830.64 Crores					
	Cumulative Expenditure (up to 12/20)	: Rs. 4571.35 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						
	Reason of Delay	• Work stopped wef 23.03.2020 due to COVID Pandemic.					

AK-22/01/2021

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual (A) / As now Anticipated.		
			Syn. Comm	COD	Syn. Comm	Trial-run COD	
4	**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:** **Bolier**: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 2nd stage 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	06/22 07/22	11/22	
		U-2 (660)	12/20 01/21	04/21	12/22 01/23	05/23	
	Original/Latest Cost	: Rs.10566.27 cr					
	Expenditure Details 2017-18 2018-19 2019-20 2020-21	Rs 805 cr Rs 991 cr Rs 2286 cr Rs 935 cr					
	Cumulative Expenditure	Rs. 5596 cr (Till 01/2021)					
	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 -16.02.2021

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						
5.	**Panki TPS Ext, Distt. Kanpur, U.P. (UPRVUNL)**	Unit-1 660	05/21 06/21	01/22	05/21 06/21	01/22	**Unit-1:** **Boiler:** Boiler erection started on 21.04.19. Total-16636 MT erected. 9512/ 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. MDBFP, ID Fan-A & B , FD Fan-A, PA fan-A first lift and ID Fan-B final lift foundation casted TD BFP: 261/ 275 m³ RCC completed. **ESP:** 6143/ 11886 MT erected. **BOPs:** **Chimney:** Chimney shell casting started on 13.01.20. EL +270 m completed. 366/585 MT flue can fabrication completed. **CHP:** ERH: Excavation 87405/125000 m3 completed,Wagon tippler: Excavation started and 4197/5000 m3 RCC completed, JT-1 & tunnel: Excavation 72777/110000 m3 completed. **AHP:** Botto ash Hopper - RCC completed. Ash slurry Pump house - 702/2370 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: 20171/20319 m^3 RCC completed. Compartment 2: 13591/ 20319 m3 RCC completed. RWPH: 1473/ 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 **2019-20** **2020-21**	: Rs 543.29 cr : Rs 837.26 cr : Rs 834.30 cr					
	Cumulative Exp (upto 31.01.2021)	Rs 2214.86 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-12.02.2021

WESTERN REGION

Thermal Power Plants

BROAD STATUS OF THERMAL POWER PROJECTS IN CHHATTISGARH

Sl. No.	Project Details	Unit	Cap. (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	Trial Run /COD	Sync/. Comm	Trial Run /COD	
Private Sector								
1	Akaltara(Nariyara) TPP, (Distt: Jangir-Champa) M/s KSK Mahanadi Power Company Ltd. (Formerly Wardha Power Company Ltd) **(6x600MW=3600MW)**	U-1 (U-3)	600	02/12 04/12	04/12	**18/05/13 (A) 13/08/13 (A)**	**14/08/13(A)**	**Unit-1 (U-3):COD achieved on 14/08/13. Commissioned on 13/08/13. Synchronised on 18/05/13.**
		U-2 (U-4)	600	06/12 08/12	08/12	**08/08/14(A) 22/08/14 (A)**	**26/08/14(A)**	**FGD**: FGD plant expected in 6/22. **Unit-2 (U-4) :COD achieved on 26/08/14. Commissioned on 22/08/14. Synchronized on 08/08/14.**
		U-3 (U-2)	600	10/12 12/12	12/12	**12/17(A) 18/01/18(A)**	**21/01/18(A)**	**FGD**: FGD plant expected in 08/22. **Unit-3 (U-2) :COD achieved on 21/01/2018. Commissioned on 18/01/18. Synchronised in 12/17.**
		U-4 (U-5)	600	02/13 04/13	04/13	stressed		**FGD**: FGD plant expected in 10/22. **Unit-4 (U-5)** **Boiler**. :Boiler erection started on 08/12/11. Boiler Drum lifted on 31/08/16. Pressure parts and joints erection is in progress. Duct erection work is in progress. Boiler Hydro Test yet to be happen. Pedestal work in progress. **Work at site is on hold.** **TG**: TG Deck casting completed on 06/10/12. Various level floor castingwork in progress.
		U-5 (U-1)	600	06/13 08/13	08/13	stressed		**FGD**: FGD plant expected in 12/22. **Unit-5 (U-1)** **Boiler**.: Boiler erection started on 06/02/12. Foundation work is completed. Balance work in progress. **TG:** TG raft and main coloumns casted and column TG Deck casting is yet to be completed. **FGD**: FGD plant expected in 02/23. **Presently order was placed for techno-commercial feasibility study with black and veatch for all six units.**
		U-6	600	10/13 12/13	12/13	stressed		**Unit-6** **Boiler:**Boiler raft casting completed. Boiler erection yet to start. Foundation work is completed **TG:**TG raft casting completed and column casting is in progress. Deck casting yet to be completed. **FGD**: FGD plant expected in 04/23. **FGD draft report received and Detailed Feasibility Report under preparation**
	Orginal Cost / Latest Cost	: Rs.1619000 Lakh / Rs. 2708000 lakhs						**BoPs:** **Chimney-:** Chimney 3,4& 2 are in service. Flue Cans Erection completed for all **CHP:** Ready in all respect **AHP:** Ready **Raw Water Supply System:** Water Resources Department, Govt., of Chhattisgarh has allocated 100 MCM of water /year from Mahanadi River **PT/ DM Plant:** Three streams are commissioned and in operation. **CW System:** majority of work has been completed. Only Connection between CW piping is pending for Unit #5 &6. **IDCT:** IDCT for U-1(3), 2(4) & U-3(2) are in service and for rest of unit's erection works are in progress. **FOPH:**Fuel oil distribution systemcommissioned **CCR Building** is ready for all units. **Switchyard:** Back charging of 400kV switchyard completed on 27/08/2012. Control building is in service.
	Exp. During 10-11	: Rs. 45529.8 Lakh						
	Exp. During 11-12	: Rs. 821600 Lakh						
	Exp. During 12-13	: Rs. 222416 lakhs						
	Exp. During 13-14	: Rs 209517 lakhs						
	Exp. During 14-15	: Rs.164917 lakhs						
	Exp. During 15-16	: Rs. 90320 lakhs						
	Exp. During 16-17	: Rs. 318700 lakhs						
	Exp. During 17-18							
	Total Exp.(upto 12/16)	**:Rs.1873000 Lakhs**						
	Approval date:	NA						
	Zero date:	**:21/04/09**						
	Financial closure	: Achieved on 30/03/10						
	EPC Order	: EPC ordered on 21/01/09 on SEPCO (China)						
	Package(BTG)	(Boiler-Shanghai Boiler Works, China), (TG-Dongfang Electric Company, China)						
	Type of fuel	Coal						
	PPA	PPA: PPA signed with Gujarat Urja Vikas Nigam Ltd for 1010 MW on 03/06/10. PPA signed with APCPDCL for 400 MW on 31/07/12. PPA signed with CSP Trade Co for 225 MW on 18/10/13 PPA signed with TANGEDCO for 500 MW on 27/11/13 PPA signed with UPPCL for 1000 MW on 26/02/14						
	Power Evacuation system	Power is to be evacuated to PGCIL pooling station through 400kV transmission system. Final bulk power transmission agreement signed with PGCIL on 25/02/10.						
	• **Land**: Complete land for the project is under possession. • **MOE&F:** Received on 19/10/09 State Pollution Control Board: Chhattisgarh Environment Conservation Board (CECB) granted "consent for Establishment" for 6x600 MW on 16/02/10. State pollution Control Board Clearance: Chhattisgarh Environment Conservation Board (CECB) has granted 'Consent for Establishment for 6x600 MW power plant of WPCLCG on 16/02/10. • **Civil Aviation**: NOC received on 12/05/09. • **Water**: Water Resources Department, Govt., of Chhattisgarh has allocated 100 MCM of water /year from Mahanadi River from proposed anicut at Basantpur. • **Coal linkage:** SECL (Tapering coal linkage to 3x600MW only) Letter of Assurance(LOA) for tapering coal linkage to 3x600 MW has been granted by SECL on 11/06/09. FSA has been executed with SECL on 19/03/14 for 2 units. Tapering FSA for U-3 has been executed with Eastern Coalfields Ltd on 12/08/14. • **As per the letter dated 18/10/16** Coal blocks of Gujarat and Goa linked to the power project for cancelled by Supreme court. Tapering linkage granted for 1800 MW was also cancelled by the Ministry of Coal on 30/06/13. Long term coal linkage is required for the power project, for which policy is under formulation with GOI.							
Critical issues	Coal Linkage to remaining 3 units.							
Reasons for Delay	Delay due to shortage of manpower and agitations by Villagers. Supply of material due to shortage of funds.							

Stressed

*** Unit numbering is given as per order of commissioning. Unit numbering given in brackets is as per original nomenclature.**

SK-11.06.19

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Sync/. Comm	Trial-run COD	
2	**Lanco Amarkantak Mega TPS (Pathadi) (Distt. Korba) M/s LAP Pvt. Ltd. Phase-II (2x660MW=1320MW)**	3	660	01/12 01/12	-	**stressed**		**Unit-3** • **Boiler**: erection started on 09/10. HT completed on 22/07/16. BLU delayed due to non-availability of start-up power. • **TG**: Condenser erection started on 1/05/11 and completed & partially tube leak test completed. TG erection started on 11/10/11. TG Box up completed on 26/11/16. • **ESP**: Pass B ATT completed. Pass C ATT is also completed. **Work is held up at the site due to fund constraints since 07/17.** **Unit-4** • **Boiler**: Boiler erection started on 1/12/10 • **TG**: Condenser erection started on 11/11/11. TG Deck casting completed & TG erection stared on 15/05/13 • **ESP**: All 4 passes are under progress. **BoPs:** • **Chimney:** RCC shell completed. Flue can erection work completed for U-3. Flue can assembly work is u/p. Structure erection 76% completed. Stack elevator erection, alignment & commissioning completed. • **CHP:** Track hopper work completed. Crucher house erection work is u/p. TP 11,7,8,9 structural erection completed. Equipment erection is u/p. • AHP: Ash slurry pump house; All civil work completed. Paving& finishing are u/p. fly ash tower work completed. • **Cooling Tower**: 10985m3 RCC casting completed. All 24 nos deck slab completed in CU-3. 8979m3 RCC casting completed and 24 nos deck slab completed in CT U-4. • **Raw Water Supply System:** river water intake pump house slab casting completed. RCC work & backfilling completed in forebay. Pump house MCC room- slab casting completed. • **PT/ DM Plant:** PT plant-RCC work is completed. Pumps erection is u/p. DM pant- DM plant building, erection, alignment and grouting of vessels are u/p. DM water storage tanks are also ready. • **FO PH:** LDO & HFO tank erection & NDT wok completed. Erection of all pumps completed. Piping work is u/p. • **Switchyard:** Switchyard building, switchyard tower, gentry erection SCADA commissioning & testing of all equipment is completed
		4	660	03/12 03/12	-	**stressed**		
	Original /Latest Cost	Rs.688600 Lakhs/ Rs770000 Lakhs/Rs. **1081524 lakhs**						
	Expenditure during 2007-08 Expenditure during 2008-09 Expenditure during 2009-10 Expenditure during 2010-11 Expenditure during 2011-12 Expenditure during 2012-13 Expenditure during 2013-14 Expenditure during 2014-15 Expenditure during 2015-16 Expenditure during 2016-17 Expenditure during 2017-18	Rs. 189 lakhs Rs. 209lakhs Rs. 9841 lakhs Rs.206364 lakhs Rs 262658 lakhs Rs. 125739 Lakhs Rs. 12500 Lakhs Rs. 61445 Lakhs Rs 165255 Lakhs Rs 109579 Lakhs						
	Total Expenditure	**Rs. 953779 lakhs (up to 12/16)**						
	Zero date:	17/11/09						
	Financial closure	: Achieved in March,2011						
	Main Plant Order	: Unit-3 &4: Main plant package (BTG) awarded on 17/11/09 to M/s DEC						
	BOP Package	Main plant package (BTG) awarded on 17/11/09 on M/s DEC as vendor and award of contracting agency on 12/11/09 on M/s HTC/HEC.						
	Type of fuel	Coal						
	PPA	PPA signed with CSP Tradeco for 35% home state share on 04/01/11						
	Power Evacuation system	LTOA approved and BPTA signed on 24/02/10. Pooling station location at Champa to be confirmed by PGCIL to start survey.						
	• **Land**: Total land requirement for U-1,2,3,&4 is 1395 acres out of which 791 acres already acquired. For the entire balance land, section 4,6&9 completed. Lease deed is to be registered shortly. (Lease deed signed for 90% of total land with CSIDC, Raipur and balance is Under process). • **MOE&F**: MOEF clearance for unit-3 received on 04/09/08 & renewed on 19/02/14 up to 12/2017 and for Unit-4 on 26/05/10 & renewed on 22/06/15 up to 12/2017. • **Civil Aviation**: NOC for 275 m. Twin flue chimney was obtained on 25/08/08 from AAI. • **Water:** Sanction of Water requirement of 54 MCM from Hasdeo river for U-3 & U-4 received from Govt. of Chhattisgarh. • **Coal linkage:** U-3: LOA issued by SECL on 06/06/09. All milestones achieved. Letter submitted to SECL. FSA signed for U-3 on 27/08/13 U-4: LOA issued by SECL on 03/06/10. All milestones achieved. Letter submitted to SECL. FSA signed on 27/08/13.							

Critical issues	Additional land acquisition is in progress.
Reasons for Delay	Delay in acquisition of land for water system. Post award change in specification like high density system in AHP and wagon trippler in CHP due to statutory compliance and other constrains like. Frequent stoppage of construction work by local people and land loser. **Presently work is held up at site due to financial constraints**

***Due to insolvency problem, project activities are on hold. The commissioning schedule will be decided after restart of work.**

Stressed

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Sync/. Comm	COD	
3	**Salora TPP (Katghora Tal; Distt. Korba) M/s Vandana Vidyut Ltd (2x135=270MW)**	U-1	135	06/11 06/11	-	**04/09/13(A)** **10/04/ 14(A)**	**01/05/14(A)**	**Unit-1** **COD achieved on 01/05/14. Commissioned on 10/04/14.Unit synchronized on 04/09/13.** • **Boiler**: Erection of Boiler-1 started in 11/10. Boiler Drum lifted on 23/02/11. HT completed on 28/01/12. BLU completed on 06/03/13. SBO completed. **TG**: TG erection started in 11/11and TG box-up completed in 07/12. **Unit-2** • **Boiler**: Boiler erection started in 11/10 and drum lifted in 04/11. HT completed in 10/12. BLU completed in 09/14 and steam blowing completed in 10/14. Delay due to supply of boiler material & CHP material by M/s Cethar Vessels Ltd.and delay in getting of startup power. Delay due to agitation by the villagers at project site. • **TG**: erection started in 11/11and TG boxed-up 09/14 and put on barring gear in 10/14. **BoPs:** • **Chimney:**Flue can erection completed. • **CHP:**Under progress. • **AHP:** Under progress. • **CW System:** Under progress.
		U-2	135	09/11 09/11	-	stressed		

Original / Latest Cost	:Rs 1458.44 Cr./ Rs. 1458.44 Crs.
Exp. During 2009-10 Exp. During 2010-11 Exp. During 2011-12 Exp. During 2012-13 Exp. During 2013-14 Exp. During 2014-15	:Rs 14441 lakhs **:** Rs . 43617 lakhs **:** Rs . 88942 lakhs **:** Rs . 38000 lakhs **:** Rs . 38657 lakhs **: Rs.15032 lakhs**
Cumm. Exp. (up to 03/15)	**: Rs.238689 lakhs**
BOP Package	LOA has been issued on 21/11/08 on M/s Cethar Vessels Ltd , Thiruchirapalli on BTG basis , Boiler : Cethar Vessels Ltd, Turbine Genarator: M/s Harbine Turbine Co.Ltd, China
Type of fuel	Coal
PPA	50 MW to TNEB through NVVN (Short term basis) for one year. PPA was signed with CSPTCLL on 05/01/11
Power Evacuation system	PGCIL granted LTOA & BPTA executed on 24/02/10. LILO line construction is completed. Elect. Inspectorate ,CEA (WR) has given approval for LILO and 400 kV switchyard on 04/08/12.

- **Land**: Land : Required 261 Ha , Possession : 260.899 Ha.
- **MOE&F**: obtained on 09/06/09.and State pollution clearance obtained on 09/03/09
- **Civil Aviation**: clearance obtained on 24/04/09
- **Water:** 18 MCM Water allocated by WRD, Govt.of C.G from Hasdeo River
- **Coal linkage:** Allocation of coal is from Fatehpur East Coal Block (Jointly) allotted by MOC and tapering coal linkage granted for 2x135 MW on 29/01/10 from SLC, LT meeting of MOC, for 2nd phase of 1x270 MW under process with MoC. Carpet coal recommended for CEA for startup of 1st unit.

Stressed

Critical issues	Start up / carpet coal MOU is pending with SECL. FSA execution is pending with SECL Turbine -2 was ready from last 9 months (as on 09/14), Foe commissioning HEC/HTC Engineers are required. AVR Feed back Card- pending from long time, LVDT replacement- All the LVDT are not working. Rotor stoppage alarm panel to be supplied, supply of Technical data sheet of TG instruments and ISCAN-2 for Unit-2 as per letter dated in 09/14
Reasons for Delay	Delay in commissioning of U-1.Agitation by villagers at site. Delay in sullpy of BTG and CHP material. Non corporation of BTG supplier in commissioning activities. Acquisition for railway siding and ash pond.

Sl. No	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch	Comm	Syn.	Comm COD	
4	Deveri TPP Raigarh TPP (Visa) (VISA Raigarh STPP, Ph-I,) (Distt: Jangir Champa) M/s VISA Power Ltd. **(1x600+1x660=1260MW)**	U-1	600	06/13	08/13	stressed		**Unit-1** • **Boiler:** Boiler erection started on 30/09/11. 8th tier erection completed. Ceiling girder A, B, C, D, E& F erection completed. Work held up due to financial Problems. • **TG:** TG deck raft completed and shuttering work final deck casting U/P. EOT crane erected and commissioned. • **ESP:** Pass A casing erection work completed. Suspensions for electrodes erection completed. Erection of collecting electrodes up to 10th field completed. Hopper top part erection completed in all 10 fields. Pass B: Column erection work completed. Pass-C- electrode erection completed in all 10 fields. Pass D: Casing erection completed. electrode erection **BoPs:** • Chimney: Foundation works completed and shell casting work U/P. Chimney awarded to Bygging India Ltd on 15/01/15 • CHP: PCC in wagon tippler & TP-2 area is U/P. Coal Mill & Mill Bunker Building: All mill foundation & bunker pedestal casting completed. Bunker structure and shell fabrication under progress. • Raw Water Supply System: Raw Water pipe line awarded to TATA Projects Ltd. On 14/07/11 • CW System: Raw Water pipe line awarded to TATA Projects Ltd. On 14/07/11 • IDCT: CT awarded to Paharpur cooling Towers 25/01/12. IDCT-I &2 excavation work completed. • Switchyard: Foundation works completed and shell casting work U/P.
		U-2	660			stressed		
	Org. Est. cost for both the units	:Rs. 619000 Lakh						
	Unit-1 cost	: Rs. 261870 lakhs						
	Unit-1 Latest cost	; Rs. 393000 lakhs						
	Exp. During 10-11	: Rs. 51763 lakhs						
	Exp. During 11-12	: Rs. 53457 Lakh						
	Exp. During 12-13	: Rs. 15481 Lakh						
	Exp. During 13-14	: Rs. 47890 Lakh						
	Exp. During 14-15	: Rs. 36759 Lakh						
	Exp. During 15-16 (Up to 11/15)	: Rs. 2373 Lakh						
	Cumm. Exp (11/15)	: Rs. 207723 lakhs						
	Approval date:							
	Zero date:	09/08/10						
	Financial closure	Achieved for both the units						
	Main Plant Order	BTG Contract awarded on 28/06/10 to M/s BHEL (Boiler-BHEL) (TG- BHEL)						
	BOP Package	The order for all the BOPs on EPC basis including civil works have been placed on M/s L&T on 29/09/10. BHEL (Trichy) supplied 13031 MT for Boiler & BHEL(Ranipet) 7340MT for ESP up to 11/2014 out of which 5792 MT of Boiler & 3749 MT of ESP erected. BHEL (PSWR) supplied 3863 MT of bunker structure material, out of which 2261 MT bunker structure fabricated. BHEL piping center (Chennai) supplied 1235 MT						
	Type of fuel	Coal						
	PPA	PPA Signed with CSPTCL & WBSEDCL for 424 MW & 200 MW and WBSEDCL for 200MW. As per letter dated 14/01/14 PPA signed with WBSDCo. Ltd on 04/01/11 for 510 MW for 20 years through MOU route with 3part tariff (Cap. Charges+ energy Charges+ transportation charges). CSPTCo.Ltd an authorised representative of GOCG to execute PPA with Developers on behalf of the GOCG. This PPA is in line with the implementation agreement executed with GOCG						
	Power Evacuation system	Awarded the contract for construction of 400kV D/C transmission line on M/s KEC on 24/06/11. From PGCIL S/S at New Kotra. 400/765 Kv Pooling station for power evacuation – bays construction given to Alstom T7D on 31/12/11.						
	BTPA	24/02/10						
	• Land: Delay in land acquisition & delay in placement of orders for BoPs. Delay in supply of boiler drum by BHEL. Work is on hold due to Financial crunch. • MOE&F: MOEF clearance obtained on 23/08/11 Amendment in MOEF clearance issued on 20/05/14 regarding the reduction in project area of 780 acres to 637 acres. Fatehpur coal block allocated to the Visa Power. • Civil Aviation: clearance from AAI received on 25/05/10. • Water: Water allocation received from WRD, Chhattisgarh for 35 MCM on 26/09/09 • Coal linkage: Fatehpur East Coal Block jointly allotted. Domestic coal linkage applied. FSA signed with Indonesian coal supplier (PT Kubara Bumi Lestari) for supply of imported coal.							
Critical issues	Boiler Drum has not dispatched by the BHEL							
Reasons for Delay	Order of AHP, Fire protection system, AC & ventilation system, LT/Ht switchgear, cables, air compressor, LT transformers, station, GT & unit transformer not yet placed. Work is on hold due to financial crunch.							

Stressed

SI.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Sync/. Comm	COD	
5	**Singhitarai TPP (DumatpalliTPP) Janjgir (Vill) Champa Distt. (M/s Athena Chhattisgarh Power Ltd) (2x600=1200MW)**	U-1	600	10/14 11/14	-	stressed		**Unit-1:** **Boiler** Boiler erection started in 29/07/12. Drum lifted on 07/04/13. Non-Drainable HT done on 08/10/15. **Work at site is on hold due to financial constraints.** **TG** TG erection started on 04/07/13. Condenser erection started on 16/05/13. **Work at site is on hold due to financial constraints** . **Unit-2:** **Boiler** Boiler erection started on 24/12/12 Drum lifted on 30/10/13. **Work at site is on hold due to financial constraints** **TG** TG erection started in 29/11/13. Condenser erection started on 01/01/14. **Work at site is on hold due to financial constraints** **BoPs:** • **Chimney**: Erection of flue cans and stair case completed External painting completed. • **CHP**: Major Erection works completed. • **AHP**: Major Erection/construction works completed. • **Raw Water Supply System:** RWIS from river Mahanadi to ACPL-contract awarded on 16/05/11 Barrage construction completed & finishing work in progress NoC received from WRD, GoC for laying of pipeline along the canal on 31/10/10. approval received for Nala crossing and road crossing. RWIPH construction completed. • **PT/ DM Plant**: First stream commissioning done in auto mode successfully & commissioning of other streams are in progress. • **CW System**: Erection of motor & pumps completed. • **CT:** all works completed. • **FOHS:** No load trail run of motors completed. Hydro test in progress for pipes. • **Switchyard:** commissioning works are Completed.
		U-2	600	01/15 02/15	-	stressed		
	Original Cost/Latest cost	: Rs. 620000 lakhs/ Rs. 811900 lakhs (844379 1lakh further revised)						
	Exp up to 03/2008 Exp 2008-09 Exp 2009-10 Exp. 2010-11 Exp. 2011-12 Exp. 2012-13 Exp. 2013-14 Exp. 2014-15 Exp. 2015-16 Exp. 2016-17 Exp. 2017-18	:Rs. 371 lakhs :Rs. 3509 lakhs :Rs. 6690 lakhs :Rs. 56343 lakhs :Rs. 50204 lakhs :Rs: 92116 lakhs :Rs: 129337 lakhs :Rs: 154090 lakhs :Rs: 62395 lakhs : Rs. 74611 lakhs : Rs. 11181 lakhs						
	Cum.Exp. up to 05/17	**:Rs. 640847 lakhs**						
	Zero date:	01/06/11 (NIT issued)						
	Financial closure	: Achieved (Common loan agreement signed on 30/03/11)						
	Main Plant Order	: Awarded on 21/12/09 to M/s DECL.						
	BOP Package	M/s Abir infrastructure on 18/08/10						
	Type of fuel	Coal						
	PPA	Long term and short term PPA signed with PTC. 444 MW signed with CSPT and 150 MW signed with Nepal electricity authority. For 300 MW- LOI received & for 200 MW participated in Case-I bidding in RRVPN and 107.5MW praticipated in the case-I bid invited by MP power mgmt. company ltd. For supply of 107.5MW power on the long term bases.						
	Power Evacuation system	LTOA granted on 01/10/09. Signed BTPA with PGCIL for 683 MW 24/02/10. ISTS approval received from PGCIL on 14/06/11.Approval received form MoP for construction of 400kV D/c dedicted line from ACPL to New Kotra(PGCIL). NOC for tower height clearance received for double and multiple circuit tower from AAI. Test charging of 400kV transmission line-1 &2 completed.						
	• **Land**: 927.275 acres of land in possession,25.96 Acres of Govt land leased to company.. • **MOE&F**: Obtained on 04/06/10.Amendment of EC received on 22/03/16 • **Civil aviation:**Clearence received from AAi, Mumbai on 09/04/09 • **Water:** 35 MCM per annum allocated from Mahanadi. • **Coal linkage:** FSA signed with SECL on 27/02/15 for supply of 2497242 Tonnes/annum.						

Critical issues	Delay in BTG erection work. **Work at site is on hold due to financial constraints**
Reasons for Delay	Delay in Land Acquisition. Slow progress of boiler & TG erection. Delay due to financial problems ***Work at site is on hold due to financial constraints. The commissioning schedule will be decided after restart of work.**

Stressed

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Sync/. Comm	COD	
6	**Binjkote TPP SKS Power Gen. (Chhattis.) Ltd. Vill-Binjkote, Distt.: Raigarh, Chhattisgarh** **(4x300=1200MW)**	U-1	300	08/13 09/13	-	**26/01/17(A)** **25/04/17(A)**	**06/10/17(A)**	**Unit-1: COD on 06/10/17. Full load on 25/04/17. Syn on 26/1/17.** **Boiler:** Boiler erection started on **12/06/12.** Boiler drum lifted on **02/05/13.** HT conducted on **27/06/14.** BLU completed on 09/07/16 **TG :** Condenser erection started **04/14**. TG erection started in **05/14.** TG box up completed on 09/08/16.
		U-2	300	11/13 12/13	-	**12/17(A)** **28/03/18(A)**	**01/04/18(A)**	**Unit-2 : COD on 01/04/18. Full load on 28/03/18.Syn on 12/17.** **Boiler :** Boiler erection started on **08/09/12.** Boiler drum lifted on 30/05/13. Boiler light up has completed on 27/03/17. EDTA cleaning done on 03/05/17 Steam blowing completed in 11/17. **TG :** Condenser erection started in **01/15**. TG erection Started in **09/14**. TG put on barring gear on 30/08/17.
		U-3	300	02/14 03/14	-	stressed		**Unit-3:** **Work yet to start**
		U-4	300	05/14 06/14	-	stressed		**Unit-4:** **Work yet to start** *** The dates would be decided after start of Boiler erection start.**

Original Cost /Latest Cost: Ph-I: 3787.2 Cr& Ph-II : 3106.8 Cr /Latest Cost : Ph-I : 5240Cr & Ph-II: 3200 Cr less 500 Cr	: Rs. 505800 lakhs / Rs. 689000 lakhs / Rs. 794000 lakhs
Exp. During 2008-09 Exp. During 2009-10 Exp. During 2010-11 Exp. During 2011-12 Exp. During 2012-13 Exp. During 2013-14 Exp. During 2014-15 Exp. During 2015-16	: Rs 4000 lakhs : Rs. 5225 lakhs : Rs. 21435 lakhs : Rs. 55000 lakhs : Rs. 126590 lakhs : Rs. 46778 lakhs : Rs.112677 lakhs **: Rs. 11095 lakhs**(up to 06/15)
Cumm. Exp Up to 06/15.	**: Rs 382800 lakhs**
Approval date:	SKS signed an MOU with Govt. of Chhattisgarh on 07/01/08.for setting up coal based TPS.
Zero date:	**:12/05/11**
Financial closure	: completed
Main Plant Order	: M/s Cethar Ltd. On 02/03/11. Boiler- Cethar Ltd. trichy, India and TG - Harbin, China
BOP Package	
Type of fuel	Coal
PPA	37.5% of 1200 MW with CSPTRADECO. 550 MW with TPTCL. Participated for 100 MW in Case-I bidding in RVPN.
Power Evacuation system	Signed BPTA with PGCIL on 24/02/10 for evacuation of entire power from kotra sub-station.

- **Land:** 568 acres of land acquired
- **MOE&F**: obtained on 05/10/10 EC extended till 04/10/17
- **Civil Aviation**: AAI issued NOC on 09/04/2009
- **Water:** 35 MCM from Mahanadi (44 Km pipeline).
- **Coal linkage:** Granted coal linkage for entire 1200 MW by SECL. FSA signed for U-1 &U-2 for 1.3 MTPA on 28/08/13 and 23/09/13 respectively.

BoPs:
- **CHP:** Ready in all respect.
- **AHP:** Ready in all respect.
- **Raw Water Supply System:** raw water intake pump commissioned, raw water reservoir completed.
- **PT/ DM Plant:** already commissioned.
- **CW System:** Ready.
- **FOPH:** Ready
- **Switchyard:** 440kV trans line charged on 09/05/15. 20/6.6Kv line charged on 20/01/16

Critical issues	
Reasons for Delay	U-3&4: Work yet to start. Balance land acquisition for ash dyke. Commissioning schedule would be assessed after restart of work.

Stressed

BROAD STATUS OF THERMAL POWER PROJECTS IN MADHYA PRADESH

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
1.	**Gorgi TPP (Dist. Singrauli) DB Power (MP) Ltd. (1x660=660MW)**	1	660	05/13 06/13	07/13	**Uncertain**		**Unit-1** The site enabling activities like area grading etc has already completed. Construction of administrative building and hostel facility also completed. Excavation work in water reservoir area and chimney also started. Erection yet to be started. **Work is on hold at site due to Financial crunch being faced by the developer.** **BoPs:** • **In BoPs work yet to start.**

Original/ Latest Cost	: Rs.394100 Lakhs / Rs.394100 Lakhs
	:
Expenditure during 2008-09	: Rs. 349 Lakhs
Expenditure during 2009-10	: Rs. 2303 Lakhs
Expenditure during 2010-11	: Rs. 13487 Lakhs
Expenditure during 2011-12	: Rs. 21157 Lakhs
Expenditure during 2012-13	: Rs. 4036 Lakhs
Expenditure during 2013-14	: Rs. 4712Lakhs
Expenditure during 2014-15	: Rs. 1614 Lakhs
Expenditure during 2015-16	: Rs. 78 Lakhs (upto 09/15)
Total Expenditure (Upto 09/15)	: Rs 47579 lakhs
Approval date:	: NA
Zero date:	: 03/11
Notice To Proceed (NTP)	:03/11
Financial closure	Achieved in 03/2011 for unit-1
Main Plant Order	BHEL on 03/11 (BTG).
BTG Make	BHEL
BOP Order	Indure Pvt. Limited.
Type of fuel	:Coal
PPA	35% with MPPMC from 2x660 MW
Source and supply of Fuel	2.1048 MTPA available for unit-1.
Power Evacuation system	PGCIL has granted LTA and connectivity. Power evacuation at vindhyachal pooling station.

- Consultant: Desein
- MOEF Clearance: Obtained in Sept.10 for 1st unit.
- Land : 735-acre land is acquired.
- Water: 25 MCM PA water from Gopad river for 2x660 MW.
- All the mandatory clearances are available for two units.
- The major part of total land acquired by the company in time but delay in granting government land which is significant stretches had affected the contiguity and due to which construction could not commence at desired time.
- PPA has been signed with MP Power Management Company (State Utility) for 35% capacity from both the 2x660 MW.

Critical issues	**Acquisition of balance land.**
Reasons for Delay	Financial Costraints

Uncertain

BROAD STATUS OF THERMAL POWER PROJECTS IN MAHARASHTRA

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
1.	**Amravati TPP , Ph-II, (Distt: Amravati) M/s Rattan India Power Ltd.(Formermerly known as Indiabulls Power Ltd.) (5x270=1350 MW)**	1	270	05/14 07/14	08/14	Uncertain	Uncertain	**Work is on hold (since April,2012)** **Unit-1** **Boiler** 1. Boiler erection started on 24/11/11. **2. Work is on hold.** **Unit-2** **Boiler** 1. Boiler erection started in 01/12. **2. Work is on hold** **Unit-3** **Boiler** **Work is on hold.** **Unit-4** **Boiler** **Work is on hold.** **Unit-5** **Boiler** **Work is on hold.** **BoPs:** • **Work is on hold.**
		2	270	07/14 09/14	10/14	Uncertain	Uncertain	
		3	270	09/14 11/14	12/14	Uncertain	Uncertain	
		4	270	11/14 01/15	02/15	Uncertain	Uncertain	
		5	270	03/15	04/15	Uncertain	Uncertain	
	Original/Latest Cost		: Rs.664600 Lakh/: Rs.664600 Lakh					
	Expenditure during 2011-12 Expenditure during 2012-13 Expenditure during 2013-14 Expenditure during 2014-15		: Rs. 49727 Lakhs : Rs.20866 Lakhs : Rs.3397 Lakhs : Rs.2390 Lakhs					
	Total Expenditure		:Rs 76380 Lakhs(**Upto 03/15**)					
	Approval date:		:NA					
	Zero date:		11/10/10					
	Notice To Proceed (NTP)		:11/10/10					
	Financial closure		: Achieved on 01/02/11					
	Main Plant Order		: BTG on EPC basis awarded to BHEL on 11/10/10.					
	BTG Make		BHEL					
	Type of fuel		Coal					
	PPA		No PPA					
	Source and supply of Fuel		:With MCL & WCL in 11/10(LOA) .					
	Power Evacuation system		: Through 400kV/765KV Akola and Wardha Substations of MSETCL through 400KV/765KV D/C transmission line.					
	• FSA: Letter awaited. • All clearances are available.							
Critical issues								
Reasons for Delay			Due to financial constraints project has been put on hold.					

Uncertain

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
2	**Nasik TPP, Ph-I (Distt: Nasik) M/s Sinnar Thermal Power Ltd. (Formerly known as Indiabulls Realtech Ltd.) (5x270=1350 MW)**	1	270	12/11 02/12	03/12	**24/02/14(A) 25/02/14(A)**	**29/03/14 (A)**	**Unit-1 : COD on 29/03/14. Commissioned on 25/02/14. Synch. on 24/02/14.** **Boiler:** Boiler erection started on 03/11/10. Boiler drum lifting completed on 31/03/11. Boiler HT (D) completed on 28/03/12. BLU completed on 22/10/12. SBO completion achieved on 15/04/13. Unit normalization completed in 04/13. **TG:** TG civil works started on 01/06/10. TG erection started on 25/09/11. TG Box Up completed on 30/01/13. TG oil flushing completed on 15/04/13. TG on BG achieved on 31/05/13. Boiler lighted up for steam dumping on 22/12/13. Steam dumping started on 22/12/13. Rolling completed on 28/12/13. Oil synch. achieved on 05/02/14. Coal bunkering started on 10/02/14. **Unit-2 : Commissioned on 15/02/17. Synch. on 21/03/16.** **Boiler:** Boiler erection started on 08/12/10. Boiler drum lifting completed on 27/07/11. Boiler HT (D) completed on 03/07/12. BLU achieved on 27/11/13. EDTA completed in 02/14. SBO started on 28/02/14 and completed on 14/03/14. **TG :** TG erection started on 25/12/11. TG Box Up completed on 08/10/13. TG oil flushing completed on 31/12/13. **TG put on BG on 10/03/14.** Rolling completed on 31/03/14. Readiness of Railway siding by 03/16. GIS clearance received in 01/16. Clearance given to BHEL to start the work on 10/01/16. BHEL re-started work at site on 30/01/16. **Unit-3 : Commissioned on 14/04/17. Synch. on 04/17.** **Boiler :** Boiler erection started on 12/01/11. Boiler drum lifting completed on 12/12/11. Boiler HT completed on 30/10/13. BLU achieved on 03/10/16.SBO completed on 06/12/16. **TG :** TG erection started on 19/01/12. TG boxed up in 10/16. TG put on BG on 27/01/17.TG rolling done on 04/03/17 **Unit-4 : Commissioned on 19/05/17. Synch. on 05/17.** **Boiler :** Boiler erection started on 16/05/11. Boiler drum lifting completed on 23/12/11. Boiler HT is completed in 11/16. BLU achieved on 30/12/16. SBO completed on 13/02/17.. **TG :** TG erection started in 05/12. TG box up completed on 24/01/17. TG oil flushing completed on 12/03/17. **TG put on BG on 29/03/17.** **Unit-5 : Commissioned on 30/05/17.** **Boiler :** Boiler erection started on 16/06/11. Boiler drum lifting completed on 06/03/12.BLU achieved on 15/02/17. EDTA completed on 06/03/17. SBO completed on 24/03/17. **TG :** TG erection started on 30/04/16. TG Box Up completed on 13/02/17. TG oil flushing completed on 17/04/17. TG put on BG on 28/04/17. **BoPs: The order was placed on reputed Indian vendors. BoPs were common for all the five units and completed except Railway siding.**
		2	270	02/12 04/12	05/12	**21/03/16 (A) 15/02/17(A)**	-	
		3	270	04/12 06/12	07/12	**04/17(A) 14/04/17(A)**	-	
		4	270	06/12 08/12	09/12	**05/17(A) 19/05/17(A)**	-	
		5	270	08/12 10/12	11/12	**05/17(A) 30/05/17(A)**	-	

Original /Latest Cost	: Rs.678900 lakhs / Rs.784898 lakhs
Expenditure during 03/10	:Rs. 30620 Lakhs
Expenditure during 2010-11	:Rs. 100000Lakhs
Expenditure during 2011-12	:Rs. 180309 Lakhs
Expenditure during 2012-13	:Rs. 144526 Lakhs
Expenditure during 2013-14	:Rs 107396 Lakhs
Expenditure during 2014-15	:Rs 98461 Lakhs
Expenditure during 2015-16	:Rs --
Total Expenditure	:Rs. 661312 Lakhs **(Upto 03/15)**
Approval date:	: NA
Zero date:	: 24/11/09
Notice To Proceed (NTP)	:211/09
Financial closure	: Achieved on 30/06/10
Main Plant Order	: BTG on EPC basis awarded to BHEL on 24/11/09.
BTG Make	BHEL
BOP on EPC basis	Reputed Indian Vendors
Type of fuel	: Coal
PPA	No PPA
Source and supply of Fuel	: From SLC (LT) on 17/12/08.
Power Evacuation system	: Through 400kV D/C quad Moose transmission line upto MSETCL sub-station at Bhubaneshwar.

- FSA: With MCL, SECL & WCL on 11/06/09. All clearances are available.
- Design & Engineering completed.
- The BOPs are common for all the five units. All the BoPs are either already completed or nearing completion.

Critical issues	PPA, Completion of Railway Siding.
Reasons for Delay	• Railway siding for coal transportation. • Finalization of PPA. • Rectification of defect in GIS switchyard by Siemens-Germany. • Fault in HT panel • Financial Constraints

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
3	**Nasik TPP, Ph-II (Distt: Nasik) M/s Sinnar Thermal Power Ltd. (Formerly known as Indiabulls Realtech Ltd.) (5x270=1350 MW)**	1	270	01/13 04/13	04/13	@	@	**@: Work is on hold (May, 2012). Schedule will be decided after restart of work at site.** **Unit-1** **Boiler** Boiler erection started in 09/11. Work is on hold. **Unit-2** **Boiler** Boiler erection started in 11/11. Work is on hold. **Unit-3** **Boiler** Work is on hold **Unit-4** **Boiler** Work is on hold **Unit-5** **Boiler** Work is on hold **BoPs:** • **Work at site has been put on hold since long back.**
		2	270	03/13 06/13	06/13	@	@	
		3	270	05/13 08/13	08/13	@	@	
		4	270	07/13 10/13	10/13	@	@	
		5	270	09/13 12/13	12/13	@	@	
	Original /Latest Cost		: Rs.678900 lakhs / Rs.678900 lakhs					
	Expenditure during 03/10 Expenditure during 2010-11 Expenditure during 2011-12 Expenditure during 2012-13 Expenditure during 2013-14 Expenditure during 2014-15		: Rs.36805 Lakhs : Rs. 10000 Lakhs :Rs. 5339 Lakhs :Rs. 9615 Lakhs :Rs. 5022 Lakhs :Rs. 4400 Lakhs					
	Total Expenditure (Upto 03/15)		:Rs. 71181Lakhs					
	Approval date:		: NA					
	Zero date:		: 24/11/09					
	Notice To Proceed (NTP)		: 24/11/09					
	Financial closure		: Achieved on 30/06/10					
	Main Plant Order		: BTG on EPC basis awarded to BHEL on 24/11/09					
	BTG Make		BHEL					
	BOP on EPC basis		Reputed Indian Vendors					
	Type of fuel		Coal					
	PPA		No PPA					
	Source and supply of Fuel		: From SLC (LT) on 17/12/08.					
	Power Evacuation system		: Through 400kV D/C quad Moose transmission line upto MSETCL sub-station at Bhabaleshwar.					
	• FSA: With MCL, SECL & WCL on 11/06/09. • All clearances are available.							
Critical issues	Work at site is on hold.							
Reasons for Delay	**Work at site has been put on hold since long back.**							

Uncertain

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
4	**Lanco Vidarbha TPP (Distt: Wardha) M/s Lanco Vidarbha Thermal Power Ltd. (2x660=1320 MW)**	1	660	03/14 07/14	08/14	Stressed		**Unit-1** **Boiler** Boiler erection started on 01/08/11. Main structure erection upto 6th tier completed in 10/15. All the (5) Ceiling Girder (CG) erection work completed. Pressure parts erection work started in 04/16 . **TG** TG Deck casting completed. TG handed over to mechanical department for erection. TG erection started in 05/16. EOT Crane (2 nos.) already commissioned. **Unit-2** **Boiler** Boiler erection started in 10/11. Main structure erection upto 6th tier completed. All the (5) Ceiling Girder (CG) erection work completed. Pressure parts erection work started in 08/16. HT is yet to be done. **TG** TG raft completed and Mezzanine Floor work completed. Top deck shuttering work also completed, final inspection work under progress. TG erection work yet to start. **Presently work is on hold due to financial constraints.** **BoPs:** • **Chimney:** Civil works for chimney are being done by M/s LITL. Chimney Raft completed. Chimney shell construction completed upto 30 mtr.upto 07/16. • **CHP:** (Elecon Engg.Co. Ltd): Wagon Tippler excavation work completed. Raft Completed in WT area and balance work is in progress. Civil works are being done by M/s LITL. In other parts of CHP such as Stacker reclaimer , Crusher House, TPs and conveyors civil works are in progress.. • **AHP: (M/s LITL):** Civil works for BA hoppers, Fly ash silo's, AWPH, ASPH and ash dyke are in progress. • **Raw Water Supply System:** Work is in progress. • **PT/ DM Plant (DOshion Veolia water solution):** Approx. 80% civil works completed upto 09/16. • **CW System:** Civil works are with M/s LITL and mechanical works are with M/s Singrauli Associates Pvt. Ltd.. Civil works in CW pump house, CW fore Bay and CW open channel are in progress. 85% CW pipeline erection work completed upto 09/16. Balance erection work is under progress. • **IDCT:** Being done by M/s LITL. For both the IDCT- I: & IDCT- II: PCC and basin raft concreting completed. Pedestal work is in progress. • **FOPH:** All civil works are in progress.. • **Switchyard: 95% switchyard foundations completed so far.**
		2	660	07/14 11/14	12/14	Stressed		

Original/Latest Cost	: Rs.693600 lakhs/ Rs.1043300 lakhs
Expenditure during 03/11	: Rs 97600 lakh
Expenditure during 2011-12	: Rs 181100 lakh
Expenditure during 2012-13	: Rs 67200 lakh
Expenditure during 2013-14	: Rs 15200 lakh
Expenditure during 2014-15	: Rs - lakh
Expenditure during 2015-16	: Rs 98900 lakh
Expenditure during 2016-17	: Rs 73800 lakh
Expenditure during 2017-18	: Rs - lakh
Total Expenditure	: Rs 533800 lakhs **(Upto 04/17)**
Approval date:	: NA
Zero date:	: Achieved on 01/12/10.
Notice To Proceed (NTP)	: Achieved on 01/12/10.
Financial closure	: Achieved on 01/12/10.
Main Plant Order	: EPC Contract awarded to M/s Lanco Infra Tech Ltd.(LITL) through ICB Route in 11/09. **Boiler & Aux.: Dongfang, China** **TG & Aux.: Harbin, China,**
BTG Make	**Boiler & Aux.: Dongfang, China** **TG & Aux.: Harbin, China,**
Type of fuel	: Coal
PPA	PPA for 680MW(Net)signed with MSEDCL.
Source and supply of Fuel	: SECL
Power Evacuation system	**:** Grant of connectivity letter received at 765 kV from Wardha-Seoni line from PGCIL. Connectivity agreement is in progress.

- All clearances are available. MOEF clearance received on 24/02/11.
- Design & Engineering completed.
- Order for all BOPs have been placed and progressing as per schedule.
- FSA is in process.
- PPA with MSEDCL for 680MW signed on 25/09/08.
- Work was on hold since 01/2013.
- Work at site restarted since April, 2015.
- Work in all the BoPs is also progressing nicely.

Stressed

Critical issues	**Financial crunch.**
Reasons for Delay	**# Work was on hold due to financial crunch. Work has now restarted since 04/15. Work progress is slow due to Financial Costraint.** Schedule will be decided after restart of work**.**

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
5	**Bijora Ghanmukh TPP, (Distt: Yavatmal) M/s Jinbhuvish Power Generations Pvt. Ltd. (JPGPL) (2x300=600 MW)**	1	300	10/16 12/16	01/17	**Uncertain**		**Unit-1** **Boiler** Boiler Civil works started in 09/15. Work at site put on hold due to financial crunch. **Unit-2** **Boiler** Work at site put on hold due to financial crunch. **TG** Work at site put on hold due to financial crunch. **@: Work at site put on hold. Revised commissioning schedule will be decided after re-start of work.** **BOPs** **Work yet to start**
		2	300	01/17 03/17	03/17	**Uncertain**		

Original/ Latest Cost	: Rs.318900 lakhs / Rs.345000 lakhs
Expenditure during 03/14 Expenditure during 2014-15 Expenditure during 2015-16	: Rs 37475 lakh : Rs 4752 lakh : Rs - lakh
Total Expenditure	: Rs 42227 lakh **(Upto 03/15)**
Approval date:	:
Zero date:	:
Notice To Proceed (NTP)	:
Financial closure	: Achieved (REC & PFC)
Date of Main Plant Order (Boiler & TG from CWPC, China)	: BTG on EPC basis Contract awarded to M/s CWPC (China Western Power Corporation) (through ICB Route) on 28/09/11.
BTG Make	
BOP on EPC basis	
Type of fuel	: Coal
PPA	: Signed with PTC India Ltd.
Source and supply of Fuel	: WCL(1.851MMT)
Power Evacuation system	**:** Final connectivity on LILO from PGCIL Wardha-Parli D/C transmission line.

- FSA: Coal Linkage LOA received from WCL, however FSA is yet to be signed
- **Consent to Establish** : Obtained from MPCB.
- All statutory clearances are available. MOEF clearance received on 30/07/12.
- Design & Engineering in progress.
- Order for all BOPs on EPC basis has already been placed on M/s AEMPL on 26/05/14. The process of subletting packagewise contract to reputed vendors was in progress.
- Site leveling and grading was in progress.
- Capacity revision from 2x250 MW to 2x300 MW accepted and issued letter on 19/03/14.
- FSA is in process. All the milestones required under the terms of LOA have been completed.
- PPA: MOA signed on 27/02/12 with PTC India Ltd. for sale of 430 MW (75%) on Long Term Basis and remaining 25% on merchant power basis.
- Various site enabling works were in progress.

Critical issues	Financial Issue
Reasons for Delay	The schedule of implementation got revised due to change in capacity from 2x250 MW to 2x300 MW. Formal approval received on 19/03/14. Signing of FSA with WCL has to be expedited.

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
6	**Shirpur Power Private Ltd. Distt. Dhule, Maharashtra (2x150=300 MW)**	1	150	12/14	02/15	**09/17(A) 28/09/17(A)**	-	**Unit-1: Commissioning achieved on 28/09/17.**
		2	150	02/15	04/15	Uncertain	Uncertain	**Unit-1 & 2: Steam blowing of the units completed. Main plant structural work completed.**
	Original /Latest Cost		: Rs.241300 lakhs / Rs. 241300 lakhs					
	Expenditure during 2011-12 Expenditure during 2012-13 Expenditure during 2013-14 Expenditure during 2014-15 Expenditure during 2015-16 Expenditure during 2016-17		: Rs 3368 lakh : Rs 15821 lakh : Rs 74610 lakh : Rs 72102 lakh : Rs 34176 lakh : Rs 27686 lakh					Project is 96.7% complete.
	Total Expenditure (Upto 11/17)		:Rs 238385 lakhs					
	Approval date:		:NA					
	Zero date:		:					
	Notice To Proceed (NTP)		:					
	Financial closure		: Achieved on 08/10/12					
	Date of Main Plant Order (Boiler &TG from BHEL)		: BTG Contract awarded to BHEL on 22/11/2011.					
	BTG Make		**Boiler &TG from BHEL**					
	BOP on EPC basis							
	Type of fuel		: Coal					
	PPA		: 195 MW PPA done with private players in steel and textile sectors. For the rest, new customers like DISCOMs, Railways needs to be found out.					
	Source and supply of Fuel		: SECL					
	Power Evacuation system		• Connectivity approval from MSETCL for 220 kV line at Amalner substation					
	• All clearances are available. • Design & Engineering completed. • Order for BOPs on EPC basis have been placed M/s Punj Lloyd on 03/08/10. In all the BOPs work already completed.							**BoPs: Almost all BoPs are completed.** • **CHP: coal feeding from emergency reclaim hopper to bunker completed. Wagon tippler erection in progress.** • **AHP, Cooling tower, Chimney, PT plant, DM plant, CW system completed.** • **Fire detection system erection is in progress.** • **Station transformer to be charged after back charging 220 Kv Transmission line.**

Critical issues	PPA, Coal Linkage
Reasons for Delay	*Work is on hold. Schedule will be decided after restart of work.

Uncertain

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	**Unit-6:** **Boiler:** Boilere civil work start onm 15.05.2019 and erection start 22.11.2019. 6647 / 8000 MT erected. Deck casting completed for FD, PA, ID fan.All ceiling girder erection completed **TG:** TG Civil work start 22.07.2019. TG deck casting completed on11.01.2021. Excavation completed. RCC 10420/10500 cum and erection 5567/ 8000 MT ompleted. **ESP**: Erection started on 06.01.2020 foundatation of all 6 pass completed on 08.02.2020. Total erection weight 3380/10500 MT completed. **BoPs:** **AHP:** Ash slurry PH excavation 1250/2000 cum completed. PCC 68/150 cum completed, RCC 204/226 cum completed. **Chimney:** Raft casting work completed. Chimney shell height 94 /272.2 mtr completed **CHP**: Wagon Tippler excavation 111280/112000 cum completed, PCC 421/500 com and RCC 1028/8000 cum completed. **NDCT**: Excavation completed, PCC 1581/2000 cum completed, RCC 3029/25000 cum completed **RWR**: Excavation completed. PCC 1224/1240 cum completed. RCC 5700/8690 cum completed. **CWPH**: Excavation 18020/18500 cum completed, PCC 82/100 cum & RCC 937/1000 cum completed. **DM Plant**:building Excavation in progress, PCCand 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. 696.32 Cr
2020-21	: Rs. 821.91 Cr
Total Expenditure (Upto 01/2021)	:Rs 1392.06 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 31st January,2021 was 1816 nos.

RKM-.05.02.2021

Southern Region
Thermal Power Plants

BROAD STATUS OF THERMAL POWER PROJECTS IN ANDHRA PRADESH

Sl. No.	Project Details	Unit No.	Capa-city (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Syn. Comm	COD	Syn. Comm	COD	
State Sector								
1	Rayalaseema TPP St-IV (M/s. APGENCO) Distt.Cuddapah, Andhra Pradesh	**6**	**600**	07/14 08/14		**02.07.17(A)** **29.03.18(A)**	-	**Unit Synchronized on 02.07.17. Full Load achieved on 29.03.2018.** • **Boiler:** Erection started on 04/02/2013. Boiler Drum lifted on 30/11/13. 26952 MT/ 29730MT structural materials erected till 10/17. Boiler air leak test completed. BLU done on 29/12/16. EDTA cleaning completed on 26.02.17. Mill foundation on both sides completed. Bowl mill deck slabs completed for all mills. • **TG:** TG erection started on 04/03/16. TG box up done in 02/17. • **Chimney (M/s Gammon):** Shell concreting completed. A.R.Brick work completed up to (+) EL 135.30 M height. • **CHP:** Work awarded to M/s Thyssenkrup. • **AHP:** Vacuum pump house building, Silos, Bottom ash hopper, Buffer hopper, ASPH etc. area civil works completed • **RWR:** Trimming of slopes of reservoir bund is in progress. In the raw water pump house RCC structure completed. • **PTP:** clarifier works completed. • **DM Plant:** Roof slab work up to 183.10 ml completed. Vessels foundations ready. Vessels material available at site. Some vessels are placed in position. • **CWS:** raft work in CW pump house completed. All walls raised up to pump floor. PCC works of fore bay in progress. CW pipe line fabrication is almost complete. • **NDCT (M/s Gammon):** Shell erection 32 lifts completed &33rd in progress. • **FO System**: M/s Xicon is executing these works Civil work almost completed. Tanks fabrication & erection in progress. Fuel oil transfer pump tank HFO and LDO day tank slab completed & handed over for erection work. • **Switchyard:** Foundations of all equipment were completed and handed over for erection of equipment's.

Original /Latest Cost	: Rs. 302886 / 388043 Lakh
Expenditure during 2009-10	: Rs. 555.00 lakh
Expenditure during 2010-11	: Rs. 25833.00 lakh
Expenditure during 2011-12	: Rs. 8155.00 lakh
Expenditure during 2012-13	: Rs. 29331.00 lakh
Expenditure during 2013-14	: Rs. 80045.00 lakh
Expenditure during 2014-15	: Rs. 52429.00 lakh
Expenditure during 2015-16	: Rs. 62341.00 lakh
Expenditure during 2016-17	: Rs. 83576.96 lakh
Expenditure during 2017-18	: Rs 69776..04 lakh **(12/17)**
Total Expenditure	**: Rs 412042 lakh (up to 12/2017)**
Zero date	**: 10/02/2011.**
Financial closure	: Achieved on 19/03/10
Type of Fuel	: Coal
Main Plant Order	Placed on M/s BHEL for BTG on **18/11/10**.
BOP Package	Purchase order placed on the consortium led by M/s Tecpro Systems Ltd, including civil works on EPC basis on **15/12/10**. Now it is led by VA Tech.

- MOEF clearance obtained on 21/10/2010.
- PFC Sanctioned a loan of Rs. 2423 crores.
- M/s Desein Pvt. Ltd is providing engineering consultancy services.

Critical issues	1. Readiness of cooling tower, CHP & AHP.
Reasons for Delay	1. Boiler erection start was delayed by 13 months due to initial land acquisition and civil works problems. Mill, ID, FD & PA fan foundation work delayed. 2. Slow progress of Civil works and BOP works by the consortium led by VA Tech, Techpro and Gammon. 3. Delay in award of CHP& AHP by the consortium leader VA Tech.

Sl. No.	Project Details	Unit No.	Capa-city (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Syn. Comm	COD	Syn. Comm	Trail run CODT	
State Sector								
2	**Sri Damodaram Sanjeevaiah TPP St-II (Krishnapatnam) (APPDCL) Distt.Nellore, Andhra Pradesh**	U-1	800	03/19 04/19	06/19	03/21	05/21	**Boiler**: Civil work started on 10.11.2016. erection started in 26.06.2017. Hydro Test (Drain-able) on 01.07.2019. Boiler erection 90% complete (28155 MT /31334 MT). Boiler light up on 31.12.2019. SBO anticipated on 28.02.2021. Critical piping works 63.9% (3162MT/4948MT) and critical piping welding joints 81.14% (921/1135 No.) completed. **TG** : TG erection started on 20.09.2018. TG Box up on 29.02.2020. HP & IP Turbine boxed up and ESVs and IVCVs erected. LP Turbine -1&2 – Inner casting boxed up. LPT-1 – Outer casing fabrication in progress. 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 Jan.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. Screed concrete works is completed. ESP erection 88% complete (10480 MT / 12072 MT). • **BoPs.** **CHP**: Structural Steel - Fabrication 5927/6000T completed, erection 5589/6000 T completed. Structural Steel received– 6150/6200 MT. **AHP**: Fabrication of Hydrobins, Bottom ash hopper, Buffer Hopper Tower u/p Bottom Ash Hopper. Ash Water PH: Erected pumps & motors LP & HP, ECO, HCSD LP, piping, valves u/p. **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	Rs. 6828.42 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-06.02.2021

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								
3	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. Pass I erection and Pass II erection works under progress. **TG:** Deck casting completed. TG and condenser erection started. Condenser box up completed. 86% BTG works completed. **ESP:** Erection started on 15.03.2017. 99% erection works completed. **BOPs:** **CHP:** JT erection works under progress. WAGON TIPPLER - Wall raised up to RL 24.30 & Floor slab completed. Walls above FS 109/109m 1st lift completed. Re bar tying & shuttering for wall in progress. pedestal completed. Track Hopper: 1 to 8 walls, MB-2 wall side 10.9/12.4 completed. MBI wall through slip from under progress. **AHP:** Ash water pump house steel for roof beams is in progress. Ash slurry pump house columns final lift completed. Seal water sump walls final lift concrete completed. AHP & MRS compressor house columns first lift above plinth beam under progress. 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. Ash water sump walls under progress. Ash slurry sump works under progress. **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. Pre-cast elements erection -2573/3807 Nos completed and in progress. other internal works like Hot water ducts walkway at elevation 15.0 OM 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 CWPH. 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 327 cr						
	Total Expenditure incurred till date	Rs. 5707 Cr. (till 01/2021)						
	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-08.02.2021

Sl. No.	Project Details	Unit No.	Capa-city (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Syn. Comm	COD	Syn. Comm	Trail run COD	
Private Sector								
4	Thamminapatnam TPP Ph-II (M/s Meenakshi Energy Pvt.Ltd.), Thamminapatnam Distt.: SPSR Nellore, Andhra Pradesh	3 4	350 350	01/12 05/12 03/12 08/12	06/12 09/12	**10.02.18 (A)** **15.04.18 (A)** **Uncertain**	09/19 **Uncertain**	• **Unit-3:. Synchronized - 10.2.18. Full load - 15.4.18.** • **Boiler:** erection started on 16/11/11. Drum lifted in 16/05/14. **Non-drainable HT completed on 06.08.17. BLU Completed on 30.11.17. Steam Blowing completed on 20/12/17. Unit synchronized on 10.2.18. Full load achiebed on 15.4.18.** • **TG**: Condenser erection started in 15/03/15 & TG erection started in 04/07/15. LP & HP turbine final box up completed on 14.02.17. **TG oil flushing completed on 27.11.17 and TG on barring gear. Final Boxed –up on 27.07.17** **Unit-4:** • **Boiler:** erection started in 22/09/14. Drum lifted on 31.07.15 .**HT (Non drainable) completed in 5/18.** SBO completed in 01/19. Full load expected in 10/19. • **TG:** Condenser erection stated on 13/07/15. TG erection started on 29/10/15**. TG box up done in 3/18.** TG oil flushing done in 06/18. **Unit 4 reached 52 MW**. • **Chimney:** Ready for service. • **CHP:** Awarded to EDAC Engineering Ltd., Chennai on 18/06/10. Priority Stream-I trial run completed • Stream-II commissioning work in progress • Stacker & Reclaimer – I& II – in operation mode. Sheeting is in progress. • **AHP:** Awarded to EDAC Engineering Ltd., Chennai on 18/06/10. Unit#3 completed • Unit#4 Completed. • **IDCT:** Awarded to EDAC Engineering Ltd., Chennai on 18/06/10. CT#3 Completed • CT#4 completed. • **PTP:** PT plant erection completed and commissioned. • **DM Plant:** DM plant in operation mode. • **CW System:** Unit#3 CW and ACW commissioning completed. • Unit#4 CW and ACW commissioning completed. • **FO System:** LDO system completed and oil stored in tanks. • **SW Yard:** Switchyard charging completed on 31.05.17.Switchyard Automation System (SAS) panels, Control Relay Panel (CRP) panel charging completed. **PROJECT UNDER NCLT**
	Original /Latest Est. Cost	:Rs 312000 Lakhs (600 MW) / 500500 Lakhs (700 MW)						
	Expenditure during 2008-09 Expenditure during 2009-10 Expenditure during 2010-11 Expenditure during 2011-12 Expenditure during 2012-13 Expenditure during 2013-14 Expenditure during 2014-15 Expenditure during 2015-16 Expenditure during 2016-17 Expenditure during 2017-18 Expenditure during 2018-19	:Rs -NIL- :Rs 1157.00 Lakhs :Rs 42362.00 Lakhs :Rs 53379.46 Lakhs :Rs 21802.67 Lakhs :Rs 47833.82 Lakhs :Rs 81656.43 Lakhs :Rs. 98832.77 Lakhs :Rs. 86250.65 Lakhs :Rs. 74715.67 Lakhs :Rs 33450.49 Lakhs (2/19)						
	Total Expenditure(up to 2/19)	**: Rs. 541440.96 Lakhs**						
	Approval date:							
	Zero date:							
	Financial closure	: **01/10/2010** Loan agreement signed with REC, IBDI & other Banks, REC as lead lender						
	Main Plant Order	: **10/12/2009** **Boiler** –Cethar Vessels Ltd, Trichy, Tamil Nadu, India **TG** – China National Automotive International Corporation, China (Harbin)						
	BOP Package							
	Type of fuel							
	PPA	: PPA signed with M/s PTC on 25/02/2010 for 600 MW.						
	Power Evacuation system	: 400 KV MEPL – Manubolu (PGCIL) 27 km line is completed by M/s Sujana Towers Hyderabad and charged. Agreement for Long Term Open Access for 1000 MQ with PGCIL on 2nd January 2012.						
	• **Land: 563.90** Acres of land acquired for entire 1000 MW. • **MOE&F:** Clearance obtained on 03/06/2009 & 19/10/09. Further extended up to 18/10/19 on 25/10/13. • **SPCB:** Consent for Establishment received vide letter dated May 2011 for 1000MW. Extension granted to 2021 • **Civil Aviation:** NOC obtained on 28/02/11 from AAI for 281 m height of chimney. • **Water:** 100 Cusec/day sea water from Kandaleru Creek accorded by Principal Secretary (FAC), Infrastructure & Investment (Ports-I), AP on 18/02/10. • **Fuel Linkage**: Letter of Assurance (LOA) dated 11th June 2009 obtained from Mahanadi Coalfields Ltd (MCL) for the supply of 2.023 MMTPA Grade "F" Coal. Fuel Supply Agreement dated 31 August, 2013 executed with Mahanadi Coalfields Ltd(MCL) for the supply of 1.0115MMTPA Grade "F" coal for Unit 3 (350 MW). Imported Coal Supply Agreement: Coal Supply and Transportation Agreement dated 25 November, 2013 executed, with GDF Suez Energy Management Trading SCRL, 34, boulevard Simon Bolivar, 1000 Brussels, Belgium. Coal Quantity : 2.50MMT per annum • **BPTA:** BPTA signed with PGCIL for 300 MW on 24/02/2010 andfor additional BPTA signed for 1000 MW on 02/01/12 • **Mega Status:** Achieved in 02/12							
Critical issues								
Reasons for Delay	Slow progress of Civil works. Due to financial problem, work at site remained closed for a long time. Change of stakeholders and subsequent change in the completion of various milestone.							

Uncertain

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	
Private Sector								
5	Bhavanapadu TPP Ph-I (M/s East Coast Energy Pvt. Ltd.) Distt.: Srikakulam, Andhra Pradesh	1 2	660 660	08/13 10/13 01/14 03/14	12/13 05/14	Uncertain Uncertain		**Unit-1** • **Boiler**: Boiler erection is started on 27/03/2014. 5th tier erection completed. Girders are to be placed which are available at site. • **ESP**: Structures, hoppers erection is in progress. • **TG**: Deck casting completed on 28/05/15. Power house erection (2nd tier) is in progress. EOT crane to be erected • **Unit-2** • **Boiler**: Boiler erection started in 02/15. 2nd tier erection completed. • **ESP**: Piling completed. • **TG**: Raft casted on 29/05/15. TG columns scaffolding work is in progress. Condenser erection yet to start. **BoP's** • **Chimney:** Order placed on M/s. R S Pabla in Oct, 10. Shell casting completed. Flue can erection is in progress. • **CHP:** Awarded to M/s BSBK. Piling completed. Dewall works in track hopper area completed. • **AHP:** Order placement is in progress. • **WTP:** Engineering is in progress. • **DM Plant:** Engineering is in progress. • **CW System:** Engineering is in progress. • **NDCT:** Order placed on M/s Paharpur Cooling Towers. • **FPS:** Engineering is in progress. • **FOS:** Order placed on Delta P.D. Pumps on 14/05/12. Tank fabrication work completed. **Switchyard:** Engineering is in progress. **ATS:** Award of contract to be done by ECEPL. • **Presently work held up at site due to financial issues.** **PPA details are as follows: Having PPA for 100 MW with Kerala. Having LOI for 300 MW but in dispute due to formation of Telangana. For 500 MW PPA with Andhra Pradesh, developer is L1.**
	Original /Latest Est. Cost	:Rs 657194.00 lakh (Equity:debt::25:75) / 934315.00 lakh (09/07/14)						
	Expenditure during 2007-08 Expenditure during 2008-09 Expenditure during 2009-10 Expenditure during 2010-11 Expenditure during 2011-12 Expenditure during 2012-13 Expenditure during 2013-14 Expenditure during 2014-15 Expenditure during 2015-16	:Rs 1674.00 lakh ;Rs 7018.00 lakh :Rs 27800.00 lakh :Rs 72100.00 lakh :Rs 22900.00 lakh :Rs 29208.00 lakh :Rs 76300.00 lakh :Rs 82210.00 lakh : Rs. 53006.00 lakh						
	Total Expenditure (till 01/16)	:Rs 3785. 60Crores						
	Approval date:							
	Zero date:	: **15/09/2010**						
	Financial closure	: Achieved on **08/09/2010. Lead Financier - PFC**						
	Main Plant Order	: Order placed on **03/09/2009** on DEC China (**BTG**)						
	BOP Package	: EPC of BOP & Main plant Civil works contract awarded to consortium of M/s NEC and M/s Abir Infrastructure Pvt Ltd on 30/01/10.						
	Type of fuel							
	PPA	:Long term PPA signed with PTC India Ltd on 25/06/10 as an amendment of 06/05/09						
	Power Evacuation system							
	• **Land:** Total land of (2050 + 36.94 Colony) Acres is acquired. • **MoE&F:** Clearance obtained on **09/04/2009 &**revalidated on **20/08/14.** • **Water:** Permission for drawl of 168 cusec sea water from Govt. of AP is obtained on 10/06/2008. • **SPCB:** clearance obtained from APPCB on 15/06/2009 revalidated on **30/12/14.** • **Civil Aviation:** AAI clearance obtained vide lr. Dt. 04/03/08 & revalidated up to 3rd March 2020. • **Coal Linkage / FSA:** LOA received from MCL for 4.273 MTPA on 11/06/2009. FSA to be signed. FSA signed with Global Fuels pvt Ltd Singapore for balance quantity of coal on 23/04/09 • **BPTA:** BPTA signed with PGCIL on 21/09/12.							

Critical issues	Signing of FSA. SLC to decide. Readiness of ATS from Plant to power grid pooling station at Palasa (42 km) by M/s East Coast. Allotment of land for railway siding, sea water intake pipelines and pump house by Govt. of A.P.
Reasons for Delay	Law & Order problem, Financial problem of the company, acquisition of balance land for sea water intake & railway siding.

Uncertain

BROAD STATUS OF THERMAL POWER PROJECTS IN TELANGANA

Sl. No.	Project Details	Capa-city (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As Expected		
			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 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 18.06.2020. **Unit 4:** **Boiler**: Boiler erection started on 08.03.18. Boiler drum lifted on 21.08.18. Boiler hydro test completed on 16.02.2020. **TG**: TG civil work started on 04.12.15. TG erection started on 17.12.19. Condenser erection started on 24.12.19. BTG - 89% completed. **BoPs:** • **CHP**: conveyer package - 62% completed. Stacker Reclaimer - 35% completed. Wagon Tripler - civil work completed. • **AHP:** 65% work completed. • **Cooling Tower:** 100% completed. • **Chimney**: 85% completed. • **DM Plant** – 99% completed. • **PT Plant – 90**% completed. • **CW Treatment plant:** 94% 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	**01/21**	**02/21**	
	U-4	270	08/17 09/17	09/17	**03/21**	**03/21**	
	Original Cost /Latest Estimated Cost	Rs. 7290.60 Crs./ Rs.8536.98 Crs / 9962.32 Crs (including FGD system).					
	Total Expenditure	**Rs. 7217.67 Crs. (up to 01/02/2021)**					
	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 TSDiscoms 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/PrlSCM/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-06.02.2021

Sl. No.	Project Details	Capa-city (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A)/ As Expected		
			Syn. Comm	COD	Syn. Comm	Trial-run COD	
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 units 1,2 & 3 and in progress for units 4 & 5. • Boiler Civil works started for all units. • Boiler erection works completed 16.53%, 15.24%, 14.3%, 13.47% & 12.05% 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 44.95%, 48.35%, 39.22%, 38.62% & 16.75% 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 12.3m/270m for U#3&4 completed. **Cooling Tower :** Excavation under progress for all (5 Nos.) NDCTs. **CHP :** Work under progress. **AHP :** Bottom Ash Hopper for U#2 & U#4 are in progress. **FGD Plant :** Work 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. 8995.64 Crs. (Till 01/2021)					
	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 Clearence: 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, Choutuppal and Dindi.						
Critical issues							
Reasons for Delay	• Work stopped due to COVID Pandemic.						

RKM-16.02.21

BROAD STATUS OF THERMAL POWER PROJECT IN KARANATAKA

Sl. No.	Project Details	Capacity (MW)	Unit	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Syn. Comm	COD	Syn. Comm	Trial-run COD	
State Sector								
1.	**Yelahanka Combined Cycle Power plant. Karnataka**	370	GT ST	10/17 02/18	03/18 03/18	06/21 09/21	09/21 09/21	• **Main Plant:** GT erection started on 3.04.2017. GT and Generator erected, GTG Aux. erection is in progress (95%). GT Aux. erection is in progress (90%). STG HIP module, Generator erected. LP turbine erection under progress. ST Aux. erection is in progress (80%). HRSG: Leak test completed, box up completed and insulation work in progress (95%). STG building structural erection 96% completed. GTG building completed. BFP/GBC – 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 erecte & 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 (95%) 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 (95%) • **LT/HT Switch gears:** Panel erection work completed and cable laying work in progress (97%) • **Cables (Power/Control)**: Cable tray erection works (95%) in progress. Cabling works (95%) 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 Exp. during 2017-18 Exp. during 2018-19	: Rs 215.668 Crs : Rs 932.1737 Crs : Rs 114.38 Crs						
	Total Expenditure	**: Rs 1669.467 Crs (up to 01/21)**						
	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-08.02.2021

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 2	660 660	07/19 07/20 09/19 09/20	04/21 06/21	03/22 05/22	**05/22** **08/22**	**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. 26525/ 31650 MT erection completed. Non-Pressure parts erection in progress. **TG:** Civil works started in 06.06.2017. **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. 20785/31000 MT erection completed. Equivalent weld Joints 28357/33463 completed. Pressure parts erection in progress. **TG:** Civil works started on 06.08.2017. **ESP 2**: 2/4 passes air leak test completed. 6082 / 9400 MT erected. **BOP:** **Chimney**: 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 07th Aug 2019. **Cooling Tower:** 28/96 Raker column for NDCT-1 & 9/24 Raker column for NDCT-2 casted. CW basin for NDCT-1, 20/43 segments completed. **Switchyard:** 400 kV Tower - 3/26 nos. Erection completed. Work in 5 nos. under progress.
	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 beween 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. Entire 100% 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-23.02.2021

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 2	800 800	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 - 4296 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 – 1800 tonnes.

Balance of Plant by M/s Reliance Infrastructure Ltd.,
- 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.

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.

Original Cost /Latest Cost	: Rs. 12778 Cr. (Including IDC)
Expenditure during 2016-17 Expenditure during 2017-18 Expenditure during 2018-19 Expenditure during 2019-20 Expenditure during 2020-21	:Rs. 16.74 Crores :Rs. 226.62 Crores :Rs. 1594.15 Crores : Rs 924.32 Crores : **Rs 276.41 Cr (up to 01/21)**
Total Expenditure	**: Rs. 3038.24 Cr (up to 01/21)**
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 Collecter 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 actiovities 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 heavy rain at site, water was filled in the area and work was stopped.

RKM- 05.02.2021

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								
3	**North Chennai TPP St-III by TANGEDCO Distt. Thiruvallur, Tamil Nadu**	1	**800**	02/19 03/19	07/19	05/21 06/21	06/21	• **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 10505 MT (93%) erected. Pressure parts joints welding works 47707 Nos. (90.64%) completed. Drainable Boiler Hydro test was carried out on 31.12.2019. Balance pressure parts erection is in progress. Non-Drainable Hydro Test anticipated in Feb.,2021. • **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. 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 11528 MT (99.24%) erected. **BOPs** • **CHP:** ECHS: External Towers (5Nos)- All civil foundation works completed. Structural erection is in progress for ET 2to 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. • **Coling Tower:** NDCT pond wall 100% completed. NDCT shell jump completed (124 lifts completed). Pond wall casting is in progress. • **Chimney**: Chimney completed.Staircase erected. • **SWITCHYARD** : 765KV GIS Building: Civil works major portions-99% 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 634.34 Crores (upto 01/21)**						
	Total Expenditure (upto 01/21)	**: Rs 6097.3273 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 TANTRANSCO, 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 : 12.02.2021

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								
4	**Ennore SCTPP TANGEDCO (Distt. Thiruvallur), Tamil Nadu**	1	**660**	10/17 01/18	01/18	Uncertain	-	• **Boiler** (M/s Lanco): Civil work commenced on 16/02/15. Boiler erection started on 01/02/16 • **TG & Condenser**: Civil work commenced on 18/06/15. Condenser erection started on 20/07/16 & TG erection started on 11/08/16. **BOPs** • **Chimney:** Awarded to LITL, Gurgaon. Chimney raft casting commenced on 22/07/2015. Shell concreting work started on 29/02/16, Shell casting completed in 3/2/16. • **CHP:** Awarded to M/s. FL SMIDTH (P) Ltd. Chennai on 23/04/15. 70:30 Imported: Domestic Coal. The soil investigation work commenced on 01/08/2015. NOC/ROW (Statutory clearance) approval has been obtained from PWD for routing ECHS from North Chennai to project site through Ennore Creek. The CE / PWD recommended the proposal for the waiver of track rent to Government on 18/11/2015 and Go TN has not considered the case. LITL remitted the Lease rent & refundable caution deposit to PWD on 26/11/15. • **CW System:** Awarded to Kirloskar Brothers Ltd and Sea water intake & outfall system-off shore to M/s Coastal Marine construction and Engineering Ltd, Mumbai on 07/09/15. Intake pump house earth excavation under progress. The earth work excavation in cooling water intake pump house was commenced on 07/09/2015 and in progress. LITL committed to complete the permanent marking along the route by 31/12/15. Obtaining approval from various departments is a time consuming process hence M/s LITL was requested to arrange statutory clearance from Railways, Highways, Chennai Corporation, TNHB etc., as early as possible. • **NDCT:** Awarded to M/s Hamon Thermal Europe S.A on 05/05/15. All the 768 piles casting completed on 08/02/16. The earth work excavation for pile cap commenced on 15/10/2015 and pile chipping commenced on 16/12/15. Basin piling work under progress. • **Switchyard**: Switchyard and related electrical systems are yet to be awarded.
	Original /Latest Cost (03/2016)	:Rs 4956.00 / 5421.38 Crores						
	Expenditure during 2014-15 Expenditure during 2015-16 Expenditure during 2016-17 Expenditure during 2017-18	:Rs. 239.70 Crores :Rs. 2.8891 Crores :Rs. 86.5609 Crores : Rs.462.250 Crores						
	Total Expenditure (up to 12/2017)	:Rs. 791.40 Crores						
	Approval date:							
	Zero date:	**: 14/07/2014**						
	Financial closure							
	Main Plant Order	**: 30/05/2014 (EPC) on M/s LANCO and lanco in turn awarded the BTG to Dong Fang electric corporation, China on 18/02/15. EPC cost Rs.3921.55crs. (revised)**						
	BOP Package							
	Type of fuel	**: COAL** (70:30 Imported: Domestic Coal)						
	PPA	PPA does not arise as the entire power is to be utilized by TANGEDCO.						
	Power Evacuation system	Regarding Power Evacuation system is under TANRANSCO scope.						
	• Letter of Acceptance for Main Plant Order (EPC) issued to M/s **LANCO** on **05/14 (27/02/14 as per lr dt 22/12/16)**. LANCO in turn placed order on Dong Fang Electric Corporation., China on 18/02/15. • **MOE&F** Clearances obtained on **18/09/2014.** • **SPCB** clearance obtained on 18/02/13. • **Civil Aviation:** clearance obtained on 16**/05/2008** • Water allocation: Sea water is available near the project. Cooling water consumption to be drawn from Sea is 1,33,896 m3/day. ***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. The CIRP process extended up to 04.05.2018.***							
Critical issues	***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.***							
Reasons for Delay								

Uncertain

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	
Private Sector								
5	**TuticorinTPP St-IV / (M/s SEPC Power Pvt. Ltd.) Distt. Thoothukudi, Tamil Nadu.**	1	525	07/18 09/18	10/18	03/21	03/21	• **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:** Civil foundation work is nearing completion. Mechanical structural fabrication & erection under progress. Mechanical work 99% has been Completed • **AHP:** Civil foundation work is in progress. Mechanical structural fabrication erection under progress. • **Cooling Tower:** Erection works completed. Testing 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**: Work under progress. • **Fuel Oil System** : Civil works underway. • **CW System:** 98% works has been completed. • **Switchyard:** Erection works completed. Commissioning under progress. • **LT/HT Switch-gear :** Erection & commissioning completed.
	Original /Latest Cost	: Rs. 3514.00 / Rs. 3514.00 Crores						
	Expenditure up to 2015-16 Expenditure during 2016-17 Expenditure during 2017-18 Expenditure during 2018-19 Expenditure during 2019-20 & 20-21	:: Rs. 480.79 Crores : Rs. 248.70 Crores : Rs. 822.94 Crores : Rs. 508.91 Crores : Rs. 1460.63 Crores (upto 31.01.2021)						
	Total Expenditure (up to 01/2021)	**:Rs. 3521.97 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 firmed 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 - 12.02.2021

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	
Private Sector								
6	**Tuticorin TPP in Tamil Nadu (Ind. Barath Power Limited)**	1	660	03/12 05/12	05/12	Uncertain	Uncertain	• **Boiler:** All civil work completed & Boiler erection started. • **ESP:** All civil foundation work completed. Erection started. • **TG:** All civil foundation work completed. Condenser & TG erection works yet to start. **BOPs** • **Chimney:** Awarded tosimplex Infrastructure. Foundation raft concreting is in progress. • **CHP:** Order placed on Sokeo Power. • **AHP**: Order placed on Sokeo Power**.** Drawings under finalization. • **ACC**: Order placed on HAC China. Drawings under finalization. ACC foundation works in progress. • M/s Consolidated Construction Consortium Limited have been awarded main plant civil & structural work on 14/12/10. Civil work started • **WTP:** Order placed on Sokeo Power. Engineering works in progress. • **DM** Plant: Technical discussions are in progress. • **CW system**: Order placed on Sokeo Power. Technical specification verification is in progress. • **FO system**: Engineering is under progress. • **FPS:** Foundation works completed. Erection works to start from 01/16. • **Switchyard:** Engineering in progress.
	Original /Latest Cost	: Rs.359500 Lakh / Rs.359500 Lakh						
	Expenditure during 2010-11 Expenditure during 2011-12 Expenditure during 2012-13 Expenditure during 2013-14 Expenditure during 2014-15 Expenditure during 2015-16	: Rs. 17000 Lakh : Rs 2000 Lakh : Rs 31000 Lakh : Rs. 9000 Lakh : Rs. 91000 Lakh : Rs. 500 Lakh						
	Total Expenditure(Up to 05/2015)	: Rs. **2000.00 Crores**						
	Approval date:	: 10/09/2007						
	Zero date:	: 25/03/2010 / April 2012						
	Financial closure	: Achieved on 24/02/2011						
	Main Plant Order	: 28/05/2010 (BTG) on M/s Shandong Runch Power Plant Engg and Technology Limited.						
	Type of fuel	**: COAL**						
	PPA	: Participating in the Bids						
	Power Evacuation system	: BPTA signed with PGCIL on 24/02/2010. LTOA signed with PGCIL on 12/06/2013.						
	• **Land:** Total land of 880 acre acquired • **Water:** Agreement between IBPML and South Ganga was signed on 03/04/10. • **MOEF**: clearance obtained on 12/07/2010. • **SPCB**: Consent obtained on 17/10/2013. • **Civil Aviation:** clearance obtained on 24/08/10 • **PPA:** To be executed through case –I bidding. • **BPTA:** signed with PGCIL on 24/02/2010							
Critical issues	**Work held up due to no PPA in the market.**							
Reasons for Delay								

Uncertain

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								
7	**Udangudi STPP - Stage-I** **Distt. Thoothukudi, Tamil Nadu** **[TANGEDCO]**	1 2	660 660	12/20 02/21 12/20 02/21	03/21 05/21	04/22 04/22 06/22 06/22	05/22 07/22	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 124 m completed. *TG foundation completed. *Mechanical Erection of Boiler I & II under 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 2 months. 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.
	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	: 1322.413 Crores (up to 01/21)						
	Total Expenditure	**: 2432.547 Crores (up to 01/21)**						
	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 Jettey 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 m^3/hr and outfall discharge of 13500 m^3/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 - 11.02.2021

Eastern Region
Thermal Power Plants

BROAD STATUS OF THERMAL POWER PROJECTS IN BIHAR

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch Comm	COD	Syn. Comm	COD	
State Sector								
1.	**Barauni Extn TPS P.O.: Barauni, Dist: Begusarai Bihar (BSPGCL)** **(2x250 = 500 MW)**	8	250	02/14 / 05/14		14.11.17(A) / 11.01.18(A)	05/18	**Unit-8 :Commissioned on 11.01.2018. Synchronisation on 14.11.2018.** **Boiler:** Boiler erection started on 10.12.12. Drum lifted on 05/09/13. Erection of pressure part, ID/FD/PA Fans, APH, piping completed. HT done on 21/08/14. Non drainable Hydro Test completed. Boiler Light Up with LDO on 18.06.2017, SBO completed on 04.09.17. Synchronized on 14.11.17 **ESP:** Mechanical erection completed and one stream is ready for use. Another stream of ESP is in progress. Insulation & cladding is under progress • **TG**: Erection of Condenser & TG started on 26/08/14 and 25/08/14 respectively. TG Boxed up on 31/12/15 .TG oil flushing completed in 12/16.
		9	250	04/14 / 07/14		31.03.18(A) / 31.03.18(A)	06/18	**Unit-9: Synchronisation &Commissioned on 31.03.2019.** • **Boiler**: Erection started on 02-12-12, Drum lifted on 15.09.13. HT (D) done on 21.09.14. Boiler stage-1 hydro test of unit 9 was successfully completed on 21.09.2014. Non Drainable Hydro Test completed on 10.08.17. BLU done on 29.08.2017, • **ESP:** Mechanical erection completed. Other works are in progress. • **TG:** Condenser & TG erection started on 26/08/14. TG Boxup completed 30.06.2016.

Original /Latest Cost	:Rs 3666.06 Cr. / Rs. 5308.07 Cr
Expenditure during 2008-09	Rs 25.00 lakhs
Expenditure during 2009-10	:Rs 00.00 lakhs
Expenditure during 2010-11	:Rs 12500.00 lakhs
Expenditure during 2011-12	:Rs 25958.00 lakhs
Expenditure during 2012-13	:Rs 67706.00 lakhs
Expenditure during 2013-14	Rs 145630.00 lakhs
Expenditure during 2014-15	:Rs 77058.00 lakhs
Expenditure during 2015-16	Rs 87030.00 lakhs
Expenditure during 2016-17	Rs 64041.00 lakhs
Total Expenditure	:Rs 479951 Lakhs (up to 03/17)
Approval date:	
Zero date:	: 11.03.2011
Financial closure	: Achieved in 2015 with PFC
Main Plant Order	The order for EPC was awarded to M/s BHEL on nomination basis on 11.03.2011
BOP Package	Order for BOP's placed on • M/s Mc Nally Bharat Engg. Co. Ltd. for CHP on 15.05.12. • M/s Mc Nally Bharat Engg. Co. Ltd. for AHP on 15.05.12. • M/s Gannon Dunkerley & Co. Ltd. for Chimney on 19.04.12 • M/s Paharpur Cooling tower for CT on 10.08.13.
Type of fuel	Coal
PPA	Dt 31.12.2010
Power Evacuation system	• LILO at Barauni of Begusarai-Biharsarif 220KV D/C done. Power evacuation system expected to be ready by Dec-2015.

- **Land:** Land acquired. except land required for ash dyke and intake water system
- **Water Allocation**: Approval for 60 cusec water from River Ganga has been obtained from Irrigation Department, Govt. of Bihar. Approval for 45 cusec water from River Ganga has also been received from Central Water Commission.
- **MOE&F Clearance**:MoE&F clearance obtained on 08.05.14.
- **Civil Aviation Clearance**: Aviation clearance obtained from AAI on03-08-09.

BoPs:

- **Chimney:** Completed in all respect including aviation light.
- **CT:** Erection of water distribution system, drift eliminators and equipment completed for IDCT of unit#8 and unit#9.
- **CW System:** EOT crane erected. Erection of pumps and motors completed. Trail run is also under progress.
- **CHP:The work of WT is on hold**. WT civil work 60% completed. Geo-Teck survey completed in wagon tipler, M/s BHEL started the isolation of affected structure by cutting through M/s HILTI.Cutting work completed.Revisied layout drawing is under approval of railway authority.
- **AHP**: Order for civil work placed on M/s McNally Bharat. Vacuum pump house equipment erection completed. ASPH building is ready and Ash slurry pumps erection completed. Erection of ash silo under progress. Land for ash dyke acquired and possession of the same is u/p.Erection of ash pipe rack work is in progress. Contingency arrangement made for ash disposal in HFCL Pond (Ash Dyke) completed.
- **PT Plant:** Ready in service. Intake water system ready with temporary arrangement at Ganga.
- **DM plant:** Ready in service.
- **FOS:** HFO & LDO tanks erection completed. Insulation is pending.
- **Switchyard:** 220 kv switchyard charged on 03.03.2016. Station transformer of unit 8 & 9 erection, testing completed and got charged. 132Kv switchyard ICT -1&2 testing work u/p.GT of U8 erection completed and for U9 erection is u/p.
- **FGD:Revised estimate for tender towards appointment of Project Management Consultant for "Feasibility study, selection of implementing agency and supervision of installation, commissioning, testing & inspection till completion of project for installation of FGD ,SCR etc at 2X250MW extension project of Barauni TPS, Begusarai as per revised emission norms declared by MoEF&CC is under consideration**

Critical issues	1. Construction of Ash dyke, Railway siding, Readiness of CHP, Intake Water System. 2. Heavy water percolation in WT pit so work is on hold.
Reasons for Delay	1. Acquisition of land for laying water pipeline from river Ganga to power plant and Ash Dyke area. 2. Drainage facility for seepage water from Wagon Tippler area. 3. Readiness of Raw Water System and DM plant.

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch Comm	COD	Syn. Comm	COD	
Private Sector								
2.	**Siriya TPP (JAS INFRA) Village.: Siriya, Dist.: Banka Bihar (4x 660 = 2640 MW)**	U-1	660	08/14		Uncertain		**Unit-1:** Boiler: Civil foundation of boiler, ESP & Chimney completed. Civil foundation of PHB & Mill-Bunker building under progress. 2730 MT Structural Steel in PHB erected. Fabrication of 9000MT Structural steel completed. **Unit-2:** **Boiler:** Boiler foundation work was started. **Unit-3:** Civil works yet to start. **Unit-4:** Civil works yet to start **Presently no work is in progress at site.**
		U-2	660	12/14		Uncertain		
		U-3	660	04/15		Uncertain		
		U-4	660	08/15		Uncertain		
	Original Estd. Cost	:Rs 11,120.00 Cr.						
	Latest Est. Cost	: Not Avialable						
	Expenditure during 2013-14 Expenditure during 2014-15 Expenditure during 2015-16	Not Avialable						
	Total Expenditure	: Not Avialable						
	Approval date:							
	Zero date:	: 30.03.2011						
	Financial closure	:						
	Main Plant Order	M/s Dongfang Electric Corporation Ltd., China						
	BOP Package							
	Type of fuel	Coal						
	PPA							
	Power Evacuation system							
	• **MOE&F Clearance**: MOE&F Clearance received vide letter NO. J-13012/89/2008-IA. II(T) dated 29.06.2011 • **SPCB Clearance**: NOC for consent to establishment obtained from BSPCB. • **Civil Aviation Clearance**: Aviation Clearance has been obtained from Airport Authority of India.							
Critical issues								
Reasons for Delay								

Uncertain

BROAD STATUS OF THERMAL POWER PROJECTS IN JHARKHAND

Sl. No	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch Comm	COD	Syn. Comm	COD	
Private Sector								
1.	**Matri Shri Usha TPP** **M/s Corporate Power Ltd.** **Distt. Latehar** **Jharkhand** **(4 x 270 = 1080 MW)**	U-1	270	03/12 04/12	05/12	Uncertain		**Phase-I** **Unit-1:** • **Boiler**: Erection started on **05/10/10**. Boiler drum lifted on **31/03/11. HT** done on **28/12/11**. Erection of 3/6 bunker completed. • **ESP**: ESP is ready • **TG**: condenser erection started on 25/05/11, Turbine erection started 15/6/11. **TG** boxedup in **10/12**. **Unit-2:** • **Boiler**: Erection started on 19/12/10. Boiler drum lifted on **19/07/11. HT** completed on **10/12.** • **ESP**: ESP is ready • **TG**: condenser erection started on 24/08/11, Tube insertion is under progress Turbine erection started 13/10/11. HPT & IPT placed on the deck. **Phase-II** **Unit-3:** • **Boiler**: Erection started on 06/11. Boiler drum lifted on **12/11** • **ESP** **TG:** TG erection started in 10/12. **Unit-4:** • **Boiler**: Erection started on 07/11. Boiler drum lifted on 04/**12** • **ESP:** • **TG:** TG deck is ready. **BoPs:** • **Chimney:** Completed in all respect • **CHP**- 98% structure erection completed • **AHP**- FA silo completed. Erection of Bottom Ash Hopper completed. • Station transformer & Unit Transformers and associated systems is in ready. Generator Transformer is placed on foundation. • **ATS** balancework is to be taken up after stage – II Forests clearance is obtained. • PT plant, DM plant, CW system, Fire protection system Fuel oil system & Switch yard completed.
		U-2	270	04/12 05/12	06/12	Uncertain		
		U-3	270	09/12 10/12	10/12	Uncertain		
		U-4	270	12/12 01/13	01/13	Uncertain		
	Original Cost /Latest Cost	Ph.-I: Rs. 2900.00 Cr, Ph.-II: Rs.3182.00 Cr						
	Expenditure during 2008-09 Expenditure during 2009-10 Expenditure during 2010-11 Expenditure during 2011-12 Expenditure during 2012-13	Ph-I - .312000 Lakh Rs (upto 11/12) Ph-II – 220700 Lakh Rs. (upto 9/12)						
	Total Expenditure	Ph-I - Rs. 3120 Crores Ph-II - Rs. 2207 Crores						
	Approval date:							
	Zero date:	09/2009 for Phase-I 12/2009 for Phase-II						
	Financial closure	05/12/2009 for Phase-I with REC 28/03/2011 for Phase-II.						
	Main Plant Order	Letter of Acceptance for Main Plant Order (EPC) issued to M/s BHEL on 09/2009.						
	BOP Package	Order for BOP's placed on • M/s Energo Engg. Projects. Ltd. for CHP on 06.05.10. • M/s DCIPS. for AHP on 08.10.10. • M/s Simplex Infrastructure Ltd. for Chimney on 03.05.10 • M/s Paharpur Cooling tower for CT on 04.05.10.						
	Type of fuel	Coal						
	PPA	PPA executed with Lanco Trading Co. in April 2010						
	Power Evacuation system	LILO at Barauni of Begusarai-Biharsarif 220KV D/C done. Power evacuation system expected to be ready by Dec-2015.						
Critical issues	1.Associated Transmission System for a short distance is to be taken up after Stage-II forest clearance is obtained.							
Reasons for Delay	**Work held up due to payment issue with BHEL since 11/12. Commissioning Schedule will be assessed after restart of work.**							

Uncertain

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch Comm	COD	Syn. Comm	COD	
Private Sector								
2	**Tori TPP Essar Power (Jharkhand) Ltd. Distt. Angarha Latehar Jharkhand** **(3x660=1980 MW)**	Ph-I 1	600	05/12 07/12	07/12	**stressed**		**Phase-I** **Unit-1:** • **Boiler:** Boiler erection started in 04/12. • **ESP:** Foundation work completed. • **TG** Civil work started in 15.12.11; hall foundation completed. TG building structural fabrication completed. **Unit-2** • **Boiler**: Erection started in 15/12/13 • ESP: Foundation work completed. • **TG:** TG civil work started on 15/12/13. **Phase-II** **Unit-3** –Work not yet started. **BoPs:** • **Chimney: Order placed on** M/s Essar Projects India Ltd.. Windshield work completed. Flue can fabrication 60% completed. • **CHP:** Order placed on M/s Elecon engg & Mcnally Bharat Engg.Co • **AHP:** Basic engineering completed. • **CT:** Order placed on M/s SPIG Cooling Tower India Pvt. Ltd. • **PT & DM Plant:** 40% material received. • **FPS:** Order placed on M/s Brijbasi Hi-tech Udyog Ltd on 15.11.10. • **Switchyard:** Order placed on M/s Alstom T&D on 22/12/10 **Presently no work is in progress due to financial constraints**
		2	600	08/12 09/12	10/12			
		Ph-II 3	600	10/15 12/15	12/15			
	Original /Latest Cost	: Rs.570000 Lakh Rs. 250000 Lakh						
	Expenditure during 2009-10 Expenditure during 2010-11 Expenditure during 2011-12 Expenditure during 2012-13 Expenditure during 2013-14 Expenditure during 2014-15 Expenditure during 2015-16 Expenditure during 2016-17	Phase-I / Phase-II : Rs 10641 Lakh Rs. Nil : Rs. 42437 Lakh Rs. 2825 Lakh : Rs.162489 Lakh Rs. 13845 Lakh : Rs. 32446 Lakh Rs. 3172 Lakh : Rs. 96502 Lakh Rs. 4760 Lakh : Rs. 37649 Lakh Rs. 63 Lakh Rs. 66430 Lakh Rs. --- Rs. 23265 Lakh Rs. ---						
	Total Expenditure	**Ph-I: Rs.4718.59 Cr. (till 12/16)** **Ph_II: Rs.246.65 Cr (till 3/15)**						
	Approval date:							
	Zero date:							
	Financial closure	Achieved						
	Main Plant Order	Ph-I: 18/08/2008 - Main plant Civil & Structural work on Essar Projects (I) Ltd. BTG on M/s Harbin Power (HPE) Engineering, China in 11/2008 Ph-II: Main plant Civil works on EPI Ltd on 26/02/2010 BTG on HPE						
	BOP Package	Order for BOP's placed on • M/s Mc Nally Bharat Engg. Co. Ltd. And Elecon Engg. For CHP on 22.09.10 & 31.08.10. • M/s Mc Nally Bharat Engg. Co. Ltd. for AHP on 15.09.11. • M/s Essar Projects India Ltd. for Chimney on 18.08.10 • M/s SPIG Cooling tower India Pvt. Ltd for CT on 19.11.10.						
	Type of fuel	COAL						
	PPA	1.450MW+300MW with BSEB 2.PPA signed with JSEB for 12% of the total power generated at variable cost under MoU route 3. Draft PPA submitted to JUVNL for 13% of the total power generated at JSERC rates under MoU route.						
	Power Evacuation system	BPTA signed with PGCIL and bay agreement executed. PGCIL is setting up 400KV substation near the project.						
	• Land 1210 acres of land required for both the Phases I&II of (2x600 +1x600 MW) is available. • BOPs are common for both units. • MOEF clearance already available for U-I of Phase-I. Clearance for U-2 of Phase-I and U Phase-II received vide MOEF letter dated 14.11.2013. • Civil Aviation Clearance: NOC for height of chimney is valid tilltill 21.07.2020 • SPCB: Clearance obtained from JSPCB is valid till 31.03.2016 • Coal: Due non availability of MOEF clearance for the Chakla & Ashok Karkatta coal block allotted to this project it is proposed to import coal from Indonesia & Australia for the time being. • Water Source of water is from Damodar and Amanat rivers which are 20 &30 KMs from the site.							
Critical issues	Mega Power Project status is yet being issued from MoP due to which 97% imported main plant equipment are lying at site/ Port. Tapering coal linkage.							
Reasons for Delay	Reasons for Delay:- Delay in MoE&F Clearance` (14.11.2013 for U2 & U3), Change of design in water cooled condens to air cooled condenser due to water availability issue, Law & order issue, delay in grant of Mega power project statu cancellation of coal block and non-availability of tapering / long term coal linkage etc.							

Stressed

BROAD STATUS OF THERMAL POWER PROJECTS IN ODISHA

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch Comm	COD	Syn. Comm	COD	
Private Sector								
1	**Ind Barath TPP M/s Ind-Barath Energy (Utkal) Ltd. (Distt-Jharsuguda)**	1	350	07/11 09/11	10/11	**18.06.15(A) 25.02.16(A)**	**20.07.16(A)**	**Unit-1:** **Full load achieved on 25.02.16. COD declared on 20.07.2016.**
	(2x350 700 MW)	2	350	10/11 12/11	12/11	Stressed		

Original / Latest Cost	:Rs 3150.00 Cr. / 4001.00 Cr
Expenditure during 2010-11	Rs 100000 lakhs
Expenditure during 2011-12	:Rs 85000 lakhs
Expenditure during 2012-13	:Rs 110000 lakhs
Expenditure during 2013-14	:Rs 47000 lakhs
Expenditure during 2014-15	:Rs 54800 lakhs
Expenditure during 2015-16	:Rs 26200 lakhs
Expenditure during 2016-17	:Rs 2300 lakhs
Expenditure during 2017-18	Rs 100 lakhs
Total Expenditure	:Rs 4254.00 Cr (up to 04/17)
Approval date:	29.03.2010
Zero date:	: 16.05.2009
Financial closure	: FC achieved on 14.05.2008 with M/s Axis Bank Ltd.
Main Plant Order	: Cethar Vessel(16.05.2009) Chinese
BOP Package	**Awarded to punj Lloyd on 07.01.2010**
Type of fuel	Coal and Fuel Linkage MCL
PPA	PPA signed with GRIDCO on 14.9.09 & TNEB on 8.8.13.
Power Evacuation system	Bulk Power Transmission Agreement (BPTA) with PGCIL in 24.02.2010

- **Land**: Required land acquired
- **MOEF:** Clearance of MOEF has been obtained on 30.11.2009
- **Water:** Approval to draw water from Mahanadi river obtained on 23.02.2008
- **SPCB:** Clearance obtained from Orissa SPCB on 13.08.2010
- **Civil Aviation:** Clearance obtained from AAI on 14.07.09

Unit-1:

- Boiler: Boiler erection started in 01/11, Erection of feeders & tripper, all bunkers & Liners erection and mills completed. SBO completed on 15.12.14. Drum lifted on 30.5.11, HT completed on 24.05.12. BLU completed on 9.01.15.
- ESP: work completed
- TG: TG erection commenced in 5/12. TG boxed up on 23.05.14, Oil flushing completed on 10.10.14. Unit synchronized on 18.06.15

Unit-2:

- **Boiler:** Boiler erection started in 05/11, Drum lifted on 26.12.11. **HT(D)** completed on 20.05.14.
- **ESP:** Erection completed insulation & cladding of ESP and hot gas ducts is in progress.
- **TG:** TG erection started in 09/12.Erection of TG & condenser completed.TG boxed up to be re-inspected and final Box up is in progress.

BoPs:

- **Chimney:** Completed for both the units.
- **CHP**: structural erection completed and electrical work in progress, Track hopper completed, Bunker, coal feeder and mills erection completed. Tripper erection completed
- **AHP:** U-2 BAH expected in 12/17 and F/A system work is in progress.
- **CT**: completed for U-1 and that for U-2 is in progress.
- **PT Plant:** completed
- **DM plant:** Ready to use., already functional for U-1.
- **CW system:** Already functioning for U-1.
- **FO System:** for U-1 & U-2 completed.
- **Switchyard:** completed in all respect and is being used for evacuation of power for U-I.

Critical issues	1.Non readiness of CHP & AHP and ATS for Unit-2 2. Completion of bottom ash hopper
Reasons for Delay	1. Very slow progress of civil work 2. Supply of main Plant material 3. Readiness of power evacuation system 4. Completion of firing guns/burners due to technical problem in design. 5. Mainly financial constraints due to non-disbursement of funds by financer.

STRESSED

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch Comm	COD	Syn. Comm	COD	
Private Sector								
2.	**Lanco Babandh TPP (Distt-Dhenkanal) (M/s Lanco Babandh Power Ltd.) (2x660 = 1320 MW)**	1	660	02/13 04/13	05/13	Stressed		**Unit-1** **Boiler:** Boiler erection started in 05/11. Main structural erection completed. Boiler Pressure parts erection, Enclosure wall erection are in progress. Burner erection completed. **ESP:** 58% structural erection completed. All hoppers erected. Pass-A collecting electrode erection completed and Pass B electrode erection was in progress. Pass-A outlet and Inlet funnel erection completed. **TG:** Deck casting completed. Both EOT cranes commissioned.TG erection started in 11/15. HPT, IPT & LPT are not received at site. HPH & LPH erection completed. Foundations of MDBFP#1 & CEP#1 completed. **Unit-2** **Boiler:** Erection started in 9/11. All ceiling girders erected. Handrails and Platforms work completed at various levels. Burner erection was in progress. Preparatory work for Pressure part erection yet to complete. **ESP:** 41% of structural erection completed. Hopper erection is in progress. Pass A-2/9 Collecting electrode erection completed. Pass C- hopper assembly erection and casing wall assembly work completed. **TG**: EOT crane commissioned. Columns upto deck bottom completed, MDBFP#2 foundation completed. CEP & CW Pit #2 raft completed. MDBFP#2 foundation completed. **BoPs:** • **Chimney:** 252/270m shell construction completed. Flue can fabrication was in progress. • **CT:** FRP Cooling tower awarded to Paharpur. **IDCT#1** 305/454 raft footing work completed. 275/481 nos column completed. Excavation upto 70% completed for IDCT#2 and raft footing work was in progress. • **CHP:** Track hopper raft and both side walls completed. Crusher house foundation work completed. Stacker reclaimer footing raft completed.. JTs foundation work completed. Crusher house civil work completed. • **AHP:** RCC of BAH#1 completed. Raft footing completed and wall final lift is in progress for ASPH. Ash silo raft#1 completed. 8/26 nos. footing completed for Ash compressor house building • **PT/DM plant:** Foundation work completed. DM building structure erection completed and equipment erection in progress. Clarifloculator ring wall in progress. DM tank-1 erection completed. • **FO system:** 2LDO + 2HFO fuel oil tanks erection completed. LDO-2 water fill test completed. • **Switch yard:** Erection of 23 nos. towers & 18 nos. of beam completed. S/Y equipment received at site.Control room building brick work completed and preparation for slab casting has started. **Presently work at site almost held up due to financial constraint**
		2	660	06/13 08/13	09/13	Stressed		
	Original / Latest Cost	:Rs 6930.00 Cr. / Rs. 10430.00 Cr						
	Expenditure during 2010-11	Rs 135000 lakhs						
	Expenditure during 2011-12	:Rs 214100 lakhs						
	Expenditure during 2012-13	:Rs 78400 lakhs						
	Expenditure during 2013-14	:Rs 54700 lakhs						
	Expenditure during 2014-15	:Rs 62200 lakhs						
	Expenditure during 2015-16	:Rs 128000 lakhs						
	Expenditure during 2016-17	:Rs 89100 lakhs						
	Total Expenditure	:Rs 7615.00 Cr(up to 03/17)						
	Approval date:							
	Zero date:	: 17.11.2009						
	Financial closure	: Achieved on 08.09.2010						
	Main Plant Order	Main plant order placed on Lanco Infaratec Ltd. On 17/11/2009, Boiler: DEC China, TG: HEC China.						
	BOP Package	BOPs to LTTL						
	Type of fuel	Coal						
	PPA	Revised PPA signed with GRIDCO, Odisha for 25% power sale on 4.01.11. LBPL signed PPA with UPPCL for 454MW on 08.08.13 & with RVPNL for 374MW on 01.11.13.						
	Power Evacuation system	BPTA signed with PGCIL for 1600 MW on 24.02.10(Revised to 800MW as per CERC order). 25KM of transmission line is planned for power evacuation from LBPL project to PGCIL Angul pooling station. The power shall be evacuated at 400KV level through 1 D/C quad Moose transmission conductor. Section 68 and Section 164 approval received from MoP.						
	• **Land:** 889 acres out of 933 acres' land acquired. (95%) • **MoE&F**: Clearances obtained on 17.02.10 and is valid upto 31st Mar 2017 • Forest: II-Stage clearance received on 31.12.13 from MoEF • **Water:** Principle approval received for 40 cusecs water for U-1 &U-2 on 07.02.09. Renewal received on 18th Jan'16 • **Coal linkage:** Coal linkage for U-1 received on 29.12.08 for 2.83MTPA. FSA has been executed with MCL on 26.04.16. • **SPCB**: NOC obtained on 20.05.09 from Odisha SPCB and it is valid till 19.05.19 • **Civil Aviation:** NOC obtained on 03.09.08 and valid till 02.09.2020							
Critical issues	1. Work was held up due to financial constraints, now the work restarted. 2.Acquisition of Ash pond and corridor land. 3. Transfer of Govt. land to the project.4.LBPL has requested MoC/MoP to grant normal Linkage in lieu of cancellation of Rampia Coal Mine for Unit#2							
Reasons for Delay	Work almost held up due to financial constraint presently.							

Stressed

Sl. No	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch Comm	COD	Syn. Comm	COD	
Private Sector								
3	**Malibrahmani TPP M/s Monnet Ispat (Distt-Angul) (2x525 = 1050 MW)**	1	525	10/12 12/12	01/13	Stressed	----	**Unit-1:** • **Boiler:** Erection started on 18.08.11. Erection of pressure part is in progress, welding of HP joints is in progress. Feeder floor casted, 4 mills installed and 4 mills are yet to be installed. • Drum lifted on 21.03.12., HT completed on 3.4.13 Boiler light up expected after restart of work. • ESP: All 4 passes completed and air test done. Control room completed, panel erection and cabling done. • **TG:** Condenser erection started on 01.08.12, Turbine erection started on 28.01.13. Generator stator erected, TG box up yet to be done.
		2	525	12/12 02/13	03/13		----	**Unit-2:** • **Boiler:** Erection started on 10.10.11, 4 out of 8 mills are installed, foundation of PA and FD fans completed. Drum lifted 21.07.12. HT & BLU may be assessed after start of work. • **ESP:** Erection of pass B, C & D done and pass A yet to be done. • **TG:** Condenser erection started on 7.02.13 and TG erection started in 08/2015, TG box up may be assessed after restart of work.
	Original /Latest Cost	:Rs 5093.00 Cr./ Rs. 6330.00 Cr						**BoPs:** • **Chimney:** Chimney shell casting completed flue can erection for U-I completed, for U-II two top segments erected. • **CHP:** Fabrication and erection of CHP structure are in progress along with equipment erection could be completed after restart of work. • **AHP:** Civil work for ash slurry sump, pump house, ash water pump house and silos completed. Pipe erection was in progress. • **IDCT:** Orders placed to M/s Indure 0n 22.02.2010. Construction of cooling tower for both the units are completed in all respect, mechanical and electrical erection work not completed. • **DM Plant:** Civil & structural work is completed mechanical and electrical erection not completed. • **PT Plant:** Civil work completed, mechanical and electrical erection to be done. • **CW System:** Pump house completed. Pumps and associated pipe lines erection are to be erected. • **FO System:** Pump house, tank erection, pipe rack work is yet to be completed. • **Fire Protection:** Fire water pump house civil construction is completed and mechanical & electrical erection yet to be done. • **Switchyard:** Construction completed. Commissioning and testing work not completed. ***Work held up due to financial constraints**
	Expenditure during 2010-11	Rs 63300 lakhs						
	Expenditure during 2011-12	:Rs 78292 lakhs						
	Expenditure during 2012-13	:Rs 143681 lakhs						
	Expenditure during 2013-14	:Rs 126817 lakhs						
	Expenditure during 2014-15	:Rs 120885 lakhs						
	Total Expenditure	:Rs 5329.75 Cr (up to 12/2014)						
	Approval date:							
	Zero date:	: 12.06.2009						
	Financial closure	: Achieved on 23.08.2010						
	Main Plant Order	Main plant order placed on M/s BHEL						
	BOP Package							
	Type of fuel	Coal						
	PPA	PPA signed with GRIDCO for 117MW for 400 MW with West Bengal through PTC.						
	Power Evacuation system	400KV double circuit transmission line up to proposed PGCIL pooling station, which is 31km away from power plant.						
	• **Land**: 770 acre acquired out of 995 acre required. • **MOEF:** Clearance of MOEF has been obtained • **Water:** Water allocation done • **Coal linkage:** Mandakini captive coal mines. • **SPCB:** Clearance obtained from Orissa SPCB. • **Civil Aviation:** Clearance obtained from AAI							
Critical issues								
Reasons for Delay	**Paucity of fund.**							

Stressed

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch Comm	COD	Syn. Comm	COD	
Private Sector								
4	**KVK Nilachal TPP, Ph-I Kandarei, Odisha (Distt-Dhenkanal) M/s KVK Nilanchal Ltd. (3x350 = 1050 MW)**	1	350	10/11 12/11	01/13	Stressed	…..	**Unit-1:** • **Boiler:** Boiler erection started on 20.06.11, structural erection started. Drum lifting may be completed after restart of work. • **ESP:** Foundation work completed, structural erection completed upto hopper level. • **TG:** Deck casting partially completed, Foundation of all three MDBFPs completed. **BoPs:** • **Chimney:** 90 mtr. Chimney shell completed. **Note: No work is under progress presently.**
		2	350	01/12 02/12	03/13	Stressed	-----	
		3	350	01/12 02/12	03/13	Stressed	-----	
	Original / Latest Cost	:Rs 4990.00 Cr./ Rs. 6000.00 Cr						
	Expenditure during 2008-09	Rs 11974.41 lakhs						
	Expenditure during 2009-10	:Rs 20861.15 lakhs						
	Expenditure during 2010-11	:Rs 35187.00 lakhs						
	Expenditure during 2011-12	:Rs 75226.00 lakhs						
	Expenditure during 2012-13	:Rs 15740.00 lakhs						
	Expenditure during 2013-14	:Rs 5847.00 lakhs						
	Expenditure during 2014-15	:Rs 6000.00 lakhs						
	Total Expenditure	:Rs 1708.36 Cr (up to 03/15)						
	Approval date:							
	Zero date:	: 09.11.2009						
	Financial closure	: Achieved for Ph-I(1X350MW) in 07/08 and Ph-II (2X3501MW) in 08/10						
	Main Plant Order	BTG-Harbin, China, 09.11.09						
	BOP Package							
	Type of fuel	Coal						
	PPA	PPA signed for (1000MW)						
	Power Evacuation system	Bulk Power Transmission Agreement (BTPA) with PGCIL						
	• **Land**: Required land acquired. • **MOEF:** Clearance obtained vide letter no.J-13011/51/20008-IA.II(T) DT.18/02/2009 • **Water:** Allocated by GoO vide letter irr-ii-wrc-73/08/15032 dt. 15..04.20008 for 48 cusecs from Mahanadi. • **SPCB:** Clearance obtained for SPCB Orissa vide letter no..26748/Ind-II-NOC-5065 dt.19.12.2008 • **Civil Aviation:** Received AAI vide letter No. AAI/20012/131/2007-AR(NOC)							

Critical issues	
Reasons for Delay	1.Law and order problem 2. Work held-up due to stay by honorable HC of Odisha. From 18.05.12 to 05/2015

Stressed

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, WBPDCL (1x660MW)**	5	660	09/23	01/24			**BTG:** Agency has mobilized at site. Detail Engineering & finalization of drawings are in progress. Boiler Civil work started on 19.11.2020. **ESP** : Civil piling work is in progress. Detail Engineering & finalization of drawings are in progress. **Cooling Tower :** Agency has mobilized at Site. Construction work commenced on 20.12.2020. Detail Engineering is in progress. **CHP**: Basic Engineering & finalization of drawings are in progress. Excavation work for Twin wagon Tippler has started. **Chimney**: Tender floated on 10.12.2020 for selection of agency. **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							
	Total Expenditure (Upto 12/2020)		:Rs 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 WBPDCL. **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

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch Comm	COD	Syn. Comm	COD	
Private Sector								
2.	**Hiranmaye Energy TPP (3x150MW)** **Hiranmaye Energy Limited** **PO-Shibramnagar, Haldia, Dist.-Purba Medinipur-721635, West Bengal** **(3 x 150 = 450 MW)**	1	150	10/15 11/15	11/15	**19/03/17 (A)** **07/06/17(A)**	**13/08/17(A)**	**Unit-1** **COD achieved on 13/08/17. Full load achieved on 07/06/2017. Unit Synchronized on 19/03/17.** **Boiler:** Boiler erection started on 25.03.14. Drum lifted on 04.**12**.14. HT completed on 16/09/2015. BLU completed on 21.08.16. SBO completed 10.12.16. Unit synchronized on 19-03-17. **TG:** TG erection started on 16.08.15 Box up completed on 20/05/16. TG oil flushing completed on 14.10.16. Unit synchronized on 19-03-17.
		2	150	01/16 2/16	02/16	**31/12/17** (A) **31/12/17(A)**	**31/12/17(A)**	**Unit-2** **COD achieved on 31/12/17. Full load achieved on 31/12/17. Unit Synchronized on 31/12/17.** **Boiler:** Boiler erection started on 25.06.14, Drum lifted in 23.02.15. 2218/2526 MT structural erection completed. HT(D) done **on** 16.09.16. BLU done on 10.07.17. **ESP:** 2153/2158 MT structural erection completed. Hopper erection is in progress. **TG:** Deck casting completed. TG erection started on 05/05/16. TG box up done 15.10.17, TG Oil Flushing done on 18.10.17.
		3	150	05/16 05/16	05/16	*	*	**Unit-3** **Boiler:** Boiler erection started on 15.05.15. 1320/3274MT structural erection completed. Drum lifted on 14.01.16. **P**iling of 2/4 mill completed. Excavation for ID/FD/PA has completed. **ESP:** Foundation completed. 567/2158 MT structural erection completed. **TG:** TG deck raft casting completed. Water has logged in this area. Presently no work is going on in this site.
	Original /Latest Cost	:Rs 2656.00 Cr./ Rs. 3307.00 Cr						
	Latest Est. Cost	:						
	Expenditure up to 2010-11 Expenditure during 2013-14 Expenditure during 2014-15 Expenditure during 2015-16 Expenditure during 2016-17 Expenditure during 2017-18	: Rs 107 lakh : Rs 111527 lakh : Rs 46764 lakh : Rs 86968 lakh : Rs 76130 lakh : Rs 4809 lakh						
	Total Expenditure	Rs 326305 lakhs (up to 10/17)						
	Approval date:							
	Zero date:	28-11-2013						
	Financial closure	Achieved on 22.12.2011 with REC						
	Main Plant Order	Placed to BHEL **29.09.2010**						
	BOP Package	Order for BOP's placed on • M/s Shristi Infrastructural Development Corp. Ltd & Scorpio Engg Pvt. Ltd. for CHP on 20.12.13. • M/s Shristi Infrastructural Development Corp. Ltd & Energo Engg. Project. Ltd. For AHP on 10.01.14. • M/s Simplex Infrastructural Ltd. for Chimney on 09.05.12 • M/s Paharpur Cooling tower for CT on 24.03.14.						
	Type of fuel	Coal						
	PPA	: For 300MW with WBSEDCL						
	Power Evacuation system	220KV Transmission line of length from plant to new haldia sub-station of WBSETCL.						
	• **Land:** Complete land acquired 213.71 acre, 198 from Haldia Development authority and rest from private. • **MoE&F**: Clearances extended on 30.08.15 upto 12.04.2017 vide letter No. J-13213/16/2014-IA. I(T) • **Water:** 15 MGD water is available from Haldia Development authority. • **SPCB**: NOC received from GoWB. • **Coal linkage**:Long term coal supply agreement No: SNRL/IPC(H)L/FSA 2015-16 between M/s Swaymbhu natural resources private limited and M/s India Power Corporation (Haldia) Ltd. • **Civil Aviation:** NOC vide letter No.AAI/20012/82/2010-ARI(NOC) date 23.10.2010 for construction of chimney extended upto 22.06.2022.							**BoPs:** •**Chimney:** Civil work for chimney completed. Flue can erection for U#1, 2 &3 completed. Platform erection completed •**CT: IDCT**-1&2 has completed in all respect. CT#3: Pile work was in progress. Presently no work is going on in this site •**CW System:** CWPH building completed. All Four CW pump commissioned. Laying of CW pipe completed for all the three units. Forebay and cold water channels completed. •**CHP:** Structural erection and floor casting of srusher house is completed. Stacker cum reclaimer has installed. Erection of galleries from coal stack yard to TP-1&2 is completed. Gallery from TP-2 to bunkers of U-1 is completed. Conveyor belt laid up to U-1 bunkers for one stream. MCC room completed. • **AHP:** Civil work of Ash Silo, Dewatering Bin, Ash slurry pump house, ash water pump house and control room building are completed. Construction of Slurry sump is completed. Erection of Ash water pumps and transport air compressors completed. MCC room is completed. Control room is ready. •**PT Plant:** Raw water reservoir completed. RGF commissioned and system is operational. •**DM plant:** DM plant is RO type. Erection of 2nos DM tank and 3nos.CST completed. DM plant commissioned. •**FO system: 2**LDO tanks and necessary pumping system ready. •**Switch yard: Structural** erection of 220KV equipment in switchyard is completed in all respect. •**FGD**: detailing of feasibility report is under process. ***Unit-3 work is totally on hold.**
Critical issues								
Reasons for Delay	Construction activity was stalled from beginning of 2011 to Sept 2014 due to following reasons: 1. Fresh clearance from Pollution Control Board for 3x150MW (Earlier it was acquired for 3x135MW) 2. MOEF moratorium for no construction activity in Haldia & Asansol industrial area in West Bengal							

Uncertain

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 **Exp. During 2011-12** **Exp. During 2012-13** **Exp. During 2013-14** **Exp. During 2014-15** **Exp. During 2015-16** **Exp. During 2016-17** **Exp. During 2017-18** **Exp. During 2018-19 (06/18)**		**Rs 2159 Lakhs** **Rs 12363 Lakhs** **Rs 10640 Lakhs** **Rs 2105 Lakhs** **Rs 2005 Lakhs** **Rs 12870 Lakhs** **Rs 2950 Lakhs** **Rs 2450 Lakhs** **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	Ministtry 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

(Monthly)

Under Construction

THERMAL POWER PROJECTS

मासिक प्रतिवेदन

(जनवरी - 2021)

(January - 2021)

Central Electricity Authority

Thermal Project Monitoring Division

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अंतिम पृष्ठ