



**भारत सरकार
विद्युत मंत्रालय**

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**MONTHLY REPORT ON BROAD STATUS
OF THERMAL POWER PROJECTS IN THE
COUNTRY**

**जनवरी- २०१९
January – 2019**



**तापीय विद्युत परियोजना प्रबोधन प्रभाग
केन्द्रीय विद्युत प्राधिकरण
नई दिल्ली**

**THERMAL PROJECT MONITORING DIVISION
CENTRAL ELECTRICITY AUTHORITY
NEW DELHI**

FOREWORD

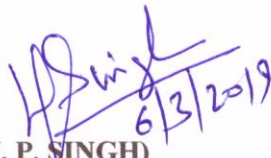
As per clause 73(f) of Electricity Act 2003, Central Electricity Authority is to “promote and assist in the timely completion of schemes and projects”. The Thermal Project Monitoring (TPM) Divisions of CEA are entrusted with the responsibility of monitoring the progress of construction/erection activities 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. 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 Divisions 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: 06th March, 2019


(M. P. SINGH)
Chief Engineer (TPM-II)

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. Targeted Capacity Addition (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:

(in MW)

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. Sector-wise break up of under construction Thermal Power Projects are as follows:(As on 28th February, 2019)

SECTOR	CAPACITY (MW)
CENTRAL	22380
STATE	22166.15
PRIVATE	24135
TOTAL	68681.15

1. D. Thermal Capacity Addition during 2018-19 (MW)(As on 28th February, 2019)

Thermal capacity addition achieved during 2018-19 (MW)		
Sector	Target (MW)	Achievement(MW) Total
Central	2760	Nil
State	4506.15	1460
Private	Nil	Nil
Total	7266.15	1460
Thermal capacity addition achieved for Additional Projects during 2018-19(MW)		
State	-	69.755
Private	-	600
Total	7266.15	669.755
Total Grand Thermal Cap. Addition	7266.15	2129.755

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

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

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)	
	Corporate Power Ltd Ph-I (Maitrishi Usha)	M/s Corporate Power Ltd.	U-1	Dec-09	BHEL	270		12/12	Slipped	
Maharashtra	Bela TTP-I	IEPL	U-1	Dec-08	BHEL	270	270	09/12	20.03.13(A)	18.07.2013
	Butibori TPP	Vidarbha Industries Power Ltd	U-2	Dec-09	Chinese	300	300	08/12	17.08.12 (A)	04.04.2013
	EMCO Warora TPP	EMCO Energy Ltd. (GMR)	U-1	Sep-09	Chinese	300	300	11/12	07.02.13(A)	19.03.2013
	Tirora TPP Ph-I	Adani Power Ltd	U-1	Feb-08	Chinese	660	660	08/12	11.09.12(A)	23.09.2012
	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
Maha-rashtra	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										
Rajasthan	Kawai TPP	Adani Power Rajasthan Ltd.	1	04/10	Chinese		660	28/05/2013		31.05.2013
Tripura	Rokhia GT	Tripura State Electricity Corporation Ltd.)	9		BHEL		21	31/08/2013		
Rajasthan	Kawai TPP	Adani Power Rajasthan Ltd.	2	04/10	Chinese		660	24/12/2013		31.05.2014
MP	Niwari TPP	BLA Power Pvt.Ltd	1		Chinese		45	10/12/2013		
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	31.03.2014		28.03.2014
			Total Addl.Capacity				6906			
			Total for the Year 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	Swastik Korba TPP	ACB India Ltd.	Blr:ISGEC India TG:Siemens	Coal	U-1	29.03.10	25	25	31.03.2015	Nov-14	
	Salora TPP	Vandana Vidyut Ltd	Chinese	Coal	U-1	11/2008	135	135	10.04.2014	Sep-14	01.05.2014
	Bandakhar TPP	Maruti Clean coal	Chinese	Coal	U-1		300		Slipped	Jan-15	
Maharashtra	Amravati TPP Ph-I	India Bulls Power Ltd	BHEL	Coal	U-3	30.11.09	270	270	29.01.2015	Oct-14	03.02.2015
Maharashtra	Nasik TPP Ph-I	India Bulls Realtech	BHEL	Coal	U-2	24.11.09	270		Slipped	Jul-14	
Maharashtra	Dhariwal TPP	Dhariwal Infrastructure Ltd	Chinese	Coal	U-2	28.04.10	300	300	28.05.2014	Jun-14	02.08.2014
Orissa	Derang TPP	JPL	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 target during 2014-15							14988.3	10228.3			

Additional Capacity Commissioned											
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
Gujarat	D gen CCPP	Torrent Power	Siemens Germany	gas	Block-II	02.07.2010		400	23.04.2014		
Gujarat	Dhuvaran CCPP	GSECL	Siemens Germany	gas	Unit 1			376.1	21.05.2014		
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
TN	Neyveli TPS Ph-II Exp	NLC	BHEL	Coal	U-2			250	24.01.2015		22.04.2015
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
Tripura	Agartala CCPP	NEEPCO	Thermax	gas	ST-2			25.5	22.03.2015		
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
Tripura	Monarchak gas power project	NEEPCO	BHEL	Gas	GT			65.4	30.03.2015		
								10602			
								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
<u>CENTRAL SECTOR</u>										
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	03/2016			
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	01/2016			
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		
<u>STATE SECTOR</u>										
Chhattisgarh	Marwa TPP	CSPGCL	U-2	BHEL	500	09/2015	02/2016			
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	01/2016	700	01.03.16(A)	16.09.2017
Karnataka	Yermarus TPP	KPCL	U-1	BHEL	800	01/2016	02/2016	800	29.03.16(A)	07.03.2017
Maharashtra	Chandrapur TPS	MSPGCL	U-9	BHEL	500	10/2015	02/2016	500	21.03.16(A)	24.11.2016
Maharashtra	Koradi TPS Expn.	MSPGCL	U-9	L&T	660	09/2015	02/2016	660	15.03.16(A)	22.11.2016
Maharashtra	Koradi TPS Expn.	MSPGCL	U-10	L&T	660	02/2016	05/2016			
Maharashtra	Parli TPS	MSPGCL	U-8	BHEL	250	01/2016	03/2016	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	03/2016	600	13.03.16(A)	25.09.2016
Telangana	Kakatiya TPS Extn.	T GENCO	U-1	BHEL	600	12/2015	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	02/2016	500	06.03.16(A)	18.10.2016
WB	Sagardighi TPS-Extn	West Bengal	U-3	BHEL	500	09/2015	12/2015	500	14.12.15(A)	
WB	Sagardighi TPS-Extn	West Bengal	U-4	BHEL	500	01/2016	06/2016			
		Total State Sector			8120			6460		
<u>PRIVATE SECTOR</u>										
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	02/2015	520	27.12.15(A)	11.01.2016
AP	Lanco Kondapalli Extn. Ph-III (PS)	Lanco Kondapalli Power Co.Ltd	Block-I	Others				371	07.08.15(A)	
AP	Lanco Kondapalli Extn. Ph-III (PS)	Lanco Kondapalli Power Co.Ltd	Block-II	Others				371	05.09.15(A)	
AP	Vemagiri CCPP-II (PS)	GMR Rajahmundry Energy Ltd.	Block-I	Others				384	12.09.15(A)	
AP	Vemagiri CCPP-II (PS)	GMR Rajahmundry Energy Ltd.	Block-II	Others				384	05.10.15(A)	
AP	Vizag TPP	Hinduja National Power Corp. Ltd	U-2	BHEL				520	30.03.16(A)	03.07.2016
Chhattisgarh	Bandakhar TPP	M/s Maruti Clean (Chhattisgarh) Ltd.	U-1	Chinese	300	06/2015		300	19.06.15(A)	
Chhattisgarh	Uchpinda TPP	RKM Powergen Pvt. Ltd	U-1	Chinese	360	06/2015		360	28.10.15(A)	27.11.2015
Chhattisgarh	Uchpinda TPP	RKM Powergen Pvt. Ltd	U-2	Chinese				360	28.01.16(A)	12.02.2016
Chhattisgarh	BALCO TPP	BALCO Pvt Ltd	U-1	Chinese	300	06/2015		300	05.06.15(A)	11.07.2015
Chhattisgarh	BALCO TPP	BALCO Pvt Ltd	U-2	Chinese	300	09/2015	02/2016	300	24.03.16(A)	30.03.2016
Chhattisgarh	Raikheda TPP	GMR	U-2	Doosan (Non-BHEL)	685	12/2015	02/2016	685	28.03.16(A)	
Chhattisgarh	Salora	Vandana Vidyut	U-2	Chinese	135	09/2015	2016-17			
Maharashtra	Nasik TPP Ph-I	Ratan India (Nasik) Power Ltd	U-2	BHEL	270	01/2016	03/2016			
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	01/2016	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	03/2016	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		
		Grand Total			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	12-2016			
Bihar	Kanti TPS St-II	U-4	NTPC	BHEL	195	09-2016	24.03.2017	195.0	01.07.2017
Chhattisgarh	Lara STPP	U-1	NTPC	NON BHEL	800	01-2017			
Karnataka	Kudgi TPP	U-1	NTPC	NON BHEL	800	11-2016	25.12.2016	800.0	31.07.2017
Maharashtra	Mauda STPP-II	U-4	NTPC	BHEL	660	12-2016	18.03.2017	660.0	18.09.2017
Tripura	Agartala Gas Based Power Project	ST-1	NEEPCO	NON BHEL	25.5	06-2016	23.08.2016	25.5	
		Total Central			2730.5			1680.5	
	<u>STATE SECTOR</u>								
Assam	Namrup CCGT	GT	APGCL	BHEL	70	09-2016	11.01.2017	62.25	
Assam	Namrup CCGT	ST	APGCL	BHEL	30	09-2016			
Bihar	Barauni TPP,	U-8	BSEB	BHEL	250	12-2016			
Chhattisgarh	Marwa TPS	U-2	CSPGCL	BHEL	500	06-2016	15.07.2016	500.0	31.07.2016
Gujarat	Bhavnagar TPP	U-1	BECL	BHEL	250	06-2016	16.05.2016	250.0	
Gujarat	Bhavnagar TPP	U-2	BECL	BHEL	250	08-2016	27.03.2017	250.0	
Karnataka	Yermarus TPP	U-2	KPCL	BHEL	800	07-2016	29.03.2017	800.0	06.04.2017
Maharashtra	Koradi TPP	U-10	MSPGCL	NON BHEL	660	08-2016	28.12.2016	660.0	17.01.2017
Telangana	Singreni TPP	U-2	SCCL	BHEL	600	06-2016	25.11.2016	600.0	02.12.2016
West Bengal	Sagardighi TPS-II	U-4	WBPDCCL	BHEL	500	09-2016	15.12.2016	500.0	
		Total State			3910			3622.25	
	<u>PRIVATE SECTOR</u>								
Andhra pradesh	Sembcorp Gayatri Pvt.ltd.(NCC TPP)	U-1	SGPL	NON BHEL	660	09-2016	12.11.2016	660.0	17.11.2016
Andhra pradesh	Sembcorp Gayatri Pvt.ltd.(NCC TPP)	U-2	SGPL	NON BHEL	660	12-2016	15.02.2017	660.0	21.02.2017
Chhattisgarh	Nawapara TPP	U-1	TRN	CHINESE	300	05-2016	14.08.2016	300.0	19.08.2016
Chhattisgarh	Nawapara TPP	U-2	TRN	CHINESE	300	11-2016			
Chhattisgarh	Ucchpinda TPP	U-3	RKM	CHINESE	360	07-2016			
Chhattisgarh	Binjkote TPP	U-1	SKS	NON BHEL	300	11-2016			
Chhattisgarh	Athena Singhitari TPP	U-1	Athena Chhattisgarh	NON BHEL	600	10-2016			
Maharashtra	Nashik TPP, Ph-I	U-2	Rattan Power	BHEL	270	06-2016	15.02.2017	270.0	
Maharashtra	Nashik TPP, Ph-I	U-3	Rattan Power	BHEL	270	12-2016			
Orissa	Utkal TPP	U-2	Ind Barath	NON BHEL	350	07-2016			
Orissa	Lanco Babandh TPP	U-1	Lanco Babandh	NON BHEL	660	02-2017			
Tamilnadu	ITPCL TPP	U-2	ILFS	NON BHEL	600	05-2016	18.04.2016	600.0	30.04.2016
Uttar pradesh	Bara TPP	U-2	Jaypee	BHEL	660	07-2016	06.09.2016	660.0	10.09.2016
Uttar pradesh	Lalitpur TPP	U-3	LPGL	BHEL	660	04-2016	01.04.2016	660.0	23.12.2016
West Bengal	Hiranmaye Energy TPP	U-1	Hiranmaye Energy Limited	BHEL	150	07-2016			
		Total Private			6800			3810.0	
		Total Thermal			13440.5			9112.75	
ADDITIONAL PROJECTS COMMISSIONED IN RFD 2016-17									
	<u>CENTRAL SECTOR</u>								
Assam	Bongaigaon TPP	U-2	NTPC	BHEL			22.03.2017	250.0	01.11.2017
Karnataka	Kudgi TPP	U-2	NTPC	NON BHEL			23.03.2017	800.0	31.12.2017
Uttar Pradesh	Unchahar TPS ST-IV	U-6	NTPC	BHEL			31.03.2017	500.0	
	<u>PRIVATE SECTOR</u>								
Chhattisgarh	Ratija TPP -II	U-2	Spectrum Coal&Power Ltd	Non-BHEL			10.11.2016	50.0	
Uttarakhand	GAMA CAPP	Module-1 (GT1&2+ST)	M/s GAMA Infraprop Ltd.	Others			25.04.2016	225.0	
Uttarakhand	Kashipur CAPP	Blk-I	Srawanthi Energy Pvt.Ltd	Others			20.11.2016	225.0	
Maharashtra	Mangaon CAPP	Block-I	M/s PGPL	Others			14.07.2016	388.0	
		Total Additional						2438.0	
		Total Grand Thermal Capacity			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	Apr-18			
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	Mar-18			
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	Mar-18			
Maharashtra	Solapur STPP	NTPC	NON BHEL	1	660	Apr-17	-	07.04.2017	660.00	25.09.2017
UP	Meja STPP	JV of NTPC & UPRVUNL	NON BHEL	1	660	Oct-17	-	31.03.2018	660.00	
TOTAL CENTRAL SECTOR					4880				3170.00	
STATE SECTOR										
AP	Rayal seema TPP	APGENCO	BHEL	6	600	Aug-17	-	12.03.2018	600.00	29.03.2018
Assam	Namrup	APGCL	BHEL	ST	36.15	Feb-18	Mar-18			
MP	Shree Singaji TPP, St-II	MPPGCL	NON BHEL	3	660	Dec-17	Jun-18			
Rajasthan	Suratgarh TPS	RRVUNL	BHEL	7	660	Nov-17	Feb-18			
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	Feb-18			
Telangana	Bhadradi TPP	TGENCO	BHEL	1	270	Mar-18	May-19			
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	Mar-18			
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					11366.15				8710.00	

2.6 Thermal Capacity Addition Programme (RFD) for the year 2018-19

S. No.	State	Project Name / Impl. Agency/ EPC or BTG	LOA Date	Unit No	Targeted Cap. (MW)	Ach. Cap. (MW)	Org. Comm. Sched.	Ant. Comm. Sched.	Ant. COD	Actual COD	Expected COD Quarter-wise
		CENTRAL SECTOR									
1	Assam	Bongaigaon TPP	Feb-08	U-3	250		Sep-11	Q1	Oct-18		Q4
2	Bihar	Nabi Nagar TPP	Jan-08	U-3	250		Aug-13	Q2	Mar-19		Q4
3	Bihar	New Nabi Nagar TPP	Jan-13	U-1	660		Jan-17	Q2	Jan-19		Q4
4	MP	Gadarwara TPP	Mar-13	U-1	800		Mar-17	Q2	Nov-18		Q4
5	Odisha	Darlipalli STPP	Feb-14	U-1	800		Feb-18	Q4	Mar-19		Q4
		Total Central Sector			2760						
		STATE SECTOR									
1	Assam	Namrup CCGT	Feb-09	ST	36.15		Jan-12	Q3	Feb-19		Q4
2	MP	Shri Singhaji TPP St-II	Sep-14	U-3	660	660	May-18	Q1	Oct-18	18.11.18	Q3
3	MP	Shri Singhaji TPP St-II	Sep-14	U-4	660		Jul-18	Q3	Feb-19		Q4
4	Odisha	Ib valley TPP	Mar-14	U-4	660		Sep-17	Q4	Mar-19		Q4
5	Rajasthan	Chhabra TPP Extn	Mar-13	U-6	660		Jun-18	Q2	Dec-18		Q4
6	Rajasthan	Suratgarh SCTPP	May-13	U-7	660		Sep-16	Q2	Dec-18		Q4
7	Karnataka	Yelahanka CCPP BY KPCL	Nov-15	GT+ST	370		Mar-18	Q2	Oct-18		Q4
8	Telangana	Kothagudem TPS St-VII	Jan-15	U-1	800	800	Nov-17	Q2	Dec-18	26.12.18	Q3
		Total State Sector			4506.15	1460					
		PRIVATE SECTOR			NIL						
		TOTAL THERMAL CAPACITY ADDITION				1460					
		ADDITIONAL PROJECTS									
		STATE SECTOR									
1	Assam	Lakwa Replacement Power Project./ APGCL/ Wartsila India Pvt Ltd	Dec-15	U-1,2,3,4,5,6 &7		69.755				26.04.18	
		Total State Sector				69.755					
		PRIVATE SECTOR									
1	MP	Mahan TPP /Essar Power MP Ltd./ Chinese	Aug-07	U-2		600	Dec-11			07.10.18	
		Total Private Sector				600					
		Total Additional Capacity				669.755					
		TOTAL GRAND THERMAL CAPACITY ADDITION			7266.15	2129.755					

Remarks: Lakwa Replacement Power Project (69.755 MW) had achieved COD on 26.04.18 but the intimation regarding COD was received in Oct'18.

Mahan TPP(600MW) was a stressed project.

Sector	Q1	Q2	Q3		Q4	Total
Central	0	0	1050		1710	2760
State	0	0	3150		1356.15	4506.15
Private	0	0	0		0	0
Total	0	0	4200		3066.15	7266.15

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
	<u>CENTRAL SECTOR</u>									
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-I #			25.5	25.5	23.08.16	
UP	Rihand STPS- III	NTPC	BHEL	U-6	500	500		500	07.10.13	
UP	Rihand STPS- III	NTPC	BHEL	U-5	500	500		500	25.05.12	
UP	Unchahar - IV	NTPC	BHEL	U-6 #			500	500	31.03.17	
WB	Raghunathpur TPP Ph-I	DVC	Chinese	U-1	600	600		600	24.08.14	
WB	Raghunathpur TPP, Ph-I	DVC	Chinese	U-2	600	600		600	18.01.16	
		Total Central Sector			14877.6	11897.6	3971	15868.6		2980
	<u>STATE SECTOR</u>									
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	Rayalaseema St-IV	AP Genco	BHEL	U-6	600					600
Assam	Namrup CCGT	APGCL	BHEL	GT	63.85	62.25		62.25	11.01.17	
Assam	Namrup CCGT	APGCL	BHEL	ST	36.15					36.15
Chhattisgarh	Korba West -St -III	CSPGCL	BHEL	U-5	500	500		500	22.03.13	
Chhattisgarh	Marwa TPP	CSPGCL	BHEL	U-1	500	500		500	30.03.14	
Chhattisgarh	Marwa TPP	CSPGCL	BHEL	U-2	500	500		500	15.07.16	
Delhi	Pragati CCGT - III	PPCL	BHEL	GT-3	250	250		250	27.06.12	
Delhi	Pragati CCGT - III	PPCL	BHEL	GT-4	250	250		250	07.05.13	
Delhi	Pragati CCGT - III	PPCL	BHEL	ST-2	250	250		250	26.02.14	
Gujarat	Pipavav CCPP	GSECL	BHEL	Block-2	351	351		351	27.03.13	
Gujarat	Pipavav CCPP	GSECL	BHEL	Block-1	351	351		351	05.02.14	
Gujarat	Ukai TPP Extn.	GSECL	BHEL	U-6	500	500		500	05.03.13	
Gujarat	Dhuvaran CCPP-III	GSECL	Others	Block-1 #			376.1	376.1	21.05.14	
Gujarat	Sikka TPS Extn	GSECL	BHEL	U-3	250	250		250	28.03.15	
Gujarat	Sikka TPS	GSECL	BHEL	U-4 #			250	250	25.09.15	
Gujarat	Bhavnagar CFBC TPP	Bhavnagar Energy	BHEL	U-1 #			250	250	16.05.16	
Gujarat	Bhavnagar CFBC TPP	Bhavnagar Energy	BHEL	U-2 #			250	250	27.03.17	
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)	MPGENC O	BHEL	U-2	600	600		600	15.10.14	
MP	Malwa TPP (Shree Singaji TPP)	MPGENC O	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 Tripura		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	
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	

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	Thamminapatnam TPP-II	Meenakshi Energy Pvt. Ltd	Chinese	U-3	350					350
AP	Thamminapatnam TPP-II	Meenakshi Energy Pvt. Ltd	Chinese	U-4	350					350
AP	Simhapuri Energy Pvt Ltd Ph-II	Madhucon Projects Ltd.	Chinese	U-3 #			150	150	21.02.14	
AP	Simhapuri Ph-II	Simhapuri Energy Ltd.,	Chinese	U-4 #			150	150	06.03.15	
AP	Bhavanapadu TPP Ph-I	East Coast Energy Ltd.	Chinese	U-1	660					660
AP	Bhavanapadu TPP Ph-I	East Coast Energy Ltd.	Chinese	U-2	660					660
AP	NCC TPP	NCC Power Project Ltd.	Chinese	U-1	660	660		660	12.11.16	
AP	NCC TPP	NCC Power Project Ltd.	Chinese	U-2	660	660		660	15.02.17	
AP	Painnampuram TPP	Thermal Power Tech Corp.Ltd.	Chinese	U-1	660	660		660	07.02.15	
AP	Painampuram TPP	Thermal Power Tech 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

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	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.	Chinese	U-1 #			685	685	27.02.15	
Chhattisgarh	Raikheda TPP	GMR	Doosan (Non-BHEL)	U-2 #			685	685	28.03.16	
Chhattisgarh	Swastic TPP	ACB India	Others	U-1	25	25		25	31.03.15	
Chhattisgarh	Bandakhar TPP	M/s Maruti Clean (Chhattisgarh) Ltd.	Chinese	U-1	300	300		300	19.06.15	
Chhattisgarh	Uchpinda TPP	RKM Powergen Pvt. Ltd	Chinese	U-1	360	360		360	28.10.15	
Chhattisgarh	Uchpinda TPP	RKM Powergen Pvt. Ltd	Chinese	U-2	360	360		360	28.01.16	
Chhattisgarh	Uchpinda TPP	RKM Powergen Pvt. Ltd	Chinese	U-3	360	0				360
Chhattisgarh	Athena Singhitarai TPP	Athena	Chinese	U-1	600					600
Chhattisgarh	Binjkote TPP	SKS Power Gen	Chinese	U-1	300					300
Chhattisgarh	Binjkote TPP	SKS Power Gen	Chinese	U-2	300					300
Chhattisgarh	Binjkote TPP	SKS Power Gen	Chinese	U-3	300					300
Chhattisgarh	Lanco Amarkantak TPP-II	LAP Pvt. Ltd.	Chinese	U-3	660					660
Chhattisgarh	Lanco Amarkantak TPP-II	LAP Pvt. Ltd.	Chinese	U-4	660					660
Chhattisgarh	BALCO TPP	BALCO Pvt Ltd	Chinese	U-1	300	300		300	05.06.15	
Chhattisgarh	BALCO TPP	BALCO Pvt Ltd	Chinese	U-2	300	300		300	24.03.16	
Gujarat	Mundra 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.I #			382.5	382.5	20.01.13	
Gujarat	DGEN Mega CCPP	Torrent Energy Ltd	Others	Module-1 #			400	400	12.01.14	
Gujarat	DGEN Mega CCPP	Torrent Energy Ltd	Others	Module-3 #			400	400	09.03.14	
Gujarat	DGEN Mega CCPP	Torrent Energy Ltd	Others	Module-2 #			400	400	23.04.14	
Haryana	Jajjar TPS (Mahatma 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	

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
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	17.08.12	
Maharashtra	Butibori TPP	VIPL	Chinese	U-2 #			300	300	31.03.14	
Maharashtra	Bela TPP-I,	IEPL	BHEL	U-1	270	270		270	20.03.13	
Maharashtra	EMCO Warora TPP,	EMCO GMR	Chinese	U-1	300	300		300	07.02.13	
Maharashtra	EMCO Warora TPP,	EMCO GMR	Chinese	U-2	300	300		300	27.08.13	
Maharashtra	Tirora TPP Ph-I,	Adani Power Ltd	Chinese	U-1	660	660		660	11.09.12	
Maharashtra	Tirora TPP Ph-I,	Adani Power Ltd	Chinese	U-2	660	660		660	25.03.13	
Maharashtra	Gupta Energy Power Ltd	Gupta Energy Power Ltd	Chinese	U-2	60	60		60	28.04.12	
Maharashtra	Gupta Energy Power Ltd	Gupta Energy Power Ltd	Chinese	U-1	60	60		60	08.09.12	
Maharashtra	Amaravati TPP Ph-I	Indiabulls	BHEL	U-1	270	270		270	25.03.13	
Maharashtra	Amravati TPP Ph-I	India Bulls	BHEL	U-2	270	270		270	17.02.14	
Maharashtra	Amravati TPP Ph-I	India Bulls	BHEL	U-3	270	270		270	29.01.15	
Maharashtra	Amravati TPP Ph-I	India Bulls	BHEL	U-4	270	270		270	04.03.15	
Maharashtra	Amravati TPP Ph-I	India Bulls	BHEL	U-5	270	270		270	12.03.15	
Maharashtra	Dhariwal Infracture TPP	Dhariwal Infracture (P) Ltd	Chinese	U-1	300	300		300	03.11.13	
Maharashtra	Dhariwal Infracture TPP	Dhariwal Infracture (P) Ltd	Chinese	U-2	300	300		300	28.05.14	
Maharashtra	Nasik TPP Ph-I	Ratan India Nasik Power Ltd.	BHEL	U-1	270	270		270	25.02.14	
Maharashtra	Nasik TPP Ph-I	Ratan India Nasik Power Ltd.	BHEL	U-2	270	270		270	15.02.17	
Maharashtra	Nasik TPP Ph-I	Ratan India Nasik Power Ltd.	BHEL	U-3	270					270
Maharashtra	Nasik TPP Ph-I	Ratan India Nasik Power Ltd.	BHEL	U-4	270					270
Maharashtra	Nasik TPP Ph-I	Ratan India Nasik Power Ltd.	BHEL	U-5	270					270
Maharashtra	Tirora TPP Ph-II	Adani Power Ltd	Chinese	U-1	660	660		660	10.06.13	
Maharashtra	Tirora TPP Ph-II	Adani Power Ltd	Chinese	U-2 #			660	660	23.03.14	
Maharashtra	Tirora TPP Ph-II	Adani Power Ltd	Chinese	U-3 #			660	660	25.09.14	
Maharashtra	Lanco Vidarbha TPP	Lanco Vidarbha	Chinese	U-1	660					660
Maharashtra	Lanco Vidarbha TPP	Lanco Vidarbha	Chinese	U-2	660					660
Maharashtra	Mangaon CCPP	PGPL	Others	Block-1#			388	388	14.07.16	
MP	Nigri TPP	Jaiprakash Power Ventures Ltd	L&T/MHI	U-1 #			660	660	29.08.14	
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	

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
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	Niwari TPP	BLA Power Ltd	Non-BHEL	U-1 #			45	45	01.12.13	
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	Tutucorin TPP - 2(Ind Barath)	Ind Barath	Chinese	U-1 #			150	150	10.03.13	
TN	Tuticorin TPP(Ind barath)	Ind Barath	Chinese	U-2 #			150	150	30.12.13	
TN	Tuticorin TPP-II(Ind barath)	IBPIL	Chinese	U-1	660					660
TN	Melamaruthur TPP	Coastal Energen	Chinese	U-1 #			600	600	02.12.14	
TN	Melamaruthur (Mutiaara)	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	

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	
Uttarakhand	GAMA CCPP	M/s GAMA Infraprop Ltd.	Others	Module-1#			225	225	25.04.16		
Uttarakhand	Kashipur CCPP Ph-I	M/a Sravanthi Energy Pvt.Ltd	Others	Module-1#			225	225	20.11.16		
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
<u>CENTRAL SECTOR</u>						
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	
<u>STATE SECTOR</u>						
AP	Rayalaseema St-IV	AP Genco	BHEL	U-6	600	Delay in start & completion of civil works and land acquisition. Delay in BoP works.
Assam	Namrup CCGT	APGCL	BHEL	ST	36.15	Delay in start and slow progress of of civil works, Termination of civil contractor. Poor soil conditions and heavy monsoon. Delay in supply of material by BHEL & shortage of skilled manpower. Termination of NBPL order. Delay in award of civil and Electrical, Mechanical & Instrumentation agency.
	Total State Sector				636.15	
<u>PRIVATE SECTOR</u>						
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	
Chhattisgarh	Lanco Amarkantak TPP-II	LAP Pvt. Ltd.	Chinese	U-4	660	Delay in acquisition of land for water system. Presently work is going slow at site due to financial problems.
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-Acceptanceof 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.	Original / Latest cost (in Rs.Crores)	Exp. In Rs.crores.
CENTRAL SECTOR									
1.	Assam	Bongaigaon TPP/ NTPC/ BHEL	Feb-08	U-3	250	Sep-11	Feb-19	4375.35/ 6749.18	7220.84 (Dec-18)
2.	Bihar	Barh STPP-I /NTPC/Others	Mar-05	U-1	660	May-17	April-20	8693/ 15095.67	15278.98 (Dec-18)
				U-2	660	Nov-17	Oct-20		
				U-3	660	May-18	April-21		
3.	Bihar	Nabi Nagar TPP / JV of NTPC & Rlys/BHEL	Jan-08	U-3	250	Aug-13	Jan-19	5352.51/ 7998	7567.35 (Dec-18)
				U-4	250	Nov-13	Aug-19		
4.	Bihar	New Nabi Nagar TPP /JV of NTPC & BSPGCL TG-Alstom & Bharat Forge, SG-BHEL	Jan-13	U-1	660	Jan-17	Mar-19	13624.02 / 15131.67	12594.35 (Dec-18)
				U-2	660	Jul-17	-		
				U-3	660	Jan-18	-		
5.	Chhatisgarh	Lara TPP/NTPC / SG-Dooson TG-BGR Hitachi	Dec-12	U-2	800	Jun-17	Jun-19	11846/ 11846	10831.46 (Dec-18)
6.	Jharkhand	North Karanpura TPP/ NTPC / BHEL	Feb-14	U-1	660	Feb-18	Oct-19	14367/ 14367	7916.41 (Dec-18)
				U-2	660	Aug-18	April-20		
				U-3	660	Feb-19	Oct-20		
7.	Jharkhand	Patratu STPP/NTPC/BHEL	Mar-18	U-1	800	Dec-21	Jan-22	18668/18668	1477.29 (Nov-18)
				U-2	800	Jan-22	Jun-22		
				U-3	800	Jul-22	Dec-22		
8.	Maharashtra	Solapur STPP/ NTPC/ SG-BGR & Hitachi, TG-Alstom & Bharat Forge	Apr-12	U-2	660	Nov-16	Mar-19	9395.18/ 9395.18	9026.43 (Dec-18)
9.	MP	Gadarwara TPP/ NTPC /BTG-BHEL	Mar-13	U-1	800	Mar-17	Oct-18	11638.55/ 11638.55	10375.32 (Dec-18)
				U-2	800	Sep-17	Jun-19		
10.	MP	Khargone TPP/ NTPC/ EPC - L&T	Mar-15	U-1	660	Mar-19	Mar-19	9870.51/ 11148.86	6693.90 (Dec-18)
				U-2	660	Sep-19	Sep-19		
11.	Odisha	Darlipalli STPP/ NTPC / SG- BHEL TG-JSW & Toshiba	Feb-14	U-1	800	Feb-18	May-19	12532.44/ 12532.44	8441.41 (Dec-18)
				U-2	800	Jun-18	Nov-19		
12.	Odisha	Rourkela PP-II, Expansion/ NTPC-SAIL Power Co. Ltd.	May-16	U-1	250	Sept-18	Sept-19	1885.13/ 1885.13	1081.38 (Jan-19)
13.	Rajasthan	Barsingsar TPP ext/ NLC/ EPC- Reliance Infra.	Nov-16	U-1	250	May-20	Aug-20	2112.59	158.01 (Jan-19)
14.	Rajasthan	Bithnok TPP/ NLC/ EPC- Reliance Infra.	Nov-16	U-1	250	May-20	Aug-20	2196.30	173.16 (Jan-19)
15.	Telangana	Telangana Ph- I / NTPC/SG- BHEL TG- Alstom & Bharatforge	Feb-16	U-1	800	Jan-20	April-20	10599/ 10599	3272.35 (Dec-18)
				U-2	800	Jul-20	Oct-20		
16.	TN	Neyveli New TPP/ NLC/BHEL	Dec-13	U-1	500	Sept-17	Mar-19	5907.11/ 5907.11	5394.43 (Jan-19)
				U-2	500	Mar-18	Apr-19		
17.	UP	Meja STPP/ JV of NTPC & UPRVUNL/ SG-BGR, G-Toshiba	Apr-12	U-2	660	Dec-16	Aug-19	10821/ 10821	8464 (Aug-18)
18.	UP	Ghatampur TPP/ JV of NLC & UPRVUNL/ MHPS Boiler Pvt. Ltd.	Aug-16	U-1	660	Nov-20	Sept-20	17237.80/ 17237.80	3974.47 (Jan-19)
				U-2	660	May-21	Mar-21		
				U-3	660	Nov-21	Sept-21		
19.	UP	Tanda TPP/ NTPC/ SG: L&T/ TG: Alstom	Sep-14	U-1	660	Sep-18	Mar-19	9188.98/ 9188.98	5433.65 (Dec-18)
				U-2	660	Mar-19	Sept-19		
	TOTAL CENTRAL SECTOR				22380				

S.No	State	Project Name / Impl. Agency/ EPC or BTG	LOA Date/	Unit No	Cap. (MW)	Org. Comm. Sched.	Ant. Comm. Sched.	Original / Latest cost (in Rs.Crores)	Exp. In Rs.crores.
STATE SECTOR									
1.	A.P	Dr.Narla Tata Rao TPS St-V / APGENCO / BTG- BHEL	Oct-15	U-1	800	Jun-19	Jun-19	5286.54 / 5515	3843.41 (Jan-19)
2.	A.P	Sri Damodaran Sanjeevaiah TPP St-II / APGENCO /BTG- BHEL	Nov-15	U-1	800	Mar-19	Aug-19	4276.04 / 4276.04	4072.97 (Jan-19)
3.	Assam	Namrup CCGT / APGCL / BHEL	Feb-09	ST	36.15	Jan-12	Oct-19	411 / 693.73	581.48 (Jun-18)
4.	Gujarat	Wanakbori TPS Extn. / GSECL SG-Alstom TG-Siemens	Oct-14	U-8	800	Oct-18	Mar-19	3536.51 / 3536.51	3589.94 (Dec-18)
5.	Karnataka	Yelahanka CCPP BY KPCL	Nov-15	GT+ ST	370	Mar-18	Mar-19	1571.18 / 1571.18	1251.56 (Jan-19)
6.	MP	Shri Singhaji TPP St-II / MPGENCO EPC-L&T	Sep-14	U-4	660	Jul-18	Mar-19	6500 / 7738	5862.59 (Jan-19)
7.	Odisha	Ib valley TPP / OPGCL BTG- BHEL	Mar-14	U-3	660	Sept-17	Feb-19	11965 / 11965	5068.83 (Jun-17)
				U-4	660	Jan-18	Jan-19		
8.	Rajasthan	Chhabra TPP Extn./RRVUNL / L&T-MHPS	Mar-13	U-6	660	Jun-18	Feb-19	7920/ 7920	8929.39 (Jan-19)
9.	Rajasthan	Suratgarh SCTPP/ RRVUNL / BHEL	May-13	U-7	660	Sep-16	Feb-19	7920 / 7920	7234.32 (Jan-19)
				U-8	660	Dec-16	Jun-19		
10.	Telangana	Bhadradri TPP / TSGENCO/ BHEL	Mar-15	U-1	270	Mar-17	Apr-19	5044 / 5044	4505.49 (Jan-19)
				U-2	270	May-17	Jun-19		
				U-3	270	Jul-17	Aug-19		
				U-4	270	Sept-17	Oct-19		
11.	Telangana	Yadradri TPP/ TSGENCO/ BHEL	Oct-17	U-1	800	Oct-20	2020-21	25099.42	3006.90 (Jan-19)
				U-2	800	Oct-20	2020-21		
				U-3	800	Oct-21	2021-22		
				U-4	800	Oct-21	2021-22		
				U-5	800	Oct-21	2021-22		
12.	TN	Ennore exp. SCTPP (Lanco) / TANGEDCO BTG-LANCO	May-14	U-1	660	Jan-18	Jun-19	5421.38 / 5421.38	791.4 (Dec-17)
13.	TN	Ennore SEZ SCTPP/ TANGEDCO/ BHEL	Sep-14	U-1	660	Jan-18	Jul-20	9800 / 9800	2729.67 (Dec-18)
				U-2	660	Mar-18	Oct-20		
14.	TN	North Chennai TPP St-III TANGEDCO / BHEL	Jan-16	U-1	800	Mar-19	Dec-19	6376 / 6376	3021.60 (Jan-19)
15.	TN	Uppur Super Critical TPP TANGEDCO /BHEL	Feb-16	U-1	800	Mar-19	Apr-20	12778 / 12778	596.62 (Jan-19)
				U-2	800	Oct-19	Oct-20		
16.	TN	Udangudi STPP St-I / TANGEDCO/ BHEL	Dec-17	U-1	660	Feb-21	Feb-21	13076.71/ 13076.71	194.95 (Jan-19)
				U-2	660	Feb-21	April-21		
17.	UP	Harduaganj TPS Exp-II/UPRVUNL /Toshiba JSW	Sep-15	U-1	660	Jun-19	Jan-20	4826.49 / 5500.98	1876.26 (Jan-19)
18.	UP	Jawaharpur STPP/ UPRVUNL/ Doosan	Dec-16	U-1	660	Sept-20	Mar-21	10556.27/ 10556.27	1021 (Dec-18)
				U-2	660	Jan-21	July-21		
19.	UP	Obra-C STPP/ UPRVUNL/ Doosan	Dec-16	U-1	660	Sept-20	Apr-21	10416 / 10416	1358.66 (Dec-18)
				U-2	660	Dec-20	July-21		
21.	UP	Panki TPS Extn./UPRVUNL	Mar-18	U-1	660	NA	Sept-21	NA	16 (Apr-18)
22.	Maharashtra	Bhusawal TPS/ MAHAGENCO	Jan-18	U-6	660	NA	NA	5097	NA
	Total State Sector				22166.15				
PRIVATE SECTOR									
1	AP	Bhavanapadu TPP Ph-I / East Coast Energy Ltd. BTG-Chinese	Sep-09	U-1	660	Oct-13	Uncertain	6571.94 / 9343.15	3785.6 (Jan-16)
				U-2	660	Mar-14	Uncertain		

S.No	State	Project Name / Impl. Agency/ EPC or BTG	LOA Date/	Unit No	Cap. (MW)	Org. Comm. Sched.	Ant. Comm. Sched.	Original / Latest cost (in Rs.Crores)	Exp. In Rs.crores.
2	AP	Thamminapatnam TPP stage -II / Meenakshi Energy Pvt. Ltd. SG-Cether vessels TG-Chinese	Dec-09	U-3	350	May-12	Apr-18	3120 (600MW)/ 5005 (700MW)	5385 (Dec-18)
				U-4	350	Aug-12	-		
3	Bihar	Siriya TPP (Jas Infra. TPP) / JICPL BTG-Chinese	Mar-11	U-1	660	Aug-14	Uncertain	11120 / 11120	NA
				U-2	660	Dec-14	Uncertain		
				U-3	660	Apr-15	Uncertain		
				U-4	660	Aug-15	Uncertain		
4	Chhattisgarh	Akaltara TPP (Naiyara) / KSK Mahandi Power Company Ltd./ Chinese	Apr-09	U-4	600	Apr-13	Jun-19	16190 / 27080	18730 (Dec-16)
				U-5	600	Aug-13	Sept-19		
				U-6	600	Dec-13	Dec-19		
5	Chhattisgarh	Binjkote TPP/ SKS Power Generation (Chhattisgarh) Ltd. SG-Cethar Vessels TG-Harbin China	Mar-11	U-3	300	Mar-14	*	5058 / 7940	3828 (Jun-15)
				U-4	300	Jun-14	*		
6	Chhattisgarh	Lanco Amarkantak Mega TPP-II/ LAP Pvt. Ltd. BTG-DEC	Nov-09	U-3	660	Jan-12	*	6886 / 10815.24	9537.79 (Dec-16)
				U-4	660	Mar-12	*		
7	Chhattisgarh	Singhitarai TPP / Athena Chhattisgarh Power Ltd. BTG -DECL	Dec-09	U-1	600	Nov-14	*	6200 / 8443.79	6408.47 (May-17)
				U-2	600	Feb-15	*		
8	Chhattisgarh	Uchpinda TPP/ RKM Powergen. Pvt. Ltd. / SG-China Western TG-Habin China	Jul-07	U-4	360	Jul-13	*	6653.61 / 11784.51	11418.42 (Oct-17)
9	Chhattisgarh	Salora TPP / Vandana Vidyut/ BTG-Cether Vessles	Sep-09	U-2	135	Sep-11	Uncertain	1458.44 / 1458.44	2386.89 (Mar-15)
10	Chhattisgarh	Deveri (Visa) TPP / Visa Power Ltd. BTG-BHEL	Jun-10	U-1	600	Aug-13	Uncertain	2618.70 / 3930	2077.23 (Nov-15)
11	Jharkhand	Matrishri Usha TPP Ph-I / Corporate Power Ltd. EPC-BHEL	Dec-09	U-1	270	Apr-12	Uncertain	2900 / 2900	3120 (Nov-12)
				U-2	270	May-12	Uncertain		
12	Jharkhand	Matrishri Usha TPP Ph-II / Corporate Power Ltd. EPC-BHEL	Mar-11	U-3	270	Oct-12	Uncertain	3182 / 3182	2207 (Sep-12)
				U-4	270	Jan-13	Uncertain		
13	Jharkhand	Tori TPP Ph-I / Essar Power Ltd. BTG-China	Aug-08	U-1	600	Jul-12	Uncertain	5700 / 5700	4718.59 (Dec-16)
				U-2	600	Sep-12	Uncertain		
14	Jharkhand	Tori TPP Ph-II / Essar Power Ltd.		U-3	600	Dec-15	Uncertain	2500 / 2500	246.65 (Mar-15)
15	Maharashtra	Amravati TPP Ph-II / Ratan India Power Pvt. Ltd. BTG-BHEL	Oct-10	U-1	270	Jul-14	*	6646 / 6646	763.8 (Mar-15)
				U-2	270	Sep-14	*		
				U-3	270	Nov-14	*		
				U-4	270	Jan-15	*		
				U-5	270	Mar-15	*		
16	Maharashtra	Lanco Vidarbha TPP / LVP Pvt. Ltd. EPC-LANCO	Nov-09	U-1	660	Jul-14	*	6936 / 10433	5338 (Apr-17)
				U-2	660	Nov-14	*		
17	Maharashtra	Nasik TPP Ph-II / Ratan India Nasik Power Pvt. Ltd. BTG-BHEL	Nov-09	U-1	270	Apr-13	*	6789 / 6789	711.81 (Mar-15)
				U-2	270	Jun-13	*		
				U-3	270	Aug-13	*		
				U-4	270	Oct-13	*		
				U-5	270	Dec-13	*		
18	Maharashtra	Bijora Ghanmukh TPP / Jinbhuvish Power Generation Pvt. Ltd. / BTG-Chinese	Sep-11	U-1	300	Dec-16	Uncertain	3189 / 3450	422.27 (Mar-15)
				U-2	300	Mar-17	Uncertain		

S.No	State	Project Name / Impl. Agency/ EPC or BTG	LOA Date/	Unit No	Cap. (MW)	Org. Comm. Sched.	Ant. Comm. Sched.	Original / Latest cost (in Rs.Crores)	Exp. In Rs.crores.
19	Maharashtra	Shirpur TPP ,Shirpur Power Pvt. Ltd.-BHEL	Nov-11	U-2	150	Apr-15	*	2413 / 2413	2383.85 (Nov-17)
20	MP	Gorgi TPP / D.B. Power (MP) Ltd. BTG-BHEL	Mar-11	U-1	660	Jun-13	Uncertain	3941 / 3941	475.79 (Sep-15)
21	MP	Niwari TPP / BLA Power Ltd./ BHEL - Siemens	Apr-11	U-2	45	May-14	Uncertain	232.49 / 250.49	290.01 (Mar-15)
22	Odisha	Ind Barath TPP (Odisha) / Ind Barath /BTG-Cethar Vessels	May-09	U-2	350	Dec-11	Stressed	3150 / 4001	4254 (Apr-17)
23	Odisha	KVK Nilanchal TPP/ KVK Nilanchal / BTG-Harbin China	Nov-09	U-1	350	Dec-11	Uncertain	4990 / 6000	1708.36 (Mar-15)
				U-2	350	Feb-12	Uncertain		
				U-3	350	Feb-12	Uncertain		
24	Odisha	Lanco Babandh TPP / LBP Ltd./ BTG-Chinese	Nov-09	U-1	660	Apr-13	Stressed	6930 / 10430	7615 (Mar-17)
				U-2	660	Aug-13	Stressed		
25	Odisha	Malibrahmani TPP / MPCL/ BTG-BHEL	Jun-10	U-1	525	Dec-12	Uncertain	5093 / 6330	5329.75 (Dec-14)
				U-2	525	Feb-13	Uncertain		
26	TN	Tuticorin TPP (Ind-Barath) / IBPIL / BTG-Chinese	May-10	U-1	660	May-12	19-20	3595 / 3595	2000 (May-15)
27	TN	Tuticorin TPP St-IV / SEPC/ EPC-MEIL (BTG-BHEL)	Jan-14	U-1	525	Sep-18	Dec-19	3514 / 3514	1621.36 (Dec-18)
28	WB	Hiranmaye Energy TPP/ BTG-BHEL.	Sep-10	U-3	150	May-16	*	2656 / 3307	3263.05 (Oct-17)
Total Private Sector					24135				
Grand Total					68681.15				

* Presently work at site is on hold.

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		
			<u>Syn. Com</u>	COD	<u>Syn. Com</u>	COD	
	Central Sector						
1.	Bongaigaon TPS, Distt: Kokrajhar, Assam NTPC Ltd	750					Unit-1: COD achieved on 01/04/2016. Commissioned on 22/06/15(A). 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. TG: Condenser erection started in 2/10. TG erection started in 03/11& boxed up in 04/15.
	U-1	250	11/10 01/11	-	06/15(A) 22/06/15(A)	01/04/16(A)	Unit-2: COD achieved on 01/11/2017. Unit commissioned on 22/03/2017. 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. TG: TG erection started in 01/16. TG Box up completed in 11/16.TG oil flushing completed in 12/16. Synchronization achieved in 02/17.
	U-2	250	03/11 05/11	-	02/17(A) 22/03/17(A)	01/11/17(A)	Unit-3: Unit synchronized on 02.01.19. 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.
	U-3	250	07/11 09/11	-	02.01.19(A) 02/19	02/19	TG: TG deck casting done in 03/16. TG erection started in 10/16. HP, IP module placed. TG boxed up in 03/18.TG put on barring gear.
	Original / Latest cost		: Rs. 437535 Lakhs/ Rs. 674918 Lakhs				Balance of Plant: Chimney: Completed.
	Exp. During 2007-08		: Rs. 23831 Lakhs				CHP: Order placed on M/s McNally Bharat in Jan'10. Both Trippers are ready and coal bunking conveyors commissioned.
	2008-09		: Rs. 16046 lakhs				AHP: Order placed on M/s McNelly Bharat in Jun'09. Unit#3 Bottom Ash trench completed. Fly Ash trench completed. Dry Ash extraction system Silo-1&II commissioned.Ash dyke is ready. Dry ash system resdiness by Feb'19.
	2009-10		: Rs 70913 lakhs				CW: CW pumps commissioned.
	2010-11		: Rs 56300 lakhs				DM plant: DM system is in serivce.DM control rrom building civil work is in progress.
	2011-12		: Rs 137610 Lakhs				FGD: Awarded with SG Package to BHEL.Resolution of Commercial issues between M/s BHEL and OEM of FGD M/s Ducon is awaited.
	2012-13		: Rs. 74900 Lakhs				
	2013-14		Rs. 68500 Lakhs				
	2014-15		: Rs. 65700 Lakhs				
	2015-16		: Rs. 78700 Lakhs				
	2016-17		: Rs. 59100 Lakhs				
	2017-18		: Rs. 50600 Lakhs				
	2018-19		: Rs. 22088 Lakhs (12/18)				
	Cumulative Exp.		: Rs. 722084 lakhs(12/18)				
	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 labour 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. .					

Sl. No.	PROJECT DETAILS	Cap (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. com.	COD	Syn. com.	COD	
	Central Sector						
2.	Barh STPP St-I, Dist: Patna, Bihar (NTPC Ltd.)	1980					Unit-1: Main Plant Boiler: Boiler erection started in 03/11. Boiler Hydro Test completed on 28.02.13. Boiler light up expected by 12/19. Multiple tube leakage observed from super heater and re heater action has been taken for replacement of material. TG: TG erection started in 08/11. TG Box up completed on 28/12/13. 1 st stage of TG oil flushing completed and other works are in progress. 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 expected by 05/20. 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. Balance of Plant (BoP): Chimney: Ready CHP: Erection up to TP-4 completed. Beyond TP-4 erection is in progress. Track hopper & MT 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 pupmps trial taken. Switchyard: Ready FGD: FGD is awarded to BHEL on 18.09.18.Yet to mobilize. Basic Engg ordering in progress.
	U-1	660	03/09 08/09 05/17* 05/17*	06/17	04/20 04/20	8/20	
	U-2	660	01/10 06/10 11/17* 11/17*	12/17	10/20 10/20	02/21	
	U-3	660	11/10 04/11 05/18* 05/18*	06/18	4/21 4/21	8/21	
	(*Revised as per award of balance works of SG package dated 30.01.16)						
	Original/Latest Cost : Rs869300/1509567 lakhs						
	Cum Exp.upto 2009 : Rs 396710 lakhs						
	2009-10 : Rs 69539 lakhs						
	2010-11 : Rs 92200 lakhs						
	2011-12 : Rs 127200 lakhs						
	2012-13 : Rs 143300 lakhs						
	2013-14 : Rs 160100 lakhs						
	2014-15 : Rs 81100 lakhs						
	2015-16 : Rs 116700 lakhs						
	2016-17 : Rs 147400 lakhs						
	2017-18 : Rs. 139500 Lakhs						
	2018-19 : Rs. 717642 Lakhs (12/18)						
	Cumulative Exp : Rs 1527898 lakhs (up to 12/18)						
	Investment Approval : Feb'05						
	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	Multiple failures of Boiler#1 Super heater and Re-heater tubes (DI 59 materials) for which action plan is under finalization for expeditious supply of new materials and restoration of Boiler to move forward. Readiness of railway line 250 km (Hazaribagh-Koderma-Tillaiya Rajaji-Bhaktiyarpur) is critical for transportation of coal. Project would face major coal supply constraints till this line is made operational. Following activities are critical for completion of the coal transportation route. NTPC funded Rs. 664 Crores to Railways for development of following works in envisaged coal transportation route. Construction of Karnauti-Bakhtiyarpur flyover with 3 rd line and surface triangle. ROR portion work is suffering due to encroachment from villagers. Construction of ManpurFlyover (ROR)- Work is suffering in want of land acquisition (apprx 32 Hectares) from State Government. Electrification of Manpur-Tillaiya-Bakhtiyarpur section. Work progress is slow due to land issues faced by Railways. Out of this 250 Km route Koderma-Tillaiya stretch (65 km) is being constructed in three phases,Phase-II (25.2 Km to 49.5 Km from Tillaiya side) work has not yet started as it involves 330 Acres of Forest land in Bihar State and forest clearance for the same is pending. It is required for construction of New Broad Gauge Line from Koderma to Tillaiya. USA has imposed sanction on Power Machines,Russia on 26th Jan'18 which is a major issue for balance supply,erection & commissioning of TG & Aux package.					
	Reasons for Delay	Non-Performance by TPE (SG contract) & M/s PM.					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A) / As now Expected			
			Syn. com.	COD	Syn. com	COD		
	Central Sector							
3.	Nabinagar TPP, Dist: Aurangabad, Bihar [BRBCL-Bhartiya Rail Bijlee Co. Ltd. (JV of NTPC & Indian Railways)]	1000					Unit-1: COD achieved on 15/01/17. Commissioned on 20.03.2016. Boiler: Boiler erection started in 05/11. Boiler drum lifted on 20/10/12. Boiler HT completed on 11.04.2014. BLU done in Mar'15. Chemical cleaning completed on 11.10.15. SBO completed in 01/16. TG: Condenser erection started on 26.2.13. TG erection started in 01/14. TG Box-up done in 12/15. TG oil flushing completed in 12/15. Unit-2: COD achieved on 10/09/17. Unit commissioned on 03.04.2017(A). Boiler: Boiler erection started in Dec'11. Boiler drum lifting completed on 21st Mar'13. Boiler HT completed in 02/15. BLU done in 10/16. TG: TG deck casting completed in 04/15. Condenser erection started in 05/15. TG erection started in 10/15. TG box-up done in 02/17. Unit-3: Commissioned on 23.01.19. Unit Syn on 31.12.18 Boiler: Boiler erection started in 11/11. Boiler drum lifting completed on 10.06.13. Boiler hydro test done on 30.11.16. Trial run completed on 10.02.19. TG: TG erection started in 06/16. TG box-up done in 3/18. TG Deck floating work started on 28/08/18 Unit-4: Boiler: Boiler erection started in 12/12. Boiler drum lifting completed on 16.09.13. TG: TG columns work in progress. TG erection start expected by 03/19. Balance of Plant: • Chimney: Chimney-1(for U-1&2) ready. Chimney #2 (for U-3&4) shell casting completed. Flue can erection completed for U-3. • CHP: Coal feeding in progress at both 2A & 2B Side. WT1 – Commissioned on 25.12.18. SR-2 Bal foundation civil work i/p. • AHP (Indure): AWPB, Ash slurry Trench has been completed, Compressor house comm. U-3 BAH completed.Clinker grinder work is u/p. • CW Pump house: Forebay 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 completedand fan trail taken.. IDCT-4 cells (08/20) in progress. • PT palnt: Completed in all respect. • DM plant: DM plamnt comm. DM lab building civil work is i/p. CW treatment is i/p. • FOHS: LDO tanks commissioned. HFO tank work isi/p.	
	U-1	250	08/10* 10/10* 12/12** 02/13**	06/13	03/16(A) 20/03/16(A)	15/01/17(A)		
	U-2	250	02/11* 04/11* 03/13** 05/13**	10/13	03/17(A) 30/04/17(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)	03/19		
	U-4	250	02/12* 04/12* 09/13** 11/13** (* Org / ** Rev)	06/14	07/19 08/19	10/19		
	Original/Latest. Cost		Rs 535251 /799800 lakhs					
	Exp. During	2007-08 : Rs 26319 lakhs 2008-09 : Rs 6837 lakhs 2009-10 : Rs 19617 lakhs 2010-11 : Rs 22680 lakhs 2011-12 : Rs 48713 lakhs 2012-13 : Rs109668 lakhs 2013-14 : Rs130068 lakhs 2014-15 : Rs 90604 lakhs 2015-16 : Rs 92777 lakhs 2016-17 : Rs 92409 lakhs 2017-18 : Rs 70571 lakhs 2018-19 : Rs 43869 lakhs (12/18)						
	Total Expenditure		Rs 756735 lakhs (12/18)					
	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	Unit-2:SG Supplies, Poor mobilization by M/s ERA (main plant civil agency); Unit-3:Boiler erection, Land availability for ESP;Unit-4:Structural material to be expedited, Land availability for ESP; Land acquisition issues :out of 1526.873 acres, 1392.628 acres is in physical possession) for makeup water corridor, railway siding & critical patches inside plant and ash dyke due to unwillingness of people to accept compensation; Frequent bandhs/Local agitation by villagers.					
	Reasons for Delay	Delay in land acquisition, Civil Works, SG Supplies, Frequent bandhs/Local agitation by villagers						

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / Anticipated		
			Syn. com.	COD	Syn. com	COD	
	Central Sector						
4.	New Nabinagar STPP, Dist.: Aurangabad, Bihar [NPGCPL- Nabinagar Power Generating Co. Pvt. Ltd. (JV of NTPC & BSPGCL)]	1980					Unit-1: Unit 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 . 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 06/17. Unit-3: Boiler erection started on 29.04.2015. Hydro test expected in 2/19. TG: TG erection started on 31.07.17. TG boxup completed in 06/18. BOPs: • Chimney: Chimney-1(Unit-1) & Chimney-2 (Unit-2&3) shell casting completed. Flue can erection completed for U-1, 2 & 3. • 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. Crusher house, Stacker cum reclaimers, Crusher house work has been completed. Wagon tippler work is u/p. • AHP: Fly Ash water pump house work completed.BASPH motors no load trail run completed. Bottom ash hopper U#2 column work in progress.HCSD silo and other work is u/p. • DM plant: Order placed on M/s Thermax in Jan'14. All the three streams charged manually. Work for two streams completed for auto mpde. • CW pump house: CW pump 1,2,3&4 load trail done.RWPH2/3PT pump comm.CWPh 2/2 mototrs trail done. • IDCTs: Order placed on M/s Fans. CT # 1A:- Motor trial run in progress CT # 1B:- commissioned. CT # 2A:- Piping work completed. Equip erection is i/p.CT # 2B:- Civil work completed.. CT # 3A:-16 /16 Deck Slab completed. CT # 3B:-Column up to lev – 1,12 cells completed. CT # AUX:- Commissioning completed MCC-1/CR: Panel charged on 23.09.17 MCC-2&3:- u/p. • Switchyard: 132kV line charged.400kV switchyard charged..Power evacuation line(400kV) nabinagar-Gaya line charged • FGD: Under bulk tendering process by NTPC Ltd. BOD in June 2018.
U-1	660	11/16 01/17	05/17	14/01/19(A) 03/19	03/19		
U-2	660	05/17 07/17	11/17	=	09/19		
U-3	660	11/17 01/18	05/18	=	08/20		
Orig.Cost/Latest Cost		Rs 13624.02 Cr/15131.67 Crores					
Exp. During 2008-09		Rs 10 lakhs					
2009-10		Rs 22290 lakhs					
2010-11		Rs 8300 lakhs					
2011-12		Rs 38392 lakhs					
2012-13		Rs 71117 lakhs					
2013-14		Rs 36991 lakhs					
2014-15		Rs 153432 lakhs					
2015-16		Rs 269712 lakhs					
2016-17		Rs 307000 lakhs					
2017-18		Rs 226500 lakhs					
2018-19		Rs 125691 lakhs					
Cum. Exp up to 03/18		Rs 1259435 lakhs (12/18)					
Investment Approval		31.01.2013(Jan'13)					
Sanctioning Authority		NTPC Board					
Type of fuel/FSA		: Coal. Coal linkage from CCL for 7.03Million Ton Per Annum. For commissioning coal 2 Lakh MT MOU has been signed. FSA will be signed after unit commissioning as per guideline.					
Zero Date		: 31.01.2013					
Date of Main Plant Order		TG –M/s ALSTOM-Bharat Forge on 31.03.2013. SG-Awarded to M/s BHEL on 31.01.2013.					
Financial Closure		loan from REC. Debt, equity ratio is 70:30. NOC from BSPCB received on 08.04.2011					
Main plant order		Boiler erection agency: U-1&3 – Powermech and U-2 is Indwell.					
MOEF clearance received in Dec 2010. Mega status received in Apr'09.							
Power Purchase Agreement :- (Bihar/BSEB:-1552.5 MW signed on21.01.10, Jharkhand:- 60 MWsigned on 01.12.10, Sikkim :-10 MW signed on 28.09.10,UP:-209 MWsigned 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. CHP:- Crusher House:-04/04 crushers alignment, Floor casting Civil work & Structure Erection completed. Conveyor Galley- 2A/B,3A/B,4A/B, 5A/B, 6A/B,7A/B structure erection completed. Wagon Tippler: WT3- Civil work completed. Mechanical erection in progress.Side arm charger erection completed. WT 1-2- Apron feeder raft and slab (-10.5m) completed TP-1 0Mtr floor Casting completed on 22.04.18 Track Hopper: - 0.0m slab for seg-9, 8, 7, 6, 5, 4&3 completed. Hopper for Seg-8 & 9 completed							
Critical Areas		Land acquisition for MUW corridor (9.78 Acres), outfall drainage corridor (19.44 Acres) total 29.22 acres					
Reasons for Delay		Acquisition of balance land and relocation of homestead owners still living inside the project area.					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. com.	COD	Syn. com	COD	
	Central Sector						
5.	Lara STPP, Dist: Raigarh, Chhattisgarh (NTPC Ltd.)	1600					<u>Unit-1:</u> Unit commissioned on 22/03/18. Synchronized on oil on 09/09/17. Boiler: Boiler erection started on 23/12/13. Boiler Hydro test done on 12/15.BLU done in 01/17.SBO completion done in 05/17. TG: Condenser erection started on 29.05.2015 and TG erection started in 08/15.TG box-up done in 02/17. TG oil flushing completed in 07/17. ESP: 05 out of 06 passes of ESP erection completed.
	U-1	800	09/16 11/16	03/17	09/09/17(A) 22/03/18(A)	-	
	U-2	800	03/17 05/17	09/17	05/19 6/19	09/19	
	Investment Approval	: 07.11.2012					
	Sanctioning Authority	: NTPC Board					
	Orig.Est. cost	: Rs 1184600 lakhs					
	Latest.Est. Cost	: Rs 1184600 lakhs					
	Exp.During 2011-12	: Rs 28000 Lakhs					
	2012-13	: Rs 77300 Lakhs					
	2013-14	: Rs 53500 Lakhs.					
	2014-15	: Rs 214700 Lakhs.					
	2015-16	: Rs 238300 Lakhs					
	2016-17	: Rs 190000 Lakhs					
	2017-18	: Rs. 151200Lakhs					
2018-19	: Rs 105228 Lakhs (12/18)						
Cum Exp	: Rs 1083146 lakhs (up to 12/18)						
Type of fuel	: Coal						
Fuel linkage							
Date of Main Plant Order (BTG)	SG- M/s Doosan, in Dec'12						
Zero Date	TG - M/s BGR Hitachi in Dec'12						
Power Evacuation	13.12.2012						
	There are two nos. of D/c evacuation lines from Lara switchyard, each line is capable of evacuating around 1000 MW. One line is going to Champa and the other going to Kotra. Tower erection, stringing of one line near to the plant is completed and for the other line stringing is to be done.						
	Critical Areas	Delay in completion of site priority infrastructures i.e. road & drain etc. and balance earthwork at water reservoir #2, in plant MGR area etc. State Govt. help (GoCG commitment given during PRAGATI Meeting held in Feb'16 for LA is May'2016: Not attained) solicited in acquisition of Land for MGR route, balance left out land in Plant/Township area, MuW pipe corridor & pump house, Permanent approach road, Dolomite mining area in reservoir-II/ Ash Dyke etc. Balance payment to be disbursed where Sec-23 (award) is done and also award of balance 3 villages to be expedited. Tree cutting in Villages where approval received needs to be expedited.					
	Reasons for Delay	Slow progress of TG side civil works, Delay in supplies of Generator Transformer, supply of BFP discharge piping, Delay in land acquisition. Delay in TDBFP readiness for U-1, Delay in Boiler auxiliaries for U-2 BLU					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A) / As now Expected			
			Syn. com.	COD	Syn. com	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 1/19. TG: TG erection started in 11/17. TG Boxup expected in 03/19. Unit-2: Boiler: Boiler erection started in 07/16. Hydro test expected in 02/19. TG: TG erection started in 01/18. Boxup expected in 08/19 Unit-3: Boiler: Boiler erection started in 06/17. TG: TG civil work started in 06/16. TG erection start expected in 02/19. BOP: Chimney: U-1 flue can erection in progress. U-2 beam erection in progress. U-3 chimney shell 253 mtr. 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. FGD: Awarded to BHEL on31.07.18	
	Unit-1	660	12/17 02/18 02/19* 02/19*	04/19	09/19 10/19	4/20		
	Unit-2	660	06/18 08/18 08/19* 08/19*	10/19	02/20 04/20	10/20		
	Unit-3	660	12/18 02/19 02/20* 02/20*	04/20	08/20 10/20	04/21		
			* Revised Schedule.					
	Original /Latest Cost		: Rs 1436658 Lakhs					
	Exped. during2013-14		: Rs. 153000 lakhs					
	2014-15		: Rs. 52500 lakhs					
	2015-16		: Rs 57300 lakhs					
	2016-17		: Rs 220800 lakhs					
	2017-18		: Rs 204200 Lakhs					
	2018-19		: Rs. 99807 Lakhs (12/18)					
Cumulative Exp		: Rs. 791641 lakhs (up to 12/18)						
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) in Feb'14. Main plant civil works awarded on BHEL/Sunil Hitech.						
Amendment to EC issued by MOEF on 31.10.2014 for use of Air Cooled Condenser system (one ACC for each unit).								
Critical Areas		Balance land acquisition (53.03 Acres), Lease transfer of 704 Acres of Govt. land, water system package, Switchyard transmission system by BHEL, ATS/Start up power, No objection certificate from MoC is required for start of transmission line works for startup power readiness by Dec 2018.						
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.						

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. com.	COD	Syn. com	COD	
	Central Sector						
7.	Kudgi STPP ST-I, Dist: Bijapur, Karnataka, NTPC Ltd.	2400					Unit-1: COD achieved on 31/07/17. Commissioned on 25/12/16. 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.
	U-1	800	09/15 12/15	04/16	12/16 25/12/16(A)	31/07/17(A)	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.
	U-2	800	03/16 06/16	10/16	03/17 22/03/17(A)	31.12.17(A)	Full Load achieved on 25.12.2016.
	U-3	800	09/16 12/16	04/17	08/17(A) 12/03/18(A)	-	Unit-2: COD achieved on 31/12/17. Commissioned on 22/03/17. 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.
	Orig.Est. cost	: Rs 1516619 lakhs					
	Latest.Est. Cost	: Rs 1516619 lakhs					
	Exp.During 2011-12	: Rs 19200 lakhs					
	2012-13	: Rs 130400 lakhs					
	2013-14	: Rs 227700 Lakhs.					
	2014-15	: Rs 404700 Lakhs.					
	2015-16	: Rs 280000 Lakhs					
	2016-17	: Rs 256000 Lakhs					
	2017-18	: Rs. 209800 Lakhs (2/18)					
	Cum Exp	:Rs 1508600 lakhs(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					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. com.	COD	Syn. com	COD	
	Central Sector						
8.	Solapur STPP, Dist: Solapur, Maharashtra, NTPC Ltd.	1320					<u>Unit-1:</u> COD achieved on 25/9/17. Commissioned on 07/04/17.
	U-1	660	03/16 05/16	07/16	03/17(A) 07/04/17(A)	25/09/17(A)	Boiler: Boiler erection started on 07 th May’13. Boiler hydro test done in 12/15. BLU done on 21.08.16. SBO completed in 03/17.
	U-2	660	09/16 11/16	01/17	02/19 03/19	03/19	TG: TG erection started on 04.07.14. TG box-up completed in 07/15. TG oil flushing completed in 11/15.
	Investment Approval	: March’12					
	Sanctioning Authority	: NTPC Board					
	Orig.Est. cost	: Rs939518 lakhs					
	Latest.Est. Cost	: Rs 939518 lakhs					
	Exp.During 2011-12	: Rs 9500 lakhs					
	2012-13	: Rs 114200 Lakhs					
	2013-14	: Rs 98300 Lakhs					
	2014-15	: Rs 212800 Lakhs					
	2015-16	: Rs 166800 Lakhs					
	2016-17	: Rs 132600 Lakhs					
	2017-18	: Rs. 92500Lakhs					
2018-19	: Rs. 40991 Lakhs (12/18)						
	Cum Exp	:Rs 902643 Lakhs (upto 12/18)					
	Type of fuel	: Coal					
	Date of Main Plant Order (BTG)	SG : 06.04.12 on M/s BGR Energy Systems Ltd – Hitachi TG : 23.04.12 on M/s Alstom-Bharat Forge					
	Zero date	19.03.2012					
	Critical Areas	Delay in Laying of Make Up Water Pipe line due to No Right of Use Act in Maharashtra. Delay in SG supplies by BGR-Hitachi and resource augmentation. Resources augmentation by M/s Indure, for CHP & AHP packages. Major damage in Pressure parts and support structure (9nos hdrs, buckstays, springs, etc) and delay in rectification and replacement by BGR. Rectification work started in May -17 but work progress is very slow. Expediting Supply of U#2 Boiler components & BOIs by BGR Energy- Systems Ltd. & Hitachi Power Europe, Supply of Structures & BOIs/SMIs by M/s. Indure for AHP and CHP Packages. Supply of FDA and inert gas nozzles & detectors by M/s Sureland for FDPS Package. Due to resistance from farmers, seeking higher compensation than as recommended by state revenue/agriculture deptt., the Completion of MUWPH 132 KV line is getting delayed.					
	Reasons for Delay	Delay in steam generator Engineering & supply by BGR due to non-settlement of QSGM between BGR and Hitachi.Delay in repair & replacement of damaged pressure parts due to accident.					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A) / As now Expected			
			Syn. com.	COD	Syn. com	COD		
	Central Sector							
9.	Gadarwara STPP, St-I, Dist: Narsinghpur M.P NTPC Ltd.tanda	1600					Unit-1: Full load is achieved on 13.10.18. Synchronisation is achieved on 30.08.18 Boiler: Boiler erection started in 06/14. HT done in 12/16. BLU achieved in 04/17. SBO completed in July'17. ESP: All six pass erection completed and emitter's erection is in progress. Hopper erection completed. TG: Condenser erection started in 12/15. TG erection started in 04/16. TG box-up completed in 08/17.TG oil flushing completed in 09/17. Unit-2: Boiler: Boiler erection started in 30 th Nov'14. Pressure part erection in progress. HT completed in 11/17. BLU completed on 31.12.18 ESP: Pass A, B & C erection completed and foundation work of D, E & F passes completed. TG: TG erection started in 06/17. TG Box-up completed in 11/18. BOPs: Chimney: Unit-1 work done. U-2 Mini shell work in progress. Unit-2 flue can erection done. CHP: .Both stream from WT-3 upto U1 tipper floor comm.One stacker reclaimers comm. AHP: Silos piling work completed. HCSD pump foundation completed. U-1 Bottom ash evacuation with 2nos ash slurry series completed upto ash yke. Flyash evacuation for all passes completed upto HCSD silo PT Plant: All three CW streams commissioned. DM Plant: Both stream of DM water commissioned. CWPs: All 5nos CW pumps erection done. 2 Pumps for U-1 commissioned. IDCTs: CT-1: All 28 nos fan erection done. CT-1 taken into service. CT-2: RCC works in wall, columns and fan deck level in progress. Switch Yard: 132KV tower erection completed and charged. 765KV Jabalpur line charged. FGD: FGD is awarded to ISGEC on 18.09.18.Drawing approval i/p.	
	U-1	800	12/16 03/17	07/17	30/08/18(A) 13/10/18(A)	03/19		
	U-2	800	06/17 09/17	01/18	05/19 06/19	09/19		
	Investment Approval	22.02.2013						
	Sanctioning Authority	NTPC Board						
	Orig.Est. cost	Rs 1163855 lakhs						
	Latest.Est. Cost	Rs 1163855 lakhs.						
	Exp.During 2012-13	Rs 65500 Lakhs						
	2013-14	Rs 46300 Lakhs						
	2014-15	Rs 161400 Lakhs						
	2015-16	Rs 274900 Lakhs						
	2016-17	Rs 198800 Lakhs						
	2017-18	Rs 155600 Lakhs						
2018-19	Rs 131450 Lakhs (12/18)							
Cumulative Exp	: Rs 1037532 Lakhs(upto 12 /18)							
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	Slow progress of Civil Agencyh (B&R) has delay release of fronts to Main Plant SG & TG erection, BoP Packages and completion of Site priority infrastructures, i.e. road & drain, Boundary wall etc. State Government's help is solicited in acquisition of balance Land for Railway line corridor and obtaining RoU for Make-up Water Pipe laying. Allocation of dedicated Coal block & supply of coal, Chandrabila coal block (Odisha) linked to Gadarwara Project was deallocated and new coal block allocation/coal linkage yet to be firmed by MoC.						
	Reasons for Delay	Work stopped for 56 daysin 2014 due to agitation by villagers demanding additional compensation for already acquired land. Land acquisition for railway line corridor, RoU for MuW pipeline laying.,						

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A) / As now Expected			
			Syn. (com.)	COD	Syn. (com)	COD		
	Central Sector							
10.	Khargone STPP, Dist.Khargone, M.P. (NTPC Ltd.)	1320					Unit-1: Boiler: Boiler erection started in 04/16. Boiler Hydro test done on 24.6.18.BLU completed on 29.12.18 TG: TG erection started in 06/17. TG Box-up done on 29.05.18. TG oil flushing comleted on 27.01.19.	
	Unit-1	660	01/19 03/19	07/19	03/19 03/19	07/19		
	Unit-2	660	07/19 09/19	01/20	07/19 09/19	11/19		
	Original/Latest Cost		Rs 987051/987051 lakhs					Unit-2: Boiler: Boiler erection to started in 09/16.Pressure part erection in progress. Boiler Hydro test completed on 30/ 09/18.
	Exp. During 2014-15		: Rs. 63400 lakhs					TG: TG erection started in 12/17. TG Box-up done on27.11.18. ESP: pass E air leak test successfully completed on 16.08.18. pass F air leak test successfully completed on 12.09.18.
	2015-16		: Rs. 90200 lakhs					
	2016-17		: Rs. 112400 lakhs					
	2017-18		: Rs. 243900 Lakhs					
	2018-19		: Rs 161107 Lakhs (12/18)					
	Cumulative Exp		: Rs 669390 lakhs(up to 12/18)					
Type of fuel		: Coal						
Zero date		31.03.2015						
Date of Main Plant Order		EPC On L&T on 31.03.2015						
								BOPs: CHP: M/s. L&T. 8178/9386 MT completed. Wagon Tippler Equipment erection 902/950 MT completed. AHP: AHP structure 2162/3960 MT completed AHP equip. erection 604/1645 MT completed. work in u/p. Cooling Tower: IDCT-1- RCC Super structutre-completed, IDCT-2- RCC super structure 7053/8179 MT Chimney: Shell completed and flue can erection in progress. Switchyard: 400 kV GIS charged through LILO system on 06.07.18. FGD: Awarded to L&T on 31.07.2018
Critical Areas		Broad gauge work from Khandwa to Nimarkheri (Take off point for Railway siding) by Western railways. Disbursement of compensation amount to balance beneficiaries of RoW who are not accepting the compensation amount, for laying of 66KV transmission line from plant to make up water pump house location.						
Reasons for Delay		---						

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A) / As now Expected			
			Syn. (com.)	COD	Syn. (com)	COD		
	Central Sector							
11.	Darlipalli STPP ST-I, Dist. Sundergarh, Odisha (NTPC Ltd.)	1600					Unit-1: Boiler: Boiler erection started in 04/15. HT completed in 8/17. BLU completed in 11/18. Steam blowing completed in 02/19. TG: Condenser erection started in 12/15. TG erection started in 05/16.TG box-up done in 11/17.TG oil flushing done in 11/18. ESP: All passes completed. Unit-2: Boiler: Boiler erection started in 07/15. HT done in 03/18. TG: Condenser erection started in 09/16. TG erection started in 03/17. TG Box-up expected in 02/19. ESP: 5 passes are completed. Internal erection is in progress BOPs: Chimney: raft completed. CHP: Order placed on Tata projects in Feb’15. Civil work in Track hopper, Wagon tippler ,erection work in TPs, Crusher house stacker reclaimr in progress AHP: Order placed on Indure in Oct’14. Structural work at bottom ash hopper, ASPH and AWPB in progress. Supp:y from indure is pending. PT/DM Plant: Order for water treatment plant placed on Triveni Engineering in Feb’15. One stream for DM water generation is ready. CWPs: Order for CW equipment placed on Kirloskar Brothers Ltd in Oct’14. Equipment supplies done.work in progress. CT: Order placed on L&T, ECC in Dec’14. Unit 1 & 2 Cooling tower work in progress. Switchyard: 765kV one bay and 132kV switchyard charged for startup power. FGD: FGD is awarded to L&T on 18.09.18.site mobilasation being done.	
	U-1	800	12/17 02/18	04/18	03/19 05/19	05/19		
	U-2	800	04/18 06/18	08/18	10/19 11/19	11/19		
	Investment. approval							
	Orig.Est. cost	Rs 1253244 lakhs						
	Latest. Est. Cost	Rs 1253244 lakhs.						
	Exp. During 2013-14	:Rs.95100 lakhs						
	2014-15	:Rs145700 lakhs						
	2015-16	:Rs141700 lakhs						
	2016-17	:Rs 238400 lakhs						
	2017-18	:Rs 210000 lakhs						
2018-19	:Rs 93774 lakhs (12/18)							
Cumulative Exp	:Rs. 844141 lakhs (up to 12/18)							
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							

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			<u>Syn. com.</u>	COD	<u>Syn. com</u>	COD	
	Central Sector						
12.	Telangana TPP (Ph-I), Dist. Karim Nagar Telangana NTPC Ltd.	1600					Unit-1: Boiler: Boiler erection started in 12/17.8 th Tier erection in progress.
	Unit-1	800	<u>10/19</u> 01/20	05/20	<u>03/20</u> 04/20	08/20	
	Unit-2	800	<u>05/20</u> 07/20	11/20	<u>09/20</u> 10/20	01/21	TG: Condenser erection started in 07/18. TG erection started in 08/18. ESP: erection in 6 passes in progress.
	Orig.Est. cost	Rs 1059900 lakhs					
	Latest.Est. Cost	Rs 1059900 lakhs					
	Exp. During 2015-16	: Rs. 600 lakhs					
	2016-17	: Rs 80700 lakhs					
	2017-18	: Rs. 103500 lakhs					
	2018-19	: Rs. 140515 lakhs (12/18)					
Cumulative Exp	: Rs. 327235 lakhs(up to 12/18)						
Type of fuel	Coal						
Date of Main Plant: Order: Zero date MOEF clearance	SG on BHEL TG on Alstom-Bharatforge on 05.02.16. 31.03.2015						
							Unit-2: Boiler: Boiler erection started in 12/17.4 th Tier erection in progress TG: Condenser erection start expected in 02/19. TG erection start expected in 03/19 ESP: erection in 6 passes in progress. BOPs: CHP: TPs and Coveyor foundation in progress Chimney: shell completed upto 45 mtr. CW duct encasement near Transformer Yard done, Balance CW duct civil and fabrication/erection works in progress. Track hopper: Wall lift work in progress. WT#1,2 and 3 –Raft completed, Wall RCC works in progress. CT#1 footing casting in progress. WTP area-DM Tank & CW clarifier excavation RCC civil works in progress. Ash Dyke: Protective bund and reservoir earth work in progress. FGD: Awarded to M/s GE On04.01.18. Foundation work in u/p.
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.					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. com.	COD	Syn. com	COD	
	Central Sector						
13.	Meja STPP, Dist:Allahabad, U.P.[MUNPL- Meja Urja Nigam Pvt. Ltd. (JV of NTPC & UPRVUNL)]	1320					Unit-1: Commissione on 31/03/18. Synchronised 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. Unit-2: Boiler: Boiler erection started on 20.06.14 (Delay 06 months). All mill and bunker foundations completed. TG: TG Deck casting completed. Condenser erection started in 11/15. TG erection started on 30/01/18. ESP: U #1- All Pass ATT & purge system piping done. Insulation & cladding works for A,B & C pass completed. 62/96 rectifier transformer filtration done. A,B pass field test charged. U#2- Erection commenced on 19.02.15 BOPs: Chimney: Chimney shell concreting completed. Flue can erection & Mini cell done completed, Outer platform RCC done. Painting works done. Wind stack fixing -6/39 done, Lift erected. CHP: Order placed on BHEL-ISG in Apr' 12. Structure erection of TP-1,2,3,4,5,11 &12 completed and CRUSHER house in progress. WT-B: Flushing completed of WT-2 WT-A: Oil flushing -Piping work i/p. AHP: Order placed on Techpro in 07/12. Ash Water P/H. Pumps foundations completed. Ash Slurry P/H- -RCC & Bricks works completed. Pumps foundations completed. Pump erection started. Ash disposal pipe laying in side plant- -Pipe Laying started in May'16 inside plant. 25 Km pipe supplied. Inside pipe laying done CWPs: Order placed on Flowmore in 12/14. Gantry commissioned. Two nos 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 nos fan commissioned, Balance cabling works in progress. Civil works completed, fill erection done, motor & gear box placed on fdns. Painting & drift eliminators works compld. 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. Start up Power charged by Allahabad line-1 on 12.11.16 FGD: Bid opened and under evaluation.
U-1	660	04/16 06/16	08/16	23/08/17(A) 31/3/18(A)	-		
U-2	660	10/16 12/16	02/17	06/19 08/19	08/19		
Original/Latest Cost		Rs 1082100 /1082100 lakhs					
Exp.During 2008-09		Rs 5401 lakhs					
2009-10		Rs 4151 lakhs					
2010-11		Rs 6143 lakhs					
2011-12		Rs 6542 lakhs					
2012-13		Rs 86287 lakhs					
2013-14		Rs 56590 lakhs					
2014-15		Rs 162420 lakhs					
2015-16		Rs 180386 lakhs					
2016-17		Rs 71583 lakhs					
2017-18		Rs 200597 lakhs					
2018-19		Rs 555.15 lakhs					
Cumulative Exp.		Rs 846400 lakhs (Up to 8/18)					
Type of fuel		Coal					
Zero Date		30.04.2012					
Sanctioning Authority		NTPC Board					
Date of Main Plant Order (BTG)		SG: 30.04.12 on M/s BGR Energy Systems, Chennai. TG: 01.05.12 on M/s Toshiba Corporation, Japan.					
MOE&F clearance available on 10.01.11. Environment Clearance for Project extended up to 31.03.2019 by MOEF on 30.08.2018							
Critical Areas		Balance land for railway siding-Village Lehdi 22.12 acres for laying 1.8 km track & Other 0.75 KM in assorted patches in different villages. Various Clearances from Indian Railway and DFCIL to be taken by Rites at the earliest: ·Clearance from Railways for Connection of Meja Siding with IR Tracks at Meja and Unchdih. Approval of Girder Launching Scheme for ROR & Block for launching from Railways. Approval of General Arrangement Drawing (GAD) of Rail Over Rail Bridge (ROR) and ViaDuct from Railways. ·Approval of Girder Launching Scheme for ROR & Block for launching from Railways. Shifting of UPTCL and Power Grid Transmission lines 4 nos each 132/400 KV.					
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.					

Sl. No.	PROJECT DETAILS	Capaci ty (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. com.	COD	Syn. com	COD	
	Central Sector						
14	Tanda-II STPP, Dist. Ambedkar Nagar, U.P. NTPC Ltd.	1320					Unit-5: Boiler: Boiler erection started in 12/15. Hydro test done on 20/04/18.BLU completed on 31.12.18
	U-5	660	07/18 09/18	01/19	03/19 03/19	07/19	TG: Condenser erection started in 03/17. TG erection started in 07/17. TG Boxed up in 03/18.TG Oil flushing is completed in 09/18.
	U-6	660	01/19 03/19	07/19	09/19 09/19	11/19	ESP: ESP is having 6 Passes; work is in progress for all passes
	Original/Latest Cost		: Rs 918898 /918898 lakhs.				
	Exp. During 2013-14		: Rs 28000 lakhs				
	2014-15		: Rs.29800 lakhs				
	2015-16		: Rs 64900 lakhs				
	2016-17		: Rs 141300 lakhs				
	2017-18		: Rs 167112 Lakhs				
	2018-19		: Rs 102543 Lakhs (12/18)				
	Cumulative Exp		: Rs 543365 lakhs (up to 12/18)				
	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.				
	BOPs: Chimney: Order placed on GDCL in 02/15. Work is in progress. CHP: Order placed on L&T in 12/15. Piling works 1413/1413 completed. RCC under progress (14692/30048 Cum completed). AHP: Order placed on L&T in 03/16. Civil works under progress. Mech erection started in AWPB. DM Plant: Order placed on Driplex in 08/15.Civil and Mechanical work completed. CWPs: Order for CW system equipment placed on KBL in Jun'15.erection of pumps is in progress. NDCTs: Order placed on L&T in 10/15.U-5 shell casting completed.,Grillage column completed. U-6 Grillage column 951/1567 lifts done. FGD: FGD is awarded to GE on 21.09.18.Mobilisation is u/p.						
	Critical Areas		Tapering coal linkage, physical possession of balance abadi land in main plant & Ash dyke area.				
Reasons for Delay		Poor mobilization by civil agency, Delay in Engg. & Supply.					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. com.	COD	Syn. com	COD	
	Central Sector						
15.	PatratuTPS, Imp.Agency-PVUNL Dist: Jharkhand. (JV of NTPC & Govt. of Jharkhand)]	2400					Unit-1: Boiler: Work yet ot be Start. TG: Unit-2: Boiler: Work yet ot be Start. TG: BOPs: Chimney: Chimney#1Work started on20.07.18, Excavation Completed on11.09.08, PCC completed on 20.09.18.6 th segment casting completed.. Chimney#2 work started on 20.07.18. 370/810MT bar erection done. CHP: AHP: CWPs: IDCTs: Switchyard: Transmission line shifting work started on 14.09.18. FGD: order palced to BHEL on 08.03.18. Work is yet to start.
U-1	800	11/21 01/22	03/22	-	-		
U-2	800	05/22 06/22	11/22	-	-		
U-3	800	11/22 12/22	03/23	-	-		
Original/Latest Cost		Rs 1866800 / lakhs					
Exp.During 2017-18		Rs 99211 lakhs					
Exp.During 2018-19		Rs 48518 lakhs					
Cumulative Exp.		Rs 147729 lakhs(11/18)					
Type of fuel		Coal					
Zero Date							
Date of Main Plant Order (BTG)		BTG and Main Plant Civil &BTG Awarded to BHEL on 08.03.18					
MOE&F clearance							
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 Early accordance of permanent township environment clearance y SEIAA GR from JUSNL					
Reasons for Delay							

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A) / As now Expected			
			Syn. com.	COD	Syn. com	COD		
	Central Sector							
9.	Rourkela PP-II Expansion,Odisha	250					Unit-1: Boiler: Boiler erection started on 30.03.17. Boiler drum lifted on 04.11.17. Hydro Test (drainable) done on 08.09.18. ESP: 2352/4000MT erection done. Pass A Hopper erection u/p.Pass B shock bar hawk bolting completed. Pass C suspension hangers for electrodes erection inprogress. Pass D erection is u/p. TG: TG civil work started on 02.03.17. Condenser erection started on 28.12.17. TG erection started on 27.11. 18. BOPs: Chimney: shell casting completed on 30.03.18. Beam erection Is u/p. CHP: ERH-1 lift wall cast done and penthouse roof slab casted. Final lift wall cast hopper beam shuttering in progress.ERH-2 wall along with hopper casting completed. and penthouse roof slab casted. Crusher house erection is u/p. AHP: AHP control room, compressor house cum AWPB roof slab cast on 29.12.18 PT Plant: Preparatory work for starting civil work being done. Clarified water storage tank raft cst done. DM Plant: Main Foundation completed, erection of DM tank to start shortly. CWPs: CWPB feed pool wall final lift, Intermediate drop wall& tie beam cast. IDCTs: CT cell 1 to 5 bottom slab cast & Cell 5 beam at curve level done. Switch Yard: GIS control room and GIS building Plinth beam casting completed. FGD: Under tendering process.NIT done on 31.08.18. OBD(Tech) done on 04.12.18.	
	U-1	250	- 09/18	12/18	- 09/19	11/19		
	Investment Approval	14.09.15						
	Orig.Est. cost	Rs 188513 lakhs						
	Latest.Est. Cost	Rs 188513 lakhs						
	Exp.During							
	2016-17	Rs 23751 Lakhs						
	2017-18	Rs 51581 Lakhs						
	2018-19	Rs 32806 Lakhs (01/19)						
Cumulative Exp	: Rs 108138 Lakhs(upto 01/19)							
Type of fuel	Coal							
Fuel linkage	Applied on 14.05.18 under Shakti Scheme							
Date of Main Plant Order (BTG)	BTG and EPC contracted to M/s BHELincluding offsite civil works, order placed on 11.05.16							
	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							

Sl. No.	Project Details	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A)/ As Expected			
			Syn. Comm	COD	Syn. Comm	COD		
Central Sector								
1	Neyveli New TPP M/s Neyveli Lignite Corporation Ltd. at Neyveli in Tamil Nadu	1000					• Boiler (M/s BHEL) U-1 Erection commenced on 07/03/16. HT done in 08/18. ESP, Duct and ID fans erection work in progress. • TG & Condenser: TG erection started on 24/03/16 & Condenser pre assembly started on 22/02/16. Generator stator received at site on 25/06/16. BFP (MD) erection completed. Turbine box-up completed on 31.03.17. Synchronisation on Oil is expected in 03/19. • Boiler U-2 Erection commenced on 28/03/16. HT done in 11/18 ESP, Duct and ID fans erection work in progress. • TG & Condenser: TG erection started on 24.03.16. TG Box-up completed on 30.06.17 BOPs • Chimney: Shell concreting up to 269.5 mtrs completed. Flue can erection work completed for U-I and II. Borosilicate lining liner works are in Progress. External painting completed. • LHP: BCN 2, 4 & 5 trial run completed. BCN-IOB alignment completed and BCN-11A/B Erection work is under progress. Belt layins completed in RSFD {1A,18, 2A, 2B), sFD (1A, 1B), RBF (1A, 1B), & SFD (2A & 28). • AHP- PLC commissioning work is in progress. • RO/DM plant: Awarded to M/s EPIL on 30/04/14. Civil works are in progress. DM Plant erection work completed. 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. CW pipes erection 1301/1546 RM (for both units) work completed. Initial operation completed and plant in service. • Cooling Tower: Shell casting reached full height of 135.34 Mtrs. Fills erection work completed. Mechanical erection completed and commissioned. • FO System: Awarded to M/s BHEL on 31/10/13, civil work completed. Erecting HFO tank 1 & 2 are nearing completion and LDO tank 1 & 2 erection completed. Supply & erection of LDO & HFO pumps completed. • Switchyard: Awarded to M/s EPIL on 30/04/14. Civil works are in progress both in 200 Kv GIS and 400 Kv GIS halls. 220 kV outdoor yard equipment structural erection work completed.230 kV LILO work is in progress by TANTRANSCO. • FGD : Retendering is under progress	
	U-1	500	07/17 09/17	10/17	02/19 03/19	03/19		
	U-2	500	01/18 03/18	04/18	03/19 04/19	04/19		
	Original Estd. Cost		: Rs. 590711 Lakh					
	Latest Est. Cost		: Rs. 708041 Lakh					
	Expenditure during 2011-12		: Rs. 1447.15 Lakh					
	2012-13		: Rs. 1353.19 Lakh					
	2013-14		: Rs. 31114.26 Lakh					
	2014-15		: Rs. 44560.23 Lakh					
	2015-16		: Rs. 102862.06 Lakh					
	2016-17		: Rs. 193335.14 Lakh					
	2017-18		: Rs. 109936.54 Lakh					
	2018-19		: Rs. 54835.00 Lakh (1/19)]					
	Total Expenditure		: Rs. 539443..57 Lakh (up to 1/19)					
	Approval date:							
	Zero date:		: 09/06/11					
	Financial closure							
	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 – 66.00MW and Un allocated power – 60.00MW.						
Power Evacuation system		For power evacuation and drawing of start-up power,400kVand 220kV switchyard would be provided. Each of the 500 MW units would be connected to the 400kV switchyard. The power generated at the plant would be evacuated through a 400kV system. Start-up power would be drawn from the 220kV switchyard. The generator transformers of 500MW units would step up generator voltages to the switchyard voltage of 400Kv.One and Half Breaker scheme is proposed for 400kV and 220kV switchyard. These schemes are reliable and provide flexibility in operation.						
		• Coal Linkage/FSA: Lignite from the NLC Mine 1 & 1A. • Land possession: 160 Hectares Owned by NLC • Water allocation: Existing TS 1 lake and erstwhile Fertilizer lake of NLC Ltd., • MOE&F: Clearances obtained on 21/10/2010 and extended up to 20/10/2017, clearance further extended upto 20.10.19. • CPCB: Clearances obtained and valid up to 31/03/2018. • Civil Aviation: clearance obtained on 25/11/09						
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						

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual (A) / As now Anticipated.			
			Syn. Comm	COD	Syn. Comm	COD		
2	Ghatampur TPP JV of NLC & UPRVUNL (Lahurimau village, Ghatampur, Kanpur), U.P.	1980					Unit-I: Boiler: Boiler & Auxiliaries- Civil & structural work 1. Unit -1: 13583 MT erection completed. Coal Silo hopper fabrication under progress 2. Boiler #1 – Above roof header alignment & Nose block pre assembly work in progress. 3.ESP-1 Structural erection in progress. 1254 MT erection completed. 4. ESP Control building Lintel beam completed. First floor slab shuttering work under progress. 5. Air duct, backend duct & flue gas duct fabrication work under progress. 6. 16220 nos. Pressure parts joints welding works completed. 7. Unit-2: Boiler erection is in progress 6887 MT erected. 8. ESP-2 Structure erection works in progress. 178 MT erected. 9. Unit-3: Boiler- Mechanical Erection under progress. 1729 MT erection completed. TG& Auxiliaries Civil & Structural Work 1. Unit#1,2 & 3 TG: All rafts completed. TG Deck#1 Casting completed. TG # 2 -2 nd lift pedestal under progress. 2. Unit#1: Main Power House structural erection in progress. 3632 MT erected. 3. Unit#2 Main Power House Structure erection work under progress. 372 MT erected. 4. CW Pipe Erection 916 metere Completed 5. TG Auxiliary columns erection works under progress. 6. 331 MT CCR building structural erection completed. Service building Civil works under progress. 7. Transformer Yard #1 –ST, GT & UT foundation completed. and fire wall works under progress. GT auxiliary foundation under progress. 8. Transformer Yard #2 –GT RYB raft completed and wall works under progress. 9. Unit#1 Station transformer & 02 nos Generator Transformer erected. 7. TG Hall 1 no. 200 MT EOT Crane (capacity-200 MT) erected & electrification work under progress. BOP (GA3 Package) Chimney: 26.8 m out of 275m height completed. Coal handling Plant: Wagon Tippler, Track Hopper, Crusher House, Stacker reclaimers, JT 1 to 12 & Emergency Reclaimer 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. Switchyard: -132 KV GIS- Cable trench is in progress, Flooring & RCC works completed. All 184 MT structure erection completed. Slab concreting EL + 11.2 m completed. Brick and Plastering work in progress. - 132 KV Switchyard take off & Bus tower raft completed. Pedestal and other outdoor equipment foundation work in progress. - 400 KV GIS Building – Lintel beam and cable trench work under progress and Take off tower -3/3 nos. raft completed and 2 nd lift of pedesatal is in progress. - 765 KV GIS Building –Foundation completed and column up to plinth level completed. Backfilling works under progress.Plinth beam work in progress. - ICT Foundation 10 nos. rafts completed and 5 nos. pedestal/column up to plinth level completed. Fire woll works under progress. Cooling Towers: NDCT # 1,2,3 Civil works are under progress FGD: (GA4 Package) Tendering under progress.	
	U-1	660	03/20 04/20	11/20	08/20 9/20	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	12/21		
	Original/Latest Est. Cost	: Rs.1723780 lakhs						
	Exp. During 2012-13	:Rs.13838 Lakhs						
	2013-14	:Rs.580 Lakhs						
	2014-15	:Rs.3978.08 Lakhs						
	2015-16	:Rs.(-)528.76 Lakhs						
	2016-17	:Rs.73580.84 Lakhs						
	2017-18	:Rs. 90950.32 Lakhs						
	Cumulative Exp	: Rs. 397447.09 Lakhs(up to 01/19)						
	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	: Govt. of India allocated Pachwara South Coal Block, Jharkhand to NUPPL for fuel. But due to Law & Order problem, MoU signed with MSTC for imported Coal on 04.02.2015.						
	Power Evacuation System	CEA in its 36 th Standing Committee meeting held on 13.07.2015 at New Delhi, has agreed for power evatuation system of Ghatampur Thremal Power Station proposed by UPPTCL						
MoEF: MoEF issued Environmental clearance to NUPPL on 17.06.2015 Land: Entire Land of 828 Hectares has been acquired and taken physical possession on 27.11.2016								
Critical issues								
Reasons for Delay								

Sl. No	PROJECT DETAILS	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual (A) / As Expected		
				Syn. Comm	COD	Syn. Comm	COD	
Central Sector								
1	Barsingsar TPP ext (Distt. Bikaner) (250 MW)	U-1	250	05/20	08/20 08/20	05/20 08/20	08/20	- Detailed engineering work and vendor’ approval is in progress - R-infra has established their site office at BTPSE. - The package activities at BTPSE are yet to start. - Soil investigation work was completed. Project activities are under hold from 02/06/2017 due to withdrawl of PPA by DISCOMS.
Estimated cost		: Rs. 211259 Lakhs						
Exp. During 2017-18		Rs. 15470 Lakhs						
Exp. During 2018-19 (upto 01/19)		Rs. 331.52 Lakhs						
Total Exp		Rs. 15801.52 Lakhs (up to 01/19.)						
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						
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.						

Sl. No	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual (A) / As Expected		
			Syn. Comm	COD	Syn. Comm	COD	
Central Sector							
1	Bithnok TPP Distt. Bikaner, Rajasthan	250 MW					• R-infra has established their site office at Bithnok. • The package activities at Bithnok are yet to start. Project activities are under hold from 02/06/2017
	U-1	250	05/20 08/20	08/20	05/20 08/20	08/20	
	Estimated cost (M/Y)	: Rs. 219630 Lakhs					
	Exp. During 2017-18	Rs. 16979.48 Lakhs					
	Exp. During 2018-19 (upto 01/19)	Rs. 336.56 Lakhs					
	Total Exp	Rs. 17316.04 Lakhs (up to 01/19)					
	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					
	PPA	Signed with GoR on 31/12/2010					
	Power evacuation system	Through three No. S/C transmission lines viz (i) BLTPS- Kolayat (ii) BLTPS-Nokha(iii)BLTPS-Bikaner to be executed by RRVPNL.					
	Water: Water supply agreement signed on 10/06/14 b/w Indira Gandhi Nahar Pariyojna, GoR and NLC						
	Land: Private land-1088.20 ha in possession. Govt Land-Transfer in favour of NLC India is under progress at O/o Commissioner colonization, Bikaner Forest land- Transfer in favour of forest dept is under progress at O/o Commissioner colonization, Bikaner MOE&F clearance:EC for mines granted on 26/02/16. EC for thermal granted on 30/04/10 and validity extension is under progress. Civil Aviation: NOC obtained on 09/08/16						
Critical Issues							
Reasons for delay		GoR had informed that due to increased project cost and time over run, Rajasthan Discom will not be in position to buy the power from BTPSE. NLCIL had replied that delay is due to acquisition of land by GoR and informed to review the decision. Matter is pending with GoR.					

STATE & PRIVATE SECTOR

NORTHERN REGION

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					Unit-5 COD achieved on 09/08/18. Commissioned on 04/04/17. Synchronisation done on 25/02/17 • Blr: 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. Unit-6 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. ESP: Unit#5 ESP commissioned and Unit#6 ESP ready. Insulation completed. Commissioning completed. BoPs: • 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) 02/19	03/19		
	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							
Water: 300 MCFT from Lhasi and 1270 MCFT from Parwan irrigation projects has been ensured by GOR. Land: Land is available for both the units. MOE&F clearance Unit-5: 23/05/2012 Unit-6: 02/02/2015								
Critical Issues		1. Rail Link 2. Raw Water						
Reasons for delay								

Sl. No	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual (A) / As now Expected		
			Syn. Comm	COD	Syn. Comm	COD	
State Sector							
2	Suratgarh Super Critical TPP, RRVUNL, Suratgarh(Distt Sri Ganga Nagar	1320					Unit-7 Boiler: Erection started on 26/03/14. Hydro test completed on 31/12/15. BLU completed on 24/02/17. Steam Blowing started on 09/06/18 and completed on 25/08/18. Unit synchronized on 18.12.18 at 1140 hrs with 205MW max load. TG: TG civil work started on 07/12/13. Condenser erection started on 29/04/15. TG erection started on 16/11/15. TG box up done on 21/01/17. TG put on barring gear on 10/11/17. ESP: Erection completed. Insulation and cladding work also completed Unit-8 Boiler: Erection started on 25/06/14 HT completed on 15/03/16. Boiler light up completed on 28/09/17. Boiler Hyd. Test (Non-Drainable) performed on 27/07/18. TG: Condenser Erection started on 28/06/15 and TG erection on 05/11/15. TG box up done on 09/11/17. Turbine boxed up on 09.11.17. Turbine Cross over Pipe insulation work has been completed ESP: Erection completed. Insulation work also completed. Availability of startup power made on 21/01/17. BoP's: Chimney: Both the flue is ready. CHP: Stacker cum Reclaimer & Reclaimer Unit 7&8-Mechanical erection almost completed. Electrical work of SCR &SR unit #8 is u/p. Commissioning work started on 12/03/18 and in progress. Supply of conveyor package has completed. Wagon tippler-2 erection work has been started. AHP: 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. Bottom ash hopper of u-8 is u/p. Erection work of HP, LP and over flow piping around BAH is under progress. NDCT: U-7: Commissioned 100%. U-8: Internal columns are 99% completed. U-8: For CT-8 raker columns and pond floor are completed. Shell is completed on 13/09/2017. Partition wall and hot water duct columns are in progress. CW System: Ready DM Plant: Commissioned. FO system: Shell erection/fabrication completed. HFO unloading discharge pipe line work on ash handling pipe rack is under progress. Switchyard: Back charging done from existing plant 400 KV switchyard on 21/1/2017. Progress of SSCTPS-BABAI line-Erection-676/676, stringing-197.245/245 km. 400 KV, DC, SSCTPS- BIKANER transmission line is ready. SSCTPS-BIKANER transmission line charged on 28/07/18. FGD Plant:- Feasibility Report cum DPR for implementation of revised emission norms for the plant have received. Technical spec finalised.
	U-7	660	06/16 07/16	09/16	12/18 02/19	03/19	
	U-8	660	09/16 10/16	12/16	06/19 06/19	07/19	
	Original Estimated cost		Rs. 792000 lakh				
	Latest Estimated cost		Rs. 792000 lakhs				
	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 17388.77 lakhs				
	Total Expenditure (up to 01/19)		Rs 723432.99 Lakhs				
	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				
	Type of Fuel		Coal				
	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 SPCBC: Clearance accorded by Rajasthan SPCB on 04/06/13. Civil Aviation NOC obtained from AAI on 26/4/10						
Critical Areas		AHP, Marshalling Yard Extension					
Reasons for delay		BHEL manpower; delay in supply and non-sequential supply 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					U-1: - Full load Achieved on 25.12.15. COD on 29.02.16	
	Unit-1	660	06/13	10/13	31.10.15(A) 25.12.15(A)	29.02.16 (A)	• 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. Unit Synchronised on 31.10.15.	
	Unit-2	660	11/13	03/13	07.07.16 (A) 06.09.16 (A)	10.09.16 (A)	U- 2: - Full load Achieved on 06.09.16. COD on 10.09.16.	
	Unit-3	660	04/14	07/14	26.03.17(A) 22.05.17(A)	26.05.2017 (A)	• 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	
	Date of clearance by State Govt.		: Nov, 2006.					• ESP: ESP work completed
	Original/Latest Est. Cost		: Rs.1162227 Lakhs/ 1387000 lakhs					• 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.
	Date of Financial Closure		: Achieved on 06.07.2010 with SBI					•
	Exp. Upto 03/2011		:Rs.124478 Lakhs					U-3: - Full load achieved on 22.05.17. COD on 26.05.17.
	Exp. During 2011-12		:Rs.137691 Lakhs					• 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.
	Exp. During 2012-13		:Rs.296958 Lakhs					• ESP: ESP work completed.
	Exp. During 2013-14		:Rs 308897 Lakhs					• 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.
	Exp. During 2014-15		:Rs. 285952 Lakhs					BOPS:
	Exp. During 2015-16		: Rs. 171135 Lakhs					• 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.
	Exp. During 2016-17		: Rs. 130126 Lakhs					• Chimney: Awarded to Paharpur. 275 height achieved for both chimneys. Flue 1&2 completed. Chimney 2 completed.
	Exp. During 2017-18		:Rs.10097 Lakhs					• 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, 1 st stacker reclaimers commissioned.
	Cumulative Expd. (4/17)		:Rs. 1465334 Lakhs					• AHP: Awarded to Macawber Beekay. System ready for U-1,2 & 3 completed.
	Type of fuel		: Coal					• NDCT: CT-1,2 &3 completed.
	Date of Main Plant Order		: 22.01.2009 (BTG) on M/s BHEL					• PTP: PT plant commissioned
	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.					• DM Plant: DM plant commissioned
	Zero date		23.02.2010.					• FOS: ALL HFO and LDO storage & Day tanks completed. FOH pump house ready, LDO system commissioned.
	PPA		: PPA signed on 21.11.2008.					• FPS: Ready for U-1,2 &3
	Fuel Linkage		: Fuel supply agreement between PPGCL & NLC for 6.95 MTPA has been executed on 29.08.2013.					• SWYRD: Work in 400 KV switchyard completed and charged one 765 kV line
	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							
Critical Area		Power Evacuation System: Responsibility of procurers as per the PPA and as per latest status, the work has been awarded to Ms. Isolux. Line is to be made ready for evacuation before synchronization date						

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual (A) / As now Anticipated.			
			Syn. Comm	COD	Syn. Comm	COD		
2	Harduaganj Expn.,-II UPRVUNL Distt.: Aligarh, U.P	660					BTG Island Activities-Mechanical & Electrical Works: - Boiler & its Auxiliaries: 1st Pass & 2nd Pass pressure parts erection work is under progress. - Boiler & its Auxiliaries: Pressure parts joints pre-assembly & erection is under progress. - Boiler & its Auxiliaries: Balance Main Boiler, Mill Bay & APH structure erection work is under progress. - Boiler & its Auxiliaries: Mills Erection work is under progress. - Boiler & its Auxiliaries: APH-A & B erection is under progress. - Boiler & its Auxiliaries: Critical piping erection is under progress. - Boiler & its Auxiliaries: Air Duct & Gas Duct along Expansion Joints erection is under progress. - TG & its Auxiliaries: HP condenser tube insertion completed. - TG & its Auxiliaries: Turbine erection work is under progress. - TG & its Auxiliaries: HP Heater & LP Heater erection is under progress. - TG & its Auxiliaries: ECW pipe pre-assembly work commenced & is under progress. - ESP: ESP erection for Pass A, B, C, F is under progress. - BTG Electrical SWGR Panels erection at 3.5 m under progress. - Switchyard Control Room- Cable Tray work commenced & is under progress. Main Plant Civil & Structural Works are under progress: - TG Building: TDBFP-A, B & MDBFP foundation casting completed. - TG Roof: Grid 1-5 roof casting completed & further reinforcement work under progress. - TG Building: 0m equipment foundation civil work is in progress. - Transformer Yard: Foundation civil work is in progress. - ESP-Control Room: Foundation civil work is in progress. - CCR Building: Grade slab work completed & handed over to electrical for cable tray fixing work. - CCR Building: All floors except 28.0m casting completed, balance work under progress. - CCR Building: 3.5m floor handed over to electrical for switch gear erection. - MPH Building: BC Bay, LP Heater, HP Heater & Deaerator erection is in progress. - Pipe Rack: PR-1E, 1D civil foundations work in progress. - Duct support structure foundation from Boiler to ESP (LHS) completed. BOP areas : Civil works under progress : - Raw Water system: Raw water Reservoir-B, RWI Pump House, RWPH Civil work is in progress. - PT Plant: Chemical House, Chlorination building, CWST & PH works is in progress. - Permanent Store: AB Bay works completed & further BC, CD Bay civil work is in progress. - GCW-06B: ER-2, 4, 1A civil work is under progress. - WTP: HRSCC wall civil works is in progress. - ETP: CMB civil works completed. - EGD & Compressor House- Pile Chipping & civil work is in progress - CHP: Wagon Tippler, Track Hopper, ERH, Stacker Reclaimer, JT and Conveyor civil work is in progress. - Cooling Water System: 17/24 no fan deck & 6/24 no fan cylinder casting completed & other civil work is in progress. - CWPH & Its Control Room civil work is in progress. - Chimney: Shell concreting work completed & further civil work is in progress. - AHP: Ash Water Pump House raft casting completed & further civil works under progress. - AHP: Ash Slurry Pump House pile chipping is in progress. - Stacker Reclaimer-1B: Segment-5, 6, 7, 8 Civil work is in progress. - Stacker Reclaimer-1A: Pile chipping & civil work is in progress. 400 KV Switchyard: Fire Pedestals & Fencing work is in progress. - Switchyard Control room: Civil works in progress. - Pipe Rack- Civil foundation work is under progress. BOP areas : Mechanical & Electrical works under progress : - CHP: Stacker Reclaimer-1B, JT-6, JT-7, JT-8 & Crusher House erection is in progress. 400KV Switchyard: Cable tray fixing, Earthing, LT Control Panel erection work is in progress. 220 KV Switchyard: Cable Laying, Earthing & CRP Panel erection work is in progress. - CW pipe: CW & ACW Pipe erection & encasement work in progress.	
	Unit-1	660	09/19 11/19	01/20	10/19 01/20	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 Exp. During 2016-17 Exp. During 2017-18 Exp. During 2018-19	: Rs. 30520 Lakhs : Rs 11243 Lakhs : Rs 45767 Lakhs : Rs 100096 Lakhs						
	Cumulative Expd. (01/19)	:Rs 187626 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						
	Land: Not required being an Expansion Project. 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 Water: Water Allocated on 03.12.11 from Upper Ganga Canal. Civil Aviation Clearance: Civil Aviation Clearance granted on 11.07.12 from Airports Authority of India. Financial Closure: 80% PFC Loan & 20% Government Equity. 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.								

		• FOHS: LDO Tank-1, 2 water fill test completed & further tanks erection under progress. • FDPS Piping: Switchyard & WTP system pipe laying is in progress. • WTP: DMPT-A & B water fill test completed. • WTP: DM Plant- Pump & piping erection is in progress. • Auxiliary Boiler- Mechanical erection work is in progress. • Stacker Reclaimer: Mechanical erection work is in progress. • CCR Building: 3.5m floor electrical switch gear erection work is in progress. • CCR Building: 0.0m, 9.0m floor electrical cable tray erection work is in progress. • AC & Ventilation Duct Fabrication work is in progress. • Yard piping fabrication work is in progress. • Stacker Reclaimer-1B: Mechanical rail & Wagon erection (Segment-1, 2, 3, and 4) is in progress. • Pipe Rack-1A, 1B erection is in progress. • Air Conditioning: Switchyard control room duct fabrication work is in progress. • Ventilation Work: Erection agency mobilized & fabrication work is in progress. DM Plant: Electrical Room cable tray & support fixing work commenced and is in progress. <u>FGD Plant:</u> FGD Package is being executed by M/S Doosan. Currently Detailed Engineering work is under progress. Absorber & GGH Area Civil works are in progress FGD Structure dispatch started progressively.
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.

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual (A) / As now Anticipated.		
			Syn. Comm	COD	Syn. Comm	COD	
3	Obra-C TPP UPRVUNL (Obra, Dist. Sonebhadra), U.P.	1320					SG Package by M/S DPSI & STG Package by M/S Alstom Forge Power Ltd.
	U-1	660	08/20 09/20	12/20	02/21 04/21	06/21	Work in Progress -Concrete work (RCC) for TG Building #1 Foundation and Pedestal
	U-2	660	12/20 12/20	04/21	07/21 07/21	11/21	-Concrete work (RCC) for TG Building #2 Foundation and Pedestal
	Original/Latest Cost		: Rs.1041600 lakhs				-Concrete work (RCC) for STG #1 Pedestal(Main Column with Wall)
	Expenditure						-Cleaning for concreting (PCC) work for Chimney foundation
	2016-17		42377 Lakha				. -Concrete work (RCC) for Condenser #1 pedestal
	2017-18		28623 Lakhs				-Concrete work (RCC) for CW Pit #1 column with wall
	Cumulative Expenditure (up to 12/18)		: Rs. 135866 Lakhs				-Concrete work (RCC) for CEP Pit #1 Foundation & wall
	Date of Financial Closure		: 13.11.2013 70% debt loaned from REC and 30% equity to be borne by State Govt.				-Concrete work (RCC) for STG #2 Pedestal(Main Column with Wall)
	Type of fuel		: Coal				-Concrete work (RCC) for Condenser #2 pedestal (2nd lift)
	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				-Reinforcement & shuttering work for CW Pit #2 wall
	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.				-Concrete work (RCC) for CEP Pit #2 wall
	Zero date		: 22.12.2016				-Concrete Work(RCC) for ESP #1 Pedestal
	Land		: Not required being an expansion Project				-Concrete Work(PCC) for ESP #2
	PPA		: Signed with UPPCL. on 16.01..2013				-Concrete Work (RCC) for 400kV GIS Building column upto plinth level. -Concreting (PCC & RCC) work for DM Plant foundation.
MoEF Clearance : :.Forest clearance obtained on 30.06.2016 and Environmental clearance obtained on 21.06.2016 Power Evacuation System: By UPPTCL at 765 KV Water : Allocation of 54 cusec water by Govt. of UP from Rihand Reservoir						-Concreting (RCC) work for cooling tower SWG Building.	
Critical Areas/Assistance Required						-Excavation work for Crusher House Foundation.	
						-Excavation work at Drive house #2 foundation	
						-Excavation and PCC work for Storage Yard building foundation -Excavation and Concrete Work(PCC, RCC) for Stacker/Re-Claimer	
						-Excavation(Temporary shoring work) for Track hopper	
						-Excavation and Concrete Work(PCC) for CW Pump House/Structure -Erection work of Cooling Water(CW) Pipe.	
						-Erection work of Boiler #1 Steel Structure Tier 4	
						-Erection works of Air Duct#1. -Erection of Main Steel Structure for TBN Building #1 & CCB Building.	
						-Main Grid Earthing work.	
						Purchase Order Placement Status: PO issued for Boiler – Coal Pipes (01-Dec-18) PO issued for SCR Gas Analyzer (07-Dec-18) PO issued for FGD Flue gas system (Duct) (20-Dec-18)	

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual (A) / As now Anticipated.			
			Syn. Comm	COD	Syn. Comm	COD		
4	Jawaharpur STPP JVUNL (100% subsidiary of UPRVUNL) Village: Malawan, Dist. Etah), U.P	1320					1. Status of Construction Activities 1.1 Completed activities - Piling Work for ID Fan # 1 - Piling work for ESP # 1 - Piling Work for PA Fan FDN # 2 - Piling work for Trestle & Junction Tower (JT-12 ~ 14) - Foundation (Ring)work for NDCT-A - Foundation Con'c TG FDN - Bottom Con'c work CW Pump Structure(Raft FDN) - Excavation DM Plant Water Pump House - Foundation work for Junction Tower-08 - Excavation of Potable Water Tank - Excavation of Plant Water Pump House - Excavation of Junction Tower-6 & 10 2. Status of Completed activities - Foundation and erection of steel structure tier 1 for Boiler # 1 - Excavation, Foundation & Pedestal work for ESP, TG Pedestal & CEP/CW Pit #1 - Foundation and structure work for TG Building #1, CCB - Steel structure fabrication & erection work for TG building, CCB - Pre-assembly work for pressure part # 1 and Air Duct # 1 - Pedestal & Foundation Work for Basin (NDCT) - Foundation Work for Boiler # 2 - Steel structure erection for Boiler # 2 - Piling work unit #1 for Duct support structure (BLR ~ ESP ,ESP ~ ID Fan), GGH & absorber - Piling work unit # 2 for ESP, NDCT, PA Fan & Duct support structure - Piling Work common area for Chimney, Fly ash silo - CW pipe encasement work in block 4 area - CW pipe fit up & welding work in Block 1, block 3 & 4 area - CW pump house & Fore bay area excavation & mud clearing work - RCC wall structure, Anchor Bolt & Sand backfilling work for CS Tank & LDO tank - Foundation & wall structure work of LDO Dyke - Foundation work for Potable tank. - Foundation work for Clarified Structure & Clarified water pump house - Foundation work for DM pump House & Condensate Storage Transfer Pump House - Excavation work for Lime stone Building & LDO Loading & Unloading House. - Excavation work for Reservoir -A & B - Foundation work for Crusher house & Junction Tower - Piling for Stacker & Reclaimer & Crusher House - Foundation & Back filling work for Track hopper & Wagon Tippler - Excavation work for Emergency Reclaimer Hopper - Steel structure fabrication work for Coal conveyor gallery - Super structure work for 220 kV, 400 KV GIS building & storage yard building - Foundation & Sub structure work for 765kV GIS building & Interconnecting Auto Transformer (765kV / 400kV) - Sub structure work for switchyard equipment, Main Gate & Security Complex - Finishing work for field quality control lab - Electrical Grounding work (MS Rod & GI Strip laying, Welding) 2. Payment Status to DPSI till 31.03.2018 (Advance) Payment made to DPSI approx. 1200.00 Crore. 3. FGD: Order placed on M/S Doosan Power Systems India Pvt. Ltd. (EPC Project).	
	U-1	660	08/20 09/20	12/20	03/21 03/21	07/21		
	U-2	660	12/20 01/21	04/21	07/21 07/21	11/21		
	Original/Latest Cost		: Rs.1056627 lakhs					
	Cumulative Expenditure (up to 12/18)		: Rs. 102100 Lakhs					
	Type of fuel		: Coal					
	Date of Financial Closure		80% debt loaned from PFC & REC and 20% equity to be borne by State Govt.					
	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					
	PPA		: Signed on 31.12..2016					
	Land : The land required is 865 acres and is in possession of JVUNL. No wildlife and no archeological monument exist at the proposed project site. MoEF Clearance : Received on date 26.10.2016 Fuel Linkage : From Saharpur Jamrpani, Jharkhand Coal Block allocated. Bridge Linkage for the project allocated vide letter No.23014/2/2016-CPD dated 11.04.2016. MOU dated 25.03.2015 Water : 53 cusecs water allocated from Lower Ganga Canal by irrigation Department for the Project on 09.11.2009							
	Critical Areas/Assistance required		Delay in Unit 1 & 2 COF will be approx. 8 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: - Shorten the foundation work duration for TG pedestal. - Parallel work of foundation and steel structure erection for Boiler. - Acceleration effort for various work activities like - Day & night shift work for piling and steel structure fabrication (TG & CCB) - Working on Sundays and holidays - Manpower increase for civil, mechanical & site fabrication activities - Additional subcontractor for piling work					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. com.	COD	Syn. com	COD	
	State Sector						
5.	Panki TPS Ext, Distt. Kanpur, U.P. (UPRVUNL)	660			30.09.21	31.01.22	Unit-1: Boiler: TG: BOPs: Chimney: CHP: AHP: CWPs: IDCTs: FGD: Installation of FGD executed by BHEL
	U-1	660					
	Original/Latest Cost	Rs / lakhs					
	Exp.During 2018-19	Rs 1600 lakhs					
	Cumulative Exp.upto April,2018	Rs 1600 Lakhs					
	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.					
	MOE&F clearance:						
Critical Areas							
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	COD	
Private Sector								
1.	Kashipur Gas Based CCPP, Ph-II (M/s Sravanthi Energy Private Limited), Udhamsingh Nagar (2GT +1ST=225MW)	GT-1 GT-2 ST	75 75 75	11/11 11/11 11/11 12/11 12/11	11/11 11/11 12/11	* * *	*	<u>OPEN CYCLE</u> <u>GT-I&II</u> 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 <u>COMBINED CYCLE</u> <u>HRSG-I&II:</u> Erection of HRSG equipment supply completed. Erection of both the HRSG nearing completion. HT of both the HRSGs expected just after erection is completed. <u>ST:</u> 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. <u>BoPs:</u> • All the BoPs are ready.
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 mmscmd)						
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.						
		- 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.						

*Schedule will be decided after availability of gas

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Sync/. Comm	COD	
Private Sector								
2.	BETA CCPP, Module-I, at Kashipur (M/s BETA INFRATECH PRIVATE LTD.), Udham Singh Nagar (2GT +1ST=225MW)	GT-1 GT-2 ST	75 75 75	12/11 12/11 12/11 03/12 03/12	12/11 12/11 03/12	* * *	* 	

*Schedule will be decided after availability of gas

Western Region

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	COD	Sync/. Comm	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)	60 0	<u>02/12</u> 04/12	04/12	<u>18/05/13 (A)</u> <u>13/08/13 (A)</u>	<u>14/08/13(A)</u>	Unit-1 (U-3) COD achieved on 14/08/13. Commissioned on 13/08/13. Synchronised on 18/05/13. Boiler: Boiler erection started on 01/09/10. Boiler Drum lifted on 29/04/11. Boiler HT (Non-Drainable) completed on 06/07/12. BLU completed on 10/04/13. SBO completed on 24/04/13 Oil synch. Completed on 18/05/13. TG: TG Deck casting completed on 05/10/11. TG erection started on 16/04/12. TG boxed up on 06/11/12. TG oil flushing completed on 17/01/13. FGD: FGD plant expected in 6/22.
		U-2 (U-4)	60 0	<u>06/12</u> 08/12	08/12	<u>08/08/14(A)</u> <u>22/08/14 (A)</u>	<u>26/08/14(A)</u>	
		U-3 (U-2)	60 0	<u>10/12</u> 12/12	12/12	<u>12/17(A)</u> <u>18/01/18(A)</u>	<u>21/01/18(A)</u>	
		U-4 (U-5)	60 0	<u>02/13</u> <u>04/13</u>	04/13	<u>06/19</u> <u>06/19</u>	06/19	
		U-5 (U-1)	60 0	<u>06/13</u> 08/13	08/13	<u>09/19</u> <u>09/19</u>	09/19	
		U-6	60 0	<u>10/13</u> 12/13	12/13	<u>12/19</u> <u>12/19</u>	12/19	
	Orginal 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.						
	- 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.

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Sync/ 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)	Unit-1 COD achieved on 26/11/15. Commissioneod on 28/10/15. synchronized on 28/02/15 Boiler: Boiler erection started on 03/09/11. Boiler drum lifted on 22/04/12. HT test conducted on 07/09/13. BLU done on 08/11/14. SBO completed on 03/01/15. Unit. Consent to operate received on 17/07/15. TG: TG erection started in 10/12. TG box up completed on 02/09/14. TG oil flushing completed 07/14. TG barring gear on 09/12/14. Unit-2 COD achieved on 12/02/16. Commissioneod on 28/01/16. Synchronized on 07/01/16 Boiler: Boiler erection started on 12/12/11. Boiler drum lifted on 30/04/12. HT conducted on 07/11/13. Non drainable HT done on 27/03/14. BLU done on 17/04/15. SBO completed on 25/10/15. Unit. Coal fired on 07/01/16. TG: TG erection started on 16/03/14. TG boxed up in 04/2015. TG Oil Flushing Completed in 07/15. TG on barring Gear in 07/15. Unit-3 COD achieved on 14/11/17. Commissioneod on 12/09/17. Synchronization on 31/08/17. Boiler: Boiler erection started on 12/01/12. Boiler drum lifted on 19/05/12. HT (drainable) completed on 31/01/14. BLU achieved on 19/07/17. SBO completed on16/08/17. Rolling done on 25/08/17. Coal firing done on 31/08/17. TG: TG erection started on 11/10/14. HIP temporary box up completed and final box up completed on 26/07/17. TG put on BG on 01/08/17. Unit-4 Boiler: Boiler erection started on 30/04/12. Boiler drum lifted on 30/12/12. HT conducted on 20/01/15.ESP erection and commissioning completed. TG: condenser erection started on 20/2/15. TG erection started on 25/11/14. TG box up completed in 3/18. BoPs: 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. FGD: Vendor identification under process.	
		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	-	*	*		
	Org.Est. cost / latest cost (Ph-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							
		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.								

*Schedule will be decided after availability of CTO

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch/ Comm	COD	Sync/. Comm	COD		
3	Lanco Amarkantak Mega TPS (Pathadi) (Distt. Korba) M/s LAP Pvt. Ltd. Phase-II (2x660MW=1320MW)	3	660	01/12 01/12	-	*	*	Unit-3 Boiler: erection started on 09/10. HT completed on 22/07/16. BLU delayed due to non-availability of start-up power. TG: Condenser erection started on 1/05/11 and completed & partially tube leak test completed. TG erection started on 11/10/11. TG Box up completed on 26/11/16. ESP: Pass B ATT completed. Pass C ATT is also completed. Work is held up at the site due to fund constraints since 07/17. Unit-4 Boiler: Boiler erection started on 1/12/10 TG: Condenser erection started on 11/11/11. TG Deck casting completed & TG erection started on 15/05/13 ESP: All 4 passes are under progress. BoPs: Chimney: RCC shell completed. Flue can erection work completed for U-3. Flue can assembly work is u/p. Structure erection 76% completed. Stack elevator erection, alignment & commissioning completed. CHP: Track hopper work completed. Crucher house erection work is u/p. TP 11,7,8,9 structural erection completed. Equipment erection is u/p. AHP: Ash slurry pump house; All civil work completed. Paving& finishing are u/p. fly ash tower work completed. Cooling Tower: 10985m3 RCC casting completed. All 24 nos deck slab completed in CU-3. 8979m3 RCC casting completed and 24 nos deck slab completed in CT U-4. Raw Water Supply System: river water intake pump house slab casting completed. RCC work & backfilling completed in forebay. Pump house MCC room- slab casting completed. PT/ DM Plant: PT plant-RCC work is completed. Pumps erection is u/p. DM pant- DM plant building, erection, alignment and grouting of vessels are u/p. DM water storage tanks are also ready. 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.						
			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 tripler 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			
				Sync/ 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)	<u>Unit-1</u> COD achieved on 01/05/14. Commissioned on 10/04/14. Unit synchronized on 04/09/13. • Boiler: Erection of Boiler-1 started in 11/10. Boiler Drum lifted on 23/02/11. HT completed on 28/01/12. BLU completed on 06/03/13. SBO completed. TG: TG erection started in 11/11and TG box-up completed in 07/12. <u>Unit-2</u> • Boiler: Boiler erection started in 11/10 and drum lifted in 04/11. HT completed in 10/12. BLU completed in 09/14 and steam blowing completed in 10/14. Delay due to supply of boiler material & CHP material by M/s Cethar Vessels Ltd.and delay in getting of startup power. Delay due to agitation by the villagers at project site. • TG: erection started in 11/11and TG boxed-up 09/14 and put on barring gear in 10/14. <u>BoPs:</u> • Chimney: Flue can erection completed. • CHP: Under progress. • AHP: Under progress. • CW System: Under progress.	
		U-2	135	09/11 09/11	-	Uncertain	Uncertain		
	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.							
		• 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	Unit-1 Boiler: Boiler erection started on 30/09/11. 8th tier erection completed. Ceiling girder A, B, C, D, E& F erection completed. Work held up due to financial Problems. TG: TG deck raft completed and shuttering work final deck casting U/P. EOT crane erected and commissioned. ESP: Pass A casing erection work completed. Suspensions for electrodes erection completed. Erection of collecting electrodes up to 10th field completed. Hopper top part erection completed in all 10 fields. Pass B: Column erection work completed. Pass-C- electrode erection completed in all 10 fields. Pass D: Casing erection completed. electrode erection BoPs: - Chimney: Foundation works completed and shell casting work U/P. Chimney awarded to Bygging India Ltd on 15/01/15 - CHP: PCC in wagon tippler & TP-2 area is U/P. Coal Mill & Mill Bunker Building: All mill foundation & bunker pedestal casting completed. Bunker structure and shell fabrication under progress. - Raw Water Supply System: Raw Water pipe line awarded to TATA Projects Ltd. On 14/07/11 - CW System: Raw Water pipe line awarded to TATA Projects Ltd. On 14/07/11 - IDCT: CT awarded to Paharpur cooling Towers 25/01/12. IDCT-I & 2 excavation work completed. - Switchyard: Foundation works completed and shell casting work U/P.	
		U-2	660			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 GOCG to execute PPA with Developers on behalf of the GOCG. This PPA is in line with the implementation agreement executed with GOCG							
	Power Evacuation system	Awarded the contract for construction of 400kV D/C transmission line on M/s KEC on 24/06/11. From PGCIL S/S at New Kotra. 400/765 Kv Pooling station for power evacuation – bays construction given to Alstom T7D on 31/12/11.							
	BTPA	24/02/10							
			- Land: Delay in land acquisition & delay in placement of orders for BoPs. Delay in supply of boiler drum by BHEL. Work is on hold due to Financial crunch. - MOE&F: MOEF clearance obtained on 23/08/11 Amendment in MOEF clearance issued on 20/05/14 regarding the reduction in project area of 780 acres to 637 acres. Fatehpur coal block allocated to the Visa Power. - Civil Aviation: clearance from AAI received on 25/05/10. - Water: Water allocation received from WRD, Chhattisgarh for 35 MCM on 26/09/09 - Coal linkage: Fatehpur East Coal Block jointly allotted. Domestic coal linkage applied. FSA signed with Indonesian coal supplier (PT Kubara Bumi Lestari) for supply of imported coal.						
Critical issues		Boiler Drum has not dispatched by the BHEL							
Reasons for Delay		Order of AHP,Fire protection system, AC & ventilation system,LT/Ht switchgear, cables, air compressor, LT transformers, station, GT & unit transformer not yet placed. Work is on hold due to financial crunch.							

SI.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch/ Comm	COD	Synch/ Comm	COD		
6	Singhitarai TPP (DumatpalliTPP) 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: • 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 l lakh further revised)							
	Exp up to 03/2008 Exp 2008-09 Exp 2009-10 Exp. 2010-11 Exp. 2011-12 Exp. 2012-13 Exp. 2013-14 Exp. 2014-15 Exp. 2015-16 Exp. 2016-17 Exp. 2017-18	:Rs. 371 lakhs :Rs. 3509 lakhs :Rs. 6690 lakhs :Rs. 56343 lakhs :Rs. 50204 lakhs :Rs: 92116 lakhs :Rs: 129337 lakhs :Rs: 154090 lakhs :Rs: 62395 lakhs : Rs. 74611 lakhs : Rs. 11181 lakhs							
	Cum.Exp. up to 05/17	:Rs. 640847 lakhs							
	Zero date:	01/06/11 (NIT issued)							
	Financial closure	: Achieved (Common loan agreement signed on 30/03/11)							
	Main Plant Order	: Awarded on 21/12/09 to M/s DECL.							
	BOP Package	M/s Abir infrastructure on 18/08/10							
	Type of fuel	Coal							
PPA	Long term and short term PPA signed with PTC. 444 MW signed with CSPT and 150 MW signed with Nepal electricity authority. For 300 MW- LOI received & for 200 MW participated in Case-I bidding in RRVPN and 107.5MW praticipated in the case-I bid invited by MP power mgmt. company ltd. For supply of 107.5MW power on the long term bases.								
Power Evacuation system	LTOA granted on 01/10/09. Signed BTPA with PGCIL for 683 MW 24/02/10. ISTS approval received from PGCIL on 14/06/11.Approval received form MoP for construction of 400kV D/c dedicted line from ACPL to New Kotra(PGCIL). NOC for tower height clearance received for double and multiple circuit tower from AAI. Test charging of 400kV transmission line-1 &2 completed.								
		• Land: 927.275 acres of land in possession,25.96 Acres of Govt land leased to company.. • MOE&F: Obtained on 04/06/10.Amendment of EC received on 22/03/16 • Civil aviation: 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	Sync/. Comm	COD		
7	Binjkote TPP SKS power Gen. (Chhattis.) Ltd Vill-Binjkote, Distt.: Raigarh, State-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 achieved on 06/10/17. Full load achieved 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 achieved on 01/04/18. Full load achieved in 28/03/18. Syn is completed in 12/17. Boiler : Boiler erection started on 08/09/12. Boiler drum lifted on 30/05/13. Boiler light up has completed on 27/03/17. EDTA cleaning done on 03/05/17 Steam blowing completed in 11/17. TG : Condenser erection started in 01/15. TG erection Started in 09/14. TG put on barring gear on 30/08/17. Unit-3: Work yet to start Unit-4: Work yet to start * The dates would be decided after start of Boiler erection start. BoPs: • CHP: Ready in all respect. • AHP: Ready in all respect. • Raw Water Supply System: raw water intake pump commissioned, raw water reservoir completed. • PT/ DM Plant: already commissioned. • CW System: Ready. • FOPH: Ready • Switchyard: 440kV trans line charged on 09/05/15. 20/6.6Kv line charged on 20/01/16	
		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 PGCILon 24/02/10 for evacuation of entire power from kotra sub-station.							
		- Land: 568 acres of land acquired - MOE&F: obtained on 05/10/10 EC extended till 04/10/17 - Civil Aviation: AAI issued NOC on 09/04/2009 - Water: 35 MCM from Mahanadi (44 Km pipeline). - Coal linkage: Granted coal linkage for entire 1200 MW by SECL. FSA signed for U-1 &U-2 for 1.3 MTPA on 28/08/13 and 23/09/13 respectively.							
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			
				Sync/ 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)	<u>Unit-1</u> COD achieved on 19/08/16. Commissioned on 14/08/16. Synchronized with coal on 31/05/16. <u>Boiler</u> 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 <u>TG</u> 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. <u>Unit-2</u> COD achieved on 01/05/17. Commissioned on 18/04/17. Synchronized on 20/12/16. <u>Boiler</u> 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. <u>TG</u> 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. <u>BoPs:</u> • 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 (Tamnar) on 11/04/11 for 400 MW.						
			• 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

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	COD		
State Sector									
1.	Wanakbori TPS Extn. GSECL, Dist: Kheda Gujarat (1x800=800MW)	8	800	<u>07/18</u> 10/18	10/18	<u>02/19</u> 03/19	03/19	<u>Unit-8 Boiler</u> Boiler civil works started on 17/10/15. Boiler erection started on 25/02/16. All the 7 ceiling Girders lifting completed on 17/01/17. Pressure parts erection is in progress. Drainable Hydro test completed on 12/01/2018. Boiler light up on 30/07/2018. Steam Blow Off completed on 31.01.2019.	<u>TG</u> 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. Main Turbine trial on barring gear carried out on 29.12.2018. TG Box Up is done on 28/12/18.
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 (Upto 12/18)		: Rs 29386.66 Lakh							
Total Expenditure		: Rs. 358994.25 Lakhs (Upto 12/18)							
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 Plama Coal Block, Chhattisgarh							
Power Evacuation system									
- All mandatory clearances are available. - BoPs orders placed by BHEL. - Power evacuation system readiness is expected 6 months before COD. - Topographical & Soil investigation work is completed. - Order for Site grading work is placed by BHEL and work has been completed. - Work contracts for Material management, Storage yard Development and construction power distribution are awarded by BHEL. - 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.									
Critical issues		Delay on TG front by BHEL and their sub vendor							
Reasons for Delay		During the site visit in 03/17 a delay of about 4-6 weeks was observed at TG front. Due to soil strata a lot of piling (4300numbers) has been done in BTG area.							
		BoPs: Chimney: Chimney RCC works for Shell casting work completed. Beam erection completed. Flue erection completed. Outside chimney painting work completed. CHP: In this package order for Civil works is with Bridge & Roof (I) Pvt Ltd. The mechanical work is with M/s GMW. The contractors have mobilized the site and civil –mech works are in progress. Rail lying work under progress. 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. Equipment supply started. All pumps erected. Piping work under progress. Raw Water Supply System: Order placed to M/s Chembond Solenis Water Technologies Ltd for Erection & Commissioning. Fire Protection System: Fire water pump, jockey pump, hydrant spray pump and placed at site decouple trial taken. Foam system erected, trial pending. PT/ DM Plant: Order for DM plant has been placed on M/s. Aqua Design India Pvt. Ltd for Erection & Commissioning. PTP order is with M/s Pennar Enviro Ltd; DM building civil works are in progress. (initially treated water has to be arranged from existing plant) Filter backwash sump completed. CW System: The order has been placed on M/s Chembond Solenis Water Technology. CW treatment plant inside civil work completed. The work is progressing as per schedule. NDCT: The order placed on M/s NBCC. Recker columns completed. Shell casting started and further work in progress. Switchyard: Order placed on M/s Teknow Overseas Private Ltd. Civil work of Switch yard (400 KV Extn. & 400 KV switch yard outside GIS) are in progress. AIS/GIS Switchyard Tie line -I and ST charged through BUS-I. Tender for EPC contract for FGD uploaded on 20/09/17; t completed. 3 FGD Plant - Corrigendum –XVI issued: Price Bid opened and further step under process.							
		Water allocation: 10.82MGD allocated from Mahi River.							

BROAD STATUS OF THERMAL POWER PROJECTS IN MADHYA PRADESH

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch/ Comm	COD	Synch/ Comm	COD		
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)	Unit-3: COD achieved on 18/11/18. Commissioned on 14/08/18. Synchronisation done on 27/04/18. 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. 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. Unit-4: 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 Synhronisation has been done on 27/12/18. 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. BOPs: Chimney: Ready for both Units CHP: Equipments commissioning and trial run is in progress. AHP: Equipments erection and commissioning is in 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 and Unit # 3 Synchronized with grid on 27/04/18. 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 to be floated and under process. Date of Award expected by June 2019.	
		4	660	07/18 09/18	11/18	27/12/18(A) 03/19	03/19		
	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 116964 lakhs						
	Total Expenditure (Upto 01/19)		: Rs. 586259 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									
		- 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							
Reasons for Delay		Power evacuation is yet to be completed by MPPTCL.							

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)	<u>Unit-1</u> COD achieved on 29/04/13. Commissioned on 25/02/13. Synchronized on 24/12/12. <u>Boiler:</u> 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. <u>TG:</u> 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. <u>Unit-2</u> COD achieved on 06/10/18. Commissioned on 26/09/18. Synchronized in 07/17. <u>Boiler:</u> 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. <u>TG:</u> 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. <u>BoPs:</u> As the unit-1 of the project has already been commissioned and BoPs are common for both the units. - 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.
		2	600	10/11 12/11	12/11	07/17 (A) 26/09/18 (A)	06/10/18 (A)	
Original/Latest Cost			: Rs. 773800 Lakhs/ Rs. 773800 Lakhs					
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.					
- 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		Unit-1 The site enabling activities like area grading etc has already completed. Construction of administrative building and hostel facility also completed. Excavation work in water reservoir area and chimney also started. Erection yet to be started. Work is on hold at site due to Financial crunch being faced by the developer. BoPs: In BoPs work yet to start.
Original/ Latest Cost		: Rs.394100 Lakhs / Rs.394100 Lakhs						
		:						
Expenditure during 2008-09		: Rs. 349 Lakhs						
Expenditure during 2009-10		: Rs. 2303 Lakhs						
Expenditure during 2010-11		: Rs. 13487 Lakhs						
Expenditure during 2011-12		: Rs. 21157 Lakhs						
Expenditure during 2012-13		: Rs. 4036 Lakhs						
Expenditure during 2013-14		: Rs. 4712Lakhs						
Expenditure during 2014-15		: Rs. 1614 Lakhs						
Expenditure during 2015-16		: Rs. 78 Lakhs (upto 09/15)						
Total Expenditure (Upto 09/15)		: Rs 47579 lakhs						
Approval date:		: NA						
Zero date:		: 03/11						
Notice To Proceed (NTP)		:03/11						
Financial closure		Achieved in 03/2011 for unit-1						
Main Plant Order		BHEL on 03/11 (BTG).						
BTG Make		BHEL						
BOP Order		Indure Pvt. Limited.						
Type of fuel		:Coal						
PPA		35% with MPPMC from 2x660 MW						
Source and supply of Fuel		2.1048 MTPA available for unit-1.						
Power Evacuation system		PGCIL has granted LTA and connectivity. Power evacuation at vindhyachal pooling station.						
- Consultant: Desein - MOEF Clearance: Obtained in Sept.10 for 1st unit. - Land : 735-acre land is acquired. - Water: 25 MCM PA water from Gopad river for 2x660 MW. - All the mandatory clearances are available for two units. - The major part of total land acquired by the company in time but delay in granting government land which is significant stretches had affected the contiguity and due to which construction could not commence at desired time. - PPA has been signed with MP Power Management Company (State Utility) for 35% capacity from both the 2x660 MW.								
		Critical issues		Acquisition of balance land.				
		Reasons for Delay		Financial Costraints				

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.	Niwari TPP (Dist. Narsinghpur) BLA Power Ltd. (2x45=90 MW)	2	45	04/14 05/14	05/14	Uncertain	Unit-2 Boiler erection started in 01/13 . Drum lifted in 08/13 . Presently work at site is on hold. * Assessed after restart of work. BoPs: • Presently work at site has been put on hold.	
Original / Latest COst			: Rs.23249 Lakhs / Rs.25049 Lakhs					
Expenditure during 2010-11			: Rs. 5100 Lakhs					
Expenditure during 2011-12			: Rs. 16880 Lakhs					
Expenditure during 2012-13			: Rs. 5164 Lakhs					
Expenditure during 2013-14			: Rs. 354 Lakhs					
Expenditure during 2014-15			: Rs. 1503 Lakhs (upto 03/15)					
Total Expenditure			: Rs. 29001 lakhs (Upto 03/15)					
Approval date:			: NA					
Zero date:			: 04/11					
Notice To Proceed (NTP)			:04/11					
Financial closure			Achieved.					
Main Plant Order			Boiler(ISGEC) in 02/11.Turbine and Generator (Siemens) in 04/11.					
BTG Make			Siemens					
BOP Order			-					
Type of fuel			Coal					
PPA			30% with MPPTCL and 5%with MP government on variable cost.					
Source and supply of Fuel			FSA signed with BLA industries Ltd. on 25/04/11 for 350000 tonnes per annum. Amendment to fuel supply agreement signed with BLA industries on 26/03/13 for the following quantities— U-1x45 MW=187000 tonnes/annum, U-2x45 MW=374000 tonnes/Annum.					
Power Evacuation system			PGCIL has granted LTA and connectivity. Power evacuation at vindhyachal pooling station.					

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 RattanIndia 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.						
		- 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 achieved on 29/03/14. Commissioned on 25/02/14. synch. achieved 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. achieved 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. 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. Boiler Boiler erection started on 16/05/11. Boiler drum lifting completed on 23/12/11. Boiler HT is completed in 11/16. BLU achieved on 30/12/16. SBO completed on 13/02/17.. TG TG erection started in 05/12. TG box up completed on 24/01/17. TG oil flushing completed on 12/03/17. TG put on BG on 29/03/17. Unit-5 Commissioned on 30/05/17. Boiler Boiler erection started on 16/06/11. Boiler drum lifting completed on 06/03/12.BLU achieved on 15/02/17. EDTA completed on 06/03/17. SBO completed on 24/03/17. TG TG erection started on 30/04/16. TG Box Up completed on 13/02/17. TG oil flushing completed on 17/04/17. TG put on BG on 28/04/17. BoPs: • The order was placed on reputed Indian vendors. BoPs were common for all the five units and completed except Railway siding.	
		2	270	02/12 04/12	05/12	21/03/16 (A) 15/02/17(A)	-		
		3	270	04/12 06/12	07/12	04/17(A) 14/04/17(A)	-		
		4	270	06/12 08/12	09/12	05/17(A) 19/05/17(A)	-		
		5	270	08/12 10/12	11/12	05/17(A) 30/05/17(A)	-		
	Original /Latest Cost		: Rs.678900 lakhs / Rs.784898 lakhs						
	Expenditure during 03/10		:Rs. 30620 Lakhs						
	Expenditure during 2010-11		:Rs. 100000Lakhs						
	Expenditure during 2011-12		:Rs. 180309 Lakhs						
	Expenditure during 2012-13		:Rs. 144526 Lakhs						
	Expenditure during 2013-14		:Rs 107396 Lakhs						
	Expenditure during 2014-15		:Rs 98461 Lakhs						
	Expenditure during 2015-16		:Rs --						
	Total Expenditure		:Rs. 661312 Lakhs (Upto 03/15)						
	Approval date:		: NA						
	Zero date:		: 24/11/09						
	Notice To Proceed (NTP)		:211/09						
	Financial closure		: Achieved on 30/06/10						
	Main Plant Order		: BTG on EPC basis awarded to BHEL on 24/11/09.						
	BTG Make		BHEL						
	BOP on EPC basis		Reputed Indian Vendors						
	Type of fuel		: Coal						
	PPA		No PPA						
	Source and supply of Fuel		: From SLC (LT) on 17/12/08.						
	Power Evacuation system		: Through 400kV D/C quad Moose transmission line upto MSETCL sub-station at Bhubaneshwar.						
			- FSA: With MCL, SECL & WCL on 11/06/09. All clearances are available. - Design & Engineering completed. - The BOPs are common for all the five units. All the BoPs are either already completed or nearing completion.						
	Critical issues		PPA, Completion of Railway Siding.						
	Reasons for Delay		- Railway siding for coal transportation. - Finalization of PPA. - Rectification of defect in GIS switchyard by Siemens-Germany. - Fault in HT panel - Financial Constraints						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
	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	@	@	
		3	270	05/13 08/13	08/13	@	@	
		4	270	07/13 10/13	10/13	@	@	
		5	270	09/13 12/13	12/13	@	@	
	Original /Latest Cost		: Rs.678900 lakhs / Rs.678900 lakhs					
	Expenditure during 03/10		: 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.						
		- 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) M/s Lanco Vidarbha Thermal Power Ltd. (2x660=1320 MW)	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.
		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.					
		- 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.						
		Chimney: Civil works for chimney are being done by M/s LITL. Chimney Raft completed. Chimney shell construction completed upto 30 mtr.upto 07/16. CHP: (Elecon Engg.Co. Ltd): Wagon Tippler excavation work completed. Raft Completed in WT area and balance work is in progress. Civil works are being done by M/s LITL. In other parts of CHP such as Stacker reclaimers , Crusher House, TPs and conveyors civil works are in progress.. AHP: (M/s LITL): Civil works for BA hoppers, Fly ash silo's, AWP, ASPH and ash dyke are in progress. Raw Water Supply System: Work is in progress. PT/ DM Plant (DOshion Veolia water solution): Approx. 80% civil works completed upto 09/16. CW System: Civil works are with M/s LITL and mechanical works are with M/s Singrauli Associates Pvt. Ltd.. Civil works in CW pump house, CW fore Bay and CW open channel are in progress. 85% CW pipeline erection work completed upto 09/16. Balance erection work is under progress. IDCT: Being done by M/s LITL. For both the IDCT- I: & IDCT- II: PCC and basin raft concreting completed. Pedestal work is in progress. FOPH: All civil works are in progress.. Switchyard: 95% switchyard foundations completed so far.						
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 Constraint.						

* 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		Unit-2 Boiler Work at site put on hold due to financial crunch.
	Original/ Latest Cost		: Rs.318900 lakhs / Rs.345000 lakhs					TG Work at site put on hold due to financial crunch. @: Work at site put on hold. Revised commissioning schedule will be decided after re-start of work. BOPs Work yet to start
	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.					
	- FSA: Coal Linkage LOA received from WCL, however FSA is yet to be signed Consent to Establish : Obtained from MPCB. - All statutory clearances are available. MOEF clearance received on 30/07/12. - Design & Engineering in progress. - Order for all BOPs on EPC basis has already been placed on M/s AEMPL on 26/05/14. The process of subletting packagewise contract to reputed vendors was in progress. - Site leveling and grading was in progress. - Capacity revision from 2x250 MW to 2x300 MW accepted and issued letter on 19/03/14. - FSA is in process. All the milestones required under the terms of LOA have been completed. - PPA: MOA signed on 27/02/12 with PTC India Ltd. for sale of 430 MW (75%) on Long Term Basis and remaining 25% on merchant power basis. - Various site enabling works were in progress.							
	Critical issues		Financial Issue					
Reasons for Delay		The schedule of implementation got revised due to change in capacity from 2x250 MW to 2x300 MW. Formal approval received on 19/03/14. Signing of FSA with WCL has to be expedited.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
	Shirpur Power Private Ltd. Distt. Dhule, Maharashtra (2x150=300 MW)	1	150	12/14	02/15	09/17(A) 28/09/17(A)	-	Unit-1: Commissioning achieved on 28/09/17.
		2	150	02/15	04/15	*	*	
	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		Connectivity approval from MSETCL for 220 kV line at Amalner substation					
	- All clearances are available. - Design & Engineering completed. - Order for BOPs on EPC basis have been placed M/s Punj Lloyd on 03/08/10. In all the BOPs work already completed.							
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		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
	Bhusawal Thermal Power Project, Distt. Jalgaon, Maharashtra (1x660 MW)	6	660	11/21				<u>Unit-6:</u> - LOA issued to M/s BHEL on single point responsibility EPC Contract basis. - M/s BHEL has submitted Performance BG and Advance BG as per terms of LOA - M/s BHEL has submitted the L1 schedule on 30.08.2018. - LOA is issued to M/s DCPL for consultancy work for Design, Engineering, Implementation & Monitoring purpose. - Leveling & area grading work of M/s BHEL storage yard has been commenced from 06.09.2018. - Supply of structural steel material has been commenced during mid September 2018. - Construction Power Supply Provided to M/s. BHEL as per requirement.
Original / Latest Cost		: Rs.509700 lakhs						
Expenditure during 2018-19		: Rs lakh						
Total Expenditure (Upto 12/18)		:Rs lakhs						
Approval date:		:NA						
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								
BOP on EPC basis								
Type of fuel		Coal						
PPA								
Source and supply of Fuel								
Power Evacuation system								
AAI issued NOC having the validity till 23 Feb 2022 Water Allocation is already tied up with WRD MoE&F Environment clearance (EC) was granted till 26 Nov 2019.								
Critical issues								
Reasons for Delay								

Southern Region

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		07/17(A) 03/18 (A)	04/18	• 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. Unit Synchronized on 02.07.17. Full Load achieved on 03/18. • TG: TG erection started on 04/03/16. TG box up done in 02/17. • Chimney (M/s Gammon): Shell concreting completed. A.R.Brick work completed up to (+) EL 135.30 M height. • CHP: Work awarded to M/s Thyssenkrup. • AHP: Vacuum pump house building, Silos, Bottom ash hopper, Buffer hopper, ASPH etc. area civil works completed • RWR: Trimming of slopes of reservoir bund is in progress. In the raw water pump house RCC structure completed. • PTP: clarifier works completed. • DM Plant: Roof slab work up to 183.10 ml completed. Vessels foundations ready. Vessels material available at site. Some vessels are placed in position. • CWS: raft work in CW pump house completed. All walls raised up to pump floor. PCC works of fore bay in progress. CW pipe line fabrication is almost complete. • NDCT (M/s Gammon): Shell erection 32 lifts completed &33rd in progress. • FO System: M/s Xicon is executing these works Civil work almost completed. Tanks fabrication & erection in progress. Fuel oil transfer pump tank HFO and LDO day tank slab completed & handed over for erection work. • Switchyard: Foundations of all equipment were completed and handed over for erection of equipment's.
Original /Latest Cost		: Rs. 302886 / 388043 Lakh						
Expenditure during 2009-10		: Rs. 555.00 lakh						
Expenditure during 2010-11		: Rs. 25833.00 lakh						
Expenditure during 2011-12		: Rs. 8155.00 lakh						
Expenditure during 2012-13		: Rs. 29331.00 lakh						
Expenditure during 2013-14		: Rs. 80045.00 lakh						
Expenditure during 2014-15		: Rs. 52429.00 lakh						
Expenditure during 2015-16		: Rs. 62341.00 lakh						
Expenditure during 2016-17		: Rs. 83576.96 lakh						
Expenditure during 2017-18		: Rs 69776..04 lakh (12/17)						
Total Expenditure		: Rs 412042 lakh (up to 12/2017)						
Zero date		: 10/02/2011.						
Financial closure		Achieved on 19/03/10						
Type of Fuel		Coal						
Main Plant Order		Placed on M/s BHEL for BTG on 18/11/10.						
BOP Package		Purchase order placed on the consortium led by M/s Tecpro Systems Ltd, including civil works on EPC basis on 15/12/10. Now it is led by VA Tech.						
• MOEF clearance obtained on 21/10/2010. • PFC Sanctioned a loan of Rs. 2423 crores. • M/s Desein Pvt. Ltd is providing engineering consultancy services.								
Critical issues		1. Readiness of cooling tower, CHP & AHP.						
Reasons for Delay		1. Boiler erection start was delayed by 13 months due to initial land acquisition and civil works problems. Mill, ID, FD & PA fan foundation work delayed. 2. Slow progress of Civil works and BOP works by the consortium led by VA Tech, Techpro and Gammon. 3. Delay in award of CHP& AHP by the consortium leader VA Tech.						

Sl. No.	Project Details	Unit No.	Capa- city (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Syn. Comm	COD	Syn. Comm	COD	
State Sector								
2	Sri Damodaram Sanjeevaiah TPP St-II (Krishnapatnam) (APPDCL) Distt.Nellore, Andhra Pradesh	1	800	02/19 03/19	04/19	06/19 08/19	10/19	- Boiler:Boiler Erection started in 06/17. 60% completed. 3. Hydro Test expected in 03/19. ESP Erection 65% completed. - TG: TG raft, columns, deck casting and pedestal concreting completed. Condenser erection works started in 08/18. TG erection works started in 10/18. Works are in progress. BoPs. - CHP: Structural Steel fabrication 5800/5820 T completed. Structural Steel erection 3629/5820 T completed. Structural steel erection for Conveyors and JNTs in progress. - AHP: Works of Ash compressor house, Ash water sump and pump house, Ash slurry pump house, Hydrobins, Clarifier, MMC, Sludge pit, Vacuum pump house, Silo 1, Silo 2, Utility building, Ash slurry line pedestals & Ash slurry line piping are in progress. - Cooling Tower: 100% Racker columns completed. Shell up to 88th lift completed.. Main and secondary ducts are in progress. - Chimney: Brick work 173.1/253 mtr completed. External platform works are in progress. Insulation works are in progress. - DM Plant: Sea Water Reservoir + Pump House: Gate/screen works & Tank hydro test completed. Coating & outside plastering is in progress. Clarifier (Pre Treatment): 1720/5400 FRP Plates erection completed. Clarified Water Storage Tank + PH: Pump and motor assembly completed and erected. Pump house piping is in progress. Filtration Plant: Erection & Alignment works completed. Filter media filling is in progress. Filtered Water Storage Tank + PH: Pumps with Motors erection is in progress(6 Nos). RO Building + Equipments: HP & LP pumps with motors erection completed. Alignment works are in progress. Dosing tanks & cartridge filters erection completed. Duplex SS piping fabrication & welding works are in progress. RO Reject Water Tank+PH: Erection of Back wash Pumps with Motors completed. - CW System : Stop log Gate / Screen insert fixing completed, grouting in progress. 2) EOT erection completed, CWPH Header erected(440/510 RM) 3) Corrosion coating for pipe internal surface major completed. CW & BW pumps erection works is in progress. - FGD : Order not yet placed.
Original / Latest Estd. Cost		Rs. 4276.04 / 6034 Crs.						
Expenditure during 2015-16		Rs. 199.20 Crs.						
Total Expenditure		Rs. 4072.97 Crs. (1/19)						
Approval date:		14.12.2017 for revised cost						
Zero date:		15.12.2015						
Financial closure								
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						

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 APGENCO Distt. Vijayawada, Andhra Pradesh	1	800	03/19 06/19	07/19	03/19 06/19	07/19	Boiler erection started on 22.05.2017. ESP erection started on 15.03.2017. Pass I erection: 1) Ring Header alignment completed.2) Drain lines of Bottom Ring Header and Intermediate Header erection under progress. 3) All risers completed including supproting structures and NDT 4) All Saturation link pipes completed including supporting structures and NDT 5) Start Up System required for Hydro Test is completed 6) Buck stays allignment under progress. Pass II erection: 1) Back pass furnace allignment including supports completed. 2) Eco-Inlet Pipe Completed. Rotating Machines: 1) Both ID Fans erection completed. 2) LHS: PA Fan, FD Fan and all mills completed. 3) LHS: Air Pre Heater Completed TG deck casting completed. TG and condenser erection started. BOPs. CHP: JT erfecction works under progress. WAGON TIPPLER : 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. Track Hopper : Seg-1 to 8 walls, MB-2 wall WT side 4/12.4m completed. MB1 to be taken up. Arrangements for MB1 wall rising through slip form completed. Rail beam 494/1600m completed AHP: Ash water sump & Ash slurry sump walls construction in progress. Ash water pump house columns second lift above plinth in progress. Ash slurry pump house columns final lift is under progress. Seal water sump walls final lift concrete completed. AHP & MRS compressor house columns first lift above plinth beam under progress. Vacuum pump house columns above lintel beam completed. Hydrobins 1,2&3 columns 3rd lift completed. Silo 1&2- columns lift under progress. Silo utility building columns first lift completed. Cross country pipeline : 63 Nos excavation completed,54 Nos PCC Completed and 44 Nos Raft completed. Cooling Towers: 160.51 /180 mtrs shell concreting completed. Chimney: 275 mtrs shell construction completed. AR brick lining work completed from 150 Mtrs to 275 Mtrs and started from 11 Mtrs elevation. PT Plant: Mechanical erection completed for clarifier A & B. Sludge thickener mechanical erection completed Raw water pumps erection completed. Chemical Dosing pumps in PTP chemical house erected. CW System: 528/1100 mtrs CW pipeline erection completed. 145/400 ACW piping erection started. 40 T EOT crane mechanical erection completed in CWPH. Hydrotest for 200 mts CW pipe completed (Supply & Return line Switch Yard: 100% Towers & Gantry erection, 100% of Equipment structures, 95% of Equipment erection & 85% conductor stringing completed. 50% of earthing in power block area & 95% of earthing in switchyard area completed. 100% HT cable, 70% LT cable, 50% of Transformers, 70% Cable Trays & Cable tray supports, 100% earth rod and 90% earth flat received.
Original / Latest Cost		Rs. 5286.54 / 5515 Crs.						
Total Expenditure (1/19)		Rs. 3843.41 Crs						
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								

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	350	01/12	06/12	2/18 (A)	2/19	Unit-3: Boiler: erection started on 16/11/11. Drum lifted in 16/05/14. Hangers & Headers erection almost completed. Panel and coil erection in progress. Roof, LHS, RHS, Burner Panel erection completed. Final SH and HTRH coils erection completed. Primary SH coil erection in progress Erection of flue gas duct between ESP to ID fab to Chimney almost completed. ESP to Boiler flue gas duct erection almost completed. Both sides RAPH erection nearing completion.ID fan #A & #B completed. Both side PA & FD fan erection completed. HT done on 31/10/15. 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. 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. Condenser front and rear water box erection completed. Final Boxed –up on 27.07.17 .TG oil flushing completed on 27.11.17 and TG on barring gear. Unit-4: Boiler: erection started in 22/09/14. Drum lifted on 31.07.15 .HT (Non drainable) completed in 5/18. SBO expected in 01/19. Full load expected in 02/19. TG: Condenser erection stated on 13/07/15. TG erection started on 29/10/15. TG box up done in 3/18. TG oil flushing done in 06/18. Chimney: Ready for service. CHP: Awarded to EDAC Engineering Ltd., Chennai on 18/06/10. Priority Stream-I trial run completed • Stream-II commissioning work in progress • Stacker & Reclaimer – I& II – in operation mode. AHP: Awarded to EDAC Engineering Ltd., Chennai on 18/06/10. Unit#3 completed • Unit#4 Completed. IDCT: Awarded to EDAC Engineering Ltd., Chennai on 18/06/10. CT#3 Completed • CT#4 completed. PTP: PT plant erection completed and commissioned. DM Plant: DM plant in operation mode. CW System: Unit#3 CW and ACW commissioning completed. • Unit#4 CW and ACW commissioning completed. FO System: LDO system completed and oil stored in tanks. SW Yard: Switchyard charging completed on 31.05.17. Switchyard Automation System (SAS) panels, Control Relay Panel (CRP) panel charging completed.	
	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 30510.11 Lakhs (12/18)							
	Total Expenditure(up to 12/18)	: Rs. 538500.58 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.							
	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 28/02/11from 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.							

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	660	08/13	12/13	Uncertain	Unit-1 • Boiler: Boiler erection is started on 27/03/2014. 5th tier erection completed. Girders are to be placed which are available at site. • ESP: Structures, hoppers erection is in progress. • TG: Deck casting completed on 28/05/15. Power house erection (2nd tier) is in progress. EOT crane to be erected • Unit-2 • Boiler: Boiler erection started in 02/15. 2nd tier erection completed. • ESP: Piling completed. • TG: Raft casted on 29/05/15. TG columns scaffolding work is in progress. Condenser erection yet to start. BoP's • Chimney: Order placed on M/s. R S Pabla in Oct, 10. Shell casting completed. Flue can erection is in progress. • CHP: Awarded to M/s BSBK. Piling completed. Dewall works in track hopper area completed. • AHP: Order placement is in progress. • WTP: Engineering is in progress. • DM Plant: Engineering is in progress. • CW System: Engineering is in progress. • NDCT: Order placed on M/s Paharpur Cooling Towers. • FPS: Engineering is in progress. • FOS: Order placed on Delta P.D. Pumps on 14/05/12. Tank fabrication work completed. Switchyard: Engineering is in progress. ATS: Award of contract to be done by ECEPL.	
		2	660	01/14	05/14	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								
		• 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.						

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	<u>09/17</u> <u>11/17</u>	12/17	<u>30.06.18</u> 10/18	26/12/18 (A)	- 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. Unit Synchronised on 30.06.18. Full load achieved on 05.10.18. COD on 26/12/18. - TG Deck: TG civil work started in 23/08/15. TG erection started on 28.02.17. TG Boxed up in 06/18. BOPs - CHP: Civil work awarded to M/s. SNC on 12/02/16. 94% completed. Wagon tippler side arm charger works completed. Stacker cum reclaimers 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. - FGD: LOI issued to M/s BHEL for providing wet lime based FGD with completion period of 30 months. Works yet to start.	
	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							
	- 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	Capa-city (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A)/ As Expected			
			Syn. Comm	COD	Syn. Comm	COD		
State Sector								
2	Bhadradi TPP (TSGENCO) Distt. Khammam, Telangan	1080					Boiler erection work start (Actual) U#1 15.9.2017, U#2 12.1.2018, U#3 11.1.2018, U#4 08.03.2018.62% work completed. Civil works of U#1 &2 82% completed. U# 3 & 4 53% completed. Boiler Drum Lifting: U#1 06.1.2018, U#2 28.3.2018, U#3 28.3.2018, U#4 21.08.2018 Boiler Hydro Test (drainable) of U#1 done on 17.8.2018 and U#2 on 04.11.18 and U#3 on 26.11.18 • Civil works of Power House Foundations, T G raft, BOILER, Auxilary Foundations, Chimney –I, Chimney –2, Cooling Towers - I & 2, Cooling Towers - 3 & 4, CCR Building - I&II, CCR Building. - III & IV are in progress. • CHP: conveyer package-5% completed. Stacker Reclaimer-5% completed. • AHP: 5% completed. • Cooling Tower: 72% completed. • Chimney: 75% completed. • PT Plant, DM Plant CW treatment plant : Works not started. • FGD : LOI issued to M/s. BHEL(LOI date – 12.06.2018). commissioning schedule: 30 months from date of LOI. Total Cost. 680 Crs	
	U-1	270	01/17 03/17	03/17	03/19 04/19	05/19		
	U-2	270	03/17 05/17	05/17	05/19 06/19	07/19		
	U-3	270	05/17 07/17	07/17	07/19 08/19	09/19		
	U-4	270	07/17 09/17	09/17	09/19 10/19	11/19		
	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.					
	Total Expenditure		Rs. 4505.49 Crs. (1/19)					
	Approval date:							
	Zero date:		: 21.03.15					
	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		CoalMinistry of Coal sanctioned 4.2 MTPA for BTPS						
PPA		Yet to be entered and under process.						
Power Evacuation system		Shall be ready by January 2019.						
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								
Critical issues								
Reasons for Delay		Work held up due to order from National Green Tribunal (NGT) and non-availability of MoE&F clearance						

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, Telangan	4000					Civil Works in progress. U #1 & 2 Boiler erection expected to start by 03/19. 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 U-3,4 – 04/21 and U-5 – 08/21	
	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. 3006.90 Crs. (1/19)					
	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		Yet to be finalised.					
Power Evacuation system		400 KV Jangaon, Maheshwram, Choutuppal and Dindi						
		1. Water Allocation: State Govt. has allotted for drawl of 208 CUSECS (6TMC) of water per year from Krishna river vide G.O.Ms.No. 13, dt-30.01.2015 2. 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 3. Environmental Clearance from MoE&F& CC: TOR granted vide Lr. No. J-L13012/18/2015-IA.I(T) GolMOEF &CC Dt: 16.02.2016. 4. Land : 5459.39 Gts						
Critical issues								
Reasons for Delay		Work held up due to order from National Green Tribunal (NGT) and non-availability of MoE&F clearance						

BROAD STATUS OF THERMAL POWER PROJECTS IN KARNATAKA

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		03/19 03/19		• Main Plant: GT erection started on 1.03.17. GT and Generator erected, GTG Aux. erection is in progress (90%). GT Aux. erection is in progress (50%). STG HIP module, Generator erected. LP turbine erection under progress. ST Aux. erection is in progress (45%). HRSG: Leak test completed, box up completed and insulation work in progress. Cranking expected in 1/19. Syn expected in 2/19. • STG building structural erection 92% completed. GTG building 92% 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). • CT: Civil work is in progress. 95% completed. • CW system: CW piping pre assembly works is in progress (joint welding) of 139/139 joints and CW pipe laying work is in progress(379/379mtr). • PTP: Civil works in progress. • DM Plant: Commissioning of Equipments is in progress. • Switch Yard: Bay 1,2 & 3 Tower / Equipment erection work completed. Bay 1 & 2 equipment testing, commissioning & civil works completed. Bay 3 equipment erected, testing, commissioning & civil works is in progress. • FPS: 1590/1700 mtrs fire hydrant pipes laid underground. 20 mtrs hydraulic test under progress. HVWS piping for seal oil pit completed, erection of deluge valve & hydro test pending. • Air Conditioning & Ventilation: Duct fabrication work in progress. Supplies in progress. • Control & Instrumentation: Control panel erected and cable laying work in progress. • LT Switch gears: panel erection work completed and cable laying work in progress. • Cables(Power/Control): Cable tray erection works is in progress. • Generator Transformers: GT/ST transformer received and erection completed and testing in progress.. • Unit Transformers: UATs erected and testing of UAT – completed. Testing of UAT-2 is in progress.	
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 103.72 Crs (1/19)							
Total Expenditure		:Rs 1251.56 Crs (up to 1/19)							
Approval date:									
Zero date:		: 09.11.2015							
Financial closure		:							
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 is nearing completion..							
		• 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 started piping works. • 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							

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	01/18	03/18	06/20	08/20	• Boiler (M/s BHEL): Design & Engineering work, site leveling and site office work are in progress. • 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. Tripartite agreement between TANGEDCO, PFC(Lender),& M/s BHEL (EPC contractor) signed on 21.11.16. and Loan agreement between PFC and TANGEDCO signed on 18.01.17. • Construction water supply available at site. • Compaction Piling work for Chimney, Boiler Unit-I,II, T.G.Unit I,II, CT-I, II etc. completed. • Material supply in progress Unit-I Boiler: Boiler erection started on 15.09.17. HT expected by 11/19. TG Civil works started in 5/17. Unit-II Boiler: Boiler erection started on 08.06.18. HT expected by 11/19. TG Civil works started in 5/17.	
		2	660	03/18	05/18	09/20	11/20		
	Original Cost/ Latest Cost		: Rs. 9800 Crores (Includes cost of FGD, ECHS and IDC)						
	Total Expenditure (up to 12/18)		: Rs 2729.67 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.						
	BOP Package								
	Type of fuel		: Long term Coal Linnkage application submitted on 26.02.2010 to Ministry of Coal/GoI/New Delhi for supply of coal. Coal allocation is yet to be received. However, MoU has lready been signed between MMTC & TANGEDCO on 25.06.2012 for the supply of 100% imported coal.						
	PPA		N.A. State sector project. Entire 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 KKV lines to ETPS Expansion STPP.						
		• 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							
Critical issues									
Reasons for Delay									

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	• BTG & allied civil work related to BTG as one EPC package, order placed on BHEL on 27.02.16. • Boiler Civil Works stated on 20.05.16. Boiler erection started in 01/17. • BOP Packages (CHP/AHP/CT/Chimney/PT Plant/DM Plant/CW system/Switchyard/FPS/ACV & FO system) awarded to M/s. Reliance Infra Structure Ltd, Mumbai on 21.2.2018. BTG package by M/s BHEL Geo Technical Investigation work completed on 05.12.2017. Casting of test piling work commenced on 16.01.2017 and completed on 19.07.2018. Design, Engineering, documents approval in progress. Storage yard Developed 1,60,000 sq.m BTG Materials – 77907 tonnes ; Structural and reinforcement materials – 21243 tonnes received at site. <table><tr><th>Sl.No</th><th>Location</th><th>Total No of piles</th><th>No. of piles complete d as on 31.1.19</th><th>Balan ce to be compl eted</th></tr><tr><td>1.</td><td>Unit-I ESP</td><td>665</td><td>581</td><td>84</td></tr><tr><td>2.</td><td>Unit-I Boiler</td><td>583</td><td>490</td><td>93</td></tr><tr><td>3.</td><td>Unit-II ESP</td><td>665</td><td>665</td><td>-</td></tr><tr><td>4.</td><td>Unit-II Boiler</td><td>583</td><td>500</td><td>83</td></tr></table> Balance of Plant by M/s Reliance Infrastructure Ltd., Topographical survey work commenced on 10.09.2018 and in progress. Geo-technical Investigation work under progress. Sea water Intake & Outfall system by M/s. L & T Geo-Technical investigation work commenced on 12.07.2018 and in progress. LBH – Completed	Sl.No	Location	Total No of piles	No. of piles complete d as on 31.1.19	Balan ce to be compl eted	1.	Unit-I ESP	665	581	84	2.	Unit-I Boiler	583	490	93	3.	Unit-II ESP	665	665	-	4.	Unit-II Boiler	583	500	83
		Sl.No	Location	Total No of piles	No. of piles complete d as on 31.1.19	Balan ce to be compl eted																											
	1.	Unit-I ESP	665	581	84																												
	2.	Unit-I Boiler	583	490	93																												
	3.	Unit-II ESP	665	665	-																												
	4.	Unit-II Boiler	583	500	83																												
	2	800	06/19	11/19	08/20	02/21																											
	Original Cost /Latest Cost : Rs. 12778 Crs. (BTG cost –Rs. 5580 Crs.)																																
	Expenditure during 2016-17 :Rs. 1674 Lakhs																																
	Expenditure during 2017-18 :Rs. 20971 Lakhs																																
	Expenditure during 2018-19 :Rs. 37017 Lakhs																																
	Total Expenditure :Rs. 59662 Lakhs (up to 1/19)																																
	Approval date:																																
	Zero date: 20.05.2016																																
	Financial closure Financial tie-up is proposed with M/s PFC.																																
	Main Plant Order : Order placed on M/s. BHEL (BTG- Rs. 5580Crores) 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																																
	Power Evacuation system 765 KVA																																
• Land: Out of 995.16 acres of land, Government Poromboke Land for 227.36 acres and private patta lands of 767.80 acres. Around 192.36 acres of Govt. land in BTG area has been handed over by TANGEDCO to M/s BHEL on 21.07.2016 for project preparatory works. The District Collector/ Ramnad has accorded enter upon permission to the patta land not covered under litigation for an extent of 407.74 acres to TANGEDCO on 03.08.2017. Out of this, around 63 acres of patta land in BTG area has been handed over by TANGEDCO to M/s BHEL on 03.08.2017. 552 Acres of land handed over to M/s RIL, BOP contractor on 17.03.18. Balance land 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. • 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																																	
Reasons for Delay																																	

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									
3	North Chennai TPP St-III by TANGEDCO (Distt. Thiruvallur), Tamil Nadu	1	800	02/19 03/19	04/19	11/19 12/19	12/19	● Boiler: Boiler erection works started on 30.08.17 All Ceiling girders and Silencer were erected. All Wall beams erected. Air preheater Structural erection work is in progress. So far 13626 MT erected. Pressure part erection started on 26.10.2018 and so far 1279 MT erected. Bunker(LHS)&(RHS)- 4th tier erection completed. Bunker shell fabrication is in progress. Boiler goods cum passenger lift erection started. ESP erection works commenced on 15.07.2017. So far 8128MT erected (71.42%). ESP outlet flue gas duct guillotine gates erected.. HT expected in 07/19. ● TG: TG civil work completed. Deck cast completed on 27.08.2018. TG Deck -UPV test completed. TG deck handed over to Mechanical checking. TG condenser pit and CW pit casting done. CW pipe inserts placed in position. TG hall EOT cranes (2Nos.) erection completed. Generator stator reached site on 25.07.2018. CW pipe/SW pipe/ACW pipe laying is in progress. BOPs ● BOP package was awarded to M/s.BGRESL, Chennai under EPC basis on 28.10.2016 at a total value of Rs.2600.02 Crs. ● CHP: Stacker&Reclaimer rail beam work under progress. Coal stock pile paving work under progress.Crusher house civil foundation work completed. ICHS,Switchgear building,Slab work @9.6m under progres.ECHS , Conveyor civil foundation work completed and control room foundation completed. Bull dozer shed, foundation work completed. LCS& CHP maintenance building civil foundation work completed. ● AHP: Fly ash silo-2nos slab concreting work completed. Fly ash buffer hopper piling work completed. Dry botom ash -civil foundation work completed. Air compresssor and blower house roof slab 50% completed.Ash slurry pump house RCC work under progress. Intermediate surge hopper foundation work completed. ● Cooling Tower: NDCT -Pond wall -100% completed. NDCT-Shell jump from 22nd lift completed. ● Chimney: Chimney shell 269 Mtr completed. 100% completed as on 7.7.2018. Platform & flue can fabrication erection workcompleted. Slab works completed. ● Switch Yard: 765KV GT bay Tower pedestal completed. 765KV GIS side wall brick work under progress. 230KV brick work completed & painting under progress. GIS rooms-Column cast work under progress. ● Considering the revised emission norms, In principle approval was given to M/s.BHEL for making in boiler modification to achieve the NOx reduction from 510 mg/Nm3 to 300 mg/ Nm3 on 18.08.2016 and commercial acceptance was given on 31.03.2017. ● FGD is not included in the scope of both BTG and BOP package. Opinon of consultant sought for regarding the type of technology to be adopted for FGD and allied issues like water availability, disposal of gypsum etc.	
	Original Estd. Cost : Rs. 637600 Lakhs								
	Expenditure during 2009-10 : Rs 2.206 Lakhs								
	Expenditure during 2010-11 : Nil.								
	Expenditure during 2011-12 : Nil.								
	Expenditure during 2012-13 : Rs 20.59 Lakhs								
	Expenditure during 2013-14 : Rs 39.56 Lakhs								
	Expenditure during 2014-15 : Rs 12.94 Lakhs								
	Expenditure during 2015-16 : Rs 25.30 Lakhs								
	Expenditure during 2016-17 : Rs 19808.75 Lakhs								
	Expenditure during 2017-18 : Rs 92975.44 Lakhs								
	Expenditure during 2018-19 : Rs 189276.00 Lakhs (1/19)								
	Total Expenditure (up to 1/19) : Rs 302160.786 Lakhs								
	Zero date: : 29/01/2016								
	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 system : 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									
● MOE&F Clearances obtained on 20/01/2016. ● SPCB clearance obtained on 13.04.2017 ● Civil Aviation: clearance obtained on 15/05/2013 ● Water allocation: Water requirement for the project will be met from existing fore bay of NCTPS stage-II. The make-up water for cooling tower, boiler make-up & other sweet water requirements are to be met from proposed desalination plant for this project. Construction water from M/s.CMWSSB available to the contractor from 07.01.2017 ● FSA: MOU has been entered with M/s. MMTC for supply of imported Coal of 2.51 MTPA on 25.05.2015. Action is also being initiated for getting indigenous coal also.									
Critical issues									
Reasons for Delay									

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	05/19 06/19	-	● 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 495600 / 542138 Lakh						
	Expenditure during 2014-15	:Rs. 23970 Lakh						
	Expenditure during 2015-16	:Rs. 288.91 Lakh						
	Expenditure during 2016-17	:Rs. 8656.09 Lakh						
	Expenditure during 2017-18	: Rs.46225.0 Lakh						
	Total Expenditure (up to 12/2017)	:Rs. 79140 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.						
● 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.								
Corporate Insolvency & Bankruptcy Process (CIRP) initiated against LITL(the EPC Contractor) by IDBI Bank from 07.08.2017 and interim resolution professional appointed on 10.08.2017 and hence the project has been stalled rom 07.08.2017. The CIRP process extended up to 04.05.2018.								
Critical issues								
Reasons for Delay								

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	TuticorinTPP St-IV / M/s SEPC Power Pvt. Ltd. (Distt. Tuticorin), in Tamil Nadu	1	525	07/18 09/18	10/18	11/19 12/19	12/19	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. Hydro Test (drainable) done on 28.12.18. TG civil work started on 01/06/016. TG ereccton started on 8.9.17 BOPs: CHP, AHP, CT, Chimney, PT and DM Plant, CW system, Fuel oil system and all other systems related to power evacuation, switchyard including C&I, Fire protection system, air-conditioning & ventilation etc. are all awarded to M/s MEIL on 18/01/14. It is all the part of EPC package. CHP: Awarded to M/s Lefton for Engineering consultant & Monitoring agency for ICHS. Civil foundation work is nearing completion. Mechanical structural fabrication erection 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. CW System: CW packages awarded to M/s Flowserve. Civil works are in progress.
	Original /Latest Cost	: Rs. 351400	Lakh / Rs. 351400	Lakh				
	Expenditure up to 2015-16	:: Rs.48079 Lakh						
	Expenditure during 2016-17	: Rs.24870 Lakh						
	Expenditure during 2017-18	: Rs.82294 Lakh						
	Expenditure during 2018-19	: Rs. 6893 Lakh (up to 12/ 2018)						
	Total Expenditure (up to 2/ 2018)	:Rs.162136 Lakhs						
	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	For power evacuation 2x400 Kv line has been approved by TANGEDCO and is to be implemented by TANGEDCO/ TANTRANSCO. The work is yet to be awarded.							
		- 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						
Critical issues		1)Inter-connection & Transmission facilities are by TANGEDCO which is yet to be awarded. The COD is linked to the availability of Start up Power. (2) Approval/NOC from Department of Forests, GoTN for pipeleine and conveyor crossing. (3) Fixation of revised date of availability of start up Power and accordingly the SCOD at TNERC. (4) Approval of Coal Supply, Transport and Handling Agreements by TANGEDCO and TNERC.						
Reasons for Delay								

Sl. No.	Project Details	Unit No.	Capa- city (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	06/19 19-20	19-20	• Boiler: All civil work completed & Boiler erection started. • ESP: All civil foundation work completed. Erection started. • TG: All civil foundation work completed. Condenser & TG erection works yet to start. BOPs • Chimney: Awarded 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.						
• 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. 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	Udangudi STPP TANGEDCO (Distt. Thoothukudi) Tamil Nadu	1	660	12/20 02/21	03/21	12/20 02/21	03/21	Preliminary works Engineering activities, Geo Technical works completed and Approach road works in progress *Topographical survey , Jungle clearences are in progress . *Temporary weigh Bridge Construction is in progress. *Bore Holes 186/186 completed. Captive Coal Jetty for Udangudi Power Project *Test pile completed. *Ready Mix Plant erection work under progress. *Labour colony development completed. *Geo Technical Investigation in land completed. *Approach road works, Load out Jetty. works, Pile liner and fabrication works, and site grading & Leveling works are in progress. *Trestle piling work is in progress Unit-2 has a phase difference of 2 months
	Original Cost/ Latest Cost		: Rs. 13076.70 Crores (Includes cost of Pollution Control Equipments & IDC)					
	Total Expenditure (up to 1/19)		: Rs 194.9504 Cr.					
	Approval date:		:					
	Zero date:		:					
	Financial closure		.					
	Main Plant Order		: Order placed on M/s. BHEL on 07/12/17. (EPC Contract)					
	BOP Package							
	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							
	- 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: CRZ clearance dt. 06.06.2011. Environmental clearance-14.10.2013 - 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								

Eastern Region

BROAD STATUS OF THERMAL POWER PROJECTS IN BIHAR

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch Comm	COD	Syn. Comm	COD		
State Sector									
1.	Barauni Extn TPS P.O.: Barauni, Dist: Begusarai Bihar (BSPGCL) (2x250 = 500 MW)	8	250	02/14 05/14		14.11.17(A) 11.01.18(A)	05/18	Unit-8 Full load achieved on 11.01.18. Boiler: Boiler erection started on 10.12.12. Drum lifted on 05/09/13. Erection of pressure part, ID/FD/PA Fans, APH, piping completed. HT done on 21/08/14. Non drainable Hydro Test completed. Boiler Light Up with LDO on 18.06.2017. SBO completed on 04.09.17. Synchronized on 14.11.17. ESP: Mechanical erection completed and one stream is ready for use. Another stream of ESP is in progress. Insulation & cladding is under progress • TG: Erection of Condenser & TG started on 26/08/14 and 25/08/14 respectively. TG Boxed up on 31/12/15 .TG oil flushing completed in 12/16. Unit-9 Full Load achieved on 31/3/18. • Boiler: Erection started on 02-12-12, Drum lifted on 15.09.13. HT(D) done on 21.09.14. Boiler stage-1 hydro test of unit 9 was successfully completed on 21.09.2014. Non Drainable Hydro Test completed on 10.08.17. BLU done on 29.08.2017, • ESP: Mechanical erection completed. Other works are in progress. • TG: Condenser & TG erection started on 26/08/14. TG Boxup completed 30.06.2016. BoPs: • Chimney: Completed in all respect including aviation light. • CT: Erection of water distribution system, drift eliminators and equipment completed for IDCT of unit#8 and unit#9. • CW System: EOT crane erected. Erection of pumps and motors completed. Trail run is also under progress. • CHP: The work of WT is on hold. WT civil work 60% completed. Geo-Teck survey completed in wagon tipler, M/s BHEL started the isolation of affected structure by cutting through M/s HILTI.Cutting work completed.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	
		9	250	04/14 07/14		31.03.18(A) 31.03.18(A)	06/18		
	Original /Latest Cost		:Rs 3666.06 Cr. / Rs. 5308.07 Cr						
	Expenditure during 2008-09		Rs 25.00 lakhs						
	Expenditure during 2009-10		Rs 00.00 lakhs						
	Expenditure during 2010-11		Rs 12500.00 lakhs						
	Expenditure during 2011-12		Rs 25958.00 lakhs						
	Expenditure during 2012-13		Rs 67706.00 lakhs						
	Expenditure during 2013-14		Rs 145630.00 lakhs						
	Expenditure during 2014-15		Rs 77058.00 lakhs						
	Expenditure during 2015-16		Rs 87030.00 lakhs						
	Expenditure during 2016-17		Rs 64041.00 lakhs						
	Total Expenditure		:Rs 479951 Lakhs (up to 03/17)						
	Approval date:								
	Zero date:		: 11.03.2011						
	Financial closure		: Achieved in 2015 with PFC						
	Main Plant Order		The order for EPC was awarded to M/s BHEL on nomination basis on 11.03.2011						
BOP Package		Order for BOP’s placed on • M/s Mc Nally Bharat Engg. Co. Ltd. for CHP on 15.05.12. • M/s Mc Nally Bharat Engg. Co. Ltd. for AHP on 15.05.12. • M/s Gannon Dunkerley & Co. Ltd. for Chimney on 19.04.12 • M/s Paharpur Cooling tower for CT on 10.08.13.							
Type of fuel		Coal							
PPA		Dt 31.12.2010							
Power Evacuation system		• LILCO at Barauni of Begusarai-Biharsarif 220KV D/C done. Power evacuation system expected to be ready by Dec-2015.							
• Land: Land acquired. except land required for ash dyke and intake water system									
• Water Allocation: Approval for 60 cusec water from River Ganga has been obtained from Irrigation Department, Govt. of Bihar. Approval for 45 cusec water from River Ganga has also been received from Central Water Commission.									
• MOE&F Clearance: MoE&F clearance obtained on 08.05.14.									
• Civil Aviation Clearance: Aviation clearance obtained from AAI 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.
		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							
	Expenditure during 2015-16							
	Total Expenditure		: Not Avialable					
	Approval date:							
	Zero date:		: 30.03.2011					
	Financial closure		:					
	Main Plant Order		M/s Dongfang Electric Corporation Ltd., China					
	BOP Package							
	Type of fuel		Coal					
	PPA							
	Power Evacuation system							
	MOE&F Clearance: MOE&F Clearance received vide letter NO. J-13012/89/2008-IA. II(T) dated 29.06.2011 SPCB Clearance: NOC for consent to establishment obtained from BSPCB. Civil Aviation Clearance: Aviation Clearance has been obtained from Airport Authority of India.							
Critical issues								
Reasons for Delay								

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	270	<u>03/12</u> 04/12	05/12	Uncertain		Phase-I Unit-1: Boiler: Erection started on 05/10/10. Boiler drum lifted on 31/03/11. HT done on 28/12/11. Erection of 3/6 bunker completed. ESP: ESP is ready TG: condenser erection started on 25/05/11, Turbine erection started 15/6/11. TG boxed up in 10/12. Unit-2: Boiler: Erection started on 19/12/10. Boiler drum lifted on 19/07/11. HT completed on 10/12. ESP: ESP is ready TG: condenser erection started on 24/08/11, Tube insertion is under progress Turbine erection started 13/10/11. HPT & IPT placed on the deck. Phase-II Unit-3: Boiler: Erection started on 06/11. Boiler drum lifted on 12/11 ESP TG: TG erection started in 10/12. Unit-4: Boiler: Erection started on 07/11. Boiler drum lifted on 04/12 ESP: TG: TG deck is ready. BoPs: Chimney: Completed in all respect CHP- 98% structure erection completed AHP- FA silo completed. Erection of Bottom Ash Hopper completed. - Station transformer & Unit Transformers and associated systems is in ready. Generator Transformer is placed on foundation. ATS 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.	
		U-2	270	<u>04/12</u> 05/12	06/12	Uncertain			
		U-3	270	<u>09/12</u> 10/12	10/12	Uncertain			
		U-4	270	<u>12/12</u> 01/13	01/13	Uncertain			
	Original Cost /Latest Cost		Ph.-I: Rs. 2900.00 Cr, Ph.-II: Rs.3182.00 Cr						
	Expenditure during 2008-09 Expenditure during 2009-10 Expenditure during 2010-11 Expenditure during 2011-12 Expenditure during 2012-13		Ph-I - .312000 Lakh Rs (upto 11/12) Ph-II – 220700 Lakh Rs. (upto 9/12)						
	Total Expenditure		Ph-I - Rs. 3120 Crores Ph-II - Rs. 2207 Crores						
	Approval date:								
	Zero date:		09/2009 for Phase-I 12/2009 for Phase-II						
	Financial closure		05/12/2009 for Phase-I with REC 28/03/2011 for Phase-II.						
	Main Plant Order		Letter of Acceptance for Main Plant Order (EPC) issued to M/s BHEL on 09/2009.						
	BOP Package		Order for BOP’s placed on - M/s Energo Engg. Projects. Ltd. for CHP on 06.05.10. - M/s DCIPS. for AHP on 08.10.10. - M/s Simplex Infrastructure Ltd. for Chimney on 03.05.10 - M/s Paharpur Cooling tower for CT on 04.05.10.						
	Type of fuel		Coal						
PPA		PPA executed with Lanco Trading Co. in April 2010							
Power Evacuation system		LILO at Barauni of Begusarai-Biharsarif 220KV D/C done. Power evacuation system expected to be ready by Dec-2015.							
Critical issues		1.Associated Transmission System for a short distance is to be taken up after Stage-II forest clearance is obtained.							
Reasons for Delay		Work held up due to payment issue with BHEL since 11/12. Commissioning Schedule will be assessed after restart of work.							

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		Phase-I Unit-1: - Boiler: Boiler erection started in 04/12. - ESP: Foundation work completed. - TG Civil work started in 15.12.11; hall foundation completed. TG building structural fabrication completed. Unit-2 - Boiler: Erection started in 15/12/13 - ESP: Foundation work completed. - TG: TG civil work started on 15/12/13. Phase-II Unit-3 –Work not yet started. BoPs: - Chimney: Order placed on M/s Essar Projects India Ltd.. Windshield work completed. Flue can fabrication 60% completed. - CHP: Order placed on M/s Elecon engg & McNally Bharat Engg.Co - AHP: Basic engineering completed. - CT: Order placed on M/s SPIG Cooling Tower India Pvt. Ltd. - PT & DM Plant: 40% material received. - FPS: Order placed on M/s Brijbasi Hi-tech Udyog Ltd on 15.11.10. - Switchyard: Order placed on M/s Alstom T&D on 22/12/10 Presently no work is in progress due to financial constraints	
		2	600	08/12 09/12	10/12	Uncertain			
		Ph-II 3	600	10/15 12/15	12/15	Uncertain			
	Original /Latest Cost		Rs.570000 Lakh		Rs. 250000 Lakh				
	Expenditure during 2009-10		Phase-I Rs. 10641 Lakh		Phase-II 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 - M/s Mc Nally Bharat Engg. Co. Ltd. And Elecon Engg. For CHP on 22.09.10 & 31.08.10. - M/s Mc Nally Bharat Engg. Co. Ltd. for AHP on 15.09.11. - M/s Essar Projects India Ltd. for Chimney on 18.08.10 - M/s SPIG Cooling tower India Pvt. Ltd for CT on 19.11.10.							
Type of fuel		COAL							
PPA		1.450MW+300MW with BSEB 2.PPA signed with JSEB for 12% of the total power generated at variable cost under MoU route 3. Draft PPA submitted to JUVNL for 13% of the total power generated at JSERC rates under MoU route.							
Power Evacuation system		BPTA signed with PGCIL and bay agreement executed. PGCIL is setting up 400KV substation near the project.							
		- Land 1210 acres of land required for both the Phases I&II of (2x600 +1x600 MW) is available. - BOPs are common for both units. - MOEF clearance already available for U-I of Phase-I. Clearance for U-2 of Phase-I and U-3 Phase 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 to cooled condenser due to water availability issue, Law & order issue, delay in grant of Mega power project status, cancellation of c 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			
				Synch Comm	COD	Syn. Comm	COD		
State Sector									
1.	Ib Valley TPP Village : Banaharpalli, Dist: Jharsaguda (OPGC) (2x660 = 1320 MW)	3	660	08/17 08/17	09/17	01/19 02/19	03/19	Unit-3: Boiler: Chemical cleaning completed on 17-Dec-18, Temporary piping for Steam Blowing is in progress. ESP 3: Mechanical Erection completed, Commissioning in progress. - TG Unit-3: Barring Gear achieved. Unit-4: Boiler: Steam blowing completed on 10-Dec-18, restoration of temporary pipes in progress. ESP4: Mechanical Erection completed, Commissioning in progress. TG Unit-4: Barring Gear achieved. ESP ACP Charging – Pass A completed on 14-Nov-18. Unit-3 Auxiliary Equipment: Erection in progress: Duct & Duct Insulation. Commissioning completed: MDBFP, ID, FD, PA, ACW, DMCW, CEP Boiler Fill Pump, Compressor, Switchgear, Aux Boiler, BCP, Vacuum Pump. Commissioning in progress: TD BFP Unit-4 Auxiliary Equipment: HPBP valve flushing in progress. Erection in progress: Duct Insulation, LP Piping. Erection completed: ID 4A, APH 4A, PA 3A & 3B Commissioning Completed: ACW, DMCW, Boiler Fill Pump , FD 4B , Switchgear, CEP, Furnace ATT, BCP, MDBFP, APH 4B, ID 4B. Main Plant Civil & Structural Work: All major civil work completed. FGD Plant: Consultant finalized, Tender for EPC contract is published & Bidding in progress. BoPs: Chimney: Work completed. CHP: All major civil work is completed, TPs Floors in BTG area in progress. Structural erection work completed, Commissioning work in progress. Electrical: All switchgears charged. Commissioning of 12A/B, TP 12, 13A/B, TP-13, Crushers, Stacker reclaimers, DSS, Peddle feeder & Conveyer 11A/B to 14 A/B , Conveyer 26A/B. Coal unloading and stacking started. AHP: Civil works of Ash water & Ash Slurry Pump, Chemical house, Bottom Ash Hopper, Buffer House & Ash Clarifier completed. Mechanical works of Ash Slurry and Water Pumps erection, HCSD, Chemical House completed and work of Pipe Rack Piping in progress. Electrical work of All MCC and transformer erection completed. Commissioning of Cabling in progress. - Ash Pond Phase-I about to complete & Phase-2 work commenced. Cooling Towers: Commissioning of IDCT 3 & IDCT 4 completed. PT Plant: Raw water and PT Plant both steam Commissioned DM Plant: DM plan one stream commissioned. CW System: All CW pumps commissioning completed. CW chlorination commissioning completed. F P System: Pump House Commissioning work is Completed. Fire hydrant and spray pipe laying major work completed. FO System: LDO & HFO system Commissiong Completed. Switchyard: Unit#3 and Unit#4. Switchyard back charged and under operation.	
		4	660	12/17 12/17	01/18	12/18 01/19	01/19		
	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							
	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							
LAND: Required land is in possession of OPGC except the 97 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									

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch Com m	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)	Unit-1: Full load achieved on 25.02.16. COD declared on 20.07.2016. - Boiler: Boiler erection started in 01/11, Erection of feeders & tripper, all bunkers & Liners erection and mills completed. SBO completed on 15.12.14. Drum lifted on 30.5.11, HT completed on 24.05.12. BLU completed on 9.01.15. - ESP: work completed - TG: TG erection commenced in 5/12. TG boxed up on 23.05.14, Oil flushing completed on 10.10.14. Unit synchronized on 18.06.15 Unit-2: Boiler: Boiler erection started in 05/11, Drum lifted on 26.12.11. HT(D) completed on 20.05.14. ESP: Erection completed insulation & cladding of ESP and hot gas ducts is in progress. TG: TG erection started in 09/12.Erection of TG & condenser completed.TG boxed up to be re-inspected and final Box up is in progress. BoPs: Chimney: Completed for both the units. CHP: structural erection completed and electrical work in progress, Track hopper completed, Bunker, coal feeder and mills erection completed. Tripper erection completed AHP: U-2 BAH expected in 12/17 and F/A system work is in progress. CT: completed for U-1 and that for U-2 is in progress. PT Plant: completed DM plant: Ready to use., already functional for U-1. CW system: Already functioning for U-1. FO System: for U-1 & U-2 completed. Switchyard: completed in all respect and is being used for evacuation of power for U-I.	
		2	350	10/11 12/11	12/11	Stressed			
	Original / Latest Cost		Rs 3150.00 Cr. / 4001.00 Cr						
	Expenditure during 2010-11		Rs 100000 lakhs						
	Expenditure during 2011-12		Rs 85000 lakhs						
	Expenditure during 2012-13		Rs 110000 lakhs						
	Expenditure during 2013-14		Rs 47000 lakhs						
	Expenditure during 2014-15		Rs 54800 lakhs						
	Expenditure during 2015-16		Rs 26200 lakhs						
	Expenditure during 2016-17		Rs 2300 lakhs						
	Expenditure during 2017-18		Rs 100 lakhs						
	Total Expenditure		Rs 4254.00 Cr (up to 04/17)						
	Approval date:		29.03.2010						
	Zero date:		16.05.2009						
	Financial closure		FC achieved on 14.05.2008 with M/s Axis Bank Ltd.						
	Main Plant Order		Cethar Vessel(16.05.2009) Chinese						
	BOP Package		Awarded to punj Lloyd on 07.01.2010						
	Type of fuel		Coal and Fuel Linkage MCL						
	PPA		PPA signed with GRIDCO on 14.9.09 & TNEB on 8.8.13.						
	Power Evacuation system		Bulk Power Transmission Agreement (BPTA) with PGCIL in 24.02.2010						
		- Land: Required land acquired - MOEF: Clearance of MOEF has been obtained on 30.11.2009 - Water: Approval to draw water from Mahanadi river obtained on 23.02.2008 - SPCB: Clearance obtained from Orissa SPCB on 13.08.2010 - Civil Aviation: Clearance obtained from AAI on 14.07.09							
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. Mainlv 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 footing raft completed.. JTs foundation work completed. Crusher house civil work completed. • AHP: RCC of BAH#1 completed. Raft footing completed and wall final lift is in progress for ASPH. Ash silo raft#1 completed. 8/26 nos. footing completed for Ash compressor house building • PT/DM plant: Foundation work completed. DM building structure erection completed and equipment erection in progress. Clarifloculator ring wall in progress. DM tank-1 erection completed. • FO system: 2LDO + 2HFO fuel oil tanks erection completed. LDO-2 water fill test completed. • Switch yard: Erection of 23 nos. towers & 18 nos. of beam completed. S/Y equipment received at site. Control room building brick work completed and preparation for slab casting has started. Presently work at site almost held up due to financial constraint
		2	660	06/13 08/13	09/13	Stressed		
	Original / Latest Cost		:Rs 6930.00 Cr. / Rs. 10430.00 Cr					
	Expenditure during 2010-11		Rs 135000 lakhs					
	Expenditure during 2011-12		Rs 214100 lakhs					
	Expenditure during 2012-13		Rs 78400 lakhs					
	Expenditure during 2013-14		Rs 54700 lakhs					
	Expenditure during 2014-15		Rs 62200 lakhs					
	Expenditure during 2015-16		Rs 128000 lakhs					
	Expenditure during 2016-17		Rs 89100 lakhs					
	Total Expenditure		Rs 7615.00 Cr(up to 03/17)					
	Approval date:							
	Zero date:		17.11.2009					
	Financial closure		Achieved on 08.09.2010					
	Main Plant Order		Main plant order placed on Lanco Infaratec Ltd. On 17/11/2009, Boiler: DEC China, TG: HEC China.					
	BOP Package		BOPs to LTTL					
	Type of fuel		Coal					
PPA		Revised PPA signed with GRIDCO, Odisha for 25% power sale on 4.01.11. LBPL signed PPA with UPPCL for 454MW on 08.08.13 & with RVPNL for 374MW on 01.11.13.						
Power Evacuation system		BPTA signed with PGCIL for 1600 MW on 24.02.10(Revised to 800MW as per CERC order). 25KM of transmission line is planned for power evacuation from LBPL project to PGCIL Angul pooling station. The power shall be evacuated at 400KV level through 1 D/C quad Moose transmission conductor. Section 68 and Section 164 approval received from MoP.						
		• Land: 889 acres out of 933 acres' land acquired. (95%) • MoE&F: Clearances obtained on 17.02.10 and is valid upto 31st Mar 2017 • Forest: II-Stage clearance received on 31.12.13 from MoEF • Water: Principle approval received for 40 cusecs water for U-1 &U-2 on 07.02.09. Renewal received on 18th Jan'16 • Coal linkage: Coal linkage for U-1 received on 29.12.08 for 2.83MTPA. FSA has been executed with MCL on 26.04.16. • SPCB: NOC obtained on 20.05.09 from Odisha SPCB and it is valid till 19.05.19 • Civil Aviation: NOC obtained on 03.09.08 and valid till 02.09.2020						
Critical issues		1. Work was held up due to financial constraints, now the work restarted. 2.Acquisition of Ash pond and corridor land. 3. Transfer of Govt. land to the project.4.LBPL has requested MoC/MoP to grant normal Linkage in lieu of cancellation of Rampia Coal Mine for Unit#2						
Reasons for Delay		Work almost held up due to financial constraint presently.						

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*	----	Unit-1: • Boiler: Erection started on 18.08.11. Erection of pressure part is in progress, welding of HP joints is in progress. Feeder floor casted, 4 mills installed and 4 mills are yet to be installed. • Drum lifted on 21.03.12., HT completed on 3.4.13 Boiler light up expected after restart of work. • ESP: All 4 passes completed and air test done. Control room completed, panel erection and cabling done. • TG: Condenser erection started on 01.08.12, Turbine erection started on 28.01.13. Generator stator erected, TG box up yet to be done. Unit-2: • Boiler: Erection started on 10.10.11, 4 out of 8 mills are installed, foundation of PA and FD fans completed. Drum lifted 21.07.12. HT & BLU may be assessed after start of work. • ESP: Erection of pass B, C & D done and pass A yet to be done. • TG: Condenser erection started on 7.02.13 and TG erection started in 08/2015, TG box up may be assessed after restart of work. BoPs: • Chimney: Chimney shell casting completed flue can erection for U-I completed, for U-II two top segments erected. • CHP: Fabrication and erection of CHP structure are in progress along with equipment erection could be completed after restart of work. • AHP: Civil work for ash slurry sump, pump house, ash water pump house and silos completed. Pipe erection was in progress. • IDCT: Orders placed to M/s Indure 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. *Work held up due to financial constraints		
		2	525	12/12 02/13	03/13	Uncertain*	----			
	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.							
		• 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		Unit-1: Boiler: Boiler erection started on 20.06.11, structural erection started. Drum lifting may be completed after restart of work. ESP: Foundation work completed, structural erection completed upto hopper level. TG: Deck casting partially completed, Foundation of all three MDBFPs completed. BoPs: Chimney: 90 mtr. Chimney shell completed. Note: No work is under progress presently.	
		2	350	01/12 02/12	03/13	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						
	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							

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.
		2	150	01/16 2/16	02/16	31/12/17 (A) 31/12/17(A)	31/12/17(A)	
		3	150	05/16 05/16	05/16	*	*	
	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.						
		• Land: Complete land acquired 213.71 acre, 198 from Haldia Development authority and rest from private. • MoE&F: Clearances extended on 30.08.15 upto 12.04.2017 vide letter No. J-13213/16/2014-IA. I(T) • Water: 15 MGD water is available from Haldia Development authority. • SPCB: NOC received from GoWB. • Coal linkage: Long term coal supply agreement No: SNRL/IPC(H)L/FSA 2015-16 between M/s Swaymbhu natural resources private limited and M/s India Power Corporation (Haldia) Ltd. • Civil Aviation: NOC vide letter No.AAI/20012/82/2010-ARI(NOC) date 23.10.2010 for construction of chimney extended upto 22.06.2022.						
		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 erectionand floor casting of srusher house is completed.Stacker cum reclaimr has installed. Erection of galleries from coal stack yard to TP-1&2 is completed. Gallery from TP-2 to bunkers of U-1 is completed. Conveyor belt laid 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 completedin all respect. FGD: detailing of feasibility report is under process.						
		*Unit-3 work is totally on hold.						
Critical issues								
Reasons for Delay		Construction activity was stalled from beginning of 2011 to Sept 2014 due to following reasons: 1. Fresh clearance from Pollution Control Board for 3x150MW (Earlier it was acquired for 3x135MW) 2. MOEF moratorium for no construction activity in Haldia & Asansol industrial area in West Bengal						

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 Distt:Dibrugarh (Assam) APGCL	69.755					<u>Gas Engine-1 &GTG:</u> Cranking and FSNL test conducted on 05.02.18 and synchronized on 10.02.18. <u>Gas Engine-2 &GTG:</u> Cranking and FSNL test conducted on 05.02.18 and synchronized on 06.02.18. <u>Gas Engine-3 &GTG:</u> Cranking and FSNL test conducted on 06.02.18 and synchronized on 08.02.18 <u>Gas Engine-4 &GTG:</u> Cranking and FSNL test conducted on 05.02.18 and synchronized on 09.02.18 <u>Gas Engine-5 &GTG:</u> Cranking and FSNL test conducted on 06.02.18 and synchronized on 11.02.18 <u>Gas Engine-6 &GTG:</u> Cranking and FSNL test conducted on 5.2.18 and synchronized on 13.02.18 <u>Gas Engine-7 &GTG:</u> Cranking and FSNL test conducted on 05.02.18 and synchronized on 14.02.18 2.099 Acres of land was available with the project. - EPC contract was awarded to Consortium of Wartsila India Pvt Ltd and Wartsila Finland OY on 15.12.2015.	
	Gas Engine-1	9.965			<u>10.02.18</u>	26.04.18		
	Gas Engine-2	9.965			<u>06.02.18</u>			
	Gas Engine-3	9.965			<u>08.02.18</u>			
	Gas Engine-4	9.965			<u>09.02.18</u>			
	Gas Engine-5	9.965			<u>11.02.18</u>			
	Gas Engine-6	9.965			<u>13.02.18</u>			
	Gas Engine-7	9.965			<u>14.02.18</u>			
	Date of sanction of the project							
	Project sanctioning Authority		Govt of Assam					
	Date of Investment Approval							
	Org. Est. cost		Rs 26750 Lakhs					
	Latest cost		Rs 26750 Lakhs					
	Exp. During 2015-16 Exp. During 2016-17 Exp. During 2017-18 Exp. During 2018-19 (06/18)		Rs 2461 Lakhs Rs 10571 Lakhs Rs 10109 Lakhs Rs 1473 Lakhs					
	Cumulative exp. up to(06/18)		Rs 24614 Lakhs					
	Date of Main Plant Order (LOI)		: Consortium of Wartsila India Pvt Ltd and Wartsila Finland OY (EPC) on M/s					
	Zero date of the project		: 15.12.2015.					
	Type of fuel		Natural Gas					
	Fuel Source		NA					
	Power Evacuation		NA					
	<u>Reason for Delay:</u> NIL							
	<u>Critical Issue:</u> 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					GT&GTG: GT synchronized on 03.01.17 and Commissioned on 11.01.17 (open cycle). Assembling of repaired Load Gear Box and Gas turbine is in progress at site. GT put on barring gear on 01.03.2016 and cranking completed on 05.08.16. FSNL achieved on 3.1.17. ST: TG Hall roof collapsed 09.07.2018. Reinforcement of roof structure and assessment of damage to STG is being done at site. ST synchronization is likely to be delayed. 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. 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 • 30 Acres of land required for the project. • 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	09/19 10/19	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				
	Type of 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		- Readiness of firefighting system. - TG hall roof and TG restoration.				
	Reason for Delay:		- 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. - TG hall roof collapse.				

LIST OF ABBREVIATIONS

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