

BROAD STATUS REPORT (Monthly)

Under Construction THERMAL POWER PROJECTS

दिसम्बर - 2019

December-2019



भारत सरकार

GOVERNMENT OF INDIA

विद्युत मंत्रालय

MINISTRY OF POWER

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



तापीय विद्युत परियोजना प्रबोधन प्रभाग

Thermal Project Monitoring Division

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

नई दिल्ली

New Delhi

FOREWORD

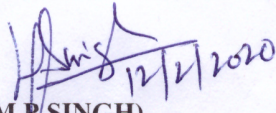
As per clause 73(f) of Electricity Act 2003, Central Electricity Authority is to “promote and assist in the timely completion of schemes and projects”. The Thermal Project Monitoring (TPM) Divisions of CEA are entrusted with the responsibility of monitoring the progress of construction/erection activities 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 Divisions, Central Electricity Authority have been bringing out monthly report entitled “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.

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.

Place: New Delhi
Dated: 12th February, 2020


(M.P. SINGH)
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. 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	13463.6	21151.35	53660.5	91730.45	76163.5	126.81%

1.C Thermal Capacity Addition during FY 2017-18 and FY 2018-19

Thermal capacity addition after 12 th Plan (from 01.04.2017 onwards)						
Sector	2017 - 18 (MW)		2018-19 (MW)		2019-20(MW) As on 31.01.2020	
	Target (MW)	Achievement (MW)	Target (MW)	Achievement (MW)	Target (MW)	Achievement (MW)
Central	4880	3170	2760	1300	6040	3280
State	3546.15	1260	4506.15	2780	4256.15	2120
Private	2940	2280	Nil	Nil	Nil	Nil
Total	11366.15	6710	7266.15	4080	10296.15	5400
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	5445

1. D. Sector-wise break up of under construction Thermal Power Projects are as follows:

(As on 31.01.2020)

SECTOR	CAPACITY (MW)
CENTRAL	19780
STATE	18726.15
PRIVATE	23730
TOTAL	62236.15

1.E. PROVISIONAL RFD FOR THE YEAR 2019-20

S. No.	Project Name	LOA Date	Unit No	Fuel	Targeted Cap. (MW)	Org. Comm. Sched.	Ant. Trial Run/ COD at the Beginning of the year	Achieved Cap. (MW)	Actual/ Ant. Date of Cap. Addition
CENTRAL SECTOR									
1	Nabi Nagar STPP	Jan-13	U-1	Coal	660	Jan-17	May-19	660	12.07.19(A)
2	Lara STPP	Dec-12	U-2	Coal	800	May-17	Dec-19		Mar-20
3	Gadarwara STPP	Mar-13	U-2	Coal	800	Sep-17	Dec-19		Mar-20
4	Khargone STPP St-I	Mar-15	U-1	Coal	660	Mar-19	Aug-19	660	29.09.19(A)
		Mar-15	U-2	Coal	660	Sep-19	Feb-20		Feb-20
5	Darlipalli STPP St-I	Feb-14	U-1	Coal	800	Feb-18	Aug-19	800	30.12.19(A)
6	Tanda TPP St- II	Sep-14	U-5	Coal	660	Sep-17	Sep-19	660	28.09.19(A)
7	Neyveli New TPP	Jun-11	U-1	Lignite	500	Mar-18	Apr-19	500	20.12.19(A)
		Jun-11	U-2	Lignite	500	Sep-18	Oct-19		Mar-20
Total Central Sector					6040			3280	
STATE SECTOR									
1	Dr.Narla Tata Rao TPS Stage-V	Dec-15	U-8	Coal	800	Jun-19	Feb-20		Oct-20
2	Namrup CCGT	Feb-09	ST	Gas	36.15	Jan-12	Nov-19		Mar-20
3	Wanakbori TPS Extn.	Oct-14	U-8	Coal	800	Oct-18	Nov-19	800	12.10.19(A)
4	Yelahanka CCPP	Nov-15	GT+S T	Gas	370	Mar-18	Nov-19		2021-20
5	Ib valley TPP	Mar-14	U-3	Coal	660	Aug-17	Apr-19	660	01.07.19(A)
		Mar-14	U-4	Coal	660		Jul-19	660	17.08.19(A)
6	Suratgarh SCTPP	Mar-13	U-7	Coal	660	Jul-16	Nov-19		Feb-20
7	Bhadradri TPP	Mar-15	U-1	Coal	270	Mar-17	Jan-20		Feb-20
Total Sector Sector					4256.15			2120	
TOTAL THERMAL CAPACITY ADDITION					10296.15			5400	
ADDITIONAL PROJECTS									
PRIVATE SECTOR									
1	BLA Power Pvt. Ltd(Niwari) TPP	Apr-11	U-2	Coal				45	06.06.2019(A)
Total Private Sector								45	
Total Additional Capacity								45	
TOTAL GRAND THERMAL CAPACITY ADDITION								5445	

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 CCP	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				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 CCP	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	

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)	
Maharashtra	Bela TTP-I	IEPL	U-1	Dec-08	BHEL	270	270	09/12	20.03.13(A)	18.07.2013
	Butibori TPP	Vidarbha Industries Power Ltd	U-2	Dec-09	Chinese	300	300	08/12	17.08.12 (A)	04.04.2013
	EMCO Warora TPP	EMCO Energy Ltd. (GMR)	U-1	Sep-09	Chinese	300	300	11/12	07.02.13(A)	19.03.2013
	Tirora TPP Ph-I	Adani Power Ltd	U-1	Feb-08	Chinese	660	660	08/12	11.09.12(A)	23.09.2012
	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
Maha-rashtra	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
Chhattis-garh	Tamnar TPP	Jindal Power	1	12/08	BHEL	600	600	10.03.2014	03/14	14.03.2014
Chhattis-garh	Vandana Vidyut TPP	Vandana Vidyut TPP	1	05/08	BOILER: CETHAR VESSELS LTD TG: CNAIC, CHINA	135		Slipped	06/13	
Chhattis-garh	DB Power TPP	DB Power Ltd	1	05/10	BHEL	600	600	23.02.2014	12/13	03.11.2014
Chhattis-garh	Swastik Korba TPP	ACB	1	02/10	BOILER: IJT; TURBINE: SIEMENS	25		Slipped	12/13	
Chhattis-garh	Akaltara TPP	KSK Mahanadi	1	04/09	SEC, CHINA	600	600	13/08/13	09/13	14.08.2013
MP	Sasan UMPP	Reliance Power	3	06/08	SEC, CHINA	660	660	30/5/13	05/13	
MP	Sasan UMPP	Reliance Power	2	06/08	SEC, CHINA	660	660	18/12/13	09/13	
Maha-rashtra	Nasik TPP Ph-I	India Bulls	1	11/09	BHEL	270	270	25.02.2014	09/13	29.03.2014
Maha-rashtra	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
Maha-rashtra	Dhariwal Infrastructure (P) Ltd. TPP	Dhariwal Infra-structure (P) Ltd.	2	04/10	SEC, CHINA	300		Slipped	12/13	
Maha-rashtra	EMCO Warora TPP	GMR EMCO Energy Ltd.	2	09/09	SEC, CHINA	300	300	27/08/2013	06/13	01.09.2013
Maharashtra	Tirora TPP Ph-II	Adani Power	1	02/08	SCMEC, CHINA	660	660	10/6/2013	06/13	14.06.2013

State	Project Name	Impl Agency	Unit No	LOA Date	BTG Supplier	Targeted Cap. (MW)	Actual Cap. comm. (MW)	Actual Comm. Date	At the beginning of the year	COD	
Orissa	Derang TPP	Jindal India Thermal Power	1	07/09	BHEL	600		Slipped	12/13		
Orissa	Kamalang TPP	GMR Energy	2	08/08	SEPCO III, 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		03.04.2012	
TN	Tuticorin Indbarath	Indbarath Ltd	2		Chinese		150	30/12/2013		15.03.2014	
Punjab	Rajpura TPP	Nabha Power	1	Jul-10	L&T		700	24/01/2014		01.02.2014	
Gujarat	Dgen CCPP	Torrent Power	Block-I	Jul-10	Siemens Germany		400	12/01/2014			
Maharashtra	Amaravati TPP Ph-I	India bulls Power Ltd	2	Nov-09	BHEL		270	17.02.2014		28.03.2014	
AP	Simhapuri TPS Ph-II	Simhapuri Energy Pvt Ltd	3	Mar-10	Chinese		150	21.02.2014		26.02.2014	
Gujarat	Dgen CCPP	Torrent Power	Block-3	Jul-10	Siemens Germany		400	09/03/2014			
Orissa	Kamalang TPP	GMR Energy	3	08/08	SEPCO III, CHNA		350	21/03/14		25.03.2014	
Maha-rashtra	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	
Chhattis-garh	Tamnar TPP	Jindal Power	2	12/08	BHEL		600	30.03.2014		31.03.2014	
Chhattis-garh	Chakabura TPP	ACBIL	1		Chinese		30	28.03.2014		30.03.2014	
West Bengal	Durgapur TPS Extn	DPL	8		BHEL		250	31.03.2014			
Chhattis-garh	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 Reatech	BHEL	Coal	U-2	24.11.09	270		Slipped	Jul-14	
Maharashtra	Dhariwal TPP	Dhariwal Infrastructure Ltd	Chinese	Coal	U-2	28.04.10	300	300	28.05.2014	Jun-14	02.08.2014
Orissa	Derang TPP	JIPL	BHEL	Coal	U-1	26.07.09	600	600	10.05.2014	Jun-14	06.06.2014
Punjab	Rajpura TPP (Nabha)	Nabha Power Ltd	L&T	Coal	U-2	16.07.10	700	700	06.07.2014	Jul-14	01.08.2014
Punjab	Talwandi Sabo TPP	M/s Sterlite	Chinese	Coal	U-1	18.07.09	660	660	17.06.2014	May-14	01.08.2014
Punjab	Talwandi Sabo TPP	M/s Sterlite	Chinese	Coal	U-2	18.07.09	660		Slipped	Sep-14	
WB	Haldia TPP	M/s Haldia Energy Ltd.	Chinese	Coal	U-1	14.09.11	300	300	14.01.2015	Dec-14	28.01.2015
Total Private Sector							5400	3650			
Total during 2014-15							14988.3	10228.3			

Additional Capacity Commissioned during 2014-15											
State	Project Name	Impl Agency	Equip. Supplier	Fuel	Unit No	LOA date		Actual Cap .comm. (MW)	Actual Comm. Date	At the beginning of the year	COD
Central Sector											
TN	Neyveli TPS Ph-II Exp	NLC	BHEL	Coal	U-2			250	24.01.2015		22.04.2015
Tripura	Monarchak gas power project	NEEPCO	BHEL	Gas	GT			65.4	30.03.2015		
Tripura	Agartala CCPP	NEEPCO	Thermax	Gas	ST-2			25.5	22.03.2015		
Total Central Sector (Addition in 2014-15)								340.9			
State Sector											
Gujarat	Dhuvaran CCPP	GSECL	Siemens Germany	Gas	Unit 1			376.1	21.05.2014		
Total State 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	03/2016		520	30.03.16(A)	03.07.2016
Chhattisgarh	Bandakhar TPP	M/s Maruti Clean (Chhattisgarh) Ltd.	U-1	Chinese	300	06/2015		300	19.06.15(A)	
Chhattisgarh	Uchpinda TPP	RKM Powergen Pvt. Ltd	U-1	Chinese	360	06/2015		360	28.10.15(A)	27.11.2015
Chhattisgarh	Uchpinda TPP	RKM Powergen Pvt. Ltd	U-2	Chinese				360	28.01.16(A)	12.02.2016
Chhattisgarh	BALCO TPP	BALCO Pvt Ltd	U-1	Chinese	300	06/2015		300	05.06.15(A)	11.07.2015
Chhattisgarh	BALCO TPP	BALCO Pvt Ltd	U-2	Chinese	300	09/2015		300	24.03.16(A)	30.03.2016
Chhattisgarh	Raikheda TPP	GMR	U-2	Doosan (Non-BHEL)	685	12/2015		685	28.03.16(A)	
Chhattisgarh	Salora	Vandana Vidyut	U-2	Chinese	135	09/2015	Slipped			
Maharashtra	Nasik TPP Ph-I	Ratan India (Nasik) Power Ltd	U-2	BHEL	270	01/2016	Slipped			
MP	Anuppur TPP Ph-I	MB Power(MP)	U-1	Chinese	600	06/2015		600	20.04.15(A)	20.05.2015
M.P	Seioni TPP Ph-I	Jhabua Power Ltd	U-1	BHEL				600	22.03.16(A)	03.05.2016

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
MP	Anuppur TPP Ph-I	MB Power(MP)	U-2	Chinese				600	30.03.16(A)	07.04.2016
Orissa	Ind Bharat TPP (Orissa)	Ind Barath	U-1	Chinese	350	10/2015		350	25.02.16(A)	20.07.2016
Punjab	Talwandi Sabo TPP	Talwandi Sabo Power Ltd	U-2	Chinese	660	06/2015		660	30.10.15(A)	25.11.2015
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 (Mutiarai)	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
	<u>CENTRAL SECTOR</u>								
Bihar	Nabinagar TPP	U-2	NTPC	BHEL	250	Slipped			
Bihar	Kanti TPS St-II	U-4	NTPC	BHEL	195		24.03.2017	195.0	01.07.2017
Chhattisgarh	Lara STPP	U-1	NTPC	NON BHEL	800	Slipped			
Karnataka	Kudgi TPP	U-1	NTPC	NON BHEL	800		25.12.2016	800.0	31.07.2017
Maharashtra	Mauda STPP-II	U-4	NTPC	BHEL	660		18.03.2017	660.0	18.09.2017
Tripura	Agartala Gas Based Power Project	ST-1	NEEPCO	NON BHEL	25.5		23.08.2016	25.5	
				Total Central Sector	2730.5			1680.5	
	<u>STATE SECTOR</u>								
Assam	Namrup CCGT	GT	APGCL	BHEL	70		11.01.2017	62.25	
Assam	Namrup CCGT	ST	APGCL	BHEL	30	Slipped			
Bihar	Barauni TPP,	U-8	BSEB	BHEL	250	Slipped			
Chhattisgarh	Marwa TPS	U-2	CSPGCL	BHEL	500		15.07.2016	500.0	31.07.2016
Gujarat	Bhavnagar TPP	U-1	BECL	BHEL	250		16.05.2016	250.0	
Gujarat	Bhavnagar TPP	U-2	BECL	BHEL	250		27.03.2017	250.0	
Karnataka	Yermarus TPP	U-2	KPCL	BHEL	800		29.03.2017	800.0	06.04.2017
Maharashtra	Koradi TPP	U-10	MSPGCL	NON BHEL	660		28.12.2016	660.0	17.01.2017
Telangana	Singreni TPP	U-2	SCCL	BHEL	600		25.11.2016	600.0	02.12.2016
West Bengal	Sagardighi TPS-II	U-4	WBPDCL	BHEL	500		15.12.2016	500.0	
				Total State Sector	3910			3622.25	
	<u>PRIVATE SECTOR</u>								
Andhra pradesh	Sembcorp Gayatri Pvt.ltd.(NCC TPP)	U-1	SGPL	NON BHEL	660		12.11.2016	660.0	17.11.2016
Andhra pradesh	Sembcorp Gayatri Pvt.ltd.(NCC TPP)	U-2	SGPL	NON BHEL	660		15.02.2017	660.0	21.02.2017
Chhattisgarh	Nawapara TPP	U-1	TRN	CHINESE	300		14.08.2016	300.0	19.08.2016
Chhattisgarh	Nawapara TPP	U-2	TRN	CHINESE	300	Slipped			
Chhattisgarh	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	LPGL	BHEL	660		01.04.2016	660.0	23.12.2016
West Bengal	Hiranmaye Energy TPP	U-1	Hiranmaye Energy Limited	BHEL	150	Slipped			
				Total Private Sector	6800			3810.0	
				Total Thermal	13440.5			9112.75	
ADDITIONAL PROJECTS COMMISSIONED IN RFD 2016-17									
	<u>CENTRAL SECTOR</u>								
Assam	Bongaigaon TPP	U-2	NTPC	BHEL			22.03.2017	250.0	01.11.2017
Karnataka	Kudgi TPP	U-2	NTPC	NON BHEL			23.03.2017	800.0	31.12.2017
Uttar Pradesh	Unchahar TPS ST-IV	U-6	NTPC	BHEL			31.03.2017	500.0	
	<u>PRIVATE SECTOR</u>								
Chhattisgarh	Ratija TPP -II	U-2	Spectrum Coal&Power Ltd	Non-BHEL			10.11.2016	50.0	
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	Royal seema TPP	APGENCO	BHEL	6	600	Aug-17	-	12.03.2018	600.00	29.03.2018
Assam	Namrup	APGCL	BHEL	ST	36.15	Feb-18	Slipped			
MP	Shree Singaji TPP, St-II	MPPGCL	NON BHEL	3	660	Dec-17	Slipped			
Rajasthan	Suratgarh TPS	RRVUNL	BHEL	7	660	Nov-17	Slipped			
Rajasthan	Chhabra SCTPP	RRVUNL	L&T & MHI	5	660	Apr-17	-	04.04.2017	660.00	
Rajasthan	Chhabra SCTPP	RRVUNL	L&T & MHI	6	660	Jan-18	Slipped			
Telangana	Bhadradi TPP	TGENCO	BHEL	1	270	Mar-18	Slipped			
TOTAL STATE SECTOR					3546.15				1260.00	
PRIVATE SECTOR										
Chhattisgarh	Akaltara (Naiyara) TPP	KSK Mahandi Power Company Ltd	CHINESE	3	600	Nov-17	-	18.01.2018	600.00	28.02.2018
Chhattisgarh	Binjkote TPP	SKS Power Generation (Chhattisgarh) Ltd	CHINESE	1	300	May-17	-	25.04.2017	300.00	
Chhattisgarh	Nawapara TPP	TRN Energy	CHINESE	2	300	May-17	-	18.04.2017	300.00	01.05.2017
Chhattisgarh	Lanco Amarkantak TPS-II	LAP Pvt. Ltd.	CHINESE	3	660	Nov-17	Slipped			
Maharashtra	Nasik TPP Ph-I	RattanIndia Nasik Power Ltd	BHEL	3	270	May-17	-	14.04.2017	270.00	
UP	Bara TPP	Prayagraj Power Generation Co.Ltd.	BHEL	3	660	Aug-17	-	22.05.2017	660.00	26.05.2017
WB	Hiranmaye Energy TPP	Hiranmaye Energy Limited	BHEL	1	150	Apr-17	-	07.06.2017	150.00	13.08.2017
TOTAL PRIVATE SECTOR					2940				2280.00	
ADDITIONAL PROJECTS COMMISSIONED										
PRIVATE SECTOR										
Maharashtra	Nasik TPP Ph-I	RattanIndia Nasik Power Ltd	BHEL	4				19.05.2017	270.00	
Maharashtra	Nasik TPP Ph-I	RattanIndia Nasik Power Ltd	BHEL	5				30.05.2017	270.00	
Chhattisgarh	Uchpinda TPP	RKM Powergen Pvt.Ltd.	Chinese	3				12.09.2017	360.00	
Maharashtra	Shirpur TPP	Shirpur Power Pvt. Ltd.	BHEL	1				28.09.2017	150.00	
WB	Hiranmaye Energy TPP	Hiranmaye Energy Limited	BHEL	2				31.12.2017	150.00	31.12.2017
Bihar	Barauni Ext.	BSEB	BHEL	8				11.01.2018	250.00	
Chhattisgarh	Binjkote TPP	SKS Power Generation (Chhattisgarh) Ltd	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	-	29.03.2019	800.00	02.04.2019
MP	Gadarwara STPP, St-I	NTPC	BHEL	1	800	Jan-18	Slipped			
Odisha	Darlipali STPP				800					
TOTAL CENTRAL SECTOR					2760				1300.00	
STATE SECTOR										
Assam	Namrup CCGT	APGENCO	BHEL	ST	36.15	Feb - 19	Slipped			
MP	Shri Singhaji TPP St-II	MPGCL	L&T & NHI	3	660	Sept - 18		18.11.2018	660.00	18.11.2018
MP	Shri Singhaji TPP St-II	MPPGCL	L&T & NHI	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 CCGP	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 .

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
	<i>CENTRAL SECTOR</i>									
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 and BSEB)	BHEL	U-3	195	195		195	31.03.15	
Bihar	Muzaffarpur TPP Extn	KBUNL (JV of NTPC and 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	
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-1 #			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
	<i>STATE SECTOR</i>									
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	

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
AP	Rayalseema 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	
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	

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
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	Painampuram TPP	Thermal Power Tech Corp.Ltd.	Chinese	U-1	660	660		660	07.02.15	
AP	Painampuram TPP	Thermal Power Tech Corporation 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 Rajahmundry Energy Ltd.	Others	Block-II #			384	384	05.10.15	
Chhattisgarh	Kasaipalli TPP	ACB	Chinese	U-2	135	135		135	21.06.12	
Chhattisgarh	Nawapara TPP	TRN energy Pvt.Ltd..	Chinese	U-1	300	300		300	14.08.16	
Chhattisgarh	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	
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	Swastika 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	

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
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 UMTTP	Tata Power	Others	U-2	800	800		800	25.07.12	
Gujarat	Mundra UMTTP	Tata Power	Others	U-3 #			800	800	16.10.12	
Gujarat	Mundra UMTTP	Tata Power	Others	U-4 #			800	800	16.01.13	
Gujarat	Mundra UMTTP	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.1 #			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	
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 Infracure TPP	Dhariwal Infracure (P) Ltd	Chinese	U-1	300	300		300	03.11.13	
Maharashtra	Dhariwal Infracure TPP	Dhariwal Infracure (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

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
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	
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	
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	Tuticorin 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 (Mutiar)	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	225	25.04.16	
Uttrakhand	Kashipur CCPP	M/a Sravanthi Energy Pvt.Ltd	Others	Module-1#			225	225	20.11.16	

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
	Ph-I									
UP	Lalitpur TPP	Lalitpur power Generation Co. Ltd	BHEL	U-2 #			660	660	08.01.16	
UP	Lalitpur TPP	Lalitpur power Generation Co. Ltd	BHEL	U-1 #			660	660	26.03.16	
UP	Lalitpur TPP	Lalitpur power Generation 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
<i>CENTRAL SECTOR</i>						
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 constraint. 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	
<i>STATE SECTOR</i>						
AP	Royalaseema 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	
<i>PRIVATE SECTOR</i>						
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	BhavanapaduTPP Ph-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	BhavanapaduTPP Ph-I	East Coast Energy Ltd.	Chinese	U-2	660	
Chhattisgarh	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 constraints.

State	Project Name	Impl Agency	Main Plant Equipment Supplier	Unit No	12th Plan Slipped Cap. (MW)	Reasons for Slippage
Chhattisgarh	Salora TPP	M/s Vandana Vidyut	Chinese	U-2	135	Delay in commissioning of unit-1. Agitation by villagers at site. Delay in supply of BTG and CHP material. Non cooperation of BTG supplier in commissioning activities. Acquisition 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 acquisition 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	
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 transmission 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 Acquisition 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

S. No.	State	Project Name / Impl. Agency/ EPC or BTG	LOA Date/	Unit No	Cap. (MW)	Org. Comm. Sched.	Ant. Comm. Sched.	Ant. COD	Exp. In crores.	Till Date
CENTRAL SECTOR										
1.	Bihar	Barh STPP-I /NTPC/Others	Mar-05	U-1	660	May-17	Apr-20	Jun-20	16331.92	Aug-19
			Mar-05	U-2	660	Nov-17	Oct-20	Dec-20		
			Mar-05	U-3	660	May-18	Apr-21	Apr-21		
2.	Bihar	Nabi Nagar TPP / JV of NTPC & Rlys/BHEL	Jan-08	U-4	250	Nov-13	Dec-19	Dec-19	7861.51	Aug-19
3.	Bihar	New Nabi Nagar TPP /JV of NTPC & BSPGCL TG-Alstom & Bharat Forge, SG-BHEL	Jan-13	U-2	660	Jul-17	Mar-20	Feb-20	13716.26	Aug-19
			Jan-13	U-3	660	Jan-18	Sept-20	Aug-20		
4.	Bihar	Buxar TPP	Jun-19	U-1	660	Jul-23	Jul-23		780.04	Sep-19
			Jun-19	U-2	660	Jan-24	Jan-24			
5.	Chhatisgarh	Lara STPP/NTPC / SG-Dooson TG-BGR Hitachi	Dec-12	U-2	800	May-17	Feb-20	Mar-20	12349.43	Aug-19
6.	Jharkhand	North Karanpura STPP/ NTPC / BHEL	Feb-14	U-1	660	Feb-18	May-20	Sep-20	9131.59	Aug-19
			Feb-14	U-2	660	Aug-18	Nov-20	Mar-21		
			Feb-14	U-3	660	Feb-19	May-21	Sep-21		
7.	MP	Gadarwara STPP/ NTPC /BTG- BHEL	Mar-13	U-2	800	Sep-17	Dec-19	Mar-20	12045.10	Aug-19
8.	MP	Khargone STPP/ NTPC/ EPC - L&T	Mar-15	U-2	660	Sep-19	Jan-20	Jan-20	8449.85	Aug-19
9.	Odisha	Darlipalli STPP/ NTPC / SG- BHEL TG-JSW & Toshiba	Feb-14	U-2	800	Jun-18	Mar-20	Sept-20	9639.47	Aug-19
10.	Rajasthan	Barsingar TPP ext/NLC/Reliance Infra	Nov-16	U-1	250	May-20	Aug-20	Aug-20	159.69	May-19
11.	Rajasthan	Bithnok TPP /NLC/Reliance Infra	Nov-16	U-1	250	May-20	Aug-20	Aug-20	175.33	May-19
12.	Telangana	Telangana STPP St- I / NTPC/SG- BHEL TG- Alstom & Bharatforge	Feb-16	U-1	800	Jan-20	Jul-20	Aug-20	5382.09	Aug-19
			Feb-16	U-2	800	Jul-20	Jan-21	Jun-20		
13.	TN	Neyveli New TPP/ NLC/BHEL	Dec-13	U-2	500	Mar-18	Dec-19	Dec-19	5995.99	Sept-19
14.	UP	Meja STPP/ JV of NTPC & UPRVUNL/ SG-BGR TG-Toshiba	Apr-12	U-2	660	Dec-16	Mar-20	Jun-20	9749	Aug-19
15.	UP	Ghatampur TPP/ JV of NLC & UPRVUNL/ MHPS Boiler Pvt. Ltd.	Aug-16	U-1	660	Apr-20	Sep-20	Nov-20	7532.67	Sept-19
			Aug-16	U-2	660	Oct-20	Mar-21	May-21		
			Aug-16	U-3	660	Oct-20	Sep-21	Dec-21		
16.	UP	Tanda TPP St II/ NTPC /SG: L&T/ TG: Alstom	Sep-14	U-6	660	Feb-20	May-20	Jun-20	6397.93	Aug-19
17.	UP	Khurja SCTPP	Mar-19	U-1	660	Mar-23	Apr-23		521.82	Sept-19
			Mar-19	U-2	660	Sep-23	Sep-23			
18.	Jharkhand	Patratu STPP / JV of NTPC & Jharkhand Bidyut Vitran Nigam Ltd.	Mar-18	U-1	800	Jan-22			1904.3	Aug-19
			Mar-18	U-2	800	Sep-22				
			Mar-18	U-3	800	Dec-22				

S. No.	State	Project Name / Impl. Agency/ EPC or BTG	LOA Date/	Unit No	Cap. (MW)	Org. Comm. Sched.	Ant. Comm. Sched.	Ant. COD	Exp. In crores.	Till Date
19.	Odisha	Rourkela PP-II Expansion/NTPC-Sail Power Co Ltd (NSPCL)(JV of NTPC & Steel Authority of India (SAIL))/BHEL	May-16	U-1	250	Dec-18	Feb-20	Apr-20	1414	Sept-19
TOTAL CENTRAL SECTOR					19780					
STATE SECTOR										
1.	A.P	Dr.Narla Tata Rao TPS St-V / APGENCO / BTG-BHEL	Oct-15	U-1	800	Jun-19	Jun-20	Jul-20	4639.42	Sept-19
2.	A.P	Sri Damodaran Sanjeevaiah TPP St-II / APGENCO /BTG- BHEL	Nov-15	U-1	800	Mar-19	Mar-20	Jun-20	5514	Sept-19
3.	Assam	Namrup CCGT / APGCL / BHEL	Feb-09	ST	36.15	Jan-12	Nov-19	2019-20	581.48	Jun-19
4.	Karnataka	Yelahanka CCPP BY KPCL	Nov-15	GT+ST	370	Mar-18	Dec-19		1551.44	Sept-19
5.	Maharashtra	Bhusawal TPS/MAHAGENCO	Jan-18	U-6	660	Mar-22				
6.	Rajasthan	Suratgarh SCTPP/ RRVUNL / BHEL	May-13	U-7	660	Sep-16	30.03.19	11/19	8845.66	Sept-19
			May-13	U-8	660	Dec-16	Feb-20	Mar-20		
7.	Telangana	Bhadradri TPP / TSGENCO/ BHEL	Mar-15	U-1	270	Mar-17	Nov-19	Dec-19	5973.08	10.10.19
			Mar-15	U-2	270	May-17	Jan-20	Jan-20		
			Mar-15	U-3	270	Jul-17	Jun-20	Jun-20		
			Mar-15	U-4	270	Sep-17	Dec-20	Dec-20		
8.	TN	Ennore exp. SCTPP (Lanco) / TANGEDCO BTG-LANCO	May-14	U-1	660	Jan-18	Sep-19		791.4	Dec-17
9.	TN	Ennore SCTPP / TANGEDCO/ BHEL	Sep-14	U-1	660	Jan-18	Jul-21	Aug-21	3555.68	May-19
			Sep-14	U-2	660	Mar-18	Oct-21	Nov-21		
10.	TN	North Chennai TPP St-III TANGEDCO/BHEL	Jan-16	U-1	800	Mar-19	May-20	Jun-20	4603.29	Sept-19
11.	TN	Udangudi STPP Stage I/ TANGEDCO, EPC- BHEL	Dec-17	U-1	660	Feb-21	Feb-21	Mar-21	560.06	Aug-19
				U-2	660	Feb-21	Apr-21	May-21		
12.	TN	Uppur Super Critical TPP TANGEDCO /BHEL	Feb-16	U-1	800	Mar-19	Apr-20	Sep-20	2500.25	Sept-19
			Feb-16	U-2	800	Oct-19	Oct-20	Feb-21		
13.	UP	Harduaganj TPS Exp-II / UPRVUNL/ Toshiba JSW	Sep-15	U-1	660	Jun-19	Jun-20	Sept-20	2855.27	Sept-19
14.	Telangana	Yadadri TPS/TSGENCO/BHEL	Oct-17	U-1	800	Oct-20	Sep-20	Oct-20	5263.57	Sept-19
				U-2	800	Oct-20	Sep-20	Oct-20		
				U-3	800	Oct-21	May-21	Jun-21		
				U-4	800	Oct-21	May-21	Jun-21		
				U-5	800	Oct-21	Sep-21	Oct-21		
15.	UP	Jawaharpur STPP/ UPRVUNL/ Doosan	Dec-16	U-1	660	Sep-20	Aug-21	Oct-21	2315	Sept-19
			Dec-16	U-2	660	Jan-21	Dec-21	Jan-22		
16.	UP	Panki TPS Extn./ URVUNL	Mar-18	U-1	660	Dec-21	Dec-21	Jan-22	16	Apr-18
17.	UP	Obra-C STPP/ UPRVUNL/ Doosan	Dec-16	U-1	660	Sep-20	Apr-21	Jun-21	2555.08	Sept-19
			Dec-16	U-2	660	Dec-20	Jul-21	Nov-21		

S. No.	State	Project Name / Impl. Agency/ EPC or BTG	LOA Date/	Unit No	Cap. (MW)	Org. Comm. Sched.	Ant. Comm. Sched.	Ant. COD	Exp. In crores.	Till Date
Total State Sector					18726.15					
PRIVATE SECTOR										
1.	AP	Bhavanapadu TPP Ph-I / East Coast Energy Ltd. BTG-Chinese	Sep-09	U-1	660	Oct-13	Uncertain*	Uncertain*	3785.6	Jan-16
			Sep-09	U-2	660	Mar-14	Uncertain*	Uncertain*		
2.	AP	Thamminapatnam TPP stage -II / Meenakshi Energy Pvt. Ltd. SG-Cether vessels TG-Chinese	Dec-09	U-3	350	May-12	15.04.18	Dec-19	5414.4	Feb-19
			Dec-09	U-4	350	Aug-12	Oct-19	Dec-19		
3.	Bihar	Siriya TPP (Jas Infra. TPP) / JICPL BTG-Chinese	Mar-11	U-1	660	Aug-14	Uncertain*	Uncertain*	NA	
			Mar-11	U-2	660	Dec-14	Uncertain*	Uncertain*		
			Mar-11	U-3	660	Apr-15	Uncertain*	Uncertain*		
			Mar-11	U-4	660	Aug-15	Uncertain*	Uncertain*		
4.	Chhattisgarh	Akaltara TPP (Naiyara) / KSK Mahandi Power Company Ltd./ Chinese	Apr-09	U-4	600	Apr-13	Stress	Stressed	18730.00	Dec-16
			Apr-09	U-5	600	Aug-13	Uncertain	Uncertain		
			Apr-09	U-6	600	Dec-13	Uncertain	Uncertain		
5.	Chhattisgarh	Binjkote TPP/ SKS Power Generation (Chhattisgarh) Ltd. SG-Cethar Vessels TG-Harbin China	Mar-11	U-3	300	Mar-14	Uncertain	Uncertain	3828	Jun-15
			Mar-11	U-4	300	Jun-14	Uncertain	Uncertain		
6.	Chhattisgarh	Lanco Amarkantak TPP-II/ LAP Pvt. Ltd. BTG-DEC	Nov-09	U-3	660	Jan-12	Uncertain	Uncertain	9537.79	Dec-16
			Nov-09	U-4	660	Mar-12	Uncertain	Uncertain		
7.	Chhattisgarh	Singhitarai TPP / Athena Chhattisgarh Power Ltd. BTG -DECL	Dec-09	U-1	600	Nov-14	Uncertain	Uncertain	6408.47	May-17
			Dec-09	U-2	600	Feb-15	Uncertain	Uncertain		
8.	Chhattisgarh	Salora TPP / Vandana Vidyut/ BTG-Cether Vessles	Sep-09	U-2	135	Sep-11	Uncertain*	Uncertain*	2386.89	Mar-15
9.	Chhattisgarh	Deveri (Visa) TPP / Visa Power Ltd. BTG-BHEL	Jun-10	U-1	600	Aug-13	Uncertain*	Uncertain*	2077.23	Nov-15
10.	Jharkhand	Matrishri Usha TPP Ph-I / Corporate Power Ltd. EPC-BHEL	Dec-09	U-1	270	Apr-12	Uncertain*	Uncertain*	3120	Nov-12
			Dec-09	U-2	270	May-12	Uncertain*	Uncertain*		
11.	Jharkhand	Matrishri Usha TPP Ph-II / Corporate Power Ltd. EPC-BHEL	Mar-11	U-3	270	Oct-12	Uncertain*	Uncertain*	2207	Sep-12
			Mar-11	U-4	270	Jan-13	Uncertain*	Uncertain*		
12.	Jharkhand	Tori TPP Ph-I / Essar Power Ltd. BTG-China	Aug-08	U-1	600	Jul-12	Uncertain*	Uncertain*	4757.92	Jun-17
			Aug-08	U-2	600	Sep-12	Uncertain*	Uncertain*		
13.	Jharkhand	Tori TPP Ph-II / Essar Power Ltd.		U-3	600	Dec-15	Uncertain*	Uncertain*	246.65	Mar-15
14.	Maharashtra	Amravati TPP Ph-II / Ratan India Power Pvt. Ltd. BTG-BHEL	Oct-10	U-1	270	Jul-14	Uncertain*	Uncertain*	763.8	Mar-15
			Oct-10	U-2	270	Sep-14	Uncertain*	Uncertain*		
			Oct-10	U-3	270	Nov-14	Uncertain*	Uncertain*		
			Oct-10	U-4	270	Jan-15	Uncertain*	Uncertain*		
			Oct-10	U-5	270	Mar-15	Uncertain*	Uncertain*		
15.	Maharashtra		Nov-09	U-1	660	Jul-14	Uncertain*	Uncertain*	5338	Apr-17

S. No.	State	Project Name / Impl. Agency/ EPC or BTG	LOA Date/	Unit No	Cap. (MW)	Org. Comm. Sched.	Ant. Comm. Sched.	Ant. COD	Exp. In crores.	Till Date
		Lanco Vidarbha TPP / LVP Pvt. Ltd. EPC-LANCO	Nov-09	U-2	660	Nov-14	Uncertain*	Uncertain*		
16.	Maharashtra	Nasik TPP Ph-II / Ratan India Nasik Power Pvt. Ltd. BTG-BHEL	Nov-09	U-1	270	Apr-13	Uncertain	Uncertain	711.81	Mar-15
			Nov-09	U-2	270	Jun-13	Uncertain	Uncertain		
			Nov-09	U-3	270	Aug-13	Uncertain	Uncertain		
			Nov-09	U-4	270	Oct-13	Uncertain	Uncertain		
			Nov-09	U-5	270	Dec-13	Uncertain	Uncertain		
17.	Maharashtra	Bijora Ghanmukh TPP / Jimbhuvish Power Generation Pvt. Ltd. / BTG- Chinese	Sep-11	U-1	300	Dec-16	Uncertain	Uncertain	422.27	Mar-15
			Sep-11	U-2	300	Mar-17	Uncertain	Uncertain		
18.	Maharashtra	Shirpur TPP ,Shirpur Power Pvt. Ltd.-BHEL	Nov-11	U-2	150	Apr-15	Uncertain	Uncertain	2277.94	Apr-17
19.	MP	Gorgi TPP / D.B. Power (MP) Ltd. BTG-BHEL	Mar-11	U-1	660	Jun-13	Uncertain	Uncertain	475.79	Sep-15
20.	Odisha	Ind Barath TPP (Odisha) / Ind Barath /BTG-Cethar Vessels	May-09	U-2	350	Dec-11	Uncertain	Uncertain	4254	Apr-17
21.	Odisha	KVK Nilanchal TPP/ KVK Nilanchal / BTG-Harbin China	Nov-09	U-1	350	Dec-11	Uncertain*	Uncertain*	1708.36	Mar-15
			Nov-09	U-2	350	Feb-12	Uncertain*	Uncertain*		
			Nov-09	U-3	350	Feb-12	Uncertain*	Uncertain*		
22.	Odisha	Lanco Babandh TPP / LBP Ltd./ BTG-Chinese	Nov-09	U-1	660	Apr-13	Uncertain*	Uncertain*	7615	Mar-17
			Nov-09	U-2	660	Aug-13	Uncertain*	Uncertain*		
23.	Odisha	Malibrahmani TPP / MPCL/ BTG- BHEL	Jun-10	U-1	525	Dec-12	Uncertain*	Uncertain*	5329.75	Dec-14
			Jun-10	U-2	525	Feb-13	Uncertain*	Uncertain*		
24.	TN	Tuticorin TPP (Ind- Barath) / IBPIL / BTG-Chinese	May-10	U-1	660	May-12	Uncertain*	Uncertain*	2000	May-15
25.	TN	Tuticorin TPP St-IV / SEPC/ EPC-MEIL (BTG-BHEL)	Jan-14	U-1	525	Sep-18	Apr-20	Apr-20	2222.92	Sept-19
26.	WB	Hiranmaye Energy Ltd (India Power corporation (Haldia) TPP / Haldia Energy Ltd/ BTG-BHEL.	Sep-10	U-3	150	May-16	Uncertain*	Uncertain*	3263.05	Oct-17
Total Private Sector					23730					
Grand Total					62236.15					

* Presently work at site is on hold.

BROAD STATUS
Of
THERMAL POWER PROJECTS
CENTRAL SECTOR

BROAD STATUS OF UNDER CONSTRUCTION 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.	Bongaigaon TPS, Distt: Kokrajhar, Assam NTPC Ltd	750					<p>Unit-1: COD achieved on 01.04.2016. Commissioned on 22.06.2015.</p> <p>Boiler: Boiler Erection started on 27/02/2009. Drum lifted on 25/01/2010. Hydro test done on 01/2011. BLU done on 29/11/14 & steam blowing completed on 01/04/15.</p> <p>TG: Condenser erection started in 2/10. TG erection started in 03/11 & boxed up in 04/15.</p> <p>Unit-2: COD achieved on 01.11.2017. Commissioned on 22.03.2017.</p> <p>Boiler: Boiler Erection started on 3/10. Drum lifted in 10/10. Hydro test done in 04/12. BLU done on 27.03.16. Steam blowing completed in 11/16.</p> <p>TG: TG erection started in 01/16. TG Box up completed in 11/16. TG oil flushing completed in 12/16.</p> <p>Unit-3: COD achieved on 26.03.2019. Trail run completed on 14.02.2019. Commissioned on 10.02.2019. Unit synchronized on 02.01.2019.</p> <p>Boiler: Boiler Erection started in 4/12. Boiler drum lifted on 25/02/13 & HT done on 21/03/14. BLU done in 07/2017. Steam Blowing is completed in 09/18. Coal firing done in 12/18.</p> <p>TG: TG deck casting done in 03/16. TG erection started in 10/16. HP, IP module placed. TG boxed up in 03/18.</p> <p>BoP: Chimney: Completed. CHP: Order placed on M/s McNally Bharat in Jan'10. Both Trippers are ready and coal bunking conveyors commissioned. AHP: Dry ash system readiness by Mar'19. CW: CW pumps commissioned. Cooling tower: Ready DM plant: DM control room building civil work is in progress.</p> <p>FGD: Awarded with SG Package to BHEL. Resolution of Commercial issues between M/s BHEL and OEM of FGD M/s Ducon is awaited.</p> <p><i>Owing to poor performance of main plant civil agencies (SPML, Punjilloyd) their contracts were terminated on 25.11.13. Balance works of U-2&3 awarded to NBCC on 29/09/14. NBCC finalized its sub agencies on 06/01/15 and construction works commenced in Feb'15 due to delay in mobilization by M/s NBCC.</i></p>
	U-1	250	11/10 01/11	-	06/15(A) 22.06.15(A)	- 01.04.16(A)	
	U-2	250	03/11 05/11	-	02/17(A) 22.03.17(A)	- 01.11.17(A)	
	U-3	250	07/11 09/11	-	02.01.19(A) 10.02.19(A)	14.02.19(A) 26.03.19(A)	
	Original / Latest cost		: Rs. 4375.35 Cr/ Rs. 6749.18 Cr / 8150.00 Cr				
	Exp. During 2007-08		: Rs. 238.31 Cr				
	2008-09		: Rs. 160.46 Cr				
	2009-10		: Rs. 709.13 Cr				
	2010-11		: Rs. 563.00 Cr				
	2011-12		: Rs. 1376.10 Cr				
	2012-13		: Rs. 749.00 Cr				
	2013-14		Rs. 685.00 Cr				
	2014-15		: Rs. 657.00 Cr				
	2015-16		: Rs. 787.00 Cr				
	2016-17		: Rs. 591.00 Cr				
	2017-18		: Rs. 506.00 Cr				
	2018-19		: Rs. 299.52 Cr (1/19)				
	Cumulative Exp.		: Rs. 7299.48 Cr (1/19)				
	Investment Approval		: 30/01/2008				
	Type of fuel		: Coal				
	Investment Approval		: 30/01/2008				
	Date of Main Plant Order		: 05/02/08, M/s BHEL				
	Power Evacuation:		1. 400KV BTPS(NTPC)- Bongaigaon (PG) D/C Line 2. 220 KV BTPS(NTPC)- Bongaigaon (Assam) D/C Line				
	Coal Source and Transportation:		2/3 of required Coal will be transported from Margarita- Makuma mines of NECL (Upper Assam). Rest 1/3 will be supplied by ECL mines in Raniganj area of West Bengal. Coal will be transported using Railway wagons by BOBR.				
	Critical Areas		Intermittent suspension of supplies of aggregates by local vendors, demand for aexhorbitnat rates etc. have affected the progress of work. Frequent work stoppage at site due labor unrest.				
	Reasons for Delay		Inadequate deployment of work force by BHEL and its sub-agencies affected the progress of Unit-1. Law and order issues. Frequent bandhs leading to stoppage of work. Work has come to halt in Jul'12, May'14 & Dec'14 due to violence and mass exodus of labor from site. Poor performance of BOP/Civil contractors. .				

MK 11.02.20

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						
2.	Barh STPP St-I, Dist: Patna, Bihar (NTPC Ltd.)	1980					<p>Unit-1: Boiler: Boiler erection started in 03/11. Boiler Hydro Test completed on 28.02.13. Boiler light up on 14.08.2019. Balance of works of insulation of ducts, erection of temporary piping for steam blowing activities in progress.</p> <p>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.</p> <p>Unit-2: Boiler: Boiler erection started in 07/11. Boiler Hydro Test expected by 01/20. TG: TG erection started in 09/11. TG Box up completed in 01/15. TG oil-flushing completion in 07/19.</p> <p>Unit-3: Boiler: Boiler erection started in 01/12. Boiler Hydro Test expected by 07/20. TG: TG erection started in 03/12. TG box-up expected by 09/20.</p> <p>Balance of Plant (BoP): Chimney: lining for FGD to be done to existing chimney before light up. Yet to mobilize. Basic Engg, ordering in progress. 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 sump, BA line pedestal work in progress. Ash dyke: All works in Ash Dyke completed. Cooling Tower: Erection completed. Water charging done once, repair/replacement required. PT Plant: 2 clarifiers Ready DM Plant: Ready CW System: Erection nearly completed. 2nos Raw water pumps & SACW pumps commissioned. 2nos CW pumps trial taken. 01 PT make up pump trial taken in R/C mode. Switchyard: Ready</p> <p>FGD: FGD is awarded to BHEL on 18.09.18. Detailed Engg ordering and ordering in progress.</p>
	U-1	660	03/09 08/09 05/17* 05/17*	06/17	04/20 04/20	- 6/20	
	U-2	660	01/10 06/10 11/17* 11/17*	12/17	10/20 10/20	- 12/20	
	U-3	660	11/10 04/11 05/18* 05/18*	06/18	4/21 4/21	- 08/21	
	(*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. 1053.83 Crores (12/19)					
	Cumulative Exp	: Rs 16959 Crs (up to (12/19)					
	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					
	Power Evacuation						
	Critical Areas	<p>US Sanctions imposed on Power Machines affecting supplies of SG Package materials (ordered by Doosan to TKZ, Russia). Expeditious resolution on issues required to move forward.</p> <ul style="list-style-type: none"> • Readiness of railway line Hazaribagh-Koderma-Tilaiya-Rajgir-Bakhtiyarpur route (250km) is critical for transportation of coal for Barh Project. Project would face major coal supply constraints until this line is made operational. <p>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-Tilaiya-Bakhtiyarpur section. Work progress is slow due to land acquisition issues.</p> <ul style="list-style-type: none"> • Apart from above, deposit work of 03 nos Push culvert work (required for Stage-I ash slurry pipeline) and OHE work inside plant is moving at slow pace. Support of Ministry of Railways is required for timely completion of the above Railway works. 					
	Reasons for Delay	Non-Performance of Russian agencies M/s TPE (SG contract) and Power Machine. TPE stopped work from October 2013 and the contract of M/s TPE was terminated on 14.01.2015.					

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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							
3.	Nabinagar TPP, Dist: Aurangabad, Bihar [BRBCL-Bhartiya Rail Bijlee Co. Ltd. (JV of NTPC & Indian Railways)]	1000					<p>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.</p> <p>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.</p> <p>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</p> <p>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. TG: TG columns work in progress. TG erection started in 01/19.HP&IP turbine erected. ESP: Pass A&D all columns erected. Frame erection work i/p</p> <p>Balance of Plant:</p> <ul style="list-style-type: none"> Chimney: Chimney-1(for U-1&2) ready. Chimney #2 (for U-3&4) shell casting completed. Flue can erection completed for U-3. CHP: Coal feeding in progress at both 2A & 2B Side. WT1 – Commissioned on 25.12.18. SR-2 Bal foundation civil work i/p. AHP (Indure): AWPB commissioning u/p. Ash slurry Trench has been completed, Compressor house comm. U-3 BAH completed. U-4 BAH welding work completed.Clinker grinder work is u/p. CW Pump house: Fore bay raft completed. Pumps (11 Nos) erection completed. CW Pump 5 & 6 trial run taken on 24/08/18 IDCTs: Order placed in Sep'13. IDCT is FRP type. There are 20 cells in each IDCT. IDCT-1&2 ready. IDCT-3 cells completed and fan trail taken.. IDCT-4 cells (18/20) completed. PT plant: Completed in all respect. DM plant: DM plant comm. DM lab building civil work is i/p. CW treatment is i/p. DM Tank -1 & 2 – in service. Switchyard: FOHS: LDO tanks commissioned. HFO tank work is i/p.
	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	07/20 08/20	- 09/20	
	Original/Latest. Cost	Rs 5352.51 /7998.00 Crores					
	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 285.50 Crores				
	Total Expenditure	: Rs 8034.94 Crores (12/19)					
	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 poo mobilization by SG agency of BHEL. AHP critical supplies by Indure. Balance land issues on 38.47 acres of land.					
	Reasons for Delay	Delay in Civil Works, SG Supplies, Frequent bandhs/Local agitation by villagers Delay in Land acquisition issues.Physical possession of Banace land fro ESP/VFD area fro U-2, 3&4 received in Jan'16/Nov'16. Physical possession of 70 acres of critical land is still balance due to court cases, wrong payment in awarded land and ownership dispute in Mai pALnt, MUW corridor, Ash Dyke and township. 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) / Anticipated			
			Syn. Com	Trail run COD	Syn. Com	Trail run COD		
4.	Central Sector New Nabinagar STPP, Dist.: Aurangabad, Bihar [NPGCPL- Nabinagar Power Generating Co. Pvt. Ltd. (JV of NTPC & BSPGCL)]	1980					<p>Unit-1: 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.</p> <p>Unit-2: Boiler: Boiler erection started on 29.11.14. Hydro test completed. Boiler light up expected in 02/19. 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.</p> <p>Unit-3: Boiler: Boiler erection started on 29.04.2015. TG: TG erection started on 31.07.17. TG box up completed in 06/18. condenser erection started in 06/17. ESP: 7380/9253 work completed.</p> <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 are for All of the three units. 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 hydraulic work is in progress. Crusher house, Stacker cum reclaimers, 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 U#2 erection work in progress. HCSD silo and other work is u/p. 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 two streams completed for auto mode. CW pump house: All three units trial is completed for 2/2 each unit.. RWP/2/3PT pump comm. CWP/2/2 motors trail done. CTs: Order placed on M/s Fans. CT # 1A:-commissioned. CT # 1B:- commissioned. CT # 2A:- Piping work completed. Equip erection is i/p. CT # 2B:- Civil work completed. Piping work i/p. CT # 3A:-16 /16 Deck Slab completed. CT # 3B:-RCC of basin slab completed. Column casting is i/p. Switchyard: 132kV & 400kV switchyard charged.. Power evacuation line(400kV) nabinagar-Gaya line charged. ICT1 & 2 charged. U-2 132 kV cable laying for station transformer is u/p. FGD: Under bulk tendering process by NTPC ltd. BOD in June 2018.</p>	
	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	03/20 04/20	- 06/20		
	U-3	660	11/17 01/18	05/18	02/21 04/21	- 06/21		
	Orig.Cost/Latest Cost	: Rs 13624.02 Cr/15131.67/17304 Crores						
	Exp. During 2008-09	:Rs 0.10 Crores						
	2009-10	:Rs 222.90 Crores						
	2010-11	:Rs 83.00 Crores						
	2011-12	:Rs 383.92 Crores						
	2012-13	:Rs 711.17 Crores						
	2013-14	:Rs 369.91 Crores						
	2014-15	:Rs 1534.32 Crores						
	2015-16	:Rs 2697.12 Crores						
	2016-17	:Rs 3070.00 Crores						
2017-18	:Rs 2265.00 Crores							
2018-19	:Rs 1786.00 Crores							
2019-20	:Rs 1111.27 Crores							
Cum. Exp up to	Rs 14231.27 Crores (12/19)							
Investment Approval	: 31.01.2013(Jan'13)							
Sanctioning Authority	: NTPC Board							
Type of fuel/FSA	: Coal. Coal linkage from CCL for 7.03 Million 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.							
MOEF clearance received in Dec 2010. Mega status received in Apr'09.								
Power Purchase Agreement :- (Bihar/BSEB:-1552.5 MW signed on 21.01.10, Jharkhand:- 60 MW signed on 01.12.10, Sikkim :-10 MW signed on 28.09.10, UP:-209 MW signed on 07.04.18, Un-Allocated - 148.5MW)								
Power Evacuation System: Being Executed by PGCIL. 400 kV One line from NPGC to GAYA is charged. Second line 400 kV NPGC to Patna - work under progress								
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.								
Critical Areas	Poor work progress in Ash handling and CHP milestones acquisition of balance land from makeup water, railway siding and ash dyke.							
Reasons for Delay	Delay in acquisition of land. Acquisition and physical possession of 42 acre land is still balance due to court cases/ownership dispute etc. in railway siding, MUW Corridor, Outfall drain & Ash dyke.							

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Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A) / As now Expected			
			Svn. Com	Trail run COD	Svn. Com	Trail run COD		
	Central Sector							
5.	Lara STPP, Dist: Raigarh, Chhattisgarh (NTPC Ltd.)	1600						Unit-1: COD – 01.10.2019. Unit completed 72 hr. full load trial on 02.03.2019. Unit commissioned on 22.03.18. Synchronized on oil on 09.09.17.
	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)		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.
	U-2	800	03/17 05/17	09/17	02/20 02/20	- 03/20		
	Investment Approval	07.11.2012						
	Sanctioning Authority	NTPC Board						
	Orig.Est. cost	Rs 11846.00 Crores						
	Latest.Est. Cost	Rs 12739.82 Crores						
	Exp.During 2011-12	Rs 280.0 Crores						
	2012-13	Rs 773.00 Crores						
	2013-14	Rs 535.00 Crores						
	2014-15	Rs 2147.00 Crores						
	2015-16	Rs 2383.00 Crores						
	2016-17	Rs 1900.00 Crores						
	2017-18	Rs.1512.00 Crores						
	2018-19	Rs 1988.29 Crores						
	2019-20	Rs 1256.53 Crores						
	Cum Exp	: Rs 12929.66 Crores (up to 12/19)						
	Type of fuel	: Coal						
	Fuel linkage							
	Date of Main Plant Order (BTG)	SG- M/s Doosan, in Dec'12						
	Zero Date	TG - M/s BGR Hitachi in Dec'12						
	Power Evacuation	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.						
								Unit-2: 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. Boiler ready for steam blowing. 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 lube oil flushing in progress. 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. Work for U#2 is in progress. Wagon tippler trial operation completed. Stacker reclaim work completed. AHP: Unit-1 system commissioned and ash discharged up to ash dyke. Erection of U#2 BAH, HCSD silo (balance 2 nos.), HCSD PH equipment, ASPH (3 rd stream) erection is in progress. However, due to financial condition of agency, balance supplies for U#2 are critically delayed. Frequent stoppage of work by workers due to nonpayment of wages is affecting progress. Ash dyke: Order placed on M/s K N International in Dec'13. Ash dyke is located around 06 km from the plant. Ash slurry lines works from ash slurry pump house to ash dyke to be completed. Presently ash slurry lines pedestals work started. Excavation and bund raising works are in progress. PT Plant: Both streams are commissioned. DM Plant: Both streams for DM water generation are ready. CWPs: CW pump house is of open type in this project. U-1: Stream Commissioned, U-2: pump comm done. IDCT: Unit-1 circuit is commissioned & unit-2 comm is in progress. Switchyard: U-1 GT, ST and outgoing feeders charged. U-2 ST charged.
								FGD: FGD is awarded to L&T on 31.07.18. Chimney & absorber, gypsum dewatering, gypsum shed civil foundation is i/p. Chimney flue can i/p.
	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. • Support required from WRD for Closing of Barrage gate at saradih barrage (Mahanadi river) for water impounding in make up water channel.						
	Reasons for Delay	Delay in readiness of Railway siding due to land acquisition, ROW issue in 18 nos foundation of MU Water 66kV transmission line corridors is hampering process. Delay in supplies of Ash Handling Material.						

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.	North Karanpura STPP, Dist.Chatra, Jharkhand NTPC ltd	1980					Unit-1: Boiler: Boiler erection started in 04/16. Hydro test completed in 01/19. TG: TG erection started in 11/17. TG Box up in 08/19. Unit-2: Boiler: Boiler erection started in 07/16. TG: TG erection started in 01/18. Box up expected in 08/19 Unit-3: Boiler: Boiler erection started in 06/17. TG: TG civil work started in 06/16. BOP: Chimney: U-1 flue can erection in progress. U-2 beam erection in progress. U-3 chimney shell completed. CHP: Civil & Structural works under progress AHP: Civil & Structural works under progress PT/DM Plant: Civil works on clarifier in progress. Tank foundations completed. Cooling Towers: Supplies under progress. Fuel Oil System: Civil work completed, Mech erection of both tank in progress. Switchyard: Structural Works under progress. FGD: Awarded to BHEL on 31.07.18. Civil work in progress.
	Unit-1	660	12/17 02/18 02/19*	04/19	09/20 12/20	- 03/21	
	Unit-2	660	06/18 08/18 08/19*	10/19	03/21 06/21	- 09/21	
	Unit-3	660	12/18 02/19 02/20*	04/20	09/21 11/21	- 03/22	
	* Revised Schedule.						
	Original /Latest Cost	: Rs 14366.58 / 15164.05Crores					
	Exped. during	: Rs. 1530.00 Crores					
	2014-15	: Rs. 525.00 Crores					
	2015-16	: Rs 573.00 Crores					
	2016-17	: Rs 2208.00 Crores					
	2017-18	: Rs 2042.00 Crores					
	2018-19	: Rs.1699.13 Crores					
	2019-20	Rs 1288.04 Crores					
	Cumulative Exp	: Rs. 9954.29 Crores (up to 12/19)					
	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		Worl 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		Delay in start of Civil works due to land acquisition issues. Delay in BHEL supplies related to boiler foundation. Delay in land handover by NTPC to BHEL due to change in main plant area location change in plot plan. Delay in award of ACC package by BHEL. Delay in reaward of sub agency for U-2.					

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			Original		Actual(A) / As now Expected		
			<u>Syn. Com</u>	<u>Trail run COD</u>	<u>Syn. Com</u>	<u>Trail run COD</u>	
	Central Sector						
7.	Kudgi STPP ST-I, Dist: Bijapur, Karnataka, NTPC Ltd.	2400					<p>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.</p> <p>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</p> <p>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.</p> <p>BOPs: Chimney: Chimney-1 (for unit-1) & Chimney-2 (for unit-2&3) Shell casting works completed.</p> <p>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.</p> <p>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 CWP 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.</p> <p>FGD: Not Awarded</p>
	U-1	800	09/15 12/15	04/16	12/16 25.12.16(A)	- 31.07.17(A)	
	U-2	800	03/16 06/16	10/16	03/17 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	: Rs 15166.19 lakhs Crores					
	Latest.Est. Cost	: Rs 15166.19 lakhs Crores					
	Exp.During 2011-12	: Rs 192.00 Crores					
	2012-13	: Rs 1304.00 Crores					
	2013-14	: Rs 2277.00 Crores					
	2014-15	: Rs 4047.00. Crores					
	2015-16	: Rs 2800.00 Crores					
	2016-17	: Rs 2560.00 Crores					
	2017-18	: 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.						

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			Original		Actual(A) / As now Expected		
			Svn. Com	Trail run COD	Svn. Com	Trail run COD	
	Central Sector						
9.	Gadarwara STPP, St-I, Dist: Narsinghpur M.P NTPC Ltd.	1600					<p>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</p> <p>Boiler: Boiler erection started in 06/14. HT done in 12/16. BLU achieved in 04/17. SBO completed in July'17.</p> <p>ESP: All six pass erection completed and emitter's erection is in progress. Hopper erection completed.</p> <p>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.</p> <p>Unit-2:</p> <p>Boiler: Boiler erection started in 30th Nov'14. Pressure part erection in progress. HT completed in 11/17. BLU completed on 31.12.18</p> <p>ESP: Pass A, B & C erection completed and foundation work of D, E & F passes completed.</p> <p>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.</p> <p>BOPs:</p> <p>Chimney: Unit-1 work done. Unit-2 flue can erection done. Mini shell concreting achieved 275 m.</p> <p>CHP: .Both stream from WT to Bunker commn. for U-1, 2/3 nos WT commn. Both stacker/reclaimer commissioned.</p> <p>AHP: Silos piling work completed. HCSD pump foundation completed. U-1 Bottom ash evacuation with 2nos 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 : BH erection under progress.</p> <p>PT Plant: All three CW streams commissioned.</p> <p>DM Plant: Both stream of DM water commissioned.</p> <p>CWPs: All 5nos CW pumps erection done</p> <p>IDCTs: CT-1: All 28 nos fan erection done. CT-1 taken into service.</p> <p>CT-2: Trail completed.</p> <p>Switch Yard: 132KV tower erection completed and charged.Both 765KV Jabalpur & Waroraline line charged.</p> <p>FGD: FGD is awarded to ISGEC on 18.09.18.Drawing approval in progress. Absorber & chimney pilling under progress</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	02/20 02/20	- 03/20	
	Investment Approval	: 22.02.2013					
	Sanctioning Authority	: NTPC Board					
	Orig.Est. cost	: Rs 11638.55 Crores					
	Latest.Est. Cost	: Rs 12865.92 Crores					
	Exp.During 2012-13	: Rs 655.00 Crores					
	2013-14	: Rs 463.00 Crores					
	2014-15	: Rs 1614.00 Crores					
	2015-16	: Rs 2749.00 Crores					
	2016-17	: Rs 1988.00 Crores					
	2017-18	: Rs 1556.00 Crores					
	2018-19	: Rs 1914.61 Crores					
	2019-20	Rs 918.23 Crores					
	Cumulative Exp	: Rs 12430.99 Crores (upto 12/19)					
	Type of fuel	: Coal					
	Fuel linkage						
	Date of Main Plant Order (BTG)	in 03/2013 M/s BHEL, Main plant & offsite civil works order placed in 08/13.					
	Zero Date	22.03.13					
	Critical Areas	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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. 					

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Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Svn. Com	Trail run COD	Svn. Com	Trail run COD	
	Central Sector						
10.	Khargone STPP, Dist.Khargone, M.P. (NTPC Ltd.)	1320					
	Unit-1	660	01/19 03/19	07/19	27.06.19(A) 30.08.19(A)	29.09.19(A) 01/02/20(A)	
	Unit-2	660	07/19 09/19	01/20	31.12.19(A) 19.01.20(A)	- 02/20	
	Original/Latest Cost	Rs 9870.51/11148.86 Crores					
	Exp. During 2014-15	: Rs. 634.00 Crores					
		: Rs. 902.00 Crores					
	2015-16	: Rs. 1124.00 Crores					
	2016-17	: Rs. 2439.00 Crores					
	2017-18	: Rs 2513.04 Crores					
	2018-19	Rs 1477.97 Crores					
	2019-20						
	Cumulative Exp	: Rs 9162.24 Crores (up to 12/19)					
	Type of fuel	: Coal					
	Zero date	31.03.2015					
	Date of Main Plant Order	EPC On L&T on 31.03.2015					
		<p>Unit-1: Unit achieved COD on 01.02.2020. Unit completed 72 hr. full load trial on 29.09.2019. Unit commissioned on 30.08.2019. Synchronisation on 27.06.2019.</p> <p>Boiler: Boiler erection started in 04/16. Boiler Hydro test done on 24.6.18. BLU completed on 29.12.18. Steam blowing completed in 05/19.</p> <p>TG: TG erection started in 06/17. TG Box-up done on 29.05.18. TG oil flushing completed on 27.01.19. TG put on barring gear in 01/19.</p> <p>Unit-2: Unit achieved Full LoAd on 19.01.20. Unit Synchronisation on 31.12.2019.</p> <p>Boiler: Boiler erection started in 09/16. Pressure part erection in progress. Boiler Hydro test completed on 30/09/18. BLU completed on 11/18. SBO completed on 12/19.</p> <p>TG: TG erection started in 12/17. TG Box-up done on 27.11.18. TG put on BG on 29.10.2019.</p> <p>ESP: pass E air leak test successfully completed on 16.08.18. pass F air leak test successfully completed on 12.09.18.</p> <p>BOPs:</p> <p>Chimney: Shell completed and flue can erection of U-2 completed in 07/19.</p> <p>CHP: M/s. L&T. 8848/9386 MT CHP structure completed. WT-1 Tippling testing along with coal done on 27.05.2019.</p> <p>AHP: AHP structure 3318/3991 MT completed AHP equip. erection 1219/1633 MT completed. AHP piping work in u/p. HCS D recirculating pump C2 trail completed on 24.07.19</p> <p>Cooling Tower: IDCT-1- RCC Super structure-completed, IDCT-2- RCC super structure is i/p.</p> <p>CW system: CW piping U-2 erection 1300/2222mtr done.</p> <p>PT plant: Completed.</p> <p>DM plant: Fully Commissioned</p> <p>FOHS: LDO tanks-1&2 completed.</p> <p>Switchyard: 400 kV GIS charged through LILO system on 06.07.18. 66kV line charged in 05/19.</p> <p>FGD: Awarded to L&T on 31.07.2018. Chimney-1 shell shell completed on 24.12.19. Chimney-2 shell construction started.. Limestone Building and equipment foundation Work in Progress Limestone handling system excavation work completed. Gypsum dewatering building-upto +3.95 work completed. Absorber RCC work in progress.</p>					
	Critical Areas	Power evacuation oline of khargone has not completed yet. Support of railway is required for expeditious completion of OHE works from Nimarkhedhi to plant.					
	Reasons for Delay	Coal Constraints and less manpower resources					

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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.	Darlipalli STPP ST-I, Dist. Sundergarh, Odisha (NTPC Ltd.)	1600					
	U-1	800	12/17 02/18	04/18	04.04.19(A) 02.10.19(A)	30.12.19(A)	
	U-2	800	04/18 06/18	08/18	03/20 03/20	- 06/20	
	Investment. approval						
	Orig.Est. cost	Rs 12532.44 Crores.					
	Latest. Est. Cost	Rs 13740.53 Crores. (Jan 2014)					
	Exp. During 2013-14	:Rs. 951.00 Crores.					
	2014-15	:Rs 1457.00 Crores.					
	2015-16	:Rs 1417.00 Crores.					
	2016-17	:Rs 2384.00 Crores.					
	2017-18	:Rs 2100.00 Crores.					
	2018-19	:Rs 1531.66 Crores.					
	2019-20	Rs 991.99 Crores.					
	Cumulative Exp	:Rs. 10093.94 lakhs (up to 12/19)					
	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					
						<p>Unit-1: 72 hrs trial run completed on 31.12.19. Full load on 02.10.19. Unit synchronized on 04.04.2019.</p> <p>Boiler: Boiler erection started in 04/15. HT completed in 8/17. BLU completed in 10/18. Steam blowing completed in 02/19.</p> <p>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.</p> <p>ESP: All passes completed.</p> <p>Unit-2:</p> <p>Boiler: Boiler erection started in 07/15. HT done in 03/18.</p> <p>TG: Condenser erection started in 09/16. TG erection started in 03/17. TG BOX up in 02/19.</p> <p>ESP: 3 passes are completed. 2 passes are in progress. Internal erection is in progress</p> <p>BOPs:</p> <p>Chimney: raft completed.</p> <p>CHP: Order placed on Tata projects in Feb'15. Civil work in Track hopper, Wagon tippler, erection work in TPs, Crusher house, stacker reclaimers in progress. Belt laying commenced.</p> <p>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.</p> <p>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.</p> <p>CWPs: Order for CW equipment placed on Kirloskar Brothers Ltd in Oct'14. Equipment supplies done. Work in progress. RW PH completed; CW PH and make up PH are in progress. 34Km/39Km piping work completed balance work in progress.</p> <p>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 civil work in progress.</p> <p>Switchyard: 765kV one bay and 132kV switchyard charged for startup power.</p> <p>FGD: FGD is awarded to L&T on 18.09.18. site mobilization being done. Front handed over ,work in progress fro Unit-1 Absorber, Electrical&CI building,u-2 chimney etc.</p>	
	Critical Areas	Balance RoW for 132 kV transmission line (Approx. 300 towers) for Make Up Water pump house. 2. Acquisition/possession of balance land for Railway siding and Outfall drain.					
	Reasons for Delay	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						
12.	Telangana TPP (Ph-I), Dist. Karim Nagar Telangana NTPC Ltd.	1600					<p>Unit-1:</p> <p>Boiler: Boiler erection started in 12/17.8th Tier erection in progress. pressure parts erection u/p. TG: Condenser erection started in 07/18. TG erection started in 08/18. TG box up completed. Oil flushing will start in 01/20. ESP: erection in 6 passes completed.</p> <p>Unit-2:</p> <p>Boiler: Boiler erection started in 12/17. 4th Tier erection in progress. Pressure parts erection u/p.</p> <p>TG: Condenser erection start expected in 02/19. TG erection start expected in 03/19 ESP: erection in 6 passes in progress.</p> <p>BOPs:</p> <p>Chimney: shell completed up to 45 m., U-2 chimney shell casting completed on 13.02.19.</p> <p>CHP: TPs and Conveyor foundation in progress. Track hopper: Wall lift work in progress. WT#1,2 and 3 –Raft completed, Wall RCC works in progress. Track Hopper: 5/7 hopper casting done. WT-1,2 and 3 – RCC works in progress. Crusher House erection i/p. CT: CT#1 footing casting in progress. WTP area-DM Tank & CW clarifier excavation RCC civil works completed. Trail operation will start after start up power.</p> <p>AHP:</p> <p>Ash Dyke: Protective bund and reservoir earth work in progress.</p> <p>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 started & CW clarifier mechanical works in progress. Switchyard: GIS equipment erection commenced on 25.07.19. and is in advance stage.</p> <p>FGD: Awarded to M/s GE On04.01.18. Foundation work in u/p. Absorber foundation completed & tank Erection i/p. FGD Control room building civil work i/p. Lime stone crusher building civil work i/p. Gypsum deater building & ECr building RCC work i/p.</p>
	Unit-1	800	10/19 01/20	05/20	01/21 02/21	- 03/21	
	Unit-2	800	05/20 07/20	11/20	12/20 01/21	- 06/21	
	Orig.Est. cost	: Rs 10599.00 Crores					
	Latest.Est. Cost	: Rs 11811.00 Crores					
	Exp. During	2015-16	: Rs. 6.00 Crores				
		2016-17	: Rs 807.00 Crores				
		2017-18	: Rs. 1035.00 Crores				
		2018-19	: Rs. 2522.06 Crores				
		2019-20	Rs 1671.5 Crores				
	Cumulative Exp	: Rs. 6074.5 Crores (up to 012/19)					
	Type of fuel	Coal					
	Date of Main Plant:	SG on BHEL					
	Order:	TG on Alstom-Bharatforge on 05.02.16.					
	Zero date	31.03.2015					
	MOEF clearance						
	Critical Areas	During last CRM held with BHEL on 28/9/17, BHEL confirmed primary structure dispatch commences only from Dec 17.					
	Reasons for Delay	Change in boiler design w.r.t. new environmental norms, Delay in BHEL supplies. Slow progress of work by M/s GE power.					

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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						
13.	Meja STPP, Dist:Allahabad, U.P. [MUNPL- Meja Urja Nigam Pvt. Ltd. (JV of NTPC & UPRVUNL)]	1320					Unit-1: Commissioned on 31.03.18. Synchronized on 23.08.17. Boiler: Boiler erection started on 11 th Jun'13. Boiler hydro test done on 27.05.16. BLU achieved in 03/17. SBO completed in 07/17. TG: TG erection started in 09/14. TG box-up done in 09/15. TG oil flushing completion done in 11/16.
	U-1	660	04/16 06/16	08/16	23.08.17(A) 31.3.18(A)	- -	TG: TG erection started in 09/14. TG box-up done in 09/15. TG oil flushing completion done in 11/16.
	U-2	660	10/16 12/16	02/17	07/19 08/19	- 08/19	Unit-2: 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
	Original/Latest Cost	: Rs 10821.00 /10821.00/12176.28 Crores					
	Exp.During 2008-09	:Rs 54.01 Crores					
	2009-10	:Rs 41.51 Crores					
	2010-11	:Rs 61.43 Crores					
	2011-12	:Rs 65.42 Crores					
	2012-13	:Rs 862.87 Crores					
	2013-14	:Rs 565.90 Crores					
	2014-15	:Rs 1624.20 Crores					
	2015-16	:Rs 1803.86 Crores					
	2016-17	:Rs 715.83 Crores					
	2017-18	:Rs 2005.97 Crores					
	2018-19	:Rs 848.00 Crores					
	2019-20	:Rs 741 Crores					
	Cumulative Exp.	:Rs 10053 Crores (Up to 12/19)					
	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						
	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 Flow more 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: Bid opened and under evaluation.						
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 DFCL 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.						
Reasons for Delay	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. Dealy in AHPM/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		
			Svn. Com	Trail run COD	Svn. Com	Trail run COD	
	Central Sector						
14	Tanda-II STPP, Dist. Ambedkar Nagar, U.P. NTPC Ltd.	1320					<p>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.</p> <p>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.</p> <p>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.</p> <p>ESP: ESP is having 6 Passes; work is in progress for all passes</p> <p>Unit-6:</p> <p>Boiler: Boiler erection started in 10/16. Hydro test completed on 18/01/19.</p> <p>TG: TG erection started in 12/18. Condenser erection started in 10/18. TG boxed up in 03/19.</p> <p>ESP: ESP is having 6 Passes; work is in progress for all passes</p> <p>BOPs:</p> <p>Chimney: Order placed on GDCL in 02/15. Work is in progress.</p> <p>CHP: Order placed on L&T in 12/15. Equipment erection and trials i/p. reclaiming conveyors comm. Direct steam 1 set of conveyors commissioned, balance erection is i/p.</p> <p>AHP: Order placed on L&T in 03/16. Civil works under progress. Mech erection of AWP, ASPH, HCSDPH and TACH & HCSD silo completed.</p> <p>DM Plant: Order placed on Driplex in 08/15. Civil and Mechanical work completed.</p> <p>CWPs: Order for CW system equipment placed on KBL in Jun'15. CW Pumps erected. OAC U-5 portion work completed. Pumps 1,2 & 5 trial taken.</p> <p>NDCTs: Order placed on L&T in 10/15. U-5 completed.</p> <p>U-6 Grillage column 1075/1565 lifts done. Shell 116/116 lifts casting done.</p> <p>Switchyard: Startup power charged. U-5 portion is ready. CEA clearance received.</p> <p>FGD: FGD is awarded to GE on 21.09.18. Geo technical investigation completed. Test piling and job piling in progress.</p>
	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	06/20 07/20	- 09/20	
	Original/Latest Cost	: Rs 9188.98 /10016.10 Crores					
	Exp. During 2013-14	: Rs 280.00 Crores					
	2014-15	: Rs. 298.00 Crores					
	2015-16	: Rs 649.00 Crores					
	2016-17	: Rs 1413.00 Crores					
	2017-18	: Rs 1671.12 Crores					
	2018-19	: Rs 1553.25 Crores					
	2019-20	Rs 830.33 Crores					
	Cumulative Exp	: Rs 6782.20 Crores (up to 12/19)					
	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	<ul style="list-style-type: none"> Physical possession of balance 11.299 Acres Abadi land. Out of this, 3.15 acres in Ash Dyke area is critical. 41 houses of Khattegaon need to be shifted for completion of Lagoon IIA and 3 houses, school & Temple shifting to be done for completion of Lagoon IIB. Associated Transmission System for Unit-6 by UPPTCL: <ul style="list-style-type: none"> - Construction of sub-station at Basti - Construction of Tanda – Basti 400 KV Line 					
	Reasons for Delay	Poor mobilization by civil agency, Delay in Engg. & Supply. Delay in AHP (L&T MMH) Delay in Civil Front					

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Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A) / As now Expected			
			Svn. Com	Trail run COD	Svn. Com	Trail run COD		
	Central Sector							
15.	PatratuTPS, Imp.Agency-PVUNL Dist: Jharkhand. (JV of NTPC & Govt. of Jharkhand)]	2400						<p>Unit-1: Boiler: Boiler, MILL Bunker and ESP Foundation work in progress. Biler erection started on 27.08.19. TG: SG foundation completed.</p> <p>Unit-2: Boiler: Boiler, MILL Bunker and ESP Foundation work in progress. TG:.SG civil work in progress.</p> <p>BOPs: Chimney#1 Work started on 20.07.18, Excavation Completed on 11.09.08, PCC completed on 20.09.18. 6th segment casting completed. Shell casting started on 27.05.19. Present height is 86m. Chimney#2 work started on 20.07.18. 370/810MT bar erection done. Raft casting completed on 10.04.19.</p> <p>CHP: civil work started on 27.08.19. Design & engg drawings is being finalized. AHP: Design & engg drawings is being finalized. Work started on 16.10.19 ACC: Work yet to start PT Plant: Work yet to start. Design & engg drawings is being finalized. DM Plant: Work yet to start Design & engg drawings being finalized. CW System: Work yet to start Switchyard: Transmission line shifting work started on 14.09.18. Tower erection started on 15.04.19. GIS civil work started on 26.04.19. Two 220 kV diverted line charged.</p> <p>FGD: order placed to BHEL on 08.03.18. Civil foundations are being released.</p>
	U-1	800	11/21 01/22	03/22	- -	- 03/22		
	U-2	800	05/22 06/22	11/22	- -	- 07/22		
	U-3	800	11/22 12/22	03/23	- -	- 03/23		
	Original/Latest Cost	Rs 17112.00/ 18668 Crores						
	Exp.During 2017-18	Rs 99211 Crores						
	Exp.During 2018-19	Rs 48518 Crores						
	Exp.During 2018-19	Rs 12128 Crores						
	Exp.During 2019-20	Rs 381.35 Crores						
	Cumulative Exp.	Rs 2121.48 Crore (11/19)						
	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						
	Critical Areas	Shifting of Transmission line from Project Area, Acquisition of Balance land of 35Acre for ash dyke-2 and lease of 14.09acres of land and acquisition of 0.269 acre land fro railway siding.						
	Reasons for Delay	Delay in award of ACC Pkg, WPT, Mian Power House Str erection Pkg by BHEL						

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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						
16	Rourkela PP-II Expansion, Odisha	250					
	U-1	250	- 09/18	12/18	- 02/20	03/20 04/20	
	Investment Approval	: 14.09.15					
	Orig.Est. cost	: Rs 1885.13 Crores					
	Latest.Est. Cost	: Rs 1885.13 Crores					
	Exp.During	:					
	2016-17	: Rs 237.51 Crore					
	2017-18	: Rs 515.81 Crore					
	2018-19	: Rs 448.96 Crores					
	2019-20	: Rs 211.72 Crores (09/19)					
	Cumulative Exp	: Rs 1414 Crores(upto 09/19)					
	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)	BTG and EPC contracted to M/s BHEL including offsite civil works, order placed on 11.05.16					
	PPA	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						

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					<p>Unit-1: Unit completed 72 hr. full load trial on 20.12.2019. Unit commissioned on 29.09.2019. Synchronisation on 28.03.2019.</p> <p>Boiler (M/s BHEL) Civil work start 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</p> <p>TG & Condenser: Civil work start on 30.06.2014 and erection start on 24.03.2016. Condenser erection start on 24.03.2016. TG boxup 31.03.2017, TG oil flushing 20.11.2017 Steam blow off 20.02.2019.</p> <p>For Unit-2: Boiler : Civil work start on 31.10.2014, erection start on 28.03.2016, Hydro test (drainable) – 26.11.2018. BLU – 30.05.2019. TG & Condenser: Civil work start on 29.10.2014 and erection start on 24.03.2016. Condenser erection start on 24.03.2016. TG boxup 30.06.2017, TG oil flushing 15.09.2018 Steam blow off 26.09.2019.</p> <p>BOPs</p> <ul style="list-style-type: none"> • Chimney: Initial Operation completed and in service. • LHP: Complete and in operation. • AHP: All the equipments in AHS is commissioned. Som work is pending and work in progress. • RO/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: Initial Operation completed and in service. • FO System: Completed and in service. • Switchyard: 220kV GIS : 220kV GIS permanently charged. <p>400kV GIS: 400KV GIS permanently charged on 13.02.19. Civil work – Area Paving and drain work completed.</p> <ul style="list-style-type: none"> • FGD : LOI issued on 31.08.2019.
	U-1	500	07/17 09/17	10/17	28.03.2019(A) 29.09.2019(A)	20.12.2019(A) -	
	U-2	500	01/18 03/18	04/18	02/20 02/20	03/20	
	Original Estd. Cost	: Rs. 5907.11 Crores					
	Latest Est. Cost	: Rs. 7080.41 Crores (Base-Fab 2018)					
	Expenditure during 2011-12	: Rs. 14.4715 Crores					
	2012-13	: Rs. 13.5319 Crores					
	2013-14	: Rs. 311.1426 Crores					
	2014-15	: Rs. 445.6023 Crores					
	2015-16	: Rs. 1028.6206 Crores					
	2016-17	: Rs. 1933.3514 Crores					
	2017-18	: Rs. 1099.3654 Crores					
	2018-19	: Rs. 739.9544 Crores					
	2019-20	: Rs. 409.9579 Crores					
	Total Expenditure	: Rs. 5995.998 Crores (up to 9/19)					
	Approval date:						
	Zero date:	: 09/06/11					
	Financial closure	Debt: Equity 70:30 Loan availed from power finance 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.					
	<ul style="list-style-type: none"> • 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. Extension obtained upto 25.11.2021 						
Critical issues							
Reasons for Delay		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.					

SB: Dec 2019

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					<p>Unit -1: Boiler #1: civil work start on 17.03.2017, hydrotest (drainable) completed on 06.01.2020, 28645/44889 MT erection completed SCR pre assembly under progress, LDO tank1& Tank 2 Water fill test completed. Pressure Part joints & elevator structure erection completed TG: civil work start on 05.05.2017 and erection started on 08.10.2018. Condenser erection started on 08.10.2018. TG Box up is done on 27.12.2019. HP Condenser- Tube expansion completed LP Condenser Tube expansion work under progress ESP-1: Structural erection in progress. 4969/7862 MT erection completed. Collecting electrode & outlet funnel erection in progress. Control building EL+15 Mtr. brickwork is in progress</p> <p>Unit-2: Boiler #2: Boiler erection is in progress 16575/42485 MT erected. 24363/54835 nos Pressure Parts joints welding works completed. TG: Deck casting completed. ESP-2: Structure erection works in progress. 3232/7862 MT erected.</p> <p>Unit-3: Boiler#3 Mechanical Erection under progress. 12057/44889 MT erection completed. 2287/54789 pressure parts joints welding work completed. TG: Column work is in progress ESP-3: Structure erection works started. 440/7862 MT erected.</p> <p>BOPs Chimney: 269/269 mtr height completed. RCC Shell completed. Platform beam lifting for roof slab EL (+) 267m & EL (+) 257 m level, work under progress. 121/684 MT Platform beam erection completed Coal handling Plant: Wagon Tippler, Track Hopper, Crusher House, Stacker reclaimers, JT 1 to 12 & Emergency Reclaimer structure erection works are in progress. Ash handling Plant: Ash Silo and Ash dyke civil works are in progress. CW System: CW Pump House (CWPH) and CW channel RCC works in progress. DM Plant: DM Plant water generation started CPVC piping & valves erection under progress Switchyard: -132 KV GIS Building: Finishing work in progress. - 132 KV Fencing work under progress - 400 KV GIS Building –3rd tie beam under progress, control room brick work under progress - 765 KV GIS Building –2nd Tie beam work in progress. Column works in progress. - ICT & Reactor Foundation Fire wall works under progress. Backfilling works under progress. Cooling Towers: NDCT # 1,2,3 Civil works are under progress</p> <p>FGD: Board approved for cancellation of old tender and floating of retender is in process</p>
U-1	660	03/20 04/20	11/20	08/20 09/20	11/20		
U-2	660	09/20 10/20	05/21	02/21 03/21	05/21		
U-3	660	03/21 04/21	11/21	08/21 09/21	11/21		
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. 2661.44 Cr					
Cumulative Exp		:Rs. 8004.46 Cr (up to 12/19)					
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 Govt. on 31.12..2010					
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 System		CEA in its 36 th Standing Committee meeting held on 13.07.2015 at New Delhi, has agreed for power evacuation system of Ghatampur Thermal Power Station proposed by UPPTCL					
MoEF		MoEF issued Environmental clearance to NUPPL on 17.06.2015					
Land		Land of 828 Hectares has been acquired, balance for railway siding yet to be acquired					
Civil Aviation Clearance		Civil Aviation clearance received on 13.12.2013					
Water		U.P. govt. has sanctioned for 80 cusec water to be drawn from downstream of Bidhnu canal					
Critical issues							
Reasons for Delay							

AK-16/01/2020

Sl. No	PROJECT DETAILS	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual (A) / As Expected		
				Svn. Comm	COD	Svn. Comm	COD	
Central Sector								
3	Barsingsar TPP ext (Distt. Bikaner) (250 MW)	U-1	250	05/20	08/20 08/20	05/20 08/20	08/20	<ul style="list-style-type: none"> 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. <p>Project activities are under hold from 02/06/2017 due to withdrawal of PPA by DISCOMS.</p>
	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	Rs. 1.2086 Crores						
	Total Exp	Rs. 159.0581 Crores (up to 12/19.)						
	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						
	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.						

MPS – Jan 2020

Sl. No	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual (A) / As Expected		
			Svn. Comm	COD	Svn. Comm	COD	
Central Sector							
4	Bithnok TPP Distt. Bikaner, Rajasthan						<ul style="list-style-type: none"> R-infra has established their site office at Bithnok. The package activities at Bithnok are yet to start. <p>Project activities are under hold from 02/06/2017</p>
	U-1	250	05/20 08/20	08/20	05/20 08/20	08/20	
	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	: Rs. 1.1924 Crores					
	Total Exp	: Rs. 174.6634 Crores (up to 12/19)					
	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.					
	<p>Water: Water supply agreement signed on 10/06/14 b/w Indira Gandhi Nahar Pariyojna, GoR and NLC</p> <p>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</p> <p>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.</p> <p>Civil Aviation: NOC obtained on 09/08/16</p>						
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.					

MPS – Jan 2020

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.	2x660 Khurja STPP (UP) (THDCIL)	1320					Unit-1: Boiler: Awarded to M/s L&T MHPS Boilers Pvt. Ltd TG: Awarded to M/s BHEL. BOPs: Chimney: CHP: AHP: CWPs: IDCTs: FGD: Installation of FGD executed by BHEL
	U-1	660					
	U-2	660					
	Original/Latest Cost	: Rs 1108942 lakhs					
	Exp.During 2019-20						
	Cumulative Expenditure (up to 10/19)						
	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.					
	Land Possession: The land required is in possession of THDCIL Coal Linkage/FSA: Coal allocated from Amelia Coal Mine on 17.01.2017						
	Critical Areas						
	Reasons for Delay						

AK-13/12/2019

**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 BIHAR. (SJVNL)	1320					Unit-1: Boiler: TG: BOPs: Chimney: CHP: AHP: CWPs: IDCTs: FGD: Installation of FGD executed by BHEL
	U-1	660					
	U-2	660					
	Original/Latest Cost	Rs 1043900 lakhs					
	Exp.During 2019-20						
	Cumulative Expenditure (up to 10/19)						
	Type of fuel	Coal					
	Zero Date						
	Date of Main Plant Order (BTG)						
	MOE&F clearance:						
	Critical Areas						
	Reasons for Delay						

AK-13/12/2019

STATE & PRIVATE SECTOR

Thermal Power Plants

NORTHERN REGION

Thermal Power Plants

BROAD STATUS OF THERMAL POWER PROJECTS IN RAJASTHAN

Sl. No	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual (A) / As Expected			
			Syn. Comm	COD	Syn. Comm	COD		
State Sector								
1	Chhabra SCTPP, Chhabra RRVUNL Distt. Baran,Rajasthan	1320					<p>Unit-5: COD achieved on 09.08.2018. Commissioned on 04.04.2017. Synchronisation done on 25.02.2017</p> <ul style="list-style-type: none"> • Boiler: erection started on 17/02/14. HT done on 03/11/15. BLU done on 22/08/16. Steam blowing done on 26/08/16. Syn. on Oil done on 02/10/16. Re-lightning done on 06/1/17. Re-syn done on coal on 25/02/17. Coal firing done on 25/02/17. PG test completed on 21/03/2018. • TG: Condenser and TG erection started from 24/01/15 and 27/03/15 respectively. TG box up done on 08/03/16. Oil flushing completed on 27/05/16. <p>Unit-6: COD achieved on 02.04.2019. Commissioned on 11.12.2018. Synchronisation done on 28.07.2018.</p> <ul style="list-style-type: none"> • Boiler: Boiler Erection started on 17/08/15. Boiler HT achieved on 15/02/17. BLU achieved on 24/04/18. Steam blowing started on 28/04/18. Steam Blowing of critical piping competed on 26.05.18. Reliability Run completed on 03.01.19. • TG: TG deck casting completed on 25/06/16. TG erection started on 11/07/16. TG Box up is completed on 26/09/17. Second state lube oil flushing started on 27/09/17. seal oil system second stage flushing completed on 05/10/17. Third stage oil circulation completed on 25/12/2017. JOP trial and TG rotor lift check done on 26/12/2017. TG Barring Gear operation achieved on 16/01/2018. Synchronization on oil achieved on 28/07/2018. <p>ESP: Unit#5 ESP commissioned and Unit#6 ESP ready. Insulation completed. Commissioning completed.</p> <p>BoPs:</p> <ul style="list-style-type: none"> • Chimney: Ready in all respect. • CHP: CHP ready in all respect except railway siding. Coal Feeding through Unit#6 reclaim path started from 03.12.18. No load trial of Raclaimer completed. • AHP: Ready except the Fly Ash Silo. Readiness of Silo will match the commissioning schedule. • NDCT: Both NDCT commissioned. • DM Plant: Commissioned. • CW System: Ready • FO system: Commissioned • Switchyard: Anta line charged on 22/04/16 and switch yard charged on 23/05/16. 	
	U-5	660	06/16 09/16	09/16	02.10.16(A) 04.04.17(A)	09.08.18(A)		
	U-6	660	05/18	06/18	28.07.18(A) 11.12.18(A)	02.04.19(A)		
	Original/Latest cost	: Rs. 792000/955027/1091027 lakhs						
	Exp. During 2013-14	Rs. 76315 lakhs						
	2014-15	Rs. 85862 lakhs						
	2015-16	Rs. 249612 lakhs						
	2016-17	Rs. 279774 lakhs						
	2017-18	Rs. 112385 lakhs						
	2018-19	Rs. 88991 lakhs						
	Total Exp	Rs. 892939 Lakhs (up to 01/19.)						
	Zero Date of Project	: 28/03/2013						
	Financial Closure	Pertains to TD						
	Main Plant order Date	EPC Order placed on M/s L&T on 28/03/2013.						
	Type of Fuel	Coal						
Fuel linkage	Coal Blocks (Parsa East & Kante Basen) re-allocated by MoC, GoI on 24/03/15.							
PPA	Signed with Rajasthan Discom on 18/05/10							
Power evacuation system	Extension work of ANTA Line upto Chhabra STPP has been taken up by RVPN							
<p>Water: 300 MCFT from Lhasi and 1270 MCFT from Parwan irrigation projects has been ensured by GOR.</p> <p>Land: Land is available for both the units.</p> <p>MOE&F clearance Unit-5: 23/05/2012 Unit-6: 02/02/2015</p>								
Critical Issues	1. Rail Link 2. Raw Water							
Reasons for delay								

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							
2.	Suratgarh Super Critical TPP, RRVUNL, Suratgarh (Distt Sri Ganga Nagar	1320					<p>Unit-7: Commissioned on 30.03.2019. Synchronisation done on 18.12.2018.</p> <p>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. Preparation of trial run is under progress.</p> <p>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.</p> <p>ESP: Erection completed. Insulation and cladding work also completed</p> <p>Unit-8</p> <p>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.</p> <p>TG: Condenser Erection started on 28/06/15 and TG erection started on 05/11/15. Turbine boxed up on 09.11.17. Turbine oil Flushing completed on 18/08/2018. Barring Gear engaged on 05/02/2019. LP turbine blade rectification works at BHEL unit under progress</p> <p>ESP: Erection completed. Insulation work also completed.</p> <p>BoP's:</p> <p>Chimney: Both the chimney is ready. Balance electrical work is in progress</p> <p>CHP: Trial run of BCN-2B, 3A, 4A and 1A locally done. Erection on BCN-1C, 21ABC, 22AB, 3AB, 4AB, 25, 27AB, 31AB, 31D, 14A,B RBF-1, RBF-2 under progress Stacker cum Reclaimer & Reclaimer of Unit 7 commissioned. Stacker cum Reclaimer & Reclaimer and Electrical work of SCR &SR unit #8 is u/p.</p> <p>AHP: - Equipment Erection at the top of main Silo#3&4 is under progress Erection work of PD pump is completed and conveying piping is under progress Bottom ash hopper of U-7 has completed with refractory work and equipment erection work. Erection and commissioning work of ADL pipe line (L1 & L2) up to Ash dyke is completed.</p> <p>NDCT: U-7: Commissioned 100%. NDCT U#8: Internal Coloumns completed. Erection is under progress in first half. U#8 300000/411972 fills erected</p> <p>CW System: Ready</p> <p>DM Plant: Commissioning through PLC under progress</p> <p>PT Plant: Commissioning through PLC under progress</p> <p>FO system: Shell erection/fabrication completed. HFO unloading discharge pipe line work on ash handling pipe rack is under progress. Erection completed</p> <p>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.</p> <p>FGD Plant: - NIT floated on 13.05.2019.</p>
	U-7	660	06/16 07/16	09/16	18.12.18(A) 30.03.19(A)	01/20	
	U-8	660	09/16 10/16	12/16	06/20 06/20	07/20	
	Original/Latest cost		Rs. 792000/ 916135 lakh				
	Exp. during 2012-13		Rs. 1736 lakhs				
	Exp. during 2013-14		Rs. 55029 lakhs				
	Exp. during 2014-15		Rs. 191874 lakhs				
	Exp. during 2015-16		Rs. 252788 lakhs				
	Exp. during 2016-17		Rs 165353 lakhs				
	Exp. during 2017-18		Rs 39264.22 lakhs				
	Exp. during 2018-19		Rs 55420.54 lakhs				
	Exp. during 2019-20		Rs 48616.54 lakhs (up to 12/19)				
	Total Expenditure		Rs 929511.62 Lakhs (up to 12/19)				
	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 blocks 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		BHEL manpower; delay in supply and non-sequential supply by BHEL. Non-readiness of regular AHP & CHP by BHEL.				

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	COD	
Private Sector							
1	PRAYAGRAJ TPP M/s Prayagraj Power Generation Co. Ltd. (Distt. Bara, Allahabad), U.P.	1980					<p>U-1: Full load Achieved on 25.12.15. COD on 29.02.16</p> <ul style="list-style-type: none"> Boiler erection started on 12/07/11. HT done on 24/10/13. BLU done on 31/03/15. TG erection started in 01/13 & boxed up on 20/02/14. Oil flushing completed on 18/03/15. <p>Unit Synchronised on 31.10.15.</p> <p>U- 2: Full load Achieved on 06.09.16. COD on 10.09.16.</p> <ul style="list-style-type: none"> Boiler: Boiler erection started on 12.09.2011. Hydro test conducted on 29.01.15. BLU completed on 03.03.16. SBO completion expected in 05/16 ESP: ESP work completed TG: Condenser erection started on 10.06.13. TG erection started on 20.09.13. TG boxed up on 14.05.15. OF completed on 16.03.16. Unit Sync. on 07.07.16. <p>U-3: Full load achieved on 22.05.17. COD on 26.05.17.</p> <ul style="list-style-type: none"> Boiler: Boiler erection started on 05.09.2011. Hydro test conducted on 29.11.14. BLU on 31.05.16. Acid cleaning completed. Temporary piping work for steam blowing is under progress. SBO completed on 06/02/17. Unit Syn. (on oil) on 26/03/17. ESP: ESP work completed. TG: Condenser erection started on 10.01.14. TG erection started on 11.11.14. TG box up completed in 05/02/17. TG Oil flushing done on 14/02/17. <p>BOPS:</p> <ul style="list-style-type: none"> FGD: The order for FGD installation has been placed on M/S Tata Consultant Engineers (TCE) at the cost of @ 1000Cr. There is no space constraint for installation of FGD system in the plant. Chimney: Awarded to Paharpur. 275 height achieved for both chimneys. Flue 1&2 completed. Chimney 2 completed. CHP: Package A awarded to L&T and Package B awarded to HEW. For Package A, WT4 & WT 3 commissioned. For U-1,2,3 bunker ready. Load trials carried out. For Package B, 1st stacker reclaimers commissioned. AHP: Awarded to Macawber Beekay. System ready for U-1,2 & 3 completed. NDCT: CT-1,2 & 3 completed. PTP: PT plant commissioned DM Plant: DM plant commissioned FOS: ALL HFO and LDO storage & Day tanks completed. FOH pump house ready, LDO system commissioned. FPS: Ready for U-1,2 & 3 SWYRD: Work in 400 KV switchyard completed and charged one 765 kV line
	Unit-1	660	06/13	10/13	31.10.15(A) 25.12.15(A)	29.02.16 (A)	
	Unit-2	660	11/13	03/13	07.07.16 (A) 06.09.16 (A)	10.09.16 (A)	
	Unit-3	660	04/14	07/14	26.03.17(A) 22.05.17(A)	26.05.2017 (A)	
	Date of clearance by State Govt.	: Nov, 2006.					
	Original/Latest Est. Cost	: Rs.1162227 Lakhs/ 1387000 lakhs					
	Date of Financial Closure	: Achieved on 06.07.2010 with SBI					
	Exp. Upto 03/2011	:Rs.124478 Lakhs					
	Exp. During 2011-12	:Rs.137691 Lakhs					
	Exp. During 2012-13	:Rs.296958 Lakhs					
	Exp. During 2013-14	:Rs.308897 Lakhs					
	Exp. During 2014-15	:Rs. 285952 Lakhs					
	Exp. During 2015-16	: Rs. 171135 Lakhs					
	Exp. During 2016-17	: Rs. 130126 Lakhs					
	Exp. During 2017-18	:Rs.10097 Lakhs					
	Cumulative Expd. (4/17)	:Rs. 1465334 Lakhs					
	Type of fuel	: Coal					
	Date of Main Plant Order	: 22.01.2009 (BTG) on M/s BHEL					
	Boiler, TG & Generator make.	Boiler U-1: Structure from BHEL, Pressure parts from Alstom, U-2&3: From BHEL. TG & Gen U-1&2: From Siemens, U-3: From BHEL Hardwar.					
	Zero date	23.02.2010.					
	PPA	: PPA signed on 21.11.2008.					
	Fuel Linkage	: Fuel supply agreement between PPGCL & NLC for 6.95 MTPA has been executed on 29.08.2013.					
	Associated Transmission System	Power is proposed to be evacuated at 765 KV and 400 KV level for which 765KV and 400 KV switchyards are proposed. Responsibility of UPPCL & PPGCL. Work awarded to Isolux.					
	Land:	:1468 acres of land for the project is in physical possession. Land for the facilities outside the plant area is being acquired. For land required for railway sliding about 32.71 Ha out of 35 Ha has been acquired. Lease deed executed and the process of taking physical possession of land is completed.					
	MOEF clearance:	Obtained on 08.09.2009					

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-1	660	09/19 11/19	01/20	05/20 06/20	07/20	
	Original/Latest Cost	: Rs.482649 lakhs. Revised cost of Project due inclusion of FGD SCR is Rs. 550098 lakhs.					
	Exp. During 2015-16	: Rs. 30581 Lakhs					
	Exp. During 2016-17	: Rs 11513 Lakhs					
	Exp. During 2017-18	: Rs 45810 Lakhs					
	Exp. During 2018-19	: Rs 122383 Lakhs					
	Exp. During 2019-20	: Rs 96074 Lakhs					
	Cumulative Expd. (11/19)	:Rs 306361 Lakh					
	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					
	MOEF clearance	Change order from MOEF issued. The Govt.of UP has approved the Installation & Construction of FDR & SCR Syatems in December 2016 which will comply the MoEF circular dated 7/12/2015					
	Land	Not required being an Expansion Project					
	Civil Aviation Clearance	Civil Aviation Clearance granted on 11.07.12 from Airports Authority of India					
	Water	Water Allocated on 03.12.11 from Upper Ganga Canal					
	Note: - The above dates are based on 58.7 months' completion schedule. - All the other BoP packages have also been awarded to various contracting agencies for execution.						
Critical Areas/ Assistance Required							
Reasons for Delay		Late receipt of the MOEF&CC revised order by UPRVUNL with inclusion of FGD & SCR System in the project i.e. in December'2016.					

AK-24/01/2020

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. Sonbhadra), U.P.	1320					<p>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 Work of Main Steel Structure for TBN Building #1 & CCB Building are in progress ESP: Preassembly work of casing Panel with columns, Beams & Bracing of ESP#1 is in progress.</p> <p>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: Pre-assembly works of casing panel with columns, beams & bracing under progress</p> <p>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</p>	
	U-1	660	08/20 09/20	12/20	02/21 04/21	06/21		
	U-2	660	12/20 12/20	04/21	07/21 07/21	11/21		
	Original/Latest Cost	: Rs.1041600 lakhs(Including IDC)						
	Expenditure	2016-17 2017-18 42377 Lakhs 28623 Lakhs						
	Cumulative Expenditure (up to 12/19)	: Rs. 301819 Lakhs						
	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 Alstom Bharat Forge Power 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								

AK-11/02/2020

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					<p>Unit-1: Boiler: Erection of steel structure Tier 2,3 & 4 for Boiler # 1, Foundation work for Mill & Duct Supporting Structure are in progress. Air Duct & Gas Duct pre-assembly work for Boiler in progress. Burner Lifting work Boiler Front 1st Row Foundation & Pedestal work for ID Fan & FD Fan 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 in progress Unit-2: Boiler: Erection of Boiler steel structure Tier 1, Tier 2 and Tier 3 TG: Foundation and Pedestal work for STG Building, CEP/CW pit, TG Raft ESP: Pedestal and backfilling work in progress</p> <p>BOP</p> <ul style="list-style-type: none"> • Chimney:RCC Shell work for chimney in progress. • Raw Water system: Foundation (RCC) work for Raw water reservoir-A, HDPE lining & motor and sand bedding in progress Excavation 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: Foundation for underground Tunnel (JT-1 to PH-1), Slab scaffolding, Form, Rebar work, Water proofing, backfilling for Emergency Reclaimer hopper, Excavation and foundation work for coal stock yard. Excavation and foundation work for Drive house. Foundation work for Conveyor 5A/5B, 2A/2B, YBC -1A, YBC-1B, YBC-1C and BC-4A/4B. Steel Structure erection for JT-10 and JT-05 Conveyor 5A/5B (JT-06 ~ JT-08) structure fabrication and erection 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 Foundation work for Basin Floor (2nd layer), Grillage footing, Partition Wall, Hot & Cold water duct and Precast for NDCT –A • 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 	
	U-1	660	08/20 09/20	12/20	08/21 09/21	12/21		
	U-2	660	12/20 01/21	04/21	02/22 02/22	06/22		
	Original/Latest Cost	: Rs.1056627 Lakhs						
	Cumulative Expenditure (up to 12/19)	: Rs. 240000 Lakhs						
	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. 12.2 months 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 pedestal							

AK-24/01/2020

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, Dist. Kanpur, U.P. (UPRVUNL)	660	<u>09/21</u> 12/21	01/22	<u>09/21</u> 12/21	01/22	Unit-1:
	U-1	660					Boiler:
	Original/Latest Cost	Rs / lakhs					TG:
	Exp.During 2018-19 Exp.During 2019-20	Rs 1600 lakhs					BOPs:
	Cumulative Exp.upto April,2018	Rs 1600 Lakhs					Chimney:
	Type of fuel	Coal					CHP:
	Zero Date	31.03.2018					AHP:
	Date of Main Plant Order (BTG)	EPC package to M/s BHEL. LOA date: 31.03.18.					CWPs:
	MOE&F clearance:						IDCTs:
	Critical Areas						FGD:
	Reasons for Delay						

BROAD STATUS OF THERMAL POWER PROJECTS IN UTTARAKHAND

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/Comm	COD	Synch/Comm	Trial-run COD	
Private Sector								
1.	Kashipur Gas Based CCPP, Ph-II (M/s Sravanthi Energy Private Limited), Udhamasingh Nagar (2GT +1ST=225MW)	GT-1 GT-2 ST	75 75 75	11/11 11/11 12/11 12/11	11/11 11/11 12/11	* * *	*	<p>OPEN CYCLE GT-I&II All civil works are completed in 08/11. Both the gas turbines (6FA, GE France) & generator erection already completed. Cranking of GT completed. Both the GTs are on turning Gear. Waiting for gas</p> <p>COMBINED CYCLE HRSG-I&II: Erection of HRSG equipment supply completed. Erection of both the HRSG nearing completion. HT of both the HRSGs expected just after erection is completed.</p> <p>ST: ST & STG supply received at site. STG erection completed. ACC erection is nearing completion. STG oil flushing completed. STG yet to be put on BG.</p> <p>BoPs: • All the BoPs are ready.</p> <p>*Schedule will be decided after availability of gas</p>
Original / Latest Cost		Rs.89800 Lakhs / Rs. 130000 Lakhs						
Expenditure during 2010-11		Rs.70500Lakhs						
Expenditure during 2011-12		Rs. 11500 Lakhs						
Expenditure during 2012-13		Rs. 7100 Lakhs						
Expenditure during 2013-14		Rs. 1200 Lakhs						
Expenditure during 2014-15		Rs. 800 Lakhs (up to 06/14)						
Total Expenditure		: Rs.91100 Lakhs (Upto 06/14)						
Approval date:		: NA						
Zero date:		: 04/11/10						
Notice To Proceed (NTP)		: 04/11/10						
Financial closure		Achieved on 04/11/10						
Main Plant Order		: 04/11/10 on M/s Sravanthi Infratech Private Ltd (EPC Basis).						
BTG Make		GTGs# GE, France(6FA), HRSGs#Greens Power Equipments(China) Co. Ltd.and STGs are from HTC China						
BOP Package		Common BoPs for Ph-I&II, Reputed Indian Vendors						
Type of fuel		: Natural Gas (1.2 mmcmd)						
PPA		: PPA yet to be signed						
Source and supply of Fuel		: Domestic Gas from D-6, KG Basin (Right now E-Bidding RLNG)						
Power Evacuation system		open access: Transmission with PGCIL for 450MW capacity power evacuations through 400 kV/220kV permission granted by NRLDC on 29/12/10. Readiness of ATS through nearby Grid sub-station is scheduled by 12/16.						
<ul style="list-style-type: none"> FSA yet to be signed. All statutory clearances are available. All the BOPs has already been commissioned. M/s TCE, Bangalore is the owner's consultant. Gas pipeline connectivity completed. All common utilities are ready. 								
Critical issues		Availability of Gas & PPA						
Reasons for Delay		Non-availability of Domestic Gas.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Sync/ Comm	Trial-run COD	
Private Sector								
2.	BETA CAPP, Module-I, at Kashipur (M/s BETA INFRATECH PRIVATE LTD.), Udhasingh Nagar (2GT +1ST=225MW)	GT-1 GT-2 ST	75 75 75	12/11 12/11 03/12 03/12	12/11 12/11 03/12	* * *	*	<p><u>OPEN CYCLE GT & GTG</u> Both the gas turbines (6FA, GE France) & generators supply reached at site. Erection of both the GTs and GTGs has completed. Oil flushing of both the GTs completed. Erection of GT exhaust duct completed. By pass stack erection completed. Erection of diverter and damper completed. GT is ready to put on turning gear. Commissioning in open cycle is possible within one month from availability of gas</p> <p><u>COMBINED CYCLE HRSG-I & II</u> Both the HRSGs order have placed on M/s Thermax (India) 23/10/10. HRSG erection completed. HT of both HRSGs completed. HRSG is ready for ABO.</p> <p><u>ST:</u> ACC erection started on 01/05/12. ACC erection is under progress. ST order has placed on M/s G.E. on 04/12/10 and completed. TG erection started 26/04/12. TG Box Up completed. ST synchronization is expected within two and half month from availability of gas. Combined cycle commissioning is expected within 3month from availability of gas.</p> <p><u>BoPs:</u></p> <ul style="list-style-type: none"> • All the BoPs are either already completed or nearing completion. <p>*Schedule will be decided after availability of gas</p>
Original /Latest Cost		: Rs. 93600 Lakhs / Rs. 125400 Lakhs						
Expenditure during 2010-11		: Rs. 4649 Lakhs						
Expenditure during 2011-12		: Rs. 74994 Lakhs						
Expenditure during 2012-13		: Rs. 20008 Lakhs						
Expenditure during 2013-14		: Rs. 16000 Lakhs						
Expenditure during 2014-15		: Rs. 2913 Lakhs (upto 06/14)						
Total Expenditure		: Rs. 118564 Lakhs (Upto 06/14)						
Approval date:		: NA						
Zero date:		: 04/12/10						
Notice To Proceed (NTP)		: 04/12/10						
Financial closure		: Achieved						
Main Plant Order		: 20/09/10, 04/12/10 And 23/10/10 on M/s BETA Infraprop (P) Ltd (EPC Basis) through ICB route.						
BTG Make		GTGs# GE, France(6FA), HRSGs# Thermax (India).and STGs are from HTC China						
BOP Package		: Reputed Indian Vendors						
Type of fuel		: Natural Gas						
PPA		Yet to be signed						
Source and supply of Fuel		Domestic Gas from D-6, KG Basin (Right now E-Bidding RLNG)						
Power Evacuation system		Connectivity of the plant with 220/132kV Mahua Khera Ganj substation has been approved. LILO of 220kV circuit from 400kV Kashipur to 220 kV Mahua Khera Ganj is nearing completion. Long Term Access (LTA) from 220kV/132kV Mahua Khera Ganj sub-station has been approved by PGCIL.						
<ul style="list-style-type: none"> • FSA yet to be signed • All statutory clearances are available. • All the BOPs are either already completed or nearing completion. • Both the gas conditioning skids are yet to be made ready. • Gas in gas pipeline charged upto GAIL skid inside the project. • Switchyard with control room is ready. 								
Critical issues		Availability of Gas and PPA						
Reasons for Delay		Non-availability of Gas.						

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	Synch/ 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. FGD: FGD plant expected in 6/22.
		U-2 (U-4)	600	06/12 08/12	08/12	08/08/14(A) 22/08/14 (A)	26/08/14(A)	
		U-3 (U-2)	600	10/12 12/12	12/12	12/17(A) 18/01/18(A)	21/01/18(A)	Unit-3 (U-2) : COD achieved on 21/01/2018. Commissioned on 18/01/18. Synchronised in 12/17. FGD: FGD plant expected in 10/22.
		U-4 (U-5)	600	02/13 04/13	04/13	08/21 08/21	08/21	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. FGD: FGD plant expected in 12/22.
		U-5 (U-1)	600	06/13 08/13	08/13	11/21 11/21	11/21	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 columns casted and column TG Deck casting is yet to be completed. FGD: FGD plant expected in 02/23.
		U-6	600	10/13 12/13	12/13	02/22 02/22	02/22	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.
	Original Cost / Latest Cost	: Rs.1619000 Lakh / Rs. 2708000 lakhs						
	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.						
	<ul style="list-style-type: none"> 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.						

* 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	COD	
2	Uchpinda TPP Unit-1(Ph-I) Unit-2,3&4(Ph-II) R.K.M Power, Janjgir Champa District, Chhattisgarh (4x360MW=1440MW)	U-1	360	03/12 05/12	-	28.02.15 (A) 28.10.15(A)	26.11.15(A)	<p>Unit-1 : COD achieved on 26.11.2015. Commissioned on 28.10.2015. Synchronized on 28.02.15.</p> <p>Unit-2 : COD achieved on 12.02.2016. Commissioned on 28.01.2016. Synchronized on 07.01.2016.</p> <p>Unit-3 : COD achieved on 14.11.2017. Commissioned on 12.09.2017. Synchronization on 31.08.2017.</p> <p>Unit-4 : After getting CTO on 25.02.2019, COD achieved on 20.03.2019. Commissioned on 06.03.2019. Synchronization on 06.03.2019.</p> <p>BoPs:</p> <ul style="list-style-type: none"> Chimney: Chimney-1 Shell construction work completed (270m). Flue erection and insulation for U-1&2 completed. Chimney-2: Shell construction work completed (270m). erection and insulation for U-3&4 completed CHP: Phase 1 & 2 completed in all respect. AHP: BAHS for U-1,2,3&4 completed. PT/DM Plant: Three streams are commissioned and in operation. Forth stream commissioning to be done CW System: CW pump house-1 civil work completed CW pump house-2 civil work completed and CW pumps erection is completed. CW piping for unit-1,2,3&4 is completed Cooling Tower: Already Commissioned. FOPH: HFO & LDO storage tanks erected and insulation completed Switchyard: Completed in all respects. <p>FGD: Vendor identification under process.</p>
		U-2	360	09/12 11/12	-	07.01.16 (A) 28.01.16(A)	12.02.16(A)	
		U-3	360	12/12 02/13	-	31.08.17(A) 12.09.17(A)	14.11.17(A)	
		U-4	360	05/13 07/13	-	06.03.19(A) 06.03.19(A)	20.03.19(A)	
	Org.Est. cost / latest cost (h-I-148750 lacs/ 263835 lacs Ph-II – 516611 lacs / 914616 lacs)	: Rs. 665361 Lacs /1037733 lakhs/ 1178451						
	Exp. During 07-08 Exp. During 08-09 Exp. During 09-10 Exp. During 10-11 Exp. During 11-12 Exp. During 12-13 Exp. During 13-14 Exp. During 14-15 Exp. During 15-16 Exp. During 16-17 Exp. During 17-18	: Rs. 1270 Lacs :Rs. 12311 Lacs : Rs. 37363 Lacs : Rs. 67641 lacs : Rs. 153338 lacs : Rs. 277291 lacs : Rs. 255521 lacs : Rs. 119057 lacs : Rs 99890 lacs : Rs 106584 lacs : Rs 12476 lacs						
	Cumm Exp. (Up to 10/17)	: Rs.1141842 lacs						
	Zero date:	: 01/06/09						
	Financial closure	: 07/06/10 (Ph-II) 02/01/09 (Ph-I)						
	Main Plant Order	06/09. on M/s MIPP International. Boiler: China Western TG: Harbin						
BOP Package	GM technical services, Ph-1 & 2 18/01/2011							
Type of fuel	Coal							
PPA	: Signed with CSEB for 37.5% on 29/09/06 and PTC for sale of 300 MW on 08/05/09. PPA for sale of 350 MW signed with UPPCL on 15/03/16.							
Power Evacuation system	BPTA signed with PGCL on 25/02/10. BG for Rs. 40.95 cr given to PGCL.Detail route survey completed Route alignments completed. TSA agreement signed on 06/08/12							
	<ul style="list-style-type: none"> Land: Total 900 acres' land acquired. Govt. land: 104 acres & private land 645.51 acres. 94.17 acres Govt. land allocated for green belt development. MOE&F: Obtained on 26/08/08. Civil Aviation: AAI issued NOC on 05/09/2008. Water: 44.83 MCM per annum. Coal linkage: FSA signed with SECL for Phase-I on 03/09/13 and phase-II on 23/09/13. 							
Critical issues	Consent to Operate-Due to non availability of CTO, Developer is not able to commission the Unit 4. Tapering coal linkage has been cancelled by SECL. BG to be issued to release FDR amounts paid customs. PPA issue- CSPTCL has expressed inability to offtake power as per PPA. Working Capital required for starting operation of U-1 is 153 cr & for U-2,3,and 4 is 571 cr.Readiness of Railway siding(work delayed due to land acquisition because of new land acquisition policy and funds)							
Reasons for Delay	Work suffered due to agitation by villagers. Slow progress of work at site. Delay in readiness of BoPs. Delay in readiness of startup power. Delay due to financial problems. Balance land acquisition for Ash pond and railway line. Consent to operate for U-2,3&4.							

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch/ Comm	COD	Sync/ Comm	Trial-run COD		
3	Lanco Amarkantak Mega TPS (Pathadi) (Distt. Korba) M/s LAP Pvt. Ltd. Phase-II (2x660MW=1320MW)	3	660	01/12 01/12	-	*	*	<p>Unit-3</p> <ul style="list-style-type: none"> • 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. <p>Work is held up at the site due to fund constraints since 07/17.</p> <p>Unit-4</p> <ul style="list-style-type: none"> • Boiler: Boiler erection started on 1/12/10 • TG: Condenser erection started on 11/11/11. TG Deck casting completed & TG erection started on 15/05/13 • ESP: All 4 passes are under progress. <p>BoPs:</p> <ul style="list-style-type: none"> • 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. • FOPH: 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	-	*	*		
	Original /Latest Cost		Rs.688600 Lakhs/ Rs770000 Lakhs/Rs. 1081524 lakhs						
	Expenditure during 2007-08		Rs. 189 lakhs						
	Expenditure during 2008-09		Rs. 209 lakhs						
	Expenditure during 2009-10		Rs. 9841 lakhs						
	Expenditure during 2010-11		Rs.206364 lakhs						
	Expenditure during 2011-12		Rs 262658 lakhs						
	Expenditure during 2012-13		Rs. 125739 Lakhs						
	Expenditure during 2013-14		Rs. 12500 Lakhs						
	Expenditure during 2014-15		Rs. 61445 Lakhs						
	Expenditure during 2015-16		Rs 165255 Lakhs						
	Expenditure during 2016-17		Rs 109579 Lakhs						
Expenditure during 2017-18									
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.							
<ul style="list-style-type: none"> • 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.

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status		
				Original		Actual(A)/ As Expected				
				Synch/Comm	COD	Sync./Comm	COD			
4	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. <ul style="list-style-type: none"> 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 11/11 and TG box-up completed in 07/12. Unit-2 <ul style="list-style-type: none"> 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 11/11 and TG boxed-up 09/14 and put on barring gear in 10/14. BoPs: <ul style="list-style-type: none"> Chimney: Flue can erection completed. CHP: Under progress. AHP: Under progress. CW System: Under progress. 		
		Original / Latest Cost	:Rs 1458.44 Cr./ Rs. 1458.44 Crs.							
		Exp. During 2009-10	:Rs 14441 lakhs							
		Exp. During 2010-11	: Rs . 43617 lakhs							
		Exp. During 2011-12	: Rs . 88942 lakhs							
		Exp. During 2012-13	: Rs . 38000 lakhs							
		Exp. During 2013-14	: Rs . 38657 lakhs							
		Exp. During 2014-15	: 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.									
	<ul style="list-style-type: none"> 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. 									
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), For 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 supply 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		
5	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	Uncertain	Uncertain	<p>Unit-1</p> <ul style="list-style-type: none"> 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 <p>BoPs:</p> <ul style="list-style-type: none"> 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			Uncertain	Uncertain		
	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 GOCC to execute PPA with Developers on behalf of the GOCC. This PPA is in line with the implementation agreement executed with GOCC								
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								
	<ul style="list-style-type: none"> 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.								

SI.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Sync/Comm	COD	Sync/Comm	COD		
6	Singhitarai TPP (Dumatpalli TPP) Janjgir (Vill) Champa Distt. (M/s Athena Chhattisgarh Power Ltd) (2x600=1200MW)	U-1	600	10/14 11/14	-	*	*	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: <ul style="list-style-type: none"> • 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	-	*	*		
	Original Cost/Latest cost	: Rs. 620000 lakhs/ Rs. 811900 lakhs (844379.1 lakh further revised)							
	Exp up to 03/2008	:Rs. 371 lakhs							
	Exp 2008-09	:Rs. 3509 lakhs							
	Exp 2009-10	:Rs. 6690 lakhs							
	Exp. 2010-11	:Rs. 56343 lakhs							
	Exp. 2011-12	:Rs. 50204 lakhs							
	Exp. 2012-13	:Rs. 92116 lakhs							
	Exp. 2013-14	:Rs. 129337 lakhs							
	Exp. 2014-15	:Rs. 154090 lakhs							
	Exp. 2015-16	:Rs. 62395 lakhs							
Exp. 2016-17	: Rs. 74611 lakhs								
Exp. 2017-18	: 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 RRVN and 107.5MW participated 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 from MoP for construction of 400kV D/c dedicated 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.								
	<ul style="list-style-type: none"> • 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: Clearance 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.

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/Comm	COD	Synch/Comm	COD	
7	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. Unit-2 : COD on 01/04/18. Full load on 28/03/18. Syn on 12/17.
		U-2	300	11/13 12/13	-	12/17(A) 28/03/18(A)	01/04/18(A)	
		U-3	300	02/14 03/14	-	*	*	
		U-4	300	05/14 06/14	-	*	*	
	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.							
	<ul style="list-style-type: none"> 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. 							
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.							

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch/ Comm	COD	Sync./ Comm	COD		
7	Nawapara TPP (TRN TPP), (Distt: Raigarh) M/s TRN Energy Pvt Ltd., Chhattisgarh (2x300=600MW)	U-1	300	11/13 12/13	-	31/05/16(A) 14/08/16(A)	19/08/16(A)	<p>Unit-1 : COD on 19/08/16. Commissioned on 14/08/16. Synchronized on 31/05/16.</p> <p>Boiler Boiler erection started on 01/10/12. Boiler Drum lifted on 30/03/13. Boiler HT completed on 28/03/14 BLU completed on 25/12/15 Steam blowing completed on 07/01/16. Synchronized on 31/05/16 Unit</p> <p>TG Condenser erection started on 04/14. TG erection started in 01/06/14. TG Boxed up on 08/ 12/15. TG put on barring gear in 12/15 insulation & cladding work completed. Condenser charged.</p> <p>Unit-2: COD on 01/05/17. Commissioned on 18/04/17. Synchronized on 20/12/16.</p> <p>Boiler Boiler erection started in 06/03/13 Boiler Drum lifted on 21/09/13 Boiler HT completed on 28/08/15 BLU completed on 23/10/16. SBO completed.</p> <p>TG Condenser erection started on 08/07/15. TG erection started on 01/07/15. TG Boxed up on 20/11/16. TG oil flushing on 22/11/16. TG put on Barring Gear on 24/11/16. Completed.</p> <p>BoPs:</p> <ul style="list-style-type: none"> • Chimney: All work completed. • CHP: All work completed. • AHP: All work completed. • Raw Water Supply System: Ready • CW System: For both units completed. • IDCT-I: commissioned • IDCT-II: Work in progress • PT & DM Plant: commissioned. • FOHS: LDO & HFO system operational. • Switchyard: Switchyard charged. 	
		U-2	300	03/14 04/14	-	20/12/16(A) 18/04/17(A)	01/05/17(A)		
	Org.Est. cost / Latest Cost	:Rs. 284400 Lakhs/ 372597 lakhs							
	Exp. During 11-12	: Rs. 27800 lakhs							
	Exp during 12-13	: Rs. 40523 Lakhs							
	Exp during 13-14	: Rs. 121353 Lakhs							
	Exp during 14-15	:Rs. 78824 Lakhs							
	Exp during 15-16	: Rs 35400 Lakhs							
	Exp during 16-17	Rs. 42755 Lakhs							
	Cumm. Exp (11/16)	: Rs 346655 lakhs							
	Approval date:								
	Zero date:	27/06/11							
	Financial closure	Achieved on 18/12/09							
	Main Plant Order	: BTG Contract awarded on 27/01/11 to M/s China Western Power Co.Ltd.							
BOP Package	The order for main plant civil & structural work and all the BOPs on EPC basis have already been placed on M/s BGR Energy Systems Ltd. on 09/06/11. The EPC contract covers all the onshore supplies, civil works, erection and commissioning of the project.								
Type of fuel	Coal								
PPA	Entered with Chhattisgarh State Power Trading Company Ltd. for 35% power in accordance with MOU with Govt. of Chhattisgarh. In case-1 bidding with UPPCL, TRN was in 2nd position.(L2) for 390 MW. PPA is with PTC on take or pay basis. As per Letter dated 13/01/14 Signed back to back PPA with PTC for supply of 390 MW to UPPCL on 25/07/13 and 5% of net power i.e 30 MW to be signed with CSPTCo. Ltd. As per Letter dated 28/04/16 Already signed PPA for sale of 5% of net power with C.S.P.T.Co on 26/05/15. Further, signed with UPPCL for sale of 390 MW .								
Power Evacuation system	BPTA has signed with PGCIL for Raigarh Pooling Station (Tannar) on 11/04/11 for 400 MW.								
	<ul style="list-style-type: none"> • Land: Land is in possession. • MOE&F: clearance has been received on 18/03/11 • Civil Aviation: Clearance received on 24/02/12 • Water: 19 MCM has been allocated by W.R. Dept., Chhattisgarh. • Coal linkage: FSA signed on 23/11/2013 								
Critical issues									
Reasons for Delay	Delay in start of Civil works. Slow progress in erection works of Boiler and T.G. Manpower shortage.								

BROAD STATUS OF THERMAL POWER PROJECTS IN GUJARAT

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch Comm	COD	Synch Comm	Trial Run COD	
State Sector								
1.	Wanakbori TPS Extn. GSECL, Dist: Kheda Gujarat (1x800=800MW)	8	800	07/18 10/18	10/18	03.03.19(A) 14/06/19(A)	12.10.19(A) 13.10.19(A)	<p>Unit-8: Unit Synchronized on 03.03.2019; Full load on 14.06.2019. Completed trial run on 12.10.2019, COD on 13.10.2019</p> <p>Boiler: Boiler erection started on 25/02/16. Drainable Hydro test completed on 12/01/2018. Boiler light up on 30/07/2018. Steam Blow Off completed on 31.01. 2019. 60% cladding sheet fixing completed & balance cladding sheet fixing work u/p</p> <p>TG: TG civil works started on 21/12/15. Condenser erection started on 22/12/16 (outside assembly). TG Deck casting completed on 01/08/17. TG erection started on 31/08/17. TG Box Up is done on 28/12/18. Main Turbine trial on barring gear carried out on 29.12.2018. Main Turbine rolled on 02.03.2019.</p> <p>BoPs:</p> <ul style="list-style-type: none"> • Chimney: Completed in all respect. • CHP: In this package order for Civil works is with Bridge & Roof (I) Pvt Ltd. The mechanical work is with M/s GMW. Wagon tippler: Tunnel bottom raft 95/152, Both side wall 94/152 and slab 82/152 completed. Casting of pent house slab completed. WT RCC Slab at RL 59.068 is casted. WT RCC wall to RL 61.468mt is casted and slab beam and slab shuttering is U/P. • AHP: Order has been placed on M/s Macawber Beekay for Mechanical and M/s GMW for structural work. The order for civil works is with M/s Bridge & Roof (I) Pvt. Ltd. and is in progress. All pumps erected. AHP MCC 1, 2 civil work completed. Piping work completed. And in service. • Raw Water Supply System: Order placed to M/s Chembond Solenis Water Technologies Ltd for Erection & Commissioning. Completed and in service • Fire Protection System: Fire water pump, jockey pump, hydrant spray pump and placed at site decouple trial taken. Foam system erected, trial pending. Firefighting pedestal 90% is completed, except Crusher House to WT and Silo • PT/ DM Plant: Order for DM plant has been placed on M/s. Aqua Design India Pvt. Ltd for Erection & Commissioning. Stream 1 and Stream 2 mechanical work completed. Automation work under progress. PTP order is with M/s Pennar Enviro Ltd; DM building civil works (inside) completed and rest under progress. (initially treated water has to be arranged from existing plant) Filter backwash sump completed. Clarifier hydro test is completed. Chemical House in service. Instrumentation work in progress for DM Plant • CW System: The order has been placed on M/s Chembond Solenis Water Technology. Commissioned and in service. • NDCT: The order placed on M/s NBCC. NDCT work completed and in service. • Switchyard: Order placed on M/s Teknow Overseas Private Ltd. AIS/GIS in service Switchyard Tie line -I and ST cherged through BUS-I. <p>FGD – LOA issued to Dattang Technologies & Engg. India Pvt. Ltd. for erection, testing and commissioning of FGD system on 16.03.2019. Soil Investigation at site completed and Report awaited.</p>
Original /Latest Cost		: Rs.353651 Lakh / Rs 353651 Lakh						
Expenditure during 2014-15		: Rs.12701 Lakh						
Expenditure during 2015-16		: Rs.48760 Lakh						
Expenditure during 2016-17		: Rs.150651 Lakh						
Expenditure during 2017-18		: Rs.117495.59 Lakh						
Expenditure during 2018-19		: Rs 73178.36 Lakh						
Total Expenditure		: Rs. 429689.61 Lakhs (Upto 11/19)						
Approval date:		: NA						
Zero date:		: 21/10/14						
Notice To Proceed (NTP)		:						
Financial closure		Completed						
Main Plant Order		: 21/10/14. on M/s BHEL, EPC basis Boiler: Alstom Power INC TG: Siemens AG Germany						
BOP Package		: BHEL, EPC						
Type of fuel		: Coal						
PPA		: PPA signed on 01/01/2011 with GUVNL.						
Source and supply of Fuel		: Gare Plasma Coal Block, Chhattisgarh						
Power Evacuation system		<ul style="list-style-type: none"> • All mandatory clearances are available. • Power evacuation system readiness is expected 6 months before COD. • Topographical & Soil investigation work is completed. • LOI for RCC Chimney placed on M/s Bygging India Ltd. on 11/06/15. • BHEL issued order for civil work to M/s BJCL for Boiler to Chimney area. • MOE&F Clearance obtained 02.12.2013 • Civil Aviation clearance on 03.02.2009 <p>Water allocation: 10.82MGD allocated from Mahi River.</p>						
Critical issues		Readiness of regular CHP, fly Ash disposal system and Ash dyke.						
Reasons for Delay		Due to soil strata a lot of piling (4300numbers) has been done in BTG area. Non-readiness of NDCT (100%) and fly ash disposal. Delay in readiness of TG Deck						

AK-31/12/2019

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	Trial Run /COD	Synch/ Comm	Trial Run /COD	
State Sector								
1.	Shree Singaji TPP, Stage –II (At Dongalia Distt. Khandwa), MPPGCL (2x660=1320MW)	3	660	03/18 05/18	07/18	27.04.18(A) 14.08.18(A)	18.11.18(A)	<p>Unit-3: COD on 18/11/18. Commissioned on 14/08/18. Synchronisation on 27/04/18.</p> <p>Boiler: Boiler erection started on 18/06/15. Pressure parts erection completed. Boiler HT completed on 31/03/17. BLU achieved on 24/01/18. Synchronisation done on 27/04/18. Full load achieved on 14/08/2018.</p> <p>TG: TG deck casting completed on 30/04/16. Condenser erection started on 11/07/16. TG erection started on 24/11/16. TG box up completed on 30/11/17. TG put on BG in 12/17.</p> <p>Unit-4: COD on 27/03/2019. Commissioned on 26/02/2019. Full Load on 26/02/19. Synchronisation on 27/12/18.</p> <p>Boiler: Boiler erection started on 27/10/15. Boiler HT (D) completed on 27/07/17. Boiler light up achieved on 24/10/2018. Steam Blowing started on 27/10/18 and completed on 25/11/18. Test Synchronisation has been done on 27/12/18.</p> <p>TG: TG deck casting completed. Condenser erection started on 02/02/17. TG erection started on 30/05/17. TG boxed up on 30/03/18. Over Speed Test of Turbine has been done on 27/12/18. Safety Valve setting done successfully on 11.01.19. Availability of start up power is done on 29/08/17.</p> <p>BOPs:</p> <ul style="list-style-type: none"> Chimney: Ready for both Units CHP: Equipments commissioning and trial run is in progress. AHP: Wet Ash System is ready. Dry fly Ash System, Ash water Recovery System, h2 Generation Plant and Ash dyke Lagoon-1 work under progress. Raw Water Supply System: Functional. PT/ DM Plant: Functional CW System: Civil work completion is in final stage and laying of CW pipeline completed. Unit # 3 CW system already charged. NDCT: Unit#3 Functional, Unit#4 50% Functional and 50% Ready. FOPH: Ready. Switchyard: Switchyard charged. Unit # 3 on load & Unit # 4 Synchronized with grid on 27/12/18. <p>FGD: Present Project Consultant to be continued. Site selection made. Tender is invited on ICB basis & Published on 20th Jun'18. Pre bid conference held on 24th Sept. 2018. Due to closing of old E-Procurement Portal, a fresh tender is floated and under scrutiny currently. Date of Award expected by 09/2019.</p>
Original /Latest Cost		: Rs.650000 lakhs / Rs.773800 lakhs						
Expenditure during 2013-14		: Rs 117 lakhs						
Expenditure during 2014-15		: Rs 46488 lakhs						
Expenditure during 2015-16		: Rs 56475 lakhs						
Expenditure during 2016-17		: Rs 159878 lakhs						
Expenditure during 2017-18		: Rs 206337 lakhs						
Expenditure during 2018-19		: Rs 127344 lakhs						
Expenditure during 2019-20		: Rs 18446 lakhs (Upto 06/2019)						
Total Expenditure (Upto 04/19)		: Rs. 615085 lakhs						
Approval date:		: NA						
Zero date:		: 31/12/14.						
Notice To Proceed (NTP)		: 31/12/14						
Financial closure		: Achieved in 03/15						
Main Plant Order		: EPC on M/s L&T on 31/12/14						
BTG Make		: L&T/MHI						
BOP on EPC basis		: M/s L&T on 31/12/14						
Type of fuel		: Coal						
PPA		: With MPTradco (now known as MPPMC) on 04/01/2011.						
Source and supply of Fuel		: Gondbahera-Ujjaini coal block having 5.32 MT reserve to MPPGCL on 07/06/13.						
Power Evacuation system		<ul style="list-style-type: none"> Land: Available. Mega Power Status: : Obtained on 05/07/12. MoEF: Received on 27/08/14. Project Consultant: M/s Lahmeyer International (I) Ltd, Gurgaon Design and Engineering works under progress. Consent to Operate U-3 granted by MPPCB, Bhopal on 14/04/2018 						
Critical issues		First stage Forestry clearance of Gonbahera Coal Block by MoE&F. Major balance works under EPC scope such as Dry fly Ash System, Ash water Recovery System, h2 Generation Plant and Ash dyke Lagoon-1						
Reasons for Delay								

SK-12/07/2019

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.	Mahan TPP (Dist. Singrauli) Essar Power MP Ltd. (2x600=1200MW)	1	600	07/11 09/11	09/11	24/12/12 (A) 25/02/13 (A)	29/04/13 (A)	Unit-1 : COD achieved on 29/04/13. Commissioned on 25/02/13. Synchronized on 24/12/12.
		2	600	10/11 12/11	12/11	07/17 (A) 26/09/18 (A)	07/10/18 (A)	
Original/Latest Cost		: Rs. 773800 Lakhs/ Rs. 773800 Lakhs						<p>Boiler: Boiler erection started in 09/09. Boiler drum lifted on 21/06/10. HT done in 08/11. BLU done in 31/3/12. SBO completion on 21/08/12.</p> <p>TG: TG erection started in 11/10. TG box up completed on 24/09/12. TG oil flushing completed in 11/12. TG on barring gear on 07/12/12.</p> <p>Unit-2 : COD achieved on 07/10/18. Commissioned on 26/09/18. Synchronized in 07/17.</p> <p>Boiler: Boiler erection started in 06/10. Boiler drum lifted in 01/11. HT done in 02/12. BLU achieved on 14/05/17. SBO completed in 06/17. Full load achieved on 26/09/18. TG: Condenser erection started in 03/11. TG erection started in 03/11. TG Box up completed in 07/17. TG oil flushing completed in 07/17. Syn. achieved in 07/17. Coal firing is completed in 08/17.</p> <p>BoPs:</p> <p>As the unit-1 of the project has already been commissioned and BoPs are common for both the units.</p> <ul style="list-style-type: none"> • Chimney: Already completed • CHP: Second stream of the CHP is already ready • AHP: U-2 AHP is ready • Raw Water Supply System: Ready • PT/ DM Plant: PT plant ready. DM Plant also commissioned. • CW System: Ready • CT: : Commissioned. • FOPH: Completed. • Switchyard: Completed in all respects.
Expenditure during 2006-07		: Rs 155 Lakhs						
Expenditure during 2007-08		: Rs 36609 Lakhs						
Expenditure during 2008-09		: Rs 38189 Lakhs						
Expenditure during 2009-10		: Rs 114755 Lakhs						
Expenditure during 2010-11		: Rs 335735 Lakhs						
Expenditure during 2011-12		: Rs 12807 Lakhs						
Expenditure during 2012-13		: Rs 92434 Lakhs						
Expenditure during 2013-14		: Rs 8953 Lakhs						
Expenditure during 2014-15		: Rs 110285 Lakhs						
Expenditure during 2015-16		: Rs 55987 Lakhs						
Expenditure during 2016-17		:Rs 18654 Lakhs						
Expenditure during 2017-18		:Rs - Lakhs						
Total Expenditure		: Rs 815610 Lakhs (Upto 03/17)						
Approval date:		:NA						
Zero date:		:24/08/07						
Notice To Proceed (NTP)		:24/08/07						
Financial closure		: 21/01/2009						
Main Plant Order		:BTG order placed on M/s Harbin Power Co. Ltd, China on 24/08/07.						
BTG Make		:Chinese						
BOP Package		: Reputed Indian Vendors						
Type of fuel		:Coal						
PPA		: Long Term PPA with ESIL for 200 MW and 55.5 MW with Govt. of MP (on variable charge basis). For tie up of balance capacity of 855 MW, company is participating in various competitive bids/merchant power.						
Source and supply of Fuel		: Mahan Coal Block allotted jointly to ESSAR and Hindalco had been cancelled on 24/09/14. Essar has signed CMPDA with GOI on 2/3/2015 for Tokisud Coal Mine located in the State of Jharkhand post e-auction. Vesting order is awaited. As per present mining plan, peak capacity of production of the mine is 2.32 MTPA.						
Power Evacuation system		:1 st unit commissioned by LILO (Temp arrangement). Long term open access granted by PGCIL through Mahan-Sipat line.						
		<ul style="list-style-type: none"> • MOEF clearance: 20/04/07 • Water: 0.058 MAF/year from Rihand Reservoir. • SPCB: Obtained on 03/03/09. • Civil Aviation Clearance: Obtained on 02/02/2007. • Land: Physical possession of 185.81 Ha. Govt. Land is available.167.32 Ha. Pvt. Land in Viil. Bandhora, 150.31 in Nagwa Vill. 79.08 Ha in Kharahi. For 4th viilage Karsualal(100.17 Ha.) compensation distribution is in progress. 						
Critical issues		In lieu of cancellation of captive coal block, Coal linkage (5.5 MTPA) or any other coal sourcing is essential to run the plant. Return of expenditure incurred on Mahan Coal Block.						
Reasons for Delay		Delays primarily due to financial constraint with the developer.						

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.	Gorgi TPP (Dist. Singrauli) DB Power (MP) Ltd. (1x660=660MW)	1	660	05/13 06/13	07/13	Uncertain	<p>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.</p> <p>BoPs:</p> <ul style="list-style-type: none"> • 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.						
<ul style="list-style-type: none"> • 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						

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.	BLA Power (Niwari) TPP (Dist. Narsinghpur) BLA Power Ltd. (2x45=90 MW)	2	45			13.03.17(A) 16.03.17(A)	20.03.17(A)	<p>Unit-2 : COD on 20.03.17. Full load on 16.03.17. Unit Synchronized on 13.03.17.</p> <p>Boiler: Boiler erection started on 13.01.2012. Boiler Hydrotest was carried on 17.08.2015 Boiler drum lifted on 11.06.12. Steam blowing started on 15.01.2017 Steam blowing completed on 21.01.2017</p> <p>TG: TG Erection started on 11.12.2015. TG Box up on 26.03.2016.</p> <p>BoPs:</p> <ul style="list-style-type: none"> Chimney- 120-meter-high chimney is common for both units. CHP is common for both units consisting of conveyors, crushers, screen, transfer chute etc. AHP consists of dry ash dense phase conveying system and common bed ash and fly ash silos. CWPH Raw water pumphouse is common for both units and situated at the bank of Narmada River, 13 km away from the plant DM Plant, ETP- Demineralized and effluent treatment plants are common for both units. Storage capacity of DM water is 600 KL (Three DM water storage tank each of capacity 200 KL) Cooling Tower- is common for both units and consists of five (5) cooling tower fans. Two fans are required for each unit and one fan is standby. Switchyard and transmission line are common for both units. Power from both units are transmitted to 132 KV Sub-Station (MPPTCL) by 132 KV DCDS lines FGD – Both Boilers (U1 & U2) are Circulating Fluidised Bed Combustion Boiler having facility for in-situ capture of SOx by direct injection of lime/limestone in furnace which ensures compliance.
Original / Actual Cost			: Rs.27903 Lakhs / Rs.40483 Lakhs					
Expenditure during 2010-11			: Rs. 2598 Lakhs					
Expenditure during 2011-12			: Rs. 10954 Lakhs					
Expenditure during 2012-13			: Rs. 5194 Lakhs					
Expenditure during 2013-14			: Rs. 4468 Lakhs					
Expenditure during 2014-15			: Rs. 4549 Lakhs					
Expenditure during 2015-16			: Rs. 5910 Lakhs					
Expenditure during 2016-17			: Rs. 5688 Lakhs					
Expenditure during 2017-18			: Rs. 1122 Lakhs					
Total Expenditure			: Rs. 40483 Lakhs					
Approval date:			: NA					
Zero date:			: 04/11					
Notice To Proceed (NTP)			: 04/11					
Financial closure			Achieved.					
Main Plant Order			CFBC Boiler (Design by Foster Wheeler, Mfgd by ISGEC) in 02/11.Turbine and Generator (Siemens) in 04/11.					
BTG Make			CFBC Boiler (Design by Foster Wheeler, Mfgd by ISGEC) and Turbine by Siemens, Generator by Toyo Denky Power Systems					
BOP Order			GT by Alstom, SAT by Schneider, Switchgear by ABB, Cooling Tower by Hamon Cottrell, DCS by Valmet (Metso) Automation					
Type of fuel			Coal / Petcoke / Partial by Bio Mass					
PPA			30% with MPPMCL and 5% with MP Government on variable cost.					
Source and supply of Fuel			FSA signed with BLA Industries Pvt. Ltd. on 25/04/11 for 350000 tons per annum for U1 & U2 from coal mine which is affected by Judgment. Fuel from e-auction. Shakti B2R2 LoI issued for PPA backed capacity.					
Power Evacuation system			132 KV DCDS Line from 132 KV Switch yard (BLA Power) to 132 KV Sub-Station (MPPTCL) Gadawara					
<ul style="list-style-type: none"> MOEF Clearance: Obtained on 21/04/2009. Land: 129.15 Acres of land is acquired for 3x45 MW. Water: 2.5 MCM PA water from Narmada river for 2x45 MW. 								
Critical issues								
Reasons for Delay								

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.(Formerly known as Indiabulls Power Ltd.) (5x270=1350 MW)	1	270	05/14 07/14	08/14	@	@	@: Work is on hold (since April,2012)
		2	270	07/14 09/14	10/14	@	@	Unit-1 Boiler
		3	270	09/14 11/14	12/14	@	@	1. Boiler erection started on 24/11/11. 2. Work is on hold.
		4	270	11/14 01/15	02/15	@	@	Unit-2 Boiler
		5	270	03/15	04/15	@	@	1. Boiler erection started in 01/12. 2. Work is on hold
	Original/Latest Cost		: Rs.664600 Lakh/: Rs.664600 Lakh					
	Expenditure during 2011-12		: Rs. 49727 Lakhs					
	Expenditure during 2012-13		: Rs.20866 Lakhs					
	Expenditure during 2013-14		: Rs.3397 Lakhs					
	Expenditure during 2014-15		: 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.						
<ul style="list-style-type: none"> FSA: Letter awaited. All clearances are available. 								
Critical issues								
Reasons for Delay		Due to financial constraints project has been put on hold.						

SL No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch/Comm	COD	Synch/Comm	COD		
Private Sector									
	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: <ul style="list-style-type: none"> 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.							
		<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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								
	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.
		2	270	03/13 06/13	06/13	@	@	Unit-1 Boiler Boiler erection started in 09/11. Work is on hold.
		3	270	05/13 08/13	08/13	@	@	Unit-2 Boiler Boiler erection started in 11/11. Work is on hold.
		4	270	07/13 10/13	10/13	@	@	Unit-3 Boiler Boiler erection started in 11/11. Work is on hold.
		5	270	09/13 12/13	12/13	@	@	Unit-4 Boiler Work is on hold Unit-5 Boiler Work is on hold
	Original /Latest Cost		: Rs.678900 lakhs / Rs.678900 lakhs					
	Expenditure during 03/10		:Rs.36805 Lakhs					
	Expenditure during 2010-11		:Rs. 10000 Lakhs					
	Expenditure during 2011-12		:Rs. 5339 Lakhs					
	Expenditure during 2012-13		:Rs. 9615 Lakhs					
	Expenditure during 2013-14		:Rs. 5022 Lakhs					
	Expenditure during 2014-15		: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.					
	<ul style="list-style-type: none"> 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.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/Comm	COD	Synch/Comm	COD	
Private Sector								
	Lanco Vidarbha TPP (Distt: Wardha)	1	660	03/14 07/14	08/14	*	*	Unit-1 Boiler Boiler erection started on 01/08/11. Main structure erection upto 6 th tier completed in 10/15. All the (5) Ceiling Girder (CG) erection work completed. Pressure parts erection work started in 04/16.
	M/s Lanco Vidarbha Thermal Power Ltd. (2x660=1320 MW)	2	660	07/14 11/14	12/14	*	*	
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.						
<ul style="list-style-type: none"> 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. 								
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.						
* Work on hold due to financial crunch. 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								
	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.	
		2	300	01/17 03/17	03/17	Uncertain		
	Original/ Latest Cost	: Rs.318900 lakhs / Rs.345000 lakhs						
	Expenditure during 03/14	: Rs 37475 lakh						
	Expenditure during 2014-15	: Rs 4752 lakh						
	Expenditure during 2015-16	: 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.						
	<ul style="list-style-type: none"> 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 package wise 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								
	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. Unit-1 & 2: Steam blowing of the units completed. Main plant structural work completed. Project is 96.7% complete. BoPs: Almost all BoPs are completed. <ul style="list-style-type: none"> • 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.
2		150	02/15	04/15	*	*		
Original / Latest Cost		: Rs.241300 lakhs / Rs. 241300 lakhs						
Expenditure during 2011-12		: Rs 3368 lakh						
Expenditure during 2012-13		: Rs 15821 lakh						
Expenditure during 2013-14		: Rs 74610 lakh						
Expenditure during 2014-15		: Rs 72102 lakh						
Expenditure during 2015-16		: Rs 34176 lakh						
Expenditure during 2016-17		: Rs 27686 lakh						
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		<ul style="list-style-type: none"> • Connectivity approval from MSETCL for 220 kV line at Amalner substation 						
		<ul style="list-style-type: none"> • 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. 						
Critical issues		PPA, Coal Linkage						
Reasons for Delay								
		*Work is on hold. Schedule will be decided after restart of work.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Sync Comm	COD	Sync Comm	Trial-run COD	
Private Sector								
	Bhusawal Thermal Power Project, Distt. Jalgaon, Maharashtra (1x660 MW)	6	660	03/22	06/22	03/22	06/22	<p>Unit-6:</p> <p>Boiler: M/s BHEL started excavation of Boiler foundation on 15.05.2019.</p> <p>Boiler: Foundation work completed Column erection started on 22.11.2019. 700 MT erected. Excavation, PCC completed R/f in progress for FD, PA, ID fan TG: Excavation 23963/28672 cum PCC 278/1020 cum RCC 2251/3690 cum Fabrication of 1094 MT completed ESP: Excavation 12778/13609cum PCC 725 RCC 2838/3372 cum R/f 55/299 MT. E,F,D & C Pass pedestal foundation completed.</p> <p>BoPs:</p> <p>AHP: Ash slurry PH excavation 1200 cum completed Chimney: Excavation started on 25.07.2019. Excavation & PCC completed RCC 1658/3300 cum completed. Slip form fabrication works in progress CHP: Wagon Tippler excavation 68795/80000 cum completed. TP - 4,5 excavation, PCC completed R/f in progress NDCT: Excavation 16820 cum completed</p> <p>FGD: Letter issued to BHEL on 20.11.2018 for Technical clearance to proceed further.</p>
	Original / Latest Cost	: Rs.509700 lakhs						
	Expenditure during 2018-19	: Rs lakh						
	Total Expenditure (Upto 12/18)	:Rs lakhs						
	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							
	Type of fuel	Coal						
	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						
	Source and supply of 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 Environment clearanc	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							

AK-31/12/2019

Southern Region Thermal Power Plants

BROAD STATUS OF THERMAL POWER PROJECTS IN ANDHRA PRADESH

Sl. No.	Project Details	Unit No.	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Syn. Comm	COD	Syn. Comm	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)	04/18	<p>Unit Synchronized on 02.07.17. Full Load achieved on 29.03.2018.</p> <ul style="list-style-type: none"> 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.						
<ul style="list-style-type: none"> 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.	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Syn. Comm	COD	Syn. Comm	COD	
State Sector								
2	Sri Damodaram Sanjeevaiah TPP St-II (Krishnapatnam) (APPDCL) Distt.Nellore, Andhra Pradesh	1	800	03/19 04/19	06/19	03/20 05/20	06/20	<ul style="list-style-type: none"> • Boiler: Civil work start on 10.11.2016. Erection started in 26.06.2017. Hydro Test (Drainable) in 01.07.2019. Boiler structure erection 84 % complete. Boiler light up on 31.12.2019. • TG : TG erection start 20.09.2018. HP & IP Turbine boxed up and ESVs and IVCVs erected. LP Turbine -1&2 – Inner casing boxed up. LPT-1 – Outer casing fabrication in progress. Condenser erection works started in 01.8.2018. Only CW Rear interconnection piping between condenser is in progress. Generator and Excitor work in progress. • 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 in progress. • BoPs. • CHP: Structural Steel fabrication 5855/6000 T completed. Structural Steel erection 4280/6000 T completed. Structural steel erection for Conveyors and JNTs in progress. • AHP: Compressors TAC & IAC, after coolers, Intercoolers, Driers & Receivers placed. Clarifier: Erected Sludge pumps near clariflocculator. Silos: Erected Ash Conditioner below FA Silo, Ash mixer, Ash slurry disposal piping, valves u/p (12.5 / 26 Km completed). • NDCT : 100% Racker columns completed. 99% Pond& partition wall completed (561/565RM) & 100% Basin floor completed. PU coating is in progress. • 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. <p>All othe BOP works are in progress.</p> <ul style="list-style-type: none"> • FGD : Order not yet placed.
	Original / Latest Estd. Cost	Rs. 6034 Crs./ 6841.70 Crores (Adminstraive Approval dt 30.08.2019)						
	Expenditure during 2015-16	Rs. 199.20 Crs.						
	Total Expenditure	Rs. 5777 Crs. Including IDC (31.12.2019)						
	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. Available						
	Power Evacuation system	Already in place						
	PPA	Available with 2 DISCOMS of 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							

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Sl. No.	Project Details	Unit No.	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Syn. Comm	COD	Syn. Comm	COD	
State Sector								
3	Dr. Narla Tata Rao TPP Stage-V APGENCO Distt. Vijayawada, Andhra Pradesh	8	800	03/19 06/19	07/19	03/20 06/20	07/20	<p>Boiler erection started on 22.05.2017. Drainable Hydraulic Test completed on 05.03.2019</p> <p>Pass I erection and Pass II erection works under progress. TG deck casting completed. TG and condenser erection started.</p> <p>ESP erection started on 15.03.2017.</p> <p>BOPs.</p> <p>CHP: JT erection works under progress. WAGON TIPLER - Wall raised upto RL 24.30 & Floor slab completed. Walls above FS 109/109m 1st lift completed. Re bar tying & shuttering for wall in progress. pedestal completed.</p> <p>Track Hopper: 1 to 8 walls, MB-2 wall side 10.9/12.4 completed. MBI wall through slip from under progress.</p> <p>AHP: Ash water pump house steel for roof beams is in progress. Ash slurry pump house columns final lift completed.</p> <p>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. Hydrobins 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.</p> <p>ID Fan- Fan A : Alignment of coupled fan shaft with motor is under progress Fan B : lube oil flushing is under progress.</p> <p>Mills- Mill A and Mill -B Mounting of sale plates and grouting work Completed, Mill-B and Mill-C Mounting of Sale plates (elevation and Master level) and grouting work under progress</p> <p>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.</p> <p>Chimney: Chimney works completed for boiler light up. AR brick lining completed cage ladder elevator and Lab in chimney are yet to be completed. 90 % of Chimney works completed.</p> <p>PT Plant /DM Plant: Raw water, PTP & DM water Mechanical erection works are completed. DM plant one stream (stream-A) Commissioned. Stream-B resin filling completed and entire stream is Kept ready for Commissioning, DM water generation started on 12.09.2019</p> <p>CW System: 530/563 mtrs CW pipeline RCC base raft completed ACW pipe line. 328/409 mtrs erection completed in CWPH. Erection of gates and Screens for CW pumps is under progress. 83% of CW and ACW pipe line erection completed</p> <p>Switch Yard: 400 KV extension Switchyard charged on 28.02.2019 and charging of Station Transformer charging completed by 12.06.2019</p>
Original / Latest Cost		Rs. 5515 Crs.						
Total Expenditure incurred till date		Rs. 4935.59Crs (12/2020)						
Approval date:								
Zero date:		15/12/2015						
Financial closure		Completed						
Main Plant Order		BTG order placed on BHEL on 28.10.15.						
BOP Package		Tendering for BOP packages completed and order placed on M/s. BGR energy Systems Ltd on 06/07/2016. (36 months for completion of BoP)						
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								

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Sl. No.	Project Details	Unit No.	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Syn. Comm	COD	Syn. Comm	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) 6/19 10/19	09/19 10/19	<p>Unit-3: . Synchronized - 10.2.18. Full load - 15.4.18.</p> <p>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 achieved on 15.4.18.</p> <p>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</p> <p>Unit-4:</p> <p>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.</p> <p>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.</p> <p>Chimney: Ready for service.</p> <p>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.</p> <p>AHP: Awarded to EDAC Engineering Ltd., Chennai on 18/06/10. Unit#3 completed • Unit#4 Completed.</p> <p>IDCT: Awarded to EDAC Engineering Ltd., Chennai on 18/06/10. CT#3 Completed • CT#4 completed.</p> <p>PTP: PT plant erection completed and commissioned.</p> <p>DM Plant: DM plant in operation mode.</p> <p>CW System: Unit#3 CW and ACW commissioning completed. • Unit#4 CW and ACW commissioning completed.</p> <p>FO System: LDO system completed and oil stored in tanks.</p> <p>SW Yard: Switchyard charging completed on 31.05.17. Switchyard Automation System (SAS) panels, Control Relay Panel (CRP) panel charging completed.</p>
Original /Latest Est. Cost		:Rs 312000 Lakhs (600 MW) / 500500 Lakhs (700 MW)						
Expenditure during 2008-09		:Rs -NIL-						
Expenditure during 2009-10		:Rs 1157.00 Lakhs						
Expenditure during 2010-11		:Rs 42362.00 Lakhs						
Expenditure during 2011-12		:Rs 53379.46 Lakhs						
Expenditure during 2012-13		:Rs 21802.67 Lakhs						
Expenditure during 2013-14		:Rs 47833.82 Lakhs						
Expenditure during 2014-15		:Rs 81656.43 Lakhs						
Expenditure during 2015-16		:Rs. 98832.77 Lakhs						
Expenditure during 2016-17		:Rs. 86250.65 Lakhs						
Expenditure during 2017-18		:Rs. 74715.67 Lakhs						
Expenditure during 2018-19		: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 2 nd January 2012.						
<ul style="list-style-type: none"> 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 and for 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.						

PROJECT UNDER NCLT

Sl. No.	Project Details	Unit No.	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Syn. Comm	COD	Syn. Comm	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		
	Original /Latest Est. Cost	:Rs 657194.00 lakh (Equity:debt::25:75) / 934315.00 lakh (09/07/14)						
	Expenditure during 2007-08	:Rs 1674.00 lakh						
	Expenditure during 2008-09	:Rs 7018.00 lakh						
	Expenditure during 2009-10	:Rs 27800.00 lakh						
	Expenditure during 2010-11	:Rs 72100.00 lakh						
	Expenditure during 2011-12	:Rs 22900.00 lakh						
	Expenditure during 2012-13	:Rs 29208.00 lakh						
	Expenditure during 2013-14	:Rs 76300.00 lakh						
	Expenditure during 2014-15	:Rs 82210.00 lakh						
	Expenditure during 2015-16	:Rs. 53006.00 lakh						
	Total Expenditure (till 01/16)	:Rs 3785.60 Crores						
	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							
		<ul style="list-style-type: none"> 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 Ir. 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.							
		<p>Unit-1</p> <ul style="list-style-type: none"> 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 <p>Unit-2</p> <ul style="list-style-type: none"> 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. <p>BoP's</p> <ul style="list-style-type: none"> 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. <p>Switchyard: Engineering is in progress. ATS: Award of contract to be done by ECEPL.</p> <p>• Presently work held up at site due to financial issues.</p> <p>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.</p>						

BROAD STATUS OF THERMAL POWER PROJECTS IN TELANGANA

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	Kothagudem TPS –VII (TSGENCO) Distt. Kammam, Telagana	12	800	09/17 11/17	12/17	30.06.18 05.10.18 (A)	26.12.18 (A)	<p>Unit Synchronised on 30.06.18. Full load achieved on 05.10.18. COD on 26/12/18.</p> <ul style="list-style-type: none"> • Boiler: Civil work started on 12/06/15 and erection commenced on 24/01/2016 and is in progress 98.4% completed. HT (Drainable) completed on 22.09.17. BLU completed on 31.01.18. TG Deck: TG civil work started in 23/08/15. TG erection started on 28.02.17. TG Boxed up in 06/18. <p>BOPs</p> <ul style="list-style-type: none"> • CHP: Civil work awarded to M/s. SNC on 12/02/16. 94% completed. Wagon tippler side arm charger works completed. Stacker cum reclaiming awarded to M/s TRF on 12/08/15 commissioning of SCR-I completed. Conveyor system awarded to M/s. BEVCON on 22/08/15: Material received and erection work under progress. Crusher, vibrating screens/peddle feeder awarded to M/s Elecon on 23.02.16- Material received Erection works in progress. • AHP: Civil work Awarded M/s SNC on 12.02.16. 93% completed. Supply & Erection work awarded to M/s OSM : 95% material supplied. • Cooling Tower: Awarded to M/s. Paharpur cooling towers ltd. on 04/03/16, work started on 12/07/16 and 99.8% completed. • Chimney: Awarded to M/s. BIL on 16/05/15.Chimney is completed. • PT Plant: Civil work Awarded to M/s. Punj Lloyd Ltd (PLL) and 95% completed. Supply & erection awarded to M/s Clear water: 98% material supplied & 80% work completed. • DM Plant: 98.5% completed. • CW System: 98% civil works completed. • Fuel Oil Handling System: 97% civil works completed. <p>FGD: LOI issued to M/s BHEL for providing wet lime based FGD with completion period of 30 months. Works yet to start.</p>
Original Estd. Cost/Latest Cost		: Rs. 554844 lakhs / Rs. 554844 lakhs						
Expenditure during 2014-15		: Rs. 199.60 lakhs						
Expenditure during 2015-16		: Rs. 54654.50 lakhs						
Expenditure during 2016-17		: Rs. 170310.10 lakhs						
Expenditure during 2017-18		: Rs. 107615.42 lakhs						
Expenditure during 2018-19		: Rs. 130783.19 lakhs (12/18)						
Total Expenditure(Up to 12/18)		: Rs. 466995.13 lakhs						
Approval date:								
Zero date:		01/01/2015						
Financial closure		Tied up with REC on 17/01/2014						
Main Plant Order		(BTG on M/s BHEL)- LOI issued on 27/12/14.						
BOP Package								
Type of fuel		Coal, FSA: M/s Singareni Collieries Co. Ltd, Kothagudem.						
PPA		PPA signed on 22/01/2013 and power evacuation system 400 Kv by TSTRANSCO.						
Power Evacuation system		400kV by TSTRANSCO						
<ul style="list-style-type: none"> • LOI was issued to BHEL on 27/12/2014 (i.e Main plant equipment Boiler, Turbine & Generator-BTG) • MOEF clearance obtained on 16/07/15. • SPCB clearance obtained on 12.11.15 • SPCB: Applied for consent for establishment and approval awaited. • REC has sanctioned a loan vide letter dated 17/01/14. • Water allocation available vide G.O.MS No.47, dated 24/12/14. • AAI clearance obtained vide letter no. AAI/SR/NOC/RHQ dt.15/10/12. 								
Critical issues								
Reasons for Delay								

Sl. No.	Project Details	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A)/ As Expected		
			Syn. Comm	COD	Syn. Comm	COD	
State Sector							
2	Bhadradi TPP (TSGENCO) Distt. Khammam, Telangana	1080					<p>Unit 1: Synchronisation 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</p> <p>Unit 2: 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</p> <p>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.</p> <p>Unit 4: Boiler: Boiler erection started on 08.03.18. Boiler drum lifted on 21.08.18. TG: TG civil work started on 04.12.15. TG erection started on 17.12.19. Condenser erection started on 24.12.19.</p> <p>BoPs:</p> <ul style="list-style-type: none"> • CHP: conveyer package- 37% , completed. Stacker Reclaimer- 24 % completed. Wagon Tripler civil work in progress. • AHP: 26 % completed. • Cooling Tower: 92% completed. • Chimney: 82% completed. • DM Plant – 80% completed • PT Plant – 85 % completed. • CW treatment plant: Works not started. • Switchyard – 86 % completed. <p>FGD: Agency not finalized yet.</p>
	U-1	270	02/17 03/17	03/17	19.09.19(A) 01/20	01/20	
	U-2	270	04/17 05/17	05/17	12/19 02/20	03/20	
	U-3	270	06/17 07/17	07/17	06/20 06/20	06/20	
	U-4	270	08/17 09/17	09/17	12/20 12/20	12/20	
	Original Estd. Cost /Latest Cost	Rs. 7290.60 Crs./ Rs.8536.98 Crs (including FGD system)					
	Expenditure during 2015-16	Rs. 1000 Crs.					
	Expenditure during 2016-17	Rs.					
	Expenditure during 2017-18	Rs.					
	Expenditure during 2018-19	Rs.					
	Total Expenditure	Rs. 6115.49 Crs. (Current year-up to 7.1.2020)					
	Approval date:						
	Zero date:	: 21.03.2015					
	Financial closure	Power Finance Corporation Ltd sanctioned loan for an amount of Rs.5832.34 Cr. vide Letter dated- 03.06.2015					
	Main Plant Order	EPC order placed on BHEL on 21.03.15.					
	BOP Package						
	Type of fuel	MoC sanctioned 4.2 MTPA on 15.02.2018 Lt No 23014/1/2018-CLD.					
	PPA	TS Discoms on 07.09.2019.					
	Power Evacuation system	Commissioned in February 2019.					
	<ol style="list-style-type: none"> 1. State Government Permission: As directed by Govt. of Telangana State vide letter from Chief Minister Office, i.e. Lr No. 177/PriSCM/2014, Dt-1.12.2014 2. Water Allocation: State Govt. has allotted for drawl of 1.4 TMC of water per year@ 45 cusec from Godavari river vide G.O.Ms.No. 03, dt-07.01.2015 3. Civil Aviation Clearance for Chimney: NOC issued by AAI vide Ref.No. AAI/SR/NOC/RHQ dt:11.12.2015 4. Environmental Clearance from MoE&F& CC, Gol.: EC obtained on Dt: 15.03.2017. 5. State PCB Pollution Clearance for water & Air (Consent for Establishment): Obtained on 30.03.2017. 6. Land Possession : 1179.394 Acres 						
Critical issues	Readiness of DM plant is subjected to availability of Raw water at Reservoir. Rediness of FO System subjected to availability of fuel, oil.						
Reasons for Delay	Work held up due to order from National Green Tribunal (NGT) and non-availability of MoE&F clearance.						

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Sl. No.	Project Details	Capa-city (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A)/ As Expected		
			Syn. Comm	COD	Syn. Comm	COD	
State Sector							
3	Yadadri TPP (TSGENCO) Distt. Nalgonda, Telangana	4000					<p>Civil Works in progress. U #1 & 2 Boiler erection expected to start by 12/19& Jan 20</p> <p>Engineering activites are under progress .Inhousing material and sub contracting in progress.</p> <p>FGD: Included in the revised LOA placed on M/s. BHEL. Scheduled completion of Unit with the new norms is as follows: U-1 & 2 – 08./20</p> <p>U-3,4 – 04/21 and U-5 – 08/21</p> <p>Main plant Package All Unit Power house Structural fabrication works are in Progress</p> <p>ESP / Boiler foundation are in progress</p>
	U-1	800	07/20 09/20	10/20	07/20 09/20	10/20	
	U-2	800	07/20 09/20	10/20	07/20 09/20	10/20	
	U-3	800	03/21 05/21	6/21	03/21 05/21	6/21	
	U-4	800	03/21 05/21	6/21	03/21 05/21	6/21	
	U-5	800	07/21 09/21	10/21	07/21 09/21	10/21	
	Original Estd. Cost /Latest Cost	Rs. 29965.48 Crs.					
	Expenditure during 2015-16	Rs. 486 Crs					
	Expenditure during 2016-17	Rs.					
	Expenditure during 2017-18	Rs.					
	Total Expenditure	Rs. 5861.88 Crs. (11/19)					
	Approval date:						
	Zero date:	17.10.2017					
	Financial closure	M/s. REC (Rs.16070.5 Cr vide letter dated 11.8.15) and M/s PFC (Rs.4009 Cr vide letter dated 19.7.15)					
	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 Civilworks					
	Type of fuel	Coal. MOU with M/s SCCL for supply of 14 million MTPA of G9 grade domestic coal.					
	PPA	Govt of Telangana issued Permission to avial 4000 MW power though TSDISCOMs vide its 21.08.2017. PPA is yet to be entered.					
	Power Evacuation system	400 KV Jangaon, Maheshwram, Choutupppal and Dindi					
	<ol style="list-style-type: none"> 1. Water Allocation: State Govt. has allotted for drawl of 208 CUSECS (6.60) TMC of water per year from Krishna river vide G.O.Ms.No. 13, dt-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 yet to be entered. 3. Forest Clearance: Stage II clearance was accorded by Central Govt. MOEF &CC for diversion of forest land of 1892.35 Ha vide Lr. No. F.No. 8.07/2015-FC dtd 7.7.15. Subsequent Govt order was issued by Govt. of Telanagan vide G.O.Ms. No.38, dtd 30.7.15 4. Environmental Clearance from MoE&F& CC: TOR granted vide Lr. No. J-L13012/18/2015-IA.I(T) GolMOEF &CC Dt: 16.02.2016. 5. Land possession : 5459.39 Gts 6. Coal Linkage/ Fuel SCCL/ 14MMTPA OF G9 grade coal 7. Power Evacuation : 400KV Janagaon, Maheswaram, Choutuppal and Dindi 						
	Critical issues						
	Reasons for Delay	Work held up due to order from National Green Tribunal (NGT) and non-availability of MoE&F clearance					

SB-DEc2019

BROAD STATUS OF THERMAL POWER PROJECTS IN KARNATAKA

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Syn. Comm	COD	Syn. Comm	COD	
State Sector								
1.	Yelahanka Combined Cycle Power plant. Karnataka	1	370 GT ST	10/17 02/18	03/18	13/20 03/20	<ul style="list-style-type: none"> • Main Plant: GT erection started on 3.04.2017. GT and Generator erected, GTG Aux. erection is in progress (92%). GT Aux. erection is in progress (70%). STG HIP module, Generator erected. LP turbine erection under progress. ST Aux. erection is in progress 60%). HRSG: Leak test completed, box up completed and insulation work in progress (87%). • STG building structural erection 94% completed. GTG building completed. BFP/GBC – EOT Crane girder and EOT erection works completed. • BOPs: • Chimney: 23/23 Chimney shells erected up to 58.5-meter height (Full Height) completed (96%). • CT: Civil work is in progress. 95% completed. Shell internals erection is in progress (85%) • CW system: CWP cold and hot tunnel hydraulic test completed, colling tower, forebay inlet screen erected. • PTP: Civil works in progress. • DM Plant: Commissioning of Equipments is in progress. • Switch Yard: 220 Kv switchyard GTG Transformer and UAT through Line-I & LT /HT switch Yard Charginged. • FPS: MVWS, HVWS piping erection, testing (85%) completed. Balance work under progress. • Air Conditioning & Ventilation: Erection of Chiller units, condenser pumps, chilled water pumps ,piping and fans is in progress (70%) Hydraulic • Control & Instrumentation: Control panel erected and cable laying work in progress (90%) • LT Switch gears: panel erection work completed and cable laying work in progress (90%) • Cables(Power/Control): Cable tray erection works is in progress.Ballance work is in progress (90%) • Generator Transformers: GT/ST transformer testing completed . • Unit Transformers: UATs erected and testing of UAT-I completed. Testing of UAT-2 is in progress (85%) 	
Original Cost / Latest Cost		:Rs	1571.18 Crs / Rs. 1571.18 Crs					
Exp. during 2016-17		: Rs	215.668 Crs					
Exp. during 2017-18		: Rs	932.1737 Crs					
Exp. during 2018-19		: Rs	114.38 Crs (2/19)					
Total Expenditure		: Rs	1575.9895 Crs (up to 12/19)					
Approval date:								
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						
<ul style="list-style-type: none"> • 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 Transport & Supply agreement on 24.06.2017. M/s. GAIL have early Supply line and ready for Suppling 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		----						
Reasons for Delay		Delay in Civil Works						

SB-21.1.2020

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	COD	
State Sector								
1	Ennore SEZ SCTPP TANGEDCO (Distt. Thiruvallur) Tamil Nadu	1	660	07/19 07/20	03/21	06/21 07/21	08/21	<p>Unit-I Boiler: Boiler civil works start on 27.03.2017 and erection started on 15.09.17. HT expected by 15 Jan/20. Pressure part & APH erection in progress. 23423 / 29640 MT erected. Drainable hydro test Completed. TG Civil works started in 17.05.2017. raft casted ESP 1: All inlet funnel erection completed. Pass A air leak test completed. Outer roof & pent house erection under progress 7243 / 9400 erected. Bottom hopper work & top inner roof work under progress.</p> <p>Unit-II Boiler: Boiler erection started on 08.06.18. HT expected by 01/20. 15639 / 29640 MT erected. TG Civil works started in 17.05.2017. Raft & Column: 28/28 TG lifts completed, presently Bottom reinforcement and insert fixing under progress. ESP 2: Cooleting electrode loading under progress in Pass-B. 5847 / 9400 MT erected</p> <p>BOP: Chimney: Shell completed (270m). Platform girder erection under progress. 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. Clarified Water Tank: Wall three sides completed. TANGEDCO not permitting fourth side casting with the supplied puddle flange. Work on hold since Feb-19. Cooling : NDCT-1: All 24 segments casting completed on 31st July'19. 6/48 pedestal completed; Basin slab works. NDCT -2: Ring raft Ist segment concreting commenced on 16th July'19, 9/24 raft casted shortly after mobilization by vendor Switchyard GIS building, Control Room building and 400 KV Towers pile and pile cap works completed. Further civil works in progress.</p>
Original Cost/ Latest Cost		: Rs. 9800 Crores (Includes cost of FGD, ECHS and IDC)						
Total Expenditure (up to 12/19)		: Rs 3960.728 Cr.						
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. Amended order for Rs 126 Crores For Supply and erection works of environment norms and hence total EPC cost now revised from Rs. 7688 Crores to Rs. 7814 Crores.						
BOP Package								
Type of fuel Coal Linkage /FSA		: Long term Coal Linkage application submitted on 26.02.2010 to Ministry of Coal/GoI/New Delhi for supply domestic coal. Coal allocation is yet to be received. However, MoU has already been signed between MMTC & TANGEDCO on 25.06.2012 for the supply of 100% imported coal. During the standing linkage committee (SLC) meeting held on 24.6.2019 it has been decided that the discussion on Bridge linkage will be taken up in the next SLC meeting.						
PPA		Schedule dates Actual/ Anticipated 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. Of 400 KV line to 765 KV Pooling Station and 2 Nos. 400 KV lines to ETPS Expansion STPP.						
<ul style="list-style-type: none"> Land: Aquisition 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 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 Water : 4 MGD water from CMWSSB. Fuel / Coal : SLC on 24.06.2019 it was decided that the Bridge Linkage will be taken in next meeting. Due to Court case/ High Court order work held up at site from 10/15 onwards. M/s TANGEDCO filed Special Leave Petition (SLP) in the Supreme Court of India, hearing/arguments completed on 08/02/16. However, judgment in favour of TANGEDCO came on 18/10/16 only and work at site commenced with effect from 02/11/16. 								
Critical issues								
Reasons for Delay		<ul style="list-style-type: none"> Due to Litigation Work temporarily suspended on 07.09.2015 and hence delay in execution of work and work resumed on 19.10.2016 by BHEL at site after receipt of judgement from Supreme Court /New Delhi in favour of TANGEDCO. 408 days and 185 days (on account of delay in handling over of land and remobilization) 						

SB-17.01.2020

Sl. No.	Project Details	Unit No.	Capacity (MW)	Commissioning Schedule				Broad Status															
				Original		Actual(A)/ As Expected																	
				Syn. Comm	COD	Syn. Comm	COD																
State Sector																							
2	Uppur SCTPP TANGEDCO at Distt. Ramnad, Tamil Nadu	1	800	02/19	04/19	02/20	09/20	<p>BOILER : Unit-I Structural fabrication in progress - 4296 tonnes. Unit-II Structural fabrication in progress – 1800 tonnes.</p> <p>ESP : Erection of columns in ESP in progress. BTG : TG Materials – 112734 tonnes ; Structural and reinforcement materials – 32553 tonnes received at site.</p> <table border="1"> <thead> <tr> <th>Sl. No</th> <th>Location</th> <th>Total No of piles</th> <th>No. of piles completed as on 30.9.2019</th> <th>Balance to be completed</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Unit-I</td> <td>3123</td> <td>3066</td> <td>57</td> </tr> <tr> <td>2.</td> <td>Unit-II</td> <td>3180</td> <td>3113</td> <td>67</td> </tr> </tbody> </table> <p>Balance of Plant by M/s Reliance Infrastructure Ltd.,</p> <ul style="list-style-type: none"> 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. Land Litigation - Judgement delivered by Honourable High Court, Chennai on 03.07.2019 not favourable to TANGEDCO. Appeal being made by GOTN, Listed on 14.01.2020. <p>Sea water Intake & Outfall system by M/s. L & T</p> <ul style="list-style-type: none"> Laying of MS pipes in progress. Gantry rail fixing works under progress for extension of 10 Tons capacity EOT crane to enhance productivity. 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 recommenced in offshore area on 28-08-2019 and is in progress. District Collector has given clearance to commence the earth filling for earth bund in offshore area from 30.08.19 onwards. But, due to High Court stay filling and earth bund formation works could not be taken up. Laying of MS pipes in progress. Gantry rail fixing works under progress for extension of 10 Tons capacity EOT crane to enhance productivity. 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 recommenced in offshore area on 28-08-2019 and is in progress. District Collector has given clearance to commence the earth filling for earth bund in offshore area from 30.08.19 onwards. But, due to High Court stay filling and earth bund formation works could not be taken up. 	Sl. No	Location	Total No of piles	No. of piles completed as on 30.9.2019	Balance to be completed	1.	Unit-I	3123	3066	57	2.	Unit-II	3180	3113	67
Sl. No	Location	Total No of piles	No. of piles completed as on 30.9.2019	Balance to be completed																			
1.	Unit-I	3123	3066	57																			
2.	Unit-II	3180	3113	67																			
Original Cost /Latest Cost		: Rs. 12778 Crores. (BTG cost –Rs. 5580 Crores.)																					
Expenditure during 2016-17		:Rs. 16.74 Crores																					
Expenditure during 2017-18		:Rs. 226.62 Crores																					
Expenditure during 2018-19		:Rs. 1594.15 Crores																					
Expenditure during 2019-20		: Rs 755.81 Crores																					
Total Expenditure (up to 10/19)		:Rs. 2592.69 Crors (up to 12/19)																					
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.																					
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																					
<ul style="list-style-type: none"> 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 pending for enter upon due to litigation is around 354 acres. 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																							

- SB-21.01.2020

Sl. No.	Project Details	Unit No.	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Syn. Comm	COD	Syn. Comm	Trial Run COD	
State Sector								
3	North Chennai TPP St-III by TANGEDCO (Distt. Thiruvallur), Tamil Nadu	1	800	02/19 03/19	07/19	03/20 05/20	06/20	<ul style="list-style-type: none"> Boiler: Civil works start on 09.02.2017 and Erection works started on 30.08.2017. Pressure part erection started on 26.10.2018 and so far 10176 MT (89.85%) erected. Pressure parts joints welding works 40530 Nos. (77.06%) completed. Drainable Boiler Hydro test was carried out on 31.12.2019. Balance pressure parts erection is in progress. TG: TG civil work start on 24.04.2017 and erection start on 25.02.2019 Condensor erection start 14.11.2018. Erection is in progress LP heater erected. Completed. TURBINE: HP turbine erected, ESV 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 erection is in progress. TD BFP 1 -Sole plate and anchore plate matching under progress. Pipe erection are in progress. ESP: Civil works completed in ESP area and ESP grade slab completed in all passes except spare. Almost all six passes completed. Finishing works is in progress. Balance internal erection and Monorail works are in progress.
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. 1707.88 Crores (12/19)						
Total Expenditure (up to 11/19)		: Rs 5080.24 Crores						
Zero date:		: 29/01/2016 (BTG Package) , 28.10.2016 BOP						
Main Plant Order		: 29/01/16 (EPC) on M/s. BHEL- 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		: 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 will be established by TANTRANSCO						
<ul style="list-style-type: none"> 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 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. MMTTC for supply of imported Coal of 2.51 MTPA on 25.05.2015. MoP has recomanded to ministry of coal for long term coal linkage for 1.971 MT Indiginious Coal with 3800 GCV and 85% PLF as no coal block allotted for this project. 								
Critical issues								
Reasons for Delay		M/s Bridge and Roof (for Boiler and Bunker erection) – Structural works kept on hold due to internal issue from 18.02.2019 and the work recommended on 22.04.2019 (two months).						

SB-21.1.2020

Sl. No.	Project Details	Unit No.	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Syn. Comm	COD	Syn. Comm	COD	
State Sector								
4	Ennore SCTPP TANGEDCO (Distt. Thiruvallur), Tamil Nadu	1	660	10/17 01/18	01/18	05/23 06/23	-	<ul style="list-style-type: none"> • 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. • FO System: Award to M/s General Mechanical Works Pvt. Ltd – Vadodara on 12/10/15. • 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		:Rs. 23970 Crores						
Expenditure during 2015-16		:Rs. 2.8891 Crores						
Expenditure during 2016-17		:Rs. 86.5609 Crores						
Expenditure during 2017-18		:Rs.462.250 Crores						
Total Expenditure (up to 12/2017)		:Rs. 791.40 Crores Lakh						
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.						
<ul style="list-style-type: none"> • Letter of Acceptance for Main Plant Order (EPC) issued to M/s LANCO on 05/14 (27/02/14 as per Ir 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. <p><i>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.</i></p>								
Critical issues		<i>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.</i>						
Reasons for Delay								

SB-

Sl. No.	Project Details	Unit No.	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Syn. Comm	COD	Syn. Comm	COD	
Private Sector								
5	Tuticorin TPP St-IV / M/s SEPC Power Pvt. Ltd. (Distt. Tuticorin), in Tamil Nadu	1	525	07/18 09/18	10/18	06/20 07/20	10/20	<ul style="list-style-type: none"> Boiler: EPC contractor is M/s MEIL, in turn they awarded the BTG package to M/s BHEL on 30/10/15 and main plant civil work to M/s L&T Geo Structures Ltd. 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 28.12.2019. Boiler light up may be May 2020. TG civil work started on 01/06/16. TG erection started on 8.9.17. TG Boxup expected Dec 2019.
Original /Latest Cost		: Rs. 3514.00 /Rs. 3514.00 Crores						
Expenditure up to 2015-16		:: Rs. 480.79 Crores						
Expenditure during 2016-17		: Rs. 248.70 Crores						
Expenditure during 2017-18		: Rs. 822.94 Crores						
Expenditure during 2018-19		: Rs. 508.91 Crores						
Expenditure during 2019-20		: Rs. 518.84 Crores (upto 31.12.2019)						
Total Expenditure (up to 11/ 2019)		:Rs. 2580.18 Crores						
Zero date		: 30/10/2015						
Main Plant Order		: 18/01/2014 (EPC) on M/s MEIL & in turn BHEL for BTG.						
Type of fuel		: COAL Imported coal to be tied up in 6 months.						
PPA		: PPA signed with TANGEDCO and approved by TNERC						
Power Evacuation system		<ul style="list-style-type: none"> For power evacuation 2x400 Kv line has been approved by TANGEDCO and is to be implemented by TANGEDCO/ TANTRANSCO. 						
<ul style="list-style-type: none"> Main Plant Package 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. CPCB & MOE&F Clearances obtained and valid up to 10/11/18 and 03/11/17 respectively. MOE & F clearance extended up to 3.11.2020 Civil Aviation: Clearances obtained and valid up to 17.12.2021 Land Possession: Land Lease Agreement & Concession Agreement signed with VOC port Trust. Water Allocation: Sea Water Desalination Plant is envisaged for meeting water requirement of the power plant. Permission to draw Sea Water from Sheltered Basin obtained from Port. 		<ul style="list-style-type: none"> CHP: Awarded to M/s Lepton for Engineering consultant & Monitoring agency for ICHS. Civil foundation work is nearing completion. Mechanical structural fabrication & erection under progress. Mechanical erection is under progress. AHP: Awarded to M/s Macwalber Beckay Civil foundation work is in progress. Mechanical structural fabrication erection under progress. Cooling Tower: M/s MEIL awarded the IDCT works to M/s Paharpur, civil works are nearing completion. Chimney: M/s MEIL awarded the chimney works to M/s Paharpur. Foundation works completed. Shell concreting completed up to 275 mtrs. Inside brick wall work under progress. PT Plant: Civil works completed, Equipments erection under progress. DM Plant: Civil works are nearing completion. Equipments erection under progress. Fire Protection System: Work under progress. Fuel Oil System : Civil works underway. CW System: CW packages awarded to M/s Flowserve. Civil works are nearing completion. Switchyard: Civil work are nearing completion. LT / HT / Cables (Power) / Control : Civil works of LT / HT are nearing completion. Ordering under progress. 						
Critical issues		<ol style="list-style-type: none"> Inter-connection & Transmission facilities are by TANGEDCO which is yet to be awarded. The COD is linked to the availability of Start up Power. Approval/NOC from Department of Forests, GoTN for pipeline and conveyor crossing. Fixation of revised date of availability of start up Power and accordingly the SCOD at TNERC. Approval of Coal Supply, Transport and Handling Agreements by TANGEDCO and TNERC. 						
Reasons for Delay		Requirement of startup power was delay from 30.04.2018 to 09.04.2020 (Expected)						

SB-03.02.2020

Sl. No.	Project Details	Unit No.	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Syn. Comm	COD	Syn. Comm	COD	
Private Sector								
6	Tuticorin TPP in Tamil Nadu (Ind. Barath Power Limited)	1	660	03/12 05/12	05/12	-	-	<ul style="list-style-type: none"> • 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. <p>BOPs</p> <ul style="list-style-type: none"> • Chimney: Awarded to simplex 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		: Rs. 17000 Lakh						
Expenditure during 2011-12		: Rs 2000 Lakh						
Expenditure during 2012-13		: Rs 31000 Lakh						
Expenditure during 2013-14		: Rs. 9000 Lakh						
Expenditure during 2014-15		: Rs. 91000 Lakh						
Expenditure during 2015-16		: 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.						
<ul style="list-style-type: none"> • 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								

Sl.	Project Details	Unit No.	Cap-acity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Syn. Comm	COD	Syn. Comm	COD	
State Sector								
7	Udangudi STPP TANGEDCO (Distt. Thoothukudi) Tamil Nadu	1	660	12/20 02/21	03/21	12/20 02/21	03/21	<p>Preliminary works Engineering activities, Geo Technical works, Approach road works, Topographical survey , Jungle clearances and Temporary weigh Bridge Construction are completed.</p> <p>*Site levelling and Grading work under progress.</p> <p>*Boiler foundation earthwork excavation started and base concreting under progress.</p> <p>*Chimney earthwork excavation under progress.</p> <p>Captive Coal Jetty for Udangudi Power Project</p> <p>*Topographical Survey, Land investigation, Bathymetry Survey, Marine investigation and Construction enabling activities completed.</p> <p>*Approach Pile and Pile cap construction activities are under progress in the off shore for about 1 Km from shore are completed.</p> <p>*Approach Pile and Pile cap construction activities are started in the off shore from 4 Km from shore as a next reach.</p> <p>*Casting of PSC Girders and Accropode Pre casting are under progress.</p> <p>*Pre casting of deck slab are under progress.</p> <p>*Brake water construction and Construction of compound wall work under progress</p> <p>Unit-2 has a phase difference of 2 months</p> <p>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.</p> <p>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.</p>
	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			Upto 31.03.2014 by UPCL : 102.84 Crores				
	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			: 439.4635 Crores				
	Total Expenditure (up to 10/19)			: 881.82712 Crores				
	Approval date:			:				
	Zero date:			: 07.12.2017				
	Financial closure			. Financial tie up with REC				
	Main Plant Order & BOP			: EPC Contract was awarded to M/s. BHEL of Rs. 7359.00 Crores on 07.12.2017.				
	Captive Coal Jetty			EPC Contract was awarded to M/s ITD Cementation India Ltd for Coal Jetty to the Power Project for an amount of Rs. 1902.87 Crores (Post GST)				
	Type of fuel			: COAL. MMTC clearance obtained on 19.11.2012 (Import coal)				
	PPA			N.A. State sector project. Entire power will be utilised by Tamil nadu				
	Power Evacuation system			400 KV				
				<ul style="list-style-type: none"> 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 inpossession 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 the above project on 14.10.13 and valid up to 13.10.2020. CRZ clearance awarded for coal jetty on 06.06.2011 and valid up to 05.06.2021. SPCB Clearance: TNPCB has given the consent for extension up to 31.03.2020. Civil Aviation Clearance: Obtained on 19.07.2016 valid till 18.07.2023. Water: Intake of 21000 m³/hr and outfall discharge of 13500 m³/hr as perCRZ clearance dt.6.6.2011 				
	Critical issues							
	Reasons for Delay							

SB-21.01.2020

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	<p>Unit-8 :Commissioned on 11.01.2018. Synchronisation on 14.11.2018.</p> <p>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</p> <p>ESP: Mechanical erection completed and one stream is ready for use. Another stream of ESP is in progress. Insulation & cladding is under progress</p> <p>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.</p> <p>Unit-9: Synchronisation & Commissioned on 31.03.2019.</p> <p>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,</p> <p>ESP: Mechanical erection completed. Other works are in progress.</p> <p>TG: Condenser & TG erection started on 26/08/14. TG Boxup completed 30.06.2016.</p> <p>BoPs:</p> <ul style="list-style-type: none"> 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.Revised 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
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 <ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> LILO at Barauni of Begusarai-Biharsarif 220KV D/C done. Power evacuation system expected to be ready by Dec-2015. 						
<ul style="list-style-type: none"> 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 on 03-08-09. 								
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	Not Avialable						
	Expenditure during 2014-15	Not Avialable						
	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							
	<ul style="list-style-type: none"> • 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							

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 UshaTPP M/s Corporate Power Ltd. Distt. Latehar Jharkhand (4 x 270 = 1080 MW)	U-1 U-2 U-3 U-4	270 270 270 270	<u>03/12</u> 04/12 <u>04/12</u> 05/12 <u>09/12</u> 10/12 <u>12/12</u> 01/13	05/12 06/12 10/12 01/13	Uncertain Uncertain Uncertain Uncertain		<p>Phase-I</p> <p>Unit-1:</p> <ul style="list-style-type: none"> • 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 boxed up in 10/12. <p>Unit-2:</p> <ul style="list-style-type: none"> • 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. <p>Phase-II</p> <p>Unit-3:</p> <ul style="list-style-type: none"> • Boiler: Erection started on 06/11. Boiler drum lifted on 12/11 • ESP TG: TG erection started in 10/12. <p>Unit-4:</p> <ul style="list-style-type: none"> • Boiler: Erection started on 07/11. Boiler drum lifted on 04/12 • ESP: • TG: TG deck is ready. <p>BoPs:</p> <ul style="list-style-type: none"> • 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 balance work 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.
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 <ul style="list-style-type: none"> • 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.						

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	Uncertain	<p>Phase-I</p> <p>Unit-1:</p> <ul style="list-style-type: none"> 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. <p>Unit-2</p> <ul style="list-style-type: none"> Boiler: Erection started in 15/12/13 ESP: Foundation work completed. TG: TG civil work started on 15/12/13. <p>Phase-II</p> <p>Unit-3 –Work not yet started.</p> <p>BoPs:</p> <ul style="list-style-type: none"> 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 <p>Presently no work is in progress due to financial constraints</p>	
Original /Latest Cost		: Rs.570000 Lakh	Rs. 250000 Lakh					
Expenditure during 2009-10		: Rs. 10641 Lakh	Rs. Nil					
Expenditure during 2010-11		: Rs. 42437 Lakh	Rs. 2825 Lakh					
Expenditure during 2011-12		: Rs.162489 Lakh	Rs. 13845 Lakh					
Expenditure during 2012-13		: Rs. 32446 Lakh	Rs. 3172 Lakh					
Expenditure during 2013-14		: Rs. 96502 Lakh	Rs. 4760 Lakh					
Expenditure during 2014-15		: Rs. 37649 Lakh	Rs. 63 Lakh					
Expenditure during 2015-16		Rs. 66430 Lakh	Rs. ---					
Expenditure during 2016-17		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 <ul style="list-style-type: none"> 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.						
<ul style="list-style-type: none"> 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 till 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 condenser 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.						

BROAD STATUS OF THERMAL POWER PROJECTS IN ODISHA

Sl. No.	Project Details1	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Svn Comm	COD	Svn. Comm	Trial Run COD	
State Sector								
1.	Ib Thermal Power Station Village : Banaharpalli, Dist: Jharsaguda (OPGC) (2x660 = 1320 MW)	3	660	08/17 08/17	09/17	30.03.2019(A) 20.04.2019(A)	01.07.19(A) 03.07.19(A)	<p>Unit-3: COD achieved on 02.07.2019. Trial Run 29.06.2019 to 01.07.2019. Commissioned on 20.04.2019. Synchronisation done on 30.03.2019.</p> <p>• Boiler: All major work completed. Synchronization achieved 30.03.2019 Boiler civil works start on 26.11.2014 and erection start at 20.01.2015, Hydro Test - Drainable on 26.12.2017 and Non-drainable – 13.08.2018, Boiler Light Up on 18.11.2018, SBO – 23.02.2019. Coal firing on 31.03.2019</p> <p>• ESP 3: Mechanical Erection completed, Commissioning completed.</p> <p>• TG Unit-3: Unit synchronization on 30.03.2019 and coal firing on 31.03.2019.</p> <p>• Unit-4: COD declared on 21.08.2019 but schedule 00 hrs of 22.08.2019; Trial Run 14.08.2019 to 17.08.2019. Commissioned on 11.05.2019. Synchronisation done on 23.01.2019</p> <p>• Boiler: All major work completed. Synchronization achieved on 23.01.2019 Boiler civil works start on 26.12.2014 and erection start at 29.05.2015, Hydro Test - Drainable on 01.12.2017 and Non-drainable – 17.07.2018, Boiler Light Up on 11.08.2018, SBO – 08.12.2018. Coal firing on 13.02.2019</p> <p>• ESP4: All field charged, commissioning completed.</p> <p>• TG Unit-4: Oil synchronization achieved.</p> <p>Auxiliary Equipment: All major drives commissioning completed.</p> <p>BoPs: All BOPs are completed and operational except MGR, because 40 acres land for MGR possession is pending.</p> <p>FGD Plant: Consultant finalized, Techno – commercial bid evaluation in progress.</p>
Original / Latest Cost		:Rs 1196500 Lakhs						
Expenditure during 2013-14		: Rs 68690 lakhs						
Expenditure during 2014-15		: Rs. 56887 lakhs						
Expenditure during 2015-16		: Rs. 108659 lakhs						
Expenditure during 2016-17		: Rs. 208889 lakhs						
Expenditure during 2017-18		: Rs. 63758 lakhs						
Expenditure during 2018-19		: Rs.						
Expenditure during 2019-20		: Rs.						
Total Expenditure (up to 06/17)		: Rs 506883 lakhs						
Approval date:								
Zero date:		: 26.03.2014						
Financial closure		: Achieved on 23.11.2012 (PFC and REC)						
Main Plant Order		: NTP issued in 03/2014						
BOP Package		: BTG order placed on M/s BHEL						
Type of fuel		: Coal						
PPA		: PPA: 50% of the power generated shall be sold to GRIDCO through a long term PPA based on CERC norms and balance 50% will be sold through mix of long term PPA (Case-1 bids) and short / medium term sales.						
Power Evacuation system		: Power evacuation through 2xD/C 400KV transmission lines, one going to OPTCL's 400kV substation at Lapang and other to PGCIL's 400KV pooling station. Signed on 11.09.2013						
<ul style="list-style-type: none"> • LAND: Required land is in possession of OPGC except the 40 acre of land for MGR work. • MOEF: EC was granted on 04.02.2010, amended on 22.01.2014 and validity extended on 16.1.2015. • Coal linkage: Coal will be sourced from Manoharpur & Dip side Manoharpur allocated to OCPL, A JV subsidiary company of OPGC. • WATER: Agreement signed with water resource department on 26.08.2013 • SPCB: Consent to establish was granted from OSPCB on 04.02.2010 and revalidation was done on 27.11.15 • CIVIL Aviation: Clearance obtained from AAI on 15.03.2010 								
Critical issues								
Reasons for Delay		: There is an incident occurred where LP Turbine blade failed at 3000 RPM before synchronization (on coal) so there is anticipation that COD Unit 4 might shift from Feb 19 to mar 19.						

SB-28.08.2019

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.	Ind Barath TPP M/s Ind-Barath Energy (Utkal) Ltd. (Distt-Jharsuguda) (2x350 700 MW)	1	350	07/11 09/11	10/11	18.06.15(A) 25.02.16(A)	20.07.16(A)	<p>Unit-1: Full load achieved on 25.02.16. COD declared on 20.07.2016.</p> <ul style="list-style-type: none"> 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 <p>Unit-2:</p> <ul style="list-style-type: none"> 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. <p>BoPs:</p> <ul style="list-style-type: none"> 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.
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						
<ul style="list-style-type: none"> 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 								
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 financier.						

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.	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 reclaiming 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.						
		<ul style="list-style-type: none"> • 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.							

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.	Malibrahmani TPP M/s Monnet Ispat (Distt-Angul) (2x525 = 1050 MW)	1	525	10/12 12/12	01/13	Uncertain*	----	<p>Unit-1:</p> <ul style="list-style-type: none"> 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. <p>Unit-2:</p> <ul style="list-style-type: none"> 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. <p>BoPs:</p> <ul style="list-style-type: none"> 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 On 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. <p>*Work held up due to financial constraints</p>
Original /Latest Cost		:Rs 5093.00 Cr./ Rs. 6330.00 Cr						
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.						
<ul style="list-style-type: none"> 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.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch Comm	COD	Syn. Comm	COD	
Private Sector								
5.	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	Uncertain	
		2	350	01/12 02/12	03/13	Uncertain	-----	
		3	350	01/12 02/12	03/13	Uncertain	-----	
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 75226.00lakhs						
Expenditure during 2012-13		:Rs 15740.00lakhs						
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						
<ul style="list-style-type: none"> • 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						

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.

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		
				Synch Comm	COD	Syn. Comm	COD	
Private Sector								
1.	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. 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. Unit-3 Boiler: Boiler erection started on 15.05.15. 1320/3274MT structural erection completed. Drum lifted on 14.01.16. Piling 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. 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 crusher house is completed. Stacker cum reclaimers 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 upto 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.
Original /Latest Cost		:Rs 2656.00 Cr./ Rs. 3307.00 Cr						
Latest Est. Cost								
Expenditure up to 2010-11		: Rs 107 lakh						
Expenditure during 2013-14		: Rs 111527 lakh						
Expenditure during 2014-15		: Rs 46764 lakh						
Expenditure during 2015-16		: Rs 86968 lakh						
Expenditure during 2016-17		: Rs 76130 lakh						
Expenditure during 2017-18		: 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.						
<ul style="list-style-type: none"> 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)/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. 								
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						

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	COD	
I	COMMISSIONED PROJECTS						
	State Sector						
1.	Lakwa Replacement Power Project Dist.: Charaideo (Assam) APGCL	69.755					Civil works for all the Gas Engines were started on 26.05.2016 and completed on 16.10.2017.
	Gas Engine-1	9.965	10.02.18	26.04.18	10.02.18	26.04.18(A)	Mechanical work for all the Gas Engines were started on 19.12.2016 and completed on 10.02.2018.
	Gas Engine-2	9.965	06.02.18		06.02.18		
	Gas Engine-3	9.965	08.02.18		08.02.18		
	Gas Engine-4	9.965	09.02.18		09.02.18		
	Gas Engine-5	9.965	11.02.18		11.02.18		
	Gas Engine-6	9.965	13.02.18		13.02.18		
	Gas Engine-7	9.965	14.02.18		14.02.18		
	Date of sanction of the project	22.5.2014					<u>Gas Engine-1 &GTG:</u>
	Project sanctioning Authority	Govt of Assam					Cranking for Gas Engine-1 and FSNL test conducted on 05.02.18 and synchronized on 10.02.18.
	Date of Investment Approval	20.02.2015					
	Org. Est. cost	Rs 26750 Lakhs					
	Latest cost	Rs 26750 Lakhs					<u>Gas Engine-2 &GTG:</u>
	Exp. During 2015-16	Rs 2461 Lakhs					Cranking for Gas Engine-2 and FSNL test conducted on 05.02.18 and synchronized on 06.02.18.
	Exp. During 2016-17	Rs 10571 Lakhs					
	Exp. During 2017-18	Rs 10109 Lakhs					
	Exp. During 2018-19 (06/18)	Rs 3609 Lakhs					
	Cumulative exp. up to(06/18)	Rs 26750 Lakhs					<u>Gas Engine-3 &GTG:</u>
	Date of Main Plant Order (LOI)	Consortium of Wartsila India Pvt. Ltd. and Wartsila Finland OY (EPC) on 11.12.2015.					Cranking for Gas Engine-3 and FSNL test conducted on 06.02.18 and synchronized on 08.02.18.
	Zero date of the project	09.03.2016.					<u>Gas Engine-4 &GTG:</u>
		<ul style="list-style-type: none"> Land: 2.099 Acres of land was available with the project. Environment clearance (Central): Obtained vide letter no J 13012/21/2012-IA.II (T) dated 14.10.2013 from MOEF, GOI Water Linkage : 21.6 KL per day is required for the project which is met from existing Raw water system sourced from Disang River. Fuel: Natural Gas (No fresh Gas allocation is required and used the Ph-I allocation, i.e. 0.4 MMSCMD) Power Evacuation: 132KV Mariani Feeder, 132 KV Nazira Feeder, 132 KV Dibrugarh feeder, 132 KV Namrup-I & 132 KV Namrup-II Feeder. NOC AAI (For Height only): 12.06.2014, Funded by Asian Development Bank (ADB). 					Cranking for Gas Engine-4 and FSNL test conducted on 05.02.18 and synchronized on 09.02.18.
							<u>Gas Engine-5 &GTG:</u>
							Cranking for Gas Engine-5 and FSNL test conducted on 06.02.18 and synchronized on 11.02.18.
							<u>Gas Engine-6 &GTG:</u>
							Cranking for Gas Engine-6 and FSNL test conducted on 06.02.18 and synchronized on 13.02.18.
							<u>Gas Engine-7 & GTG:</u>
							Cranking for Gas Engine-7 and FSNL test conducted on 05.02.18 and synchronized on 14.02.18.
							Engine: Wartisila Finland OY Generator: ABB Finland OY Gas Compressor: Kirlosker Pneumatic Company Ltd.
	Reason for Delay:	NIL					
	Critical Issue:	NIL					

Sl. No.	PROJECT DETAILS	Cap (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. comm	COD	Syn. comm	COD	
I	PROJECT UNDER CONSTRUCTION						
	State Sector						
1.	Namrup Replacement Power Project Distt:Dibrugarh (Assam) APGCL	98.40					<p>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.</p> <p>ST: TG Hall roof collapsed on 09.07.2018. Roof structure restoration work started. Damaged spares of ST have been identified and being replaced. Now ST synchronization is likely to be achieved by 10/19. 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.</p> <p>HRSR: HRSR 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</p> <ul style="list-style-type: none"> • 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	02/20 03/20	2019-20	
	Date of sanction of the project		17.03.2007				
	Project sanctioning Authority		Govt of Assam				
	Date of Investment Approval		17.03.2007				
	Org. Est. cost		Rs 41100 Lakhs				
	Latest cost		Rs 69373 Lakhs				
	Exp. During 2007-08		Rs 23 Lakhs				
	Exp. During 2008-09		Rs 1816 Lakhs				
	Exp. During 2009-10		Rs 1799 Lakhs				
	Exp. During 2010-11		Rs 2159 Lakhs				
	Exp. During 2011-12		Rs 12363 Lakhs				
	Exp. During 2012-13		Rs 10640 Lakhs				
	Exp. During 2013-14		Rs 2105 Lakhs				
	Exp. During 2014-15		Rs 2005 Lakhs				
	Exp. During 2015-16		Rs 12870 Lakhs				
	Exp. During 2016-17		Rs 2950 Lakhs				
	Exp. During 2017-18		Rs 2450 Lakhs				
	Exp. During 2018-19 (06/18)		Rs 4727 Lakhs				
	Cumulative exp. up to(06/18)		Rs 58148 Lakhs				
	Date of Main Plant Order (LOA)		: 31.12.2008 (EPC) on M/s BHEL				
	Zero date of the project		: 09.02.2009				
	<ul style="list-style-type: none"> • 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 Issue	<ul style="list-style-type: none"> - Readiness of firefighting system. - TG hall roof and TG restoration. 					
	Reason for Delay:	<ul style="list-style-type: none"> - 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	HCS D	High Concentrated Slurry Disposal
27	HPT	High Pressure Turbine
28	HRH	Hot Re Heat
29	HT	Hydraulic Test
30	ID Fan	Induced Draft Fan
31	IDCT	Induced Draft Cooling Tower
32	IPT	Intermediate Pressure Turbine
33	LOA	Letter of Award
34	LPT	Low Pressure Turbine
35	MDBFP	Motor Driven Boiler Feed Pump
36	MGR	Merry Go Round
37	MOE&F	Ministry of Environment & Forests
38	MSL	Main Steam Line
39	NDCT	Natural Draft Cooling Tower
40	NTP	Notice To Proceed
41	PA Fan	Primary Air Fan
42	PHB	Power House Building
43	PPA	Power Purchase Agreement
44	PTP	Pre Treatment Plant
45	ROW	Right Of Way
46	SBO	Steam Blowing Operation
47	SCR	Selective Catalytic Reduction
48	SG	Steam Generator
49	ST	Station Transformer
50	SVF	Safety Valve Floating
51	Synch.	Synchronisation
52	TDBFP	Turbine Driven Boiler Feed Pump
53	TG	Turbine Generator
54	WT	Wagon Tippler
55	WT Plant	Water Treatment Plant

BROAD STATUS REPORT

(Monthly)

Under Construction

THERMAL POWER PROJECTS

मासिक प्रतिवेदन

(दिसम्बर – 2019)

(December–2019)

Central Electricity Authority

Thermal Project Monitoring Division

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