



**भारत सरकार
विद्युत मंत्रालय**

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

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

**अगस्त-2017
August – 2017**



**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 equipments from time to time.

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

Place: New Delhi
Dated: 4th October, 2017


(Vandana Singhal)
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 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 30th Sept'2017)

SECTOR	CAPACITY (MW)
CENTRAL	21990
STATE	18086.15
PRIVATE	25785
TOTAL	65861.15

1. D. Thermal capacity addition during 2017-18 (MW)

(As on 30th September, 2017)

Thermal capacity addition achieved during 2017-18 (MW)		
Sector	Target (MW)	Achievement(MW) Total
Central	4880	910
State	3546.15	660
Private	2940	1680
Total	11366.15	3250
Additional Capacity Achieved during Quarter1		
Private		1050
Grand Total		4300

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	
								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)
Haryana	Indira Gandhi TPP	APCPL	U-3	Jul-07	BHEL	500	500	12/12	07.11.12(A)
Jharkhand	Kodarma TPP	DVC	U-2	Jun-07	BHEL	500	500	12/12	15.02.13(A)
Maharashtra	Mouda TPP	NTPC	U-1	Nov-08	BHEL	500	500	07/12	19.04.12(A)
Maharashtra	Mouda TPP	NTPC	U-2	Nov-08	BHEL		500		29.03.13(A)
MP	Vindhyachal TPP-IV	NTPC	U-11	Jan-09	BHEL	500	500	07/12	14.06.12(A)
MP	Vindhyachal TPP-IV	NTPC	U-12	Jan-09	BHEL		500		22.03.13(A)
TN	Vallur TPP Ph-I	NTECL	U-2	Aug-07	BHEL	500	500	02/13	28.02.13(A)
Tripura	Tripura Gas	ONGC	Module-1	Jun-08	BHEL	363.3	363.3	11/12	03.01.13 (A)
UP	Rihand TPP-III	NTPC	U-5	Feb-09	BHEL	500	500	06/12	25.05.12(A)
			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)
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)
Gujarat	Pipavav CCPP	GSECL	Block-2	Dec-07	BHEL	351	351	01/13	27.03.13(A)
	Ukai TPP Extn	GSECL	U-6	Sep-07	BHEL	490	490	12/12	05.03.13(A)
Rajasthan	Ramgarh CCGT	RRVUNL	GT	Aug-09	BHEL	110	110	01/13	20.03.13(A)
	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)
TN	Mettur TPP Ext	TNEB	U-1	Aug-08	Chinese	600	600	06/12	11.10.12(A)
	North Chennai Extn.	TNEB	U-2	Aug-08	BHEL	600	600	03/13	09.03.13(A)
UP	Harduaganj Ext	UPRVUNL	U-9	Jun-06	BHEL	250	250	05/12	25.05.12(A)
	Parichha Extn	UPRVUNL	U-5	Jun-06	BHEL	250	250	06/12	24.05.12(A)
	Parichha Extn	UPRVUNL	U-6			250	250	09/12	11.03.13(A)
			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)
	Thamminapatnam TPP-I	Meenakshi Energy Pvt. Ltd.	U-1	Aug-09	Chinese	150	150	08/12	09.09.12(A)
	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)
	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)

State	Project Name	Impl Agency	Unit No	LOA Date	BTG Supplier	Targeted Cap. (MW)	Actual Cap .comm. (MW)	Comm. Date	
								Envisaged at the beginning of year	Ant. /Act(A)
Gujarat	Mundra Ultra Mega TPP	Tata Power Co.	U-2	May-07	Others	800	800	12/12	25.07.12(A)
	Mundra Ultra Mega TPP	Tata Power Co.	U-3	May-07	Others		800		16.10.12(A)
	Mundra Ultra Mega TPP	Tata Power Co.	U-4	May-07	Others		800		16.01.13(A)
	Mundra Ultra Mega TPP	Tata Power Co.	U-5	Jun-07	Others		800		18.03.13(A)
	UNO-SUGEN CCPP	Torrent Power Ltd.	Mod-1		Others		382.5		20.01.13(A)
	Salaya TPP	ESSAR	U-2	Nov-07	Chinese	600	600	08/12	13.06.12(A)
Haryana	Jhajjar TPP (Mahatma Gandhi TPP)	CLP Power India Pvt. Ltd.	U-2	Jan-09	Chinese	660	660	04/12	11.04.12(A)
Jharkhand	Adhunik Power TPP	Adhunik Power Co. Ltd.	U-1	May-09	BHEL	270	270	09/12	19.11.12(A)
	Adhunik Power TPP	Adhunik Power Co. Ltd.	U-2	May-09	BHEL		270		29.03.13(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)
	Butibori TPP Ph-II	Vidarbha Industries Power	U-1	Dec-09	Chinese	300	300	08/12	17.08.12 (A)
	EMCO Warora TPP	EMCO Energy Ltd. (GMR)	U-1	Sep-09	Chinese	300	300	11/12	07.02.13(A)
	Tirora TPP Ph-I	Adani Power Ltd	U-1	Feb-08	Chinese	660	660	08/12	11.09.12(A)
	Tirora TPP Ph-I	Adani Power Ltd	U-2			660	660	11/12	25.03.13(A)
	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)
	Amaravathi TPP Ph-I	Indiabulls	U-1		BHEL		270		25.03.13(A)
MP	Bina TPP	Bina Power Ltd.	U-1	Sep-08	BHEL	250	250	09/12	12.08.12(A)
	Bina TPP	Bina Power Ltd.	U-2	Sep-08	BHEL		250		31.03.13(A)
	Mahan	Essar Power Ltd.	U-1		Chinese		600		24.02.13(A)
Orissa	Sterlite TPP	Sterlite Energy Ltd.	U-4	Sep-08	Chinese	600	600	06/12	25.04.12(A)
	Kamalanga TPP		U-1		Chinese		350		29.03.13(A)
Rajasthan	Jallipa-Kapurdi TPP	Raj west power Ltd (JSW)	U-5	Mar-07	Chinese	135	135	03/13	05.02.13(A)
			U-6	Apr-07	Chinese		135		03.03.13(A)
			U-7	Jun-07	Chinese		135		16.03.13(A)
			U-8	May-07	Chinese		135		28.02.13(A)
TN	Tuticorin TPP	Ind Barath	U-1		Chinese		150		10.03.13(A)
			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							As on 31.03.14		
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
CENTRAL SECTOR									
Bihar	Barh STPP St-II	NTPC	4	03/08&10/08	BHEL	660	660	30/11/13	12/13
TN	Vallur TPP Ph-I	NTPC/ NTECL/ TNEB-JV	3	07/09	BHEL	500	500	28.02.2014	03/14
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
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
Delhi	Pragati St-III CCGT	PPCL	ST-2	05/08	BHEL	250	250	26.02.2014	09/13
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
MP	Satpura TPS Extn.	MPPGCL	11	03/08	BHEL	250	250	25/12/2013	10/13
Maharashtra	Chandrapur TPS Extn.	MAHAGENCO	8	07/08	BHEL	500		Slipped	12/13
Rajasthan	Kalisindh TPP	RRVUNL	1	07/08	SEPCO, CHINA	600		Slipped	12/13
Rajasthan	Chhabra TPS Extn.	RRVUNL	3	08/08	BHEL	250	250	14/09/13	06/13
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
			Total -State Sector			4451	3051		
PRIVATE SECTOR									
AP	Vizag TPP	Hinduja	1	03/10	BHEL	520			03/14
AP	Thamminapatnam TPP	Meena-kshi Energy	2	08/09	Chinese	150	150	17/04/13	09/13
Chhattisgarh	Tamnar TPP	Jindal Power	1	12/08	BHEL	600	600	10.03.2014	03/14
Chhattisgarh	Vandana Vidyut TPP	Vandana Vidyut TPP	1	05/08	BOILER: CETHAR VESSELS LTD TG: CNAIC, CHINA	135		Slipped	06/13
Chhattisgarh	DB Power TPP	DB Power Ltd	1	05/10	BHEL	600	600	23.02.2014	12/13
Chhattisgarh	Swastik Korba TPP	ACB	1	02/10	BOILER: IJT; TURBINE: SIEMENS	25		Slipped	12/13
Chhattisgarh	Akaltara TPP	KSK Mahanadi	1	04/09	SEC,CHINA	600	600	13/08/13	09/13
MP	Sasan UMPP	Reliance Power	3	06/08	SEC, CHINA	660	660	30/5/13	05/13
MP	Sasan UMPP	Reliance Power	2	06/08	SEC, CHINA	660	660	18/12/13	09/13
Maharashtra	Nasik TPP Ph-I	India Bulls	1	11/09	BHEL	270	270	25.02.2014	09/13

State	Project Name	Impl Agency	Unit No	LOA Date	BTG Supplier	Targeted Cap. (MW)	Actual Cap .comm. (MW)	Comm. Date	At the beginning of the year
Maha-rashtra	Dhariwal Infrastructure (P) Ltd.TPP	Dhariwal Infra-structure (P) Ltd.	1	04/10	SEC, CHINA	300	300	3/11/2013	06/13
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
Maha-rashtra	Tirora TPP Ph-II	Adani Power	1	02/08	SCMEC, CHINA	660	660	10/6/2013	06/13
Orissa	Derang TPP	Jindal India Thermal Power	1	07/09	BHEL	600		Slipped	12/13
Orissa	Kamalang TPP	GMR Energy	2	08/08	SEPCO III, CHINA	350	350	28/09/13	09/13
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	
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	
MP	Niwari TPP	BLA Power Pvt.Ltd	1		Chinese		45	10/12/2013	
TN	Tuticorin Indbarath	Indbarath Ltd	2		Chinese		150	30/12/2013	
Punjab	Rajpura TPP	Nabha Power	1	Jul-10	L&T		700	24/01/2014	
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	
AP	Simhapuri TPS Ph-II	Simhapuri Energy Pvt Ltd	3	Mar-10	Chinese		150	21.02.2014	
Gujarat	Dgen CCPP	Torrent Power	Block-3	Jul-10	Siemens Germany		400	09/03/2014	
Orissa	Kamalang TPP	GMR Energy	3	08/08	SEPCO III, CHINA		350	21/03/14	
Maha-rashtra	Tirora TPP Ph-II	Adani Power	2	02/08	SCMEC, CHINA		660	23/3/2014	
MP	Sasan UMPP	Reliance Power	4	06/08	SEC, CHINA		660	25/03/14	
Chhattis-garh	Tamnar TPP	Jindal Power	2	12/08	BHEL		600	30.03.2014	
Chhattis-garh	Chakabura TPP	ACBIL	1		Chinese		30	28.03.2014	
West Bengal	Durgapur TPS Extn	DPL	8		BHEL		250	31.03.2014	
Chhattis-garh	Avantha Bhandar TPP	KWPCL	1		BHEL		600	31.03.2014	
Maha-rashtra	Butibori TPP Ph-II	Vidarbha Industries Power Ltd	2		Chinese		300	31.03.2014	
			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
CENTRAL SECTOR										
Bihar	Barh STPP-II	NTPC	BHEL	Coal	U-5	SG:03/2008 TG:10/2008	660	660	04.03.2015	Feb-15
	Muzaffarpur TPS Exp	KBUNL (JV of NTPC & BSEB)	BHEL	Coal	U-3	03/2010	195	195	31.03.2015	Mar-15
TN	Tuticorin TPP	NTPL (JV of NLC & TANGEDCO)	BHEL	Coal	U-1	28.01.09	500	500	10.03.2015	Oct-14
			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
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
					U-2		800	800	17.03.2015	Jan-15
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
	Koradi TPS Expn.	MSPGCL	L&T	Coal	U-8	23.09.09	660	660	30.03.2015	Oct-14
	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
Rajasthan	Kalisindh TPP	RRVUNL	Chinese	Coal	U-1	09.07.08	600	600	02.05.2014	Jun-14
	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
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
	Vizag TPP	Hinduja National Power Corp.Ltd	BHEL	Coal	U-1	03/2010	520		Slipped	Oct-14
Chhattisgarh	Swastic Korba TPP	ACB India Ltd.	Blr:ISGE C India TG:Siemens India	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
	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
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
Orissa	Derang TPP	JIPL	BHEL	Coal	U-1	26.07.09	600	600	10.05.2014	Jun-14
Punjab	Rajpura TPP (Nabha)	Nabha Power Ltd	L&T	Coal	U-2	16.07.10	700	700	06.07.2014	Jul-14
Punjab	Talwandi Sabo TPP	M/s Sterlite	Chinese	Coal	U-1	18.07.09	660	660	17.06.2014	May-14
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
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
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	
MP	Sasan UMPP	SPL	Chinese	Coal	Unit-5			660	24.08.2014	
Chhattisgarh	Akaltara TPP	KSK	Chinese	Coal	Unit-2			600	22.08.2014	
MP	Nigrie TPP	JPVL	L&T	Coal	Unit-1			660	29.08.2014	
Maharashtra	Tirora TPP Ph-II	Adani Power Maharashtra Pvt Ltd	Chinese	Coal	Unit-3	05.11.2009		660	25.09.2014	
TN	Mutiara TPP	Coastal Energen	Chinese	Coal	Unit-1	25.02.2009		600	02.12.2014	
Chhattisgarh	Tamnar TPP (Raigarh)	Jindal Power	BHEL	Coal	Unit-3			600	07.01.2015	
Orissa	Derang TPP	JIPL	BHEL	Coal	U-2			600	24.01.2015	
TN	Neyveli TPS Ph-II Exp	NLC	BHEL	Coal	U-2			250	24.01.2015	
WB	Haldia TPP	M/s Haldia Energy Ltd.	Chinese	Coal	U-2			300	16.02.2015	
MP	Nigrie TPP	JP Ventures Ltd	Non-BHEL	Coal	U-2			660	17.02.2015	
Chhattisgarh	Raikhera TPP	GMR	Chinese	Coal	U-1			685	27.02.2015	
Maharashtra	Amravati TPP Ph-I	India Bulls Power Ltd	BHEL	Coal	U-4	30.11.09		270	04.03.2015	
AP	Simhapuri	Simhapuri Energy Pvt Ltd	Chinese	Coal	U-4			150	07.03.2015	
Maharashtra	Amravati TPP Ph-I	India Bulls Power Ltd	BHEL	Coal	U-5	30.11.09		270	12.03.2015	
MP	Sasan UMPP	SPL	Chinese	Coal	Unit-6			660	19.03.2015	
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	
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.
CENTRAL SECTOR									
Assam	Bongaigaon TPP	NTPC	U-1	BHEL	250	06/2015		250	22.06.15(A)
Bihar	Muzafferpur	NTPC	U-4	BHEL	195	02/2016	03/2016		
Bihar	Nabi Nagar TPP	NTPC	U-1	BHEL				250	20.03.16(A)
Jharkhand	Bokaro TPS "A" Exp.	DVC	U-1	BHEL				500	22.03.16(A)
Maharashtra	Mouda STPP-II	NTPC	U-3	BHEL				660	28.03.16(A)
MP	Vindhyachal TPP-V	NTPC	U-13	BHEL	500	12/2015		500	06.08.15(A)
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)
WB	Raghunathpur TPP,Ph-I	DVC	U-2	Chinese	600	01/2016		600	18.01.16(A)
		Total Central Sector			2106.1			3295.6	
STATE SECTOR									
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)
Karnataka	Bellary TPS St-III	KPCL	U-3	BHEL	700	12/2015	01/2016	700	01.03.16(A)
Karnataka	Yermarus TPP	KPCL	U-1	BHEL	800	01/2016	02/2016	800	29.03.16(A)
Maharashtra	Chandrapur TPS	MSPGCL	U-9	BHEL	500	10/2015	02/2016	500	21.03.16(A)
Maharashtra	Koradi TPS Expn.	MSPGCL	U-9	L&T	660	09/2015	02/2016	660	15.03.16(A)
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)
Rajasthan	Kalisindh TPP	RVUNL	U-2	Chinese	600	05/2015		600	06.06.15(A)
Telangana	Singareni TPP	Singareni Collieries Co Ltd	U-1	BHEL	600	01/2016	03/2016	600	13.03.16(A)
Telangana	Kakatiya TPS Extn.	T GENCO	U-1	BHEL	600	12/2015	12/2015	600	31.12.15(A)
UP	Anpara-D TPS	UPRVUNL	U- 6	BHEL	500	06/2015		500	06.06.15(A)
UP	Anpara-D TPS	UPRVUNL	U- 7	BHEL	500	12/2015	02/2016	500	06.03.16(A)
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	
PRIVATE SECTOR									
AP	Painampuram TPP	Thermal Power Tech Corporation Ltd	U-2	Chinese	660	08/2015		660	03.09.15(A)
AP	Vizag TPP	Hinduja National Power Corp. Ltd	U-1	BHEL	520	10/2015	02/2015	520	27.12.15(A)
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)
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)
Chhattisgarh	Uchpinda TPP	RKM Powergen Pvt. Ltd	U-2	Chinese				360	28.01.16(A)
Chhattisgarh	BALCO TPP	BALCO Pvt Ltd	U-1	Chinese	300	06/2015		300	05.06.15(A)
Chhattisgarh	BALCO TPP	BALCO Pvt Ltd	U-2	Chinese	300	09/2015	02/2016	300	24.03.16(A)
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)
M.P	Seoni TPP Ph-I	Jhabua Power Ltd	U-1	BHEL				600	22.03.16(A)
MP	Anuppur TPP Ph-I	MB Power(MP)	U-2	Chinese				600	30.03.16(A)
Orissa	Ind Bharat TPP (Orissa)	Ind Barath	U-1	Chinese	350	10/2015	01/2016	350	25.02.16(A)
Punjab	Talwandi Sabo TPP	Talwandi Sabo Power Ltd	U-2	Chinese	660	06/2015		660	30.10.15(A)
Punjab	Talwandi Sabo TPP	Talwandi Sabo Power Ltd	U-3	Chinese	660	12/2015	03/2016	660	29.03.16(A)
Punjab	Goindwal Sahib TPP	GVK Power	U-1	BHEL				270	14.02.16(A)
Punjab	Goindwal Sahib TPP	GVK Power	U-2	BHEL				270	15.03.16(A)
TN	ITPCL TPP	IL&FS TN PC.Ltd	U-1	Chinese				600	19.09.2015
TN	Melamaruthur (Mutiar)	Coastal Energen	U-2	Chinese				600	02.01.16(A)
UP	Lalitpur TPP	Lalitpur power Generation Co. Ltd	U-1	BHEL	660			660	26.03.16(A)
UP	Lalitpur TPP	Lalitpur power Generation Co. Ltd	U-2	BHEL		09/2015		660	08.01.16(A)
UP	Prayagraj (Bara) TPP	Prayagraj power Gen. Co. Ltd(J.P.Power Ventures)	U-1	BHEL	660	10/2015		660	25.12.15(A)
		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
		<u>CENTRAL SECTOR</u>							
1	Bihar	Nabinagar TPP	U-2	NTPC	BHEL	250	12-2016		
2	Bihar	Kanti TPS St-II	U-4	NTPC	BHEL	195	09-2016	24.03.2017	195.0
3	Chhattisgarh	Lara STPP	U-1	NTPC	NON BHEL	800	01-2017		
4	Karnataka	Kudgi TPP	U-1	NTPC	NON BHEL	800	11-2016	25.12.2016	800.0
5	Maharashtra	Mauda STPP-II	U-4	NTPC	BHEL	660	12-2016	18.03.2017	660.0
6	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>							
1	Assam	Namrup CCGT	GT	APGCL	BHEL	70	09-2016	11.01.2017	62.25
2	Assam	Namrup CCGT	ST	APGCL	BHEL	30	09-2016		
3	Bihar	Barauni TPP,	U-8	BSEB	BHEL	250	12-2016		
4	Chhattisgarh	Marwa TPS	U-2	CSPGCL	BHEL	500	06-2016	15.07.2016	500.0
5	Gujarat	Bhavnagar TPP	U-1	BECL	BHEL	250	06-2016	16.05.2016	250.0
6	Gujarat	Bhavnagar TPP	U-2	BECL	BHEL	250	08-2016	27.03.2017	250.0
7	Karnataka	Yermarus TPP	U-2	KPCL	BHEL	800	07-2016	29.03.2017	800.0
8	Maharashtra	Koradi TPP	U-10	MSPGCL	NON BHEL	660	08-2016	28.12.2016	660.0
9	Telangana	Singreni TPP	U-2	SCCL	BHEL	600	06-2016	25.11.2016	600.0
10	West Bengal	Sagardighi TPS-II	U-4	WBPDCL	BHEL	500	09-2016	15.12.2016	500.0
			Total State			3910			3622.25
		<u>PRIVATE SECTOR</u>							
1	Andhra pradesh	Sembcorp Gayatri Pvt.ltd.(NCC TPP)	U-1	SGPL	NON BHEL	660	09-2016	12.11.2016	660.0
2	Andhra pradesh	Sembcorp Gayatri Pvt.ltd.(NCC TPP)	U-2	SGPL	NON BHEL	660	12-2016	15.02.2017	660.0
3	Chhattisgarh	Nawapara TPP	U-1	TRN	CHINESE	300	05-2016	14.08.2016	300.0
4	Chhattisgarh	Nawapara TPP	U-2	TRN	CHINESE	300	11-2016		
5	Chhattisgarh	Ucchpinda TPP	U-3	RKM	CHINESE	360	07-2016		
6	Chhattisgarh	Binjkote TPP	U-1	SKS	NON BHEL	300	11-2016		
7	Chhattisgarh	Athena Singhitarai TPP	U-1	Athena Chhattisgarh	NON BHEL	600	10-2016		
8	Maharashtra	Nashik TPP, Ph-I	U-2	Rattan Power	BHEL	270	06-2016	15.02.2017	270.0
9	Maharashtra	Nashik TPP, Ph-I	U-3	Rattan Power	BHEL	270	12-2016		
10	Orissa	Utkal TPP	U-2	Ind Barath	NON BHEL	350	07-2016		
11	Orissa	Lanco Babandh TPP	U-1	Lanco Babandh	NON BHEL	660	02-2017		
12	Tamilnadu	ITPCL TPP	U-2	ILFS	NON BHEL	600	05-2016	18.04.2016	600.0
13	Uttar pradesh	Bara TPP	U-2	Jaypee	BHEL	660	07-2016	06.09.2016	660.0
14	Uttar pradesh	Lalitpur TPP	U-3	LPGCL	BHEL	660	04-2016	01.04.2016	660.0
15	West Bengal	Haldia TPP	U-1	India Power	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>							
1	Assam	Bongaigaon TPP	U-2	NTPC	BHEL			22.03.2017	250.0
3	Karnataka	Kudgi TPP	U-2	NTPC	NON BHEL			23.03.2017	800.0
4	Uttar Pradesh	Unchahar TPS ST-IV	U-6	NTPC	BHEL			31.03.2017	500.0
		<u>PRIVATE SECTOR</u>							
3	Chhattisgarh	Ratija TPP -II	U-2	Spectrum Coal&Power Ltd	Non-BHEL			10.11.2016	50.0
4	Uttrakhand	GAMA CCPP	Module-1 (GT1&2+ST)	M/s GAMA Infraprop Ltd.	Others			25.04.2016	225.0
5	Uttrakhand	Kashipur CCPP	Blk-I	Srawanthi Energy Pvt.Ltd	Others			20.11.2016	225.0
6	Maharashtra	Mangaon CCPP	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 CAPACIYT ADDITION TARGET FOR THE YEAR 2017-18

	State	Project Name	Impl Agency	Equipment Supplier	Unit No.	Targeted Cap. (MW)	Anti. Comm Date	Actual Date of Comm	Capacity Achieved (MW)
	CENTRAL SECTOR								
1	Assam	Bongaigaon TPP	NTPC	BHEL	3	250	Dec-17		
2	Bihar	Nabi Nagar TPP	JV of NTPC & Rly	BHEL	2	250	Apr-17	03.04.17	250.00
3	Bihar	New Nabi Nagar TPP	JV of NTPC & BSPGCL	NON BHEL	1	660	Aug-17		
7	Chhattisgarh	Lara TPP	NTPC	NON BHEL	1	800	Oct-17		
4	Karnataka	Kudgi STPP Ph-I	NTPC	NON BHEL	3	800	Aug-17		
8	MP	Gadarwara STPP, St-I	NTPC	BHEL	1	800	Jan-18		
5	Maharashtra	Solapur STPP	NTPC	NON BHEL	1	660	Apr-17	07.04.17	660.00
6	UP	Meja STPP	JV of NTPC & UPRVUNL	NON BHEL	1	660	Oct-17		
		TOTAL CENTRAL SECTOR				4880			910.00
	STATE SECTOR								
1	AP	Royal seema TPP	APGENCO	BHEL	6	600	Aug-17		
2	Assam	Namrup	APGCL	BHEL	ST	36.15	Feb-18		
3	MP	Shree Singaji TPP, St-II	MPPGCL	NON BHEL	3	660	Dec-17		
4	Rajasthan	Suratgarh TPS	RRVUNL	BHEL	7	660	Nov-17		
5	Rajasthan	Chhabra SCTPP	RRVUNL	L&T & MHI	5	660	Apr-17	04.04.17	660.00
6	Rajasthan	Chhabra SCTPP	RRVUNL	L&T & MHI	6	660	Jan-18		
7	Telangana	Bhadradi TPP	TGENCO	BHEL	1	270	Mar-18		
		TOTAL STATE SECTOR				3546.15			660.00
	PRIVATE SECTOR								
1	Chhattisgarh	Akaltara (Naiyara) TPP	KSK Mahandi Power Company Ltd	CHINESE	3	600	Nov-17		
2	Chhattisgarh	Binjkote TPP	SKS Power Generation (Chhattisgarh) Ltd	CHINESE	1	300	May-17	25.04.17	300.00
3	Chhattisgarh	Nawapara TPP	TRN Energy	CHINESE	2	300	May-17	18.04.17	300.00
4	Chhattisgarh	Lanco Amarkantak TPS-II	LAP Pvt. Ltd.	CHINESE	3	660	Nov-17		
5	Maharashtra	Nasik TPP Ph-I	RattanIndia Nasik Power Ltd	BHEL	3	270	May-17	14.04.17	270.00
6	UP	Bara TPP	Prayagraj Power Generation Co.Ltd.	BHEL	3	660	Aug-17	22.05.17	660.00
7	WB	India Power TPP (Haldia),	Indian Energy Ltd (Haldia)	CHINESE	1	150	Apr-17	07.06.17	150.00
		TOTAL PRIVATE SECTOR				2940			1680.00
	ADDITIONAL PROJECTS COMMISSIONED								
	PRIVATE SECTOR								
1	Maharashtra	Nasik TPP Ph-I	RattanIndia Nasik Power Ltd	BHEL	4			19.05.17	270.00
2	Maharashtra	Nasik TPP Ph-I	RattanIndia Nasik Power Ltd	BHEL	5			30.05.17	270.00
3	Chhattisgarh	Uchpinda TPP	RKM Power gen Pvt.Ltd	Chinese	3			12.09.17	360.00
4	Maharashtra	Shirpur TPP	Shirpur Power Pvt. Ltd.	BHEL	1			28.09.17	150.00
		TOTAL ADDITIONAL PRIVATE SECTOR							1050.00
		TOTAL THERMAL CAPACITY				11366			4300.00

3.0 Target/ Achievement of Thermal Capacity addition during 12th Plan

State	Project Name	Impl Agency	Main Plant Equipment Supplier	Unit No	12th Plan Tar. Cap.	Cap. Ach. From Target (MW)	Add. Cap. Ach (MW)	Total cap. Ach. (MW)	Actual Comm. Date	Slipped
	<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)	MPGENCO	BHEL	U-2	600	600		600	15.10.14	
MP	Malwa TPP (Shree Singaji TPP)	MPGENCO	BHEL	U-1	600	600		600	18.11.13	
MP	Satpura TPS Extn	MPPGCL	BHEL	U-10	250	250		250	22.03.13	
MP	Satpura TPS Extn	MPPGCL	BHEL	U-11	250	250		250	25.12.13	
Rajasthan	Ramgarh	RRVUNL	BHEL	GT	110	110		110	20.03.13	
Rajasthan	Ramgarh CCPP Extn. -III	RRVUNL	BHEL	ST	50	50		50	01.05.14	
Rajasthan	Chhabra TPS Extn.	RRVUNL	BHEL	U-3	250	250		250	14.09.13	
Rajasthan	Chhabra TPS Extn.	RRVUNL	BHEL	U-4	250	250		250	30.06.14	
Rajasthan	Kalisindh TPP	RRVUNL	Chinese	U-1	600	600		600	02.05.14	
Rajasthan	Kalisindh TPP	RVUNL	Chinese	U-2 #			600	600	06.06.15	
TN	North Chennai Extn	TNEB	BHEL	U-2	600	600		600	09.03.13	
TN	North Chennai TPS Extn, U-1	TNEB	BHEL	U-1	600	600		600	13.09.13	
TN	Mettur TPS Ext	TNEB	Chinese	U-1	600	600		600	11.10.12	
Telangana	Singareni TPP	Singareni Collieries Co Ltd	BHEL	U-1 #			600	600	13.03.16	
Telangana	Singareni TPP	Singareni Collieries Co Ltd	BHEL	U-2 #			600	600	25.11.16	
Telangana	Kakatiya TPS Extn.	T GENCO	BHEL	U-1 #			600	600	31.12.15	
Tripura	Rokhia CCPP	Govt.of 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
	<u>PRIVATE SECTOR</u>									
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	

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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

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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 (Mahatama Gandhi TPP)	CLP Power	Chinese	U-2	660	660		660	11.04.12	
Jharkhand	Adhunik Power TPP	Adhunik Power	BHEL	U-1	270	270		270	19.11.12	

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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 Ph-II,	RPL	Chinese	U-1	300	300		300	17.08.12	
Maharashtra	Butibori TPP Ph-II	Vidarbha Industries Power	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	

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-5 #			660	660	24.08.14	
MP	Sasan UMPP	Reliance Power Ltd.	Chinese	U-6 #			660	660	19.03.15	
MP	Sasan UMPP	Reliance Power Ltd.	Chinese	U-2	660	660		660	18.12.13	
MP	Sasan UMPP	Reliance Power Ltd.	Chinese	U-3	660	660		660	30.05.13	
MP	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 (Mutiar)	Coastal Energen	Chinese	U-2 #			600	600	02.01.16	
TN	ITPCL TPP	IL&FS TN PC.Ltd	Chinese	U-1 #			600	600	19.09.15	
TN	ITPCL TPP	IL&FS TN PC.Ltd	Chinese	U-2 #			600	600	18.04.16	

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	Royalaseema St-IV	AP Genco	BHEL	U-6	600	Delay in start & completion of civil works and land acquisition. Delay in BoP works.
Assam	Namrup CCGT	APGCL	BHEL	ST	36.15	Delay in start and slow progress of of civil works, Termination of civil contractor. Poor soil conditions and heavy monsoon. Delay in supply of material by BHEL & shortage of skilled manpower. Termination of NBPL order. Delay in award of civil and Electrical, Mechanical & Instrumentation agency.
		Total State Sector			636.15	
	<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	
Chattisgarh	Nawapara TPP	TRN energy Pvt.Ltd..	Chinese	U-2	300	Delay in start of civil works. Slow progress in erection works of boiler and T.G. Manpower shortage.

State	Project Name	Impl Agency	Main Plant Equipment Supplier	Unit No	12th Plan Slipped Cap. (MW)	Reasons for Slippage
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.
Chhattisgarh	Salora TPP	M/s Vandana Vidyut	Chinese	U-2	135	Delay in commissioning of unit-1. Agitation by villagers at site. Delay in supply of BTG and CHP material. Non cooperation of BTG supplier in commissioning activities. Acquisition for railway siding and ash pond.
Chhattisgarh	Uchpinda TPP	RKM Powergen Pvt. Ltd	Chinese	U-3	360	Work suffered due to agitation by villagers. Slow progress of work at site. Delay in readiness of BOPs.Delay in readiness of start up power. Delay due to financial problem. Balance land acquisition for ash pond and Railway line siding. Consent to operate for U- 3 &4.
Chhattisgarh	Athena Singhitarai TPP	Athena	Chinese	U-1	600	Delay in land acquisition. Slow progress of Boiler & TG erection. Delay due to financial problems.
Chhattisgarh	Binjkote TPP	SKS Power Gen	Chinese	U-1	300	Delay in start of civil works. Slow progress of pressure parts erection. Balance land acquisition for ash dyke. Delay due to financial problems.
Chhattisgarh	Binjkote TPP	SKS Power Gen	Chinese	U-2	300	
Chhattisgarh	Binjkote TPP	SKS Power Gen	Chinese	U-3	300	
Chhattisgarh	Lanco Amarkantak TPP-II	LAP Pvt. Ltd.	Chinese	U-3	660	Delay in acquisition of land for water system. Presently work is going slow at site due to financial problems.
Chhattisgarh	Lanco Amarkantak TPP-II	LAP Pvt. Ltd.	Chinese	U-4	660	
Jharkhand	Matrishri Usha TPP Ph-I	Corporate Power Ltd.	BHEL	U-1	270	Law and order problem. Delay in supply of BTG equipment. Delay in readiness of transmission line due to forest clearance. Work held up due to financial problems since Nov, 12.
Jharkhand	Matrishri Usha TPP Ph-I	Corporate Power Ltd.	BHEL	U-2	270	
Maharashtra	Nasik TPP Ph-I	Ratan India Nasik Power Ltd.	BHEL	U-3	270	Non-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

(As on 30/09/2017)

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	Dec-17	4375.35/ 6749.18	6699 (Jul-17)
2	Bihar	Barh STPP-I /NTPC/Others	Mar-05	U-1	660	May-17	Mar-18	8693/ 15095.67	13549 (Jul-17)
				U-2	660	Nov-17	Sep-18		
				U-3	660	May-18	Mar-19		
3	Bihar	Nabi Nagar TPP / JV of NTPC & Rlys/BHEL	Jan-08	U-3	250	Aug-13	Dec-17	5352.51/ 7998	6700.07 (Jul-17)
				U-4	250	Nov-13	Oct-18		
4	Bihar	New Nabi Nagar TPP /JV of NTPC & BSPGCL TG-Alstom & Bharat Forge, SG-BHEL	Jan-13	U-1	660	Jan-17	Jan-18	13624.02 / 15131.67	9052.44 (Mar-17)
				U-2	660	Jul-17	Jun-18		
				U-3	660	Jan-18	Dec-18		
5	Chhatisgarh	Lara TPP/NTPC / SG-Doosan TG-BGR Hitachi	Dec-12	U-1	800	Dec-16	Nov-17	11846/ 11846	8421 (Jul-17)
				U-2	800	Jun-17	Jun-18		
6	Jharkhand	North Karanpura TPP/ NTPC / BHEL	Feb-14	U-1	660	Feb-18	Feb-20	14367/ 14367	5214 (Jul-17)
				U-2	660	Aug-18	Aug-20		
				U-3	660	Feb-19	Feb-21		
7	Karnataka	Kudgi STPP Ph-I/ NTPC/ SG – Doosan, TG-Toshiba	Feb-12	U-3	800	Jan-17	Nov-17	15166.19/ 15166.19	13914 (Jul-17)
8	Maharashtra	Solapur STPP/ NTPC/ SG-BGR & Hitachi, TG-Alstom & Bharat Forge	Apr-12	U-2	660	Nov-16	Oct-18	9395.18/ 9395.18	7864 (Jul-17)
9	MP	Gadarwara TPP/ NTPC /BTG-BHEL	Mar-13	U-1	800	Mar-17	Nov-17	11638.55/ 11638.55	7918 (Jul-17)
				U-2	800	Sep-17	Jul-18		
10	MP	Khargone TPP/ NTPC/ EPC - L&T	Mar-15	U-1	660	Mar-19	Mar-19	9870.51/ 11148.86	3064 (Jul-17)
				U-2	660	Sep-19	Sep-19		
11	Odisha	Darlipalli STPP/ NTPC / SG- BHEL TG-JSW & Toshiba	Feb-14	U-1	800	Feb-18	Apr-18	12532.44/ 12532.44	6027 (Jul-17)
				U-2	800	Jun-18	Aug-18		
12	Rajasthan	Barsingsar TPP ext/ NLC/ EPC- Reliance Infra.	Nov-16	U-1	250	May-20	May-20		157.25 (Jun-17)
13	Rajasthan	Bithnork TPP/ NLC/ EPC- Reliance Infra.	Nov-16	U-1	250	May-20	May-20		329.84 (May-17)
14	Telangana	Telangana Ph- I / NTPC/SG- BHEL TG- Alstom & Bharatforge	Feb-16	U-1	800	Jan-20	Oct-20	10599/ 10599	866 (Jun-17)
				U-2	800	Jul-20	Nov-20		
15	TN	Neyveli New TPP/ NLC/BHEL	Dec-13	U-1	500	Jun-15	Jul-18	5907.11/ 5907.11	4244.77 (Aug-17)
				U-2	500	Dec-15	Aug-18		
16	UP	Meja STPP/ JV of NTPC & UPRVUNL/ SG-BGR, G-Toshiba	Apr-12	U-1	660	Jun-16	Dec-17	10821/ 10821	6565 (Apr-17)
				U-2	660	Dec-16	Jan-19		
17	UP	Ghatampur TPP/ JV of NLC & UPRVUNL/ MHPS Boiler Pvt. Ltd.	Aug-16	U-1	660	Nov-20	Nov-20	17237.80/ 17237.80	1123.86 (Aug-17)
				U-2	660	May-21	May-21		
				U-3	660	Nov-21	Sept-21		
18	UP	Tanda TPP/ NTPC/ SG: L&T/ TG: Alstom	Sep-14	U-1	660	Sep-18	Sep-18	9188.98/ 9188.98	2978 (Jul-17)
				U-2	660	Mar-19	Mar-19		
	TOTAL CENTRAL SECTOR				21990				

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 / 5286.54	978 (Jun-17)
2	A.P	Sri Damodaran Sanjeevaiah TPP St-II / APGENCO /BTG- BHEL	Nov-15	U-1	800	Mar-19	Mar-19	4276.04 / 4276.04	199.2 (Apr-16)
3	AP	Rayalaseema TPP St-IV / APGENCO/ BTG-BHEL	Oct-10	U-6	600	Jul-14	Oct-17	3028.86 / 3781.86	3437.57 (Feb-17)
4	Assam	Namrup CCGT / APGCL / BHEL	Feb-09	ST	36.15	40909	Oct-17	411 / 693.73	534.21 (Jun-17)
5	Bihar	Barauni TPS Extn./ BSEB/ EPC - BHEL	Mar-11	U-8	250	May-14	Dec-17	3666.06 / 5308.07	4799.51 (Mar-17)
				U-9	250	Jul-14	Jan-18		
6	Gujarat	Wanakbori TPS Extn. / GSECL SG-Alstom TG-Siemens	Oct-14	U-8	800	Oct-18	Oct-18	3536.51 / 3536.51	2121.38 (May-17)
7	Karnataka	Yelahanka CCPP BY KPCL	Nov-15	GT+S T	370	Mar-17	Feb-18	1571.18 / 1571.18	504 (Aug-17)
8	MP	Shri Singhaji TPP St-II / MPGENCO EPC-L&T	Sep-14	U-3	660	Jul-18	Mar-18	6500 / 6500	3396.78 (Jul-17)
				U-4	660	Nov-18	Nov-18		
9	Odisha	Ib valley TPP / OPGCL BTG- BHEL	Mar-14	U-3	660	Aug-17	Aug-18	11965 / 11965	5068.83 (Aug-17)
				U-4	660	Jan-18	Oct-18		
10	Rajasthan	Chhabra TPP Extn./RRVUNL / L&T-MHPS	Mar-13	U-6	660	Jun-18	Mar-18	7920/ 9550	6915.63 (Apr-17)
11	Rajasthan	Suratgarh SCTPP/ RRVUNL / BHEL	May-13	U-7	660	Sep-16	Dec-17	7920 / 7920	6837.75 (Jul-17)
				U-8	660	Dec-16	May-18		
12	Telangana	Kothagudem TPS St-VII/ TSGENCO BTG-BHEL	Jan-15	U-1	800	Nov-17	Jul-18	5548.44 /5548.44	2807.53 (Aug-17)
13	Telangana	Bhadradi TPP / TSGENCO/ BHEL	Mar-15	U-1	270	Feb-17	Dec-17	5044 / 5044	1000.00 (Mar-17)
				U-2	270	Apr-17	Feb-18		
				U-3	270	Jun-17	May-18		
				U-4	270	Aug-17	Aug-18		
14	TN	Ennore exp. SCTPP (Lanco) / TANGEDCO BTG-LANCO	May-14	U-1	660	Jan-18	Sep-18	5421.38 / 5421.38	245.22 (Nov-16)
15	TN	Ennore SCTPP / TANGEDCO/ BHEL	Sep-14	U-1	660	Jan-18	Sep-18	9800 / 9800	464.85 (Jul-17)
				U-2	660	Mar-18	Mar-19		
16	TN	North Chennai TPP St-III TANGEDCO / BHEL	Jan-16	U-1	800	Jul-19	Jul-19	6376 / 6376	344.65 (Aug-17)
17	TN	Uppur Super Critical TPP TANGEDCO /BHEL	Feb-16	U-1	800	NA		12778 / 12778	10.01 (May-17)
				U-2	800	NA	NA		
18	UP	Harduaganj TPS Exp-II / UPRVUNL/Toshiba JSW	Sep-15	U-1	660	Jun-19	Jun-19	4826.49 / 4826.49	291.73 (Feb-17)
19	UP	Jawaharpur STPP/ UPRVUNL/ Doosan	Dec-16	U-1	660	Dec-20	Dec-20	10556.27/105 56.27	530.37 (Jun-17)
				U-2	660	Apr-21	Apr-21		
20	UP	Obra-C STPP/ UPRVUNL/ Doosan	Dec-16	U-1	660	Dec-20	Dec-20	10416 / 10416	649.55 (Jul-17)
				U-2	660	Apr-21	Apr-21		
	Total State Sector				18086.15				

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.
PRIVATE SECTOR									
1	AP	Bhavanapadu TPP Ph-I / East Coast Energy Ltd. BTG-Chinese	Sep-09	U-1	660	Oct-13	Dec-17	6571.94 / 9343.15	3785.6 (Jan-16)
				U-2	660	Mar-14	May-18		
2	AP	Thamminapatnam TPP stage -II / Meenakshi Energy Pvt. Ltd. SG-Cether vessels TG-Chinese	Dec-09	U-3	350	May-12	Dec-17	3120 (600MW)/ 5005 (700MW)	4643.78 (Aug-17)
				U-4	350	Aug-12	Mar-18		
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-3	600	Dec-12	Dec-17	16190 / 27080	18730 (Dec-16)
				U-4	600	Apr-13	Jun-18		
				U-5	600	Aug-13	Sep-18		
				U-6	600	Dec-13	Dec-18		
5	Chhattisgarh	Binjkote TPP/ SKS Power Generation (Chhattisgarh) Ltd. SG-Cethar Vessels TG-Harbin China	Mar-11	U-2	300	Nov-13	Dec-17	5058 / 7940	3828 (Jun-15)
				U-3	300	Feb-14	Uncertain		
				U-4	300	May-14	Uncertain		
6	Chhattisgarh	Lanco Amarkantak TPP-II/ LAP Pvt. Ltd. BTG-DEC	Nov-09	U-3	660	Jan-13	Nov-17	6886 / 10815.24	9537.79 (Dec-16)
				U-4	660	Mar-13	Feb-18		
7	Chhattisgarh	Singhitarai TPP / Athena Chhattisgarh Power Ltd. BTG -DECL	Dec-09	U-1	600	Jun-14	Uncertain	6200 / 8443.79	6408.47 (May-17)
				U-2	600	Sep-14	Uncertain		
8	Chhattisgarh	Uchpinda TPP/ RKM Powergen. Pvt. Ltd. / SG-China Western TG-Habin Chaina	Jul-07	U-4	360	Jul-13	Dec-17	6653.61 / 11784.51	11329.68 (Jun-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	May-12	17-18*	2900 / 2900	3120 (Nov-12)
				U-2	270	Jun-12	18-19*		
12	Jharkhand	Matrishri Usha TPP Ph-II / Corporate Power Ltd. EPC-BHEL	Mar-11	U-3	270	Feb-13	Uncertain*	3182 / 3182	2207 (Sep-12)
				U-4	270	Mar-13	Uncertain*		
13	Jharkhand	Tori TPP Ph-I / Essar Power Ltd. BTG-China	Aug-08	U-1	600	Jul-12	Uncertain*	5700 / 5700	4757.92 (Jun-17)
				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	Uncertain*	6646 / 6646	763.8 (Mar-15)
				U-2	270	Sep-14	Uncertain*		
				U-3	270	Nov-14	Uncertain*		
				U-4	270	Jan-15	Uncertain*		
				U-5	270	Mar-15	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.
16	Maharashtra	Lanco Vidarbha TPP / LVP Pvt. Ltd. EPC-LANCO	Nov-09	U-1	660	Jan-14	Dec-18	6936 / 10433	5338 (Apr-17)
				U-2	660	May-14	Mar-19		
17	Maharashtra	Nasik TPP Ph-II / Ratan India Nasik Power Pvt. Ltd. BTG-BHEL	Nov-09	U-1	270	Apr-13	Uncertain	6789 / 6789	711.81 (Mar-15)
				U-2	270	Jun-13	Uncertain		
				U-3	270	Aug-13	Uncertain		
				U-4	270	Oct-13	Uncertain		
				U-5	270	Dec-13	Uncertain		
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		
19	Maharashtra	Shirpur TPP ,Shirpur Power Pvt. Ltd.-BHEL	Nov-11	U-2	150	Apr-15	Mar-18	2413 / 2413	2277.94 (Apr-17)
20	MP	Mahan TPP / Essar Power MP Ltd. / Chinese	Sep-08	U-2	600	Jun-15	Sep-17	7738 / 7738	8156.10 (Mar-17)
21	MP	Gorgi TPP / D.B. Power (MP) Ltd. BTG-BHEL	Mar-11	U-1	660	Jun-13	Uncertain	3941 / 3941	475.79 (Sep-15)
22	MP	Niwari TPP / BLA Power Ltd./ BHEL - Siemens	Apr-11	U-2	45	Apr-14	17-18*	232.49 / 250.49	290.01 (Mar-15)
23	Odisha	Ind Barath TPP (Odisha) / Ind Barath /BTG-Cethar Vessels	May-09	U-2	350	Dec-11	Nov-17	3150 / 4001	4254 (Apr-17)
24	Odisha	KVK Nilanchal TPP/ KVK Nilanchal / BTG-Harbin China	Nov-09	U-1	350	Dec-11	Uncertain*	4990 / 6000	1708.36 (Mar-17)
				U-2	350	Jan-12	Uncertain*		
				U-3	350	Mar-12	Uncertain*		
25	Odisha	Lanco Babandh TPP / LBP Ltd./ BTG-Chinese	Nov-09	U-1	660	Apr-13	07/18 *	6930 / 10430	7615 (Mar-17)
				U-2	660	Aug-13	01/19*		
26	Odisha	Malibrahmani TPP / MPCL/ BTG-BHEL	Jun-10	U-1	525	Dec-12	17-18*	5093 / 6330	5329.75 (Dec-14)
				U-2	525	Feb-13	17-18*		
27	TN	Tuticorin TPP (Ind-Barath) / IBPIL / BTG-Chinese	May-10	U-1	660	May-12	18-19*	3595 / 3595	2000 (May-15)
28	TN	Tuticorin TPP St-IV / SEPC/ EPC-MEIL (BTG-BHEL)	Jan-14	U-1	525	Sep-18	Mar-19	3514 / 3514	491.42 (Sep-16)
29	WB	India Power TPP / Haldia Energy Ltd/ BTG-BHEL.	Sep-10	U-2	150	Feb-16	Oct-17	2656 / 3307	3237.9 (Jun-17)
				U-3	150	May-16	Mar-18		
	Total Private Sector				25785				
	Grand Total				65861.15				

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) / Anticipated			
			Syn. Com	COD	Syn. Com	COD		
	Central Sector							
1	Bongaigaon TPS, Distt: Kokrajhar, Assam (NTPC Ltd.)	750					Unit-1: 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. Unit commissioned on 22/06/15. COD achieved on 01.04.2016. Unit-2: 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. Unit commissioned on 22.03.2017. Unit-3: Boiler: Boiler Erection started in 4/12. Boiler drum lifted on 25/02/13 & HT done on 21/03/14. BLU done in July, 2017. SBO completion is expected in 10/17. ESP: 02 passes of ESP erection completed. ATT for these 02 passes also completed. TG: TG deck casting done in 03/16. TG erection started in 10/16. TG box up expected in 10/17. Balance of Plant: Chimney: Order placed on M/s Gammon. Chimney shell portion completed. 03 nos. of Flue cans erection completed. CHP: Order placed on M/s McNelly Bharat in Jan'10. There are two nos. of wagon tipplers in this project. 01 no. of wagon tippler is already commissioned. AHP: Order placed on M/s McNelly Bharat in Jun'09. IDCTs: Order placed on M/s PCT. FGD System: FGD syatem of U-1,2,&3 are expected to be ready by 3/18, 8/18 and 12/18. <i>Owing to poor performance of main plant civil agencies (SPML, Punjlloyd) their contracts were terminated on 25.11.13. Balance works of U-2&3 awarded to NBCC on 29/09/14. NBCC finalized its sub agencies on 06/01/15 and construction works commenced in Feb'15 due to delay in mobilization by M/s NBCC.</i>	
	U-1	250	11/10 01/11	-	06/15(A) 06/15(A)	04/16(A)		
	U-2	250	03/11 05/11	-	02/17(A) 03/17(A)	09/17		
	U-3	250	07/11 09/11	-	11/17 12/17	01/18		
	Investment Approval	: 30/01/2008						
	Original Est. cost	: Rs. 437535 Lakhs						
	Latest cost	: Rs. 674918 Lakhs						
	Exp. During 2007-08	: Rs. 23831 Lakhs						
	Exp. During 2008-09	: Rs. 16046 lakhs						
	Exp. During 2009-10	: Rs 70913 lakhs						
	Exp. During 2010-11	: Rs 56300 lakhs						
	Exp. During 2011-12	: Rs 137610 Lakhs						
	Exp. During 2012-13	: Rs. 74900 Lakhs						
	Exp. During 2013-14	Rs. 68500 Lakhs						
	Exp. During 2014-15	: Rs. 65700 Lakhs						
	Exp. During 2015-16	: Rs. 78700 Lakhs						
	Exp. During 2016-17	: Rs. 59100 Lakhs						
	Exp. During 2017-18	: Rs. 14900 Lakhs						
	Cumulative Exp. (Up to July'17)	: Rs. 669900 lakhs						
	Type of fuel	: Coal						
	Date of Main Plant Order	: 05/02/08, BHEL						
	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.						
	Power Evacuation:	1. 400KV BTPS(NTPC)-Bongaigaon (PG) D/C Line 2. 220 KV BTPS(NTPC)-Bongaigaon (Assam) D/C Line						
	Critical Areas	Civil works, readiness of raw water system, identification & supply of cannibalized materials for Unit-3 by BHEL.						
	Reasons for Delay	Frequent bandhs, Heavy monsoon and slow civil works. Delay in supply of material by BHEL. Intemittent suspension of supplies of aggregates by local vendors. 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 rewarded to NBCC on 29.09.14						

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A) / Anticipated			
			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 11/17. TG: TG erection started in 08/11. TG Box up completed on 28/12/13.TG oil-flushing completion expected by 11/17.	
	U-1	660	03/09 08/09 05/17* 05/17*	06/17	03/18 03/18	04/18	TG: TG erection started in 08/11. TG Box up completed on 28/12/13.TG oil-flushing completion expected by 11/17.	
	U-2	660	01/10 06/10 11/17* 11/17*	12/17	08/18 09/18	10/18	Unit-2: Boiler: Boiler erection started in 07/11. Boiler Hydro Test expected by 03/18. TG: TG erection started in 09/11.TG Box up completed in 01/15. TG oil-flushing completion expected by 05/18.	
	U-3	660	11/10 04/11 05/18* 05/18*	06/18	02/19 03/19	04/19	Unit-3: Boiler: Boiler erection started in 01/12. Boiler Hydro Test expected by 09/18. TG: TG erection started in 03/12.TG box-up expected by 09/18.	
	(*Revised as per award of balance works of SG package dated 30.01.16)						Balance of Plant (BoP): Chimney: All works in one bi- flue chimney for unit- 1 & 2 and one single chimney for unit- 3 are completed. CHP: CHP structural erection is completed. Equipment erection up to U-1 completed.	
	Investment Approval	: Feb'05						AHP: AHP some civil works are done. DCIPS stopped work due to financial problems. NTPC terminated contract in Jun'15. Balance ash handling works awarded to M/s Melco on 15.04.16.
	Sanctioning Authority	: NTPC Board						Ash dyke: All works in Ash Dyke completed. IDCTs: All works in Cooling Towers are completed.
	Orig.Est. cost	: Rs869300 lakhs						FGD System: Order not yet placed
	Latest. Est. Cost	: Rs1509567 lakhs						#SG contract to M/s TPE was terminated on 14.01.2015.
	Cum Exp.upto 2009	: Rs 396710 lakhs						Balance power cycle piping is awarded to M/s BHEL on 22.05.15. Supply of Flue gas &air duct awarded on M/s Lilama. Erection of support structures for flue gas & air ducts package awarded to Mukund Engineers.
	Exp during 2009-10	: Rs 69539 lakhs						Customs & Transportation work awarded to M/s Boxco. Fuel oil trestle awarded to M/s Abhishek Enterprises. “As is where is basis” package for balance SG works awarded on M/s Doosan on 30.01.2016.Balance ash handling works awarded to M/s Melco on 15.04.16.
	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. 42400 Lakhs							
Cumulative Exp (up to July'17)	: Rs 1354900 lakhs							
Type of fuel	: Coal							
Fuel linkage								
Date of Main Plant Order (BTG)	SG :03/2005 on M/s Technopromexport, Russia. (Terminated on 14.01.2015) #							
Zero Date	TG : 03/2005 on M/s Power Machines Russia : 14/03/2005							
Power Evacuation								
	Critical Areas	Balance supplies for Turbine & auxiliaries from Power Machines, RussiaBalance SG works by Doosan, Power cycle piping supplies by BHEL, C&I materials supplies, HP Piping erection works, Balance AHP works, and Resource mobilization for parallel working. Readiness of railway line (Hazaribagh-Koderma-Tilaiya Rajaji-Bhaktiarpur), replacement of Superheater/Reheater materials. Due to multiph failure of Boiler-I super-heater and Re-heater tubes (DI59)						
	Reasons for Delay	Delay due to contractual dispute of NTPC with Power machine & Technopromexport, Russia. *Orig. Sch. was in 2009-10 & 2010-11. Delay in supply of boiler material and ordering of Bought out Items(BOIs)by M/s TPE due to financial constrant. M/s. TPE stopped work from 10/13. M/s TPE contract was terminated on 14.01.2015 by NTPC. Delay in supply of material and slow progress by M/s. Power Machine, tube failures in superheater and Reheat area. Readiness of Railway line (Hazaribagh-Kodera-Tilaiya-Rajgi-Bkahktiarpur (250 Km)).						

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / Anticipated		
			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: 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 commissioned on 20.03.2016.
	U-1	250	08/10* 10/10* 12/12** 02/13**	06/13	03/16(A) 03/16(A)	10/16	Unit-2: Boiler: Boiler erection started in Dec’11. Boiler drum lifting completed on 21 st 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 commissioned on 03.04.2017(A).
	U-2	250	02/11* 04/11* 03/13** 05/13**	10/13	03/17(A) 04/17(A)	09/17 (A)	Unit-3: Boiler: Boiler erection started in 11/11. Boiler drum lifting completed on 10.06.13. Boiler hydro test done on 30.11.16.6 . BLU expected in 09/17. TG: TG erection started in 06/16. TG box-up expected in 09/17.
	U-3	250	08/11* 10/11* 06/13** 08/13**	02/14	11/17 12/17	01/18	Unit-4: Boiler: Boiler erection started in 12/12. Boiler drum lifting completed on 16.09.13. Boiler hydro test expected by 09/17. TG: TG columns work in progress. TG erection start expected by 10/17.
	U-4	250	02/12* 04/12* 09/13** 11/13** (* Org / ** Rev)	06/14	09/18 10/18	11/18	
	Investment Approval	January’2008.					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: Wagon tippler raft casting completed. Crusher house, TP’s structural erection in progress. AHP (Indure): Ash slurry sump ready. Inside Ash slurry P/h, 2 out of 6 series made ready. Inside Ash water P/h, pumps foundations completed. Pumps (02 BALP, 02 FAHP, 02 BAHP ready). PT Plant: Clarifier 1, 2, 3 in service and filter house ready. Chlorination building ready. DM plant: 02 streams commissioned. 02 no. of DM tanks ready. Inside DM pump house, pumps erection done. CW Pump house: Forebay raft completed. Pumps (11 Nos) erection completed. IDCTs: Order placed in Sep’13. IDCT is FRP type. There are 20 cells in each IDCT. IDCT-1&2 ready. IDCT-3 cells completed. IDCT-4 cells (08/20) in progress. FGD System: Order not yet placed Railway siding: Awarded to M/s Rites. Total route length is 11.9 km (5.4 km inside+6.4 km outside) and track length is 35 km (16 km internal+19 km external) from Nabinagar road railway station.
	Sanctioning Authority	BRBCL board accorded investment approval					
	Orig.Est. cost	Rs 535251 lakhs					
	Latest. Est. Cost	Rs 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 27713 lakhs					
	Total Expenditure(Up to July’17)	: Rs 670007 lakhs					
	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 (BTG)	: 23.01.2008 on M/s BHEL					
	Zero Date Power Evacuation	: 01/01/2008 : 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 1522.50 acres, 1475.52 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 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. 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).					

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: Boiler: Boiler erection started on 15th Jun'14 (delay: 05 months). Hydro test done in 12/16. BLU done in 07/17. SBO completion expected in 10/17. ESP: 8437 MT out of 9253 MT ESP material erected. 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 . Unit-2: Boiler: Boiler erection started on 29 th Nov'14. Hydro test expected in 10/17. ESP: 7361 MT out of 9253 MT ESP material erected. TG: TG raft casting completed.TG erection started in 12/16.TG boxed-up in 08/17. Unit-3: Boiler erection started on 29.04.2015. Hydro test expected in 09/17. ESP: 5424 MT out of 9253 MT ESP material erected. TG: TG erection started in 09/17. Balance of Plant: 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. Structural erection of Crusher house, TP-2,4 &6 in progress. DM plant: Order placed on M/s Thermax in Jan'14. Vessels erection and alignment is in progress. Degasser is completed. 06 nos. of DM plant pumps erected. DM water storage tank-1&2 erected. One stream is made ready. CW pump house: Excavation in fore bay area in progress. IDCTs: Order placed on M/s Fans A S. RCC raft completed. Basin wall and column works in progress in all CT's. FGD: Space identified in the plant. Work under tendensing/ NIT preparation stage.
	U-1	660	11/16 01/17	05/17	11/17 01/18	02/18	
	U-2	660	05/17 07/17	11/17	04/18 06/18	07/18	
	U-3	660	11/17 01/18	05/18	10/18 12/18	01/19	
	Investment Approval	: 31.01.2013(Jan'13)					
	Sanctioning Authority	: NTPC Board					
	Orig. Est. cost	: Rs 13624.02 Crores					
	Latest. Est. Cost	: Rs 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 151000 lakhs					
	2015-16	:Rs 272144 lakhs					
	2016-17	:Rs 352542 lakhs					
	2017-18	:Rs 45542 lakhs					
	Cum. Exp up to Mar'17	Rs905244 lakhs					
	Type of fuel	: Coal					
	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.					
	Zero Date	: 31.01.2013					
	Common Information	loan from REC. Debt, equity ratio is 70:30. NOC from BSPCB received on 08.04.2011. MOEF clearance received in Dec 2010. Mega status received in Apr'09. Boiler erection agency: U-1&3 – Powermech and U-2 is Indwell.					
	Critical Areas	Land acquisition for MUW corridor (9.78 Acres), outfall drainage corridor (19.44 Acres)					
	Reasons for Delay	Acquisition of balance land and relocation of homestead owners still living inside the project area.					

Sl. No.	PROJECT DETAILS	Cap. (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / Anticipiated		
			Syn. com.	COD	Syn. com	COD	
	Central Sector						
5.	Lara STPP, Dist:Raigarh, Chhattisgarh (NTPC Ltd.)	1600					Unit-1: Boiler: Boiler erection started on 23/12/13. Boiler Hydro test done in 12/15.BLU done in 01/17.SBO completion done in 05/17. ESP: 05 out of 06 passes of ESP erection completed. 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 06/17. Unit synchronized on 09.09.17
	U-1	800	09/16 11/16	03/17	09/17(A) 11/17	12/17	Unit-2: Boiler: Boiler erection started in 04/14. Boiler Hydro test done in 04/16. BLU expected in 12/17 ESP: ESP structural erection completed. ESP hoppers erection completed in 3rd pass and hopper erection works are in progress in 4th pass. TG: Condenser erection started in 01/16. TG deck casting started on 26.05.16. TG erection start in 02/17. TG Box-up expected in 12/17.
	U-2	800	03/17 05/17	09/17	04/18 06/18	07/18	Balance of Plant: Chimney: Chimney shell casting is completed. Flue cans erection completed. CHP: There are two nos. of wagon tippers and one no. of track hopper planned in this project. 01 no. of wagon tippler is erected. WT-2 erection works are in progress. Stacker-Reclaimer-1&2 (SR-1&2) erection works in progress. All transfer points erection in progress. Erection works of various galleries started. Most of the crusher house structural erection works completed. Track Hopper civil works are in progress. 50% works of hopper and floor casting of track hopper and maintenance platforms on both sides completed.
	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. 37800 Lakhs					
Cum Exp(up to July'17)		:Rs 842100 lakhs					
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	Balance land acquisition for MGR route, MUW pipe corridor & pump house and Ash dyke, Ash handling system by Indure, readiness of TDBFP's by BGR					
	Reasons for Delay	Slow progress of TG site civil works. Delay in aquisition of balance land.					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A) / Anticipated			
			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 expected in 05/18. TG: Condenser erection start expected in 05/18. TG erection start expected in 07/18. Unit-2: Boiler: Boiler erection started in 07/16. Hydro test expected in 12/18. TG: TG erection start expected in 10/18. Unit-3: Boiler: Boiler erecton started in 06/17. TG: TG erection start expected in 01/19. FGD System: Order not yet placed.	
	Unit-1	660	12/17 02/18 02/19* 02/19*	04/19	12/19 02/20	03/20		
	Unit-2	660	06/18 08/18 08/19* 08/19*	10/19	06/20 08/20	09/20		
	Unit-3	660	12/18 02/19 02/20* 02/20*	04/20	12/20 02/21	03/21		
		* Revised Schedule.						
	Org Est. approved cost		: Rs 1436700 Lakhs					
	Latest Cost		: Rs 1436700Lakhs					
	Exp. During		2013-14 : Rs. 153000 lakhs 2014-15 : Rs. 52500 lakhs 2015-16 : Rs. 57300 lakhs 2016-17 : Rs. 220800 lakhs 2017-18 : Rs. 33100 Lakhs					
	Cumulative Exp (up to July'17)		: Rs. 521400 lakhs					
	Type of fuel		: Coal					
	Date of Main Plant Order		Feb'14					
	Common information		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, start up power availability,						
Reasons for Delay		Balnce land acquisition issues. Delay in BHEL supplies. Delay in award of ACC package.						

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / Anticipated		
			Syn. com.	COD	Syn. com	COD	
	Central Sector						
7.	Kudgi STPP St-I, Dist: Bijapur, Karnataka (NTPC Ltd.)	2400					Unit-1: 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 12/16(A)	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. Full Load achieved on 25.12.2016.
	U-2	800	03/16 06/16	10/16	03/17 03/17(A)	10/17	
	U-3	800	09/16 12/16	04/17	11/17 11/17	12/17	
	Investment Approval	:Dec'2011.					
	Sanctioning Authority	: NTPC Board					
	Orig.Est. cost	: Rs 1516619 lakhs					
	Latest.Est. Cost	: Rs 1516619 lakhs					
	Exp.During 2011-12	:Rs 19200 lakhs					
	Exp.During 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. 64800 Lakhs					
	Cum Exp(up to July'17)	:Rs 1391400 lakhs					
	Type of fuel	: Coal					
	Coal block	Bhalumuda Captive coal block					
	Date of Main Plant Order	SG: Feb'12, M/s Doosan Heavy Ind., Korea TG: Feb'12 on M/s Toshiba.					
	Zero Date	25.01.2012					
	Critical Areas	Land acquisition for Railway siding, ash pipe corridor, raw water reservoir. Poor Progress of main plant civil works Readiness of railway siding, readiness of CHP/AHP.					
	Reasons for Delay	Delay in award of SG civil works. Delay in TG erection start. Stoppage of work on account of NGT order in 03/14. Unrest and violent agitation in 07/14 with exodus of manpower and stoppage of work. Delay in readiness of CHP, AHP packages.					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A) / Anticipated			
			Syn. com.	COD	Syn. com	COD		
8.	Central Sector						Unit-1: 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. TG: TG erection started on 04.07.14. TG box-up completed in 07/15. TG oil flushing completed in 11/15. Full load achieved in 04/17. Unit-2: Boiler: Boiler erection started on 29/09/13.Boiler hydro test is expected by 11/17. TG: TG erection started on 15 th May’15. TG Box-up done in 08/16.TG oil flushing completed in 05/17. TG on barring gear since 05/17. Balance of Plant: Chimney: Chimney shell casting completed. Flue can erected for both the units. CHP: Slow pace of material supply and slow pace of progress at site. Structural works 70% done, balance 30%. Equipment erection 30% done, balance 70%. Crusher structural work under progress and 4 crushers placed and alignment etc. to be done. Out of 4 wagon tipplers, one WT (WT4) erected. WT3- foundation is ready. WT1&2- excavation in progress. AHP: BAH erected. Gates and clinker grinders etc. to be erected. Ash slurry pump house, Ash water pump house, transport air compressor, vacuum pumps, switchgears buildings are ready but equipment viz. ash water pumps, ash slurry pumps vacuum pumps etc are yet to be installed. For fly ash disposal, 6 nos. HCSD pumps placed in position but yet to be commissioned with pending work as alignment, piping, electrical, C&I etc. AHP package terminated in Jul’15 and balance works re-awarded to M/s Indure in Jul’16. PT Plant: Order placed on Ion Exchange in Apr’12. DM Plant: Order placed on Ion Exchange in Mar’12. CW Pumps: Out of total 5 CW pumps, 3 are fully ready with motor trial run done. Pump trial run to be done after availability of water. Erection of remaining 2 CWP’s under progress. IDCTs: Each unit is provided with 2 IDCTs. Unit#1: IDCT 1B fully ready. IDCT 1A under completion with fills erected in 6/14 (4 cells per month); fans, motor, gear box erected in 8/14. Unit#2: Civil works under progress in both the IDCTs. FGD System: Order not yet Placed.	
	Solapur STPP, Dist: Solapur, Maharashtra (NTPC Ltd.)	1320						
	U-1	660	03/16 05/16	07/16	03/17(A) 04/17(A)	08/17		
	U-2	660	09/16 11/16	01/17	05/18 10/18	12/18		
	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						
	Exp.During 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. 30100 Lakhs							
Cum Exp (up to July’17)	:Rs 786400 Lakhs							
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							
Power Evacuation								
	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.						
	Reasons for Delay	Delay in SG supply by BGR. Delay in Right of Use (RoU) for Raw water pipeline. Delay in readiness of civil fronts by M/s. IVRCL. Delay in steam generator Engineering & supply by BGR due to non-settlement of QSGM between BGR and Hitachi, Major damage in pressure parts						

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / Anticipated		
			Syn. com.	COD	Syn. com	COD	
	Central Sector						
9.	Gadarwara STPP, St-I, Dist: Narsinghpur Madhya Pradesh (NTPC Ltd.)	1600					Unit-1: Boiler: Boiler erection started in 06/14. HT done in 12/16. BLU achieved in 04/17. SBO completed. ESP: All six pass erection completed and emitters erection is in progress. Hopper erection completed. Duct erection from ESP to chimney is in progress. TG: Condenser started in 12/15. TG erection started in 04/16. TG boxed-up in 08/17. Unit-2: Boiler: Boiler erection started in 30 th Nov’14. Pressure part erection in progress. HT expected in 09/17. 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 expected by 04/18. Balance of Plant: Chimney: Chimney shell completed upto 269m.Flue canes fabrication is in progress, Flue canes last 5 th segment lifted on 11.10.16. CHP: WT#1 & 2 final wall lift at (-7) mtr level slab in progress. Foundation of Crusher house completed. TP’s foundation work is in progress. TP’s structural material yet to received. AHP: Silos piling work completed. HCSD pump foundation completed. AWPB pillar concreting completed & pump foundation work yet to start. Sump civil work completed. PT/DM: DM storage tank #1 & 2 erection completed Water leak test done. DM vessel erection is in progress. Clarifloculator A & C raft completed, ring wall civil work is in progress. Civil work of Chemical house, Gravity filter is in progress. UF and RO tank erection completed. CWPs: CWPH volute form work &operating floor casting completed. CW pipe laying completed. IDCTs: CT-1: Fan deck level achieved for 08 nos. of cells and balance is in progress. CT-2: RCC works in wall, columns and fan deck level in progress. Switch Yard: 132KV tower erection completed and equipment erection is in progress.765KV tower erection under progress. FGD System: Order not yet placed.
	U-1	800	12/16 03/17	07/17	09/17 11/17	12/17	
	U-2	800	06/17 09/17	01/18	06/18 07/18	08/18	
	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. 49500 lakhs					
	Cum Exp(up to July’17)	:Rs 791800 Lakhs					
	Type of fuel	: Coal					
	Fuel linkage						
	Date of Main Plant Order (BTG)	in 03/2013 M/s BHEL					
	Zero Date	22.03.13					
	Common information	Main Plant order has been placed in March’13. Main plant & offsite civil works order placed in 08/13.					
	Critical Areas	ROU for make-up water pipe line, readiness of start up power line (~11Km), tapering coal linkage, Readiness of CHP and AHP, construction of permanent approach road.					
	Reasons for Delay	Work stopped due to agitation by villagers demanding additional compensatin for already acquired land. Delay in balance land acquisition, slow progress by civil agency (B&F).					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A) / Anticipated			
			Syn. (com.)	COD	Syn. (com)	COD		
	Central Sector							
10.	Khargone STPP, Dist.Khargone, Madhya Pradesh (NTPC Ltd.)	1320					Unit-1: Boiler: Boiler erection started in 04/16. Hydro test expected in 03/18.	
	Unit-1	660	01/19 03/19	07/19	01/19 03/19	07/19	TG: TG erection started in 06/17. TG Box-up expected in 07/18.	
	Unit-2	660	07/19 09/19	01/20	07/19 09/19	01/20		
	Orig.Est. cost	Rs 987051 lakhs						Unit-2:
	Latest.Est. Cost	Rs 1114886 lakhs						Boiler: Boiler erection to started in 09/16. Hydro test expected in 09/18.
	Exp. During 2014-15	: Rs. 63400 lakhs						
	2015-16	: Rs. 90200 lakhs						
	2016-17	: Rs. 112400 lakhs						TG: TG erection start expected in 02/18.
	2017-18	: Rs. 38800 Lakhs						
	Cum. Exp (up to July'17)	: Rs. 3064000 lakhs						BoPs:
	MOEF clearance							
Type of fuel	: Coal							
Date of Main Plant Order	EPC On L&T on 31.03.2015						Ash Dyke package: Order placed on R K Transport & Construction in 12/15.	
Zero date	31.03.2015							
Critical Areas	Row pending for 66Kv lines works of MUW p/h							
Reasons for Delay	---							

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / Anticipiated		
			Syn. (com.)	COD	Syn. (com)	COD	
	Central Sector						
11.	Darlipalli STPPSt-I, Dist. Sundergarh, Odisha (NTPC Ltd.)	1600					Unit-1: Boiler: Boiler erection started in 04/15. HT expected in 12/17.
	Unit-1	800	12/17 02/18	04/18	02/18 04/18	05/18	TG: Condenser erection started in 12/15. TG erection started in 04/16.TG box-up expected in 10/17.
	Unit-2	800	04/18 06/18	08/18	06/18 08/18	10/18	
	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. 53900 lakhs					
Cum. Exp (up to July'17)	:Rs.602700 lakhs						
MOEF clearance							
Type of fuel	: Coal						
Date of Main Plant Order	SG. awarded in 02/14 on M/s BHEL. TG awarded in 02/14 on M/s Toshiba						
	Critical Areas	RoU for maker up water line corridor, balance land registration (132.45 Acres out of 2002.46 Acres) for Railway siding & outfall drain.					
	Reasons for Delay	Balance Land acquisition.					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual (A) / Anticipiated		
			Syn. com.	COD	Syn. com	COD	
	Central Sector						
12.	Telangana TPP (Ph-I), Dist. Karim Nagar Telangana (NTPC Ltd.)	1600					Unit-1: Boiler: Boiler erection start expected in 10/17.
	Unit-1	800	10/19 01/20		11/19 10/20		TG: Condenser erection start expected in 04/18. TG erection start expected in 05/18.
	Unit-2	800	05/20 07/20		05/20 11/20		
	Orig.Est. cost : Rs 1059900 lakhs Latest.Est. Cost : Rs 1059900 lakhs						Unit-2: Boiler: Boiler erection start expected in 11/17.
	Exp. During 2015-16 : Rs. 600 lakhs 2016-17 : Rs 80700 lakhs 2017-18 : Rs. 8800 lakhs						TG: Condenser erection start expected in 10/18. TG erection start expected in 11/18.
	Cum. Exp.(up to July'17) : Rs. 90200 lakhs						
	MOEF clearance						Order for BOP packages placed on M/s Tata Projects on 10.01.17.
	Type of fuel						
	Date of Main Plant: SG on BHEL Order: TG on Alstom-Bharatforge on 05.02.16.						Order for Ash Dyke placed on M/s Subhash Infra on 01.06.17.
	Zero date 31.03.2015						
	Common information		Order for steam generator placed on BHEL. Order for TG placed on Alstom-Bharat forge on 05.02.16.				FGD System: Order not yet placed.
		Critical Areas					
	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) / Anticipated		
			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: Boiler: Boiler erection started on 11 th Jun’13. Boiler hydro test done on 27.05.16. BLU acheived in 03/17 SBO completed in 07/17. All mill and bunker foundations completed. 04 nos of RHS bunkers erected.
	U-1	660	04/16 06/16	08/16	08/17(A) 12/17	01/18	TG: TG erection started in 09/14. TG box-up done in 09/15. TG oil flushing completion done in 11/16. Unit synchronized on 23.08.17. Unit-2: Boiler: Boiler erection started on 20.06.14 (Delay 06 months). HT expected in 05/18. All mill and bunker foundations completed. ESP: Foundations completed. TG: TG Deck casting completed. Condenser erection started in 11/15. TG erection start expected in 11/17. Balance of Plant: Chimney: Chimney shell concreting completed. U-1 Flue can erection done and U-2 flue can erection in progress. CHP: Order placed on BHEL-ISG in Apr’12. Wagon tippler RCC works are in progress. Crusher house erection in progress. Structural erection works of various TP’s completed and that of TP-5 & Crusher house in progress. AHP: Order placed on Techpro in 07/12. CWPs: Order placed on Flowmore in 12/14. IDCTs: Order placed on Fans A S in May’12. RCC works of CT-1A&1B completed and are in progress in CT-2A&2B. Mechanical erection works in CT-1A are in progress. 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.
	U-2	660	10/16 12/16	02/17	09/18 01/19	02/19	
	Date of Sanction :-						
	Investment Approval :-						
	Sanctioning Authority : NTPC Board						
	Orig.Est. cost :Rs 1082100 lakhs						
	Latest.Est. Cost :Rs 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 lakhs							
Cumulative Exp. (Up to Apr,17) :Rs 656500 lakhs							
Type of fuel : Coal							
Date of Main Plant Order (BTG) : SG: 30.04.12 on M/s BGR Energy Systems, Chennai.							
Zero Date : TG: 01.05.12 on M/s Toshiba Corporation, Japan.							
30.04.2012							
Common information : MOE&F clearance available on 10.01.11.							
	Critical Areas	Unit-1: Land acquisition for make-upwater pipeline and Railway Siding: Possession letter received, but villagers creating hindrance in work, award of ash dyke by MUNPL. Slow engineering progress, Supply of Pressure parts by BGR. Ash handling system readiness.					
	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	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A) / Anticipated			
			Syn. com.	COD	Syn. com	COD		
	Central Sector							
14.	Tanda-II STPP, Dist. Ambedkar Nagar, U.P. (NTPC Ltd.)	1320					Unit-1: Boiler: Boiler erection started in 12/15. Hydro test expected in 12/17.	
	Unit-1	660	07/18 09/18	11/18	07/18 09/18	11/18	TG: Condenser erection started in 03/17. TG erection started in 07/17.	
	Unit-2	660	01/19 03/19	05/19	01/19 03/19	05/19	Unit-2: Boiler: Boiler erection started in 10/16. Hydro test expected in 05/18.	
	Investment. approval	Sep 2014						TG: TG erection start expected in 10/17.
	Orig.Est. cost	: Rs 918898 lakhs						Balance of Plant: Chimney: Order placed on GDCL in 02/15. CHP: Order placed on L&T in 12/15. AHP: Order placed on L&T in 03/16. DM Plant: Order placed on Driplex in 08/15. CWPs: Order for CW system equipment placed on KBL in Jun’15. NDCTs: Order placed on L&T in 10/15. FGD System: Order not yet placed.
	Latest.Est. Cost	: Rs 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. 31600 Lakhs						
	Cum. Exp(up to July’17)	: Rs.297800 lakhs						
	Type of fuel	: Coal						
	Date of Main Plant Order	Boiler: L&T TG: Alstom in Sep’14.						
	Common information	SG & TG awarded in Sep’14. MP civil works awarded to M/s GDCL in Feb’15.						
	Critical Areas	Tapering coal linkage, physical possession of balance abadi land in main plant & Ash dyke area.						
Reasons for Delay	Balance Land acquisition in main plant & Ash dyke area.							

BROAD STATUS NEYVELI LIGNITE CORPORATION PROJECTS

Sl. No.	Project Details	Unit No.	Capa- city (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	1	500	07/17	10/17	03/18	07/18	• Boiler (M/s BHEL) U-1 Erection commenced on 07/03/16. HT expected by 11/17. 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. Oil flushing is in progress. • Boiler U-2 Erection commenced on 28/03/16. HT expected by 12/17. ESP, Duct and ID fans erection work in progress. • TG & Condenser: TG erection started on 24.03.16. TG Box-up expected in 12/17. • Chimney: Shell concreting up to 269 mtrs completed. Flue can erection work completed. Duct works are under Progress. • LHP: (M/s EPIL) Stacker and reclaimers: Excavation, PCC & RCC foundation work completed and erection work are in progress. Pre-casting of boundary wall pole; panel & fabrication of fencing pole is in progress. Conveyors junction tower structure erection started ESP mech. Erection completed in 3 passes & silos Mech. Erection completed up to operating level top erection is in progress. • AHP- Order was placed by M/s EPIL to M/s Meacawber Beekay on 02/02/15. Civil works are in progress. Silo mechanical erection work nearing completion.. ESP mechanical erection completed I all passes. • RO/DM plant: Awarded to M/s EPIL on 30/04/14. Civil works are in progress. DM Plant erection work completed. • 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. CWPB and CW channel civil work are in progress. • Cooling Tower: Shell casting reached full height of 135.34 Mtrs.95% work completed. • 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 : Tender floating work in progress	
		2	500	09/17 01/18 03/18	04/18	07/18 04/18 08/18	08/18		
	Original Estd. Cost		: Rs. 590711 Lakh						
	Latest Est. Cost		: Rs. 590711 Lakh						
	Expenditure during 2011-12		: Rs. 1447.15 Lakh						
	Expenditure during 2012-13		: Rs. 1353.19 Lakh						
	Expenditure during 2013-14		: Rs. 31114.26 Lakh						
	Expenditure during 2014-15		: Rs. 44560.23 Lakh						
	Expenditure during 2015-16		: Rs. 102862.06 Lakh						
	Expenditure during 2016-17		: Rs. 193335.14 Lakh						
	Expenditure during 2017-18		: Rs. 49805.03 Lakh (08/17)						
	Total Expenditure (up to 08/17)		: Rs. 424477.06 Lakh						
	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 • CPCB: Clearances obtained and valid up to 31/03/2018. • Civil Aviation: clearance obtained on 25/11/09							
Critical issues		Supply of boiler structural material & its erection work.							
Reasons for Delay		Delayed due to change in design of foundations(depth) of main plant area and finalisation of civil contractors. Availability of soft water is delayed due to non- completion of erection of HDPE pipes. Delay in Placement of order for outlet channel & structure of CW system. Slow progress of Civil works.							

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual (A) / As now Anticipated.			
			Syn.	Com.	Syn.	Com.		
2	Ghatampur TPP JV of NLC & UPRVUNL (Lahurimau village, Ghatampur, Kanpur), U.P.	1980					Order for Gen. Auxiliaries (1) placed on L&T 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 GA 3 (BOP) – LOA issued to M/s. BGR Energy after approval of Board on 21.11.2016 & GA4 (FGD) - NIT floated on 20.02.17. BOD on 12.04.2017. Ministry of Coal has allocated Pachwara South Coal Block(PSCB) which is having coal reserve of 305MT in the state of Jharkhand to NUPPL. But, the agencies engaged for exploratory drilling works, DGPS survey work etc. have discontinued their work due to Law & Order problem. The process of engaging Mine Development Operators(MDO) for the entire Mine development is under process. Commissioning of units I, II & III expected after 52,58 & 64 months from the date of GOI sanction, i.e, 27.7.2016 respectively. ABFPPL and LMBPL Site offices are operational since 21.09.2016 & 15.09.2106 respectively. TG& Auxiliaries - Establishment of ABFPPL Site Office is in progress. - Gantry crane Rail foundation RCC is in progress - Establishment of Laydown area is in progress - Labor colony construction work is in progress - TG#1 foundation excavation work is in progress - Civil works commenced on 05.05.2017 and the work was stopped on 22.05.2017 afternoon due to local villager’s agitation on Land issues. Now work was resumed from 12.08.2017. - Samples for design Mix sent to NCCBM on 14.06.2017. - MDCC for Deaerator Package unit-I issued by NUPPL. - MDCC for CW-Puddle Flange Unit-I, II & III issued by NUPPL. SG& Auxiliaries - Site office construction work in progress. - Civil testing lab has been established (Partially). - One number batching Plant erection completed and is in operation. - Foundation excavation for Boiler#1 completed. - PCC for CF4 foundation completed and reinforcement binding in CF4 foundation completed partially before rain. - Dewatering of Boiler#1 excavated pit is in progress since the excavated pit was filled up with rain water. - Receipt of 825MT Cement and 999MT Reinforcement at site. Anchor Frame for boiler foundation 39MT received at site. - Boiler#2 and 3 foundation excavation work is under progress. - All construction works were stopped since 22.05.2017 afternoon due to local villager’s agitation and the work was resumed on 12.08.2017. - Trial Mix of M30 Grade concrete is in progress. Final report awaited. - Inspection for primary structure for 4 columns of Boiler-I (Category-A) completed for 161.544 MT from 19.08.2017 to 21.08.2017. - MDCC for 1711.943MT of Primary Structure Boiler Column, Secondary Structure, Fabricated steel components has been issued by M/s NUPPL. - MDCC for 17.81137MT for Pressure parts and Supports (Category –B/IBR) has been issued by M/s NUPPL. - Three (3) Lots of secondary structure Boiler Unit-I received at site on 26.08.2017. BoP - Site handed over on 06.03.2017 (Chimney and AHS area).	
	Unit-1	660	10/20	11/20	10/20	11/20		
	Unit-2	660	04/21	05/21	04/21	05/21		
	Unit-3	660	08/21	09/21	08/21	09/21		
	Date of clearance by the board of NUPPL	: 15.10.2016						
	Original/revised/Latest Est. Cost	: Rs.1723780 lakhs						
	Date of Financial Closure	: Tender floated for getting Loan. Not completed						
	Exp. During 2012-13	:Rs.13838 Lakhs						
	Exp. During 2013-14	:Rs.580 Lakhs						
	Exp. During 2014-15	:Rs.3978 Lakhs						
	Exp. During 2015-16	:Rs.(-)528.76 Lakhs						
	Exp. During 2016-17	:Rs.74902.97 Lakhs						
	Exp. During 2017-18	:Rs. 15765.56 Lakhs						
	Cumulative Expd. (up to 08/17)	: Rs. 108535.85 Lakhs						
	Type of fuel	: Coal						
	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						
	Land	: Entire Land of 828 Hectares has been acquired and taken physical possession on 27.11.2016 .						
	PPA	: Signed with UP Govt. on 31.12..2010						
	MoEF Clearance	: MoEF issued Environmental clearance to NUPPL on 17.06.2015						
	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 eld on 13.07.2015 at New Delhi, has agreed for power evacuation system of Ghatampur Thermal Power Station proposed by UPPTCL						

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual (A) / As now Anticipated.		
			Syn.	Com.	Syn.	Com.	
							- Contour and topography survey works have been completed for RW reservoir & Ash pond 1 & 2 on 09.03.2017. - Area for site office establishment handed over on 15.03.2017 - Samples for design mix sent to NCCBM Ballabgarh on 19.03.17 and area for labor colony handed over on 23.08.17. - Area for labour colony handed over on 20.03.2017. - Construction of labor colony commenced on 24.03.2017 - FQAP for general civil works revised and resubmitted on 20.04.2017 and finalised. - All soil investigation works were completed on 09.05.2017. - Earth work excavation for chimney has begun on 22.05.2017. - Works were come to stand still since 22.05.2017 due to local villager's agitation on Land issues. - Work resumed on 18.08.2017. - The Earth Work excavation for NDCT#1 has begun on 21.08.2017. - Area for RWR and DM Water Plant has been handed over on 25.08.2017. - Trial mix work has begun on 28.08.2017. FGD Package is under Tendering Process. Tender was opened on 02.06.2017. 28 Firms participated and Techno Commercial evaluation is under progress
Critical Areas							

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) Rajasthan	1	250	05/20	05/20 08/20	05/20	05/20 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.
Estimated cost (M/Y)		: Rs. 211259 Lakhs						
Revised approved cost(M/Y)		NA						
Exp. During 2017-18		Rs. 15210 Lakhs						
Total Exp (up to 08/17.)		Rs. 15210 Lakhs						
Zero Date of Project		: 21.11.2016						
Financial Closure		Under progress						
Main Plant order Date		EPC contract to M/s Reliance Infra..						
BOP Package								
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							

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	Bithnok TPP (Distt. Bikaner) Rajasthan	1	250	05/20	<u>05/20</u> 08/20	05/20	<u>05/20</u> 08/20	• R-infra has established their site office at Bithnok. • The package activities at Bithnok are yet to start.
Estimated cost (M/Y)		: Rs. 2196319 Lakhs						
Revised approved cost(M/Y)		NA						
Exp. During 2017-18		Rs. 16630 Lakhs						
Total Exp (up to 08/17.)		Rs. 16630 Lakhs						
Zero Date of Project		: 21.11.2016						
Financial Closure		Under progress						
Main Plant order Date		EPC contract to M/s Reliance Infra..						
BOP Package								
Type of Fuel		Lignite						
Fuel linkage		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							

STATE & PRIVATE SECTOR

NORTHERN REGION

BROAD STATUS OF THERMAL POWER PROJECTS IN RAJASTHAN

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	Chhabra SCTPP, Chhabra RRVUNL (Distt. Baran), Rajasthan	5	660	06/16	09/16 09/16	02.10.16(A)	04.04.17(A) 09/17	<u>Unit-5</u> • 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. Unit Commissioned on 04.04.17. COD expected in 09/17. • 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. Boiler chemical cleaning start is expected in 09/17. BLU expected in 10/17. • ESP: RCC work completed. ESP erection started on 04/09/15 & 97% erection completed. Insulation work is in progress. • TG: TG deck casting completed on 25.06.16. TG erection started on 11.07.16. TG Box up is completed on 20.08.17. TG oil flushing started in 05/17 & in progress. TG on BG is expected in 09/17. BoPs: • Chimney: Shell upto +270 m. Approx 76% work completed. Brick lining work completed for one flue and for second flue nearing completion. • NDCT: Basin Floor PCC, RCC, Ring Rafting, Pedestal on raft, racker column completed. Shell completing 173/185m expected upto 08/17. 50% NDCT readiness is expected by 09/17. • DM Plant: DM plant building fabrication in progress. Auto comm is balanced. PT plant charged. One non-DM clarifier charged now. • CW System: RCC for raft and wall work is in progress. 1935/1950 MT (99%)erection completed • U-6: RCC for raft completed, wall work in progress. Fabrication work is 98% completed. • FO system: RCC work completed. Finishing work in progress. • Switchyard: Anta line charged on 22/04/16 and switch yard charged on 23-05-16.	
Estimated cost		: Rs. 792000 lakh							
Revised approved cost		: Rs. 792000 lakhs							
Exp. During 2013-14		Rs. 76315 lakhs							
Exp. During 2014-15		Rs. 85862 lakhs							
Exp. During 2015-16		Rs. 249612 lakhs							
Exp. During 2016-17		Rs. 279774 lakhs							
Total Exp (up to 08/17)		Rs. 745083 Lakhs							
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.							
BOP Package		CHP: L&T							
		Water System: L&T							
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	Unit	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, Rajasthan	7	660	06/16	07/16 09/16	10/17	11/17 11/17	Unit-7 Boiler: Erection started on 26.03.14. Hydro test completed on 31/12/15. BLU completed on 24.02.17. ESP: 96% erection completed. Insulation and cladding work is u/p. TG: TG civil work started on 07.12.13. Condenser erection started on 29.04.15. TG erection started on 16.11.15. TG box up done on 21.01.17. TG oil flushing started on 09.12.16.
		8	660	09/16	10/16 12/16	02/18	03/18 03/18	
		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 16995 lakhs				
		Total Expenditure (up to 07/17)		Rs 683775 Lakhs				
		Type of fuel		Coal				
		Zero date		28.03.13				
		Main Plant Order		Order placed on 23-05-13 on M/s BHEL Blr-ALSTOM, TG-SIEMENS				
		BOP Package		BHEL				
		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 conductor 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				
		Reasons for delay						

Unit-8 Boiler: Erection started on 25.06.14 HT completed on 15.03.16. Erection work of pressure parts and Rotary parts is u/p. Joints in progress. Boiler non drainable HT is expected in 11/17. ESP: 96.2% erection completed. Insulation work is u/p. TG: Condenser Erection started on 28.06.15 and TG erection on 05.11.15. Erection work is in progress. TG box is expected in 09/17. Availability of startup power made on 21.01.17. BoP's: Chimney: RCC shell and AR brick flue work of U-7 is completed. U-8 flue is also completed. Outside painting in progress. CHP: Stacker cum reclaimers in U 7 & 8- mechanical erection almost completed and counter weight, drives, grating & electrical work is under progress. Priority route-mech erection of U- 7 u/p. Wagon tippler civil work u/p. AHP: Bottom ash hopper of U-7 has completed with refractory work and equipment erection work. Bottom ash hopper of u-8 is u/p. Ash slurry pump house mech erection work u/p. NDCT: U-7: CT-7 shell construction is completed on 15.01.17. Internal columns are 93% completed. U-8: CT-8 raker columns and pond floor are completed. Shell is completed upto +167m. Partition wall and hot water duct columns are in progress. CW System: Assembly work of CWP 3&4 is completed upto motor fitting without alignment. CW pump 2 master level of discharge elbow is completed and cleared for sole plate grouting. DM Plant: Equipment erection completed and commissioning is in progress. FO system: Fabrication & shell erection of HFO & LDO Tanks is completed. HFO unloading pumps has been placed in pump house and HFO discharge line fit up & welding work is u/p. Switchyard: Back charging done from existing plant 400kV switchyard. transmission line tower foundation work u/p. Foundation of 277 towers out of 360 have been done. 192 towers out of 360 have been erected. Stringing of 25 out of 139 km has been completed.

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.	Com.	Syn.	Com.	
Private Sector							
1	PRAYAGRAJ TPP M/s Prayagraj Power Generation Co. Ltd. (Distt. Bara, Allahabad), U.P.	1980					<u>U-1: -</u> - 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. Full load Achieved on 25.12.15. COD on 29.02.16 <u>U-2: -</u> Boiler: Boiler erection started on 12.09.2011. Hydro test conducted on 29.01.15. BLU completed on 03.03.16. SBO completion expected in 05/16 ESP: ESP work completed TG: Condenser erection started on 10.06.13. TG erection started on 20.09.13. TG boxed up on 14.05.15. OF completed on 16.03.16. Unit Sync. on 07.07.16. COD on 10/09/16 <u>U-3: -</u> 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 and full load achieved on 22/05/17. COD on 26.05.2017. ESP: ESP work completed. TG: Condenser erection started on 10.01.14. TG erection started on 11.11.14. TG box up completed in 05/02/17. TG Oil flushing done on 14/02/17. BOPS: Chimney: Awarded to Paharpur. 275 height achieved for both chimneys. Flue 1&2 completed. Chimney 2 completed. CHP: Package A awarded to L&T and Package B awarded to HEW. For Package A, WT4 & WT 3 commissioned. For U-1,2,3 bunker ready. Load trials carried out. For Package B, 1st stacker reclaimer commissioned. AHP: Awarded to Macawber Beekay. System ready for U-1,2 & 3 completed. NDCT: CT-1,2 &3 completed. PTP: PT plant commissioned DM Plant: DM plant commissioned FOS: ALL HFO and LDO storage & Day tanks completed. FOH pump house ready, LDO system commissioned. FPS: Ready for U-1,2 &3 SWYRD: Work in 400 KV switchyard completed and charged one 765 kV line
Unit-1	660	06/13	10/13	10/15(A)	12/15(A)		
Unit-2	660	11/13	03/13	07/16(A)	09/16(A)		
Unit-3	660	04/14	07/14	03/17(A)	05/17(A)		
Date of clearance by State Govt.	: Nov, 2006.						
Original/Latest Est. Cost	: Rs.1162227 Lakhs/ 1387000 lakhs						
Date of Financial Closure	: Achieved on 06.07.2010 with SBI						
Exp. Upto 03/2011	:Rs.124478 Lakhs						
Exp. During 2011-12	:Rs.137691 Lakhs						
Exp. During 2012-13	:Rs.296958 Lakhs						
Exp. During 2013-14	:Rs 308897 Lakhs						
Exp. During 2014-15	:Rs. 285952 Lakhs						
Exp. During 2015-16	: Rs. 171135 Lakhs						
Exp. During 2016-17	: Rs. 130126 Lakhs						
Exp. During 2017-18	:Rs.10097 Lakhs						
Cumulative Expd. (4/17)	:Rs. 1465334 Lakhs						
Type of fuel	: Coal						
Date of Main Plant Order	: 22.01.2009 (BTG) on M/s BHEL						
Boiler, TG & Generator make.	Boiler U-1: Structure from BHEL, Pressure parts from Alstom, U- 2&3: From BHEL. TG & Gen U-1&2: From Siemens, U-3: From BHEL Hardwar.						
Zero date	23.02.2010.						
PPA	: PPA signed on 21.11.2008.						
Fuel Linkage	: Fuel supply agreement between PPGCL & NLC for 6.95 MTPA has been executed on 29.08.2013.						
Associated Transmission System	Power is proposed to be evacuated at 765 KV and 400 KV level for which 765KV and 400 KV switchyards are proposed. Responsibility of UPPCL & PPGCL. Work awarded to Isolux.						
Land: :1468 acres of land for the project is in physical possession. Land for the facilities outside the plant area is being acquired. For land required for railway sliding about 32.71 Ha out of 35 Ha has been acquired. Lease deed executed and the process of taking physical possession of land is completed. MOEF clearance: Obtained on 08.09.2009							
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.	Com.	Syn.	Com.	
2	Harduaganj Expn.,-II UPRVUNL Distt.; Aligarh, U.P	660					<u>Main Plant Package (BTG)</u> Main Boiler and Mill Structure erection work along with Air Duct is under Progress. Coal Bunker Fabrication work in progress at site. Detail engineering, Procurment and Manufacturing is under progress for following: 1) Structural Steel for Boiler 2) Pressure parts with hanger 3) Air Preheaters including SCAPH 4) Ducts within Boiler 5) Oil guns, Ignitors and Coal Burners 6) Boiler Circulation Pumps 7) Fuel oil Piping in Boiler area 8) Bellows and Dampers 9) Soot Blowing and Attemperation System 10) Mills 11) Coal Bunkers 12) FD, PA and ID fans 13) Critical piping <u>Main Plant Civil & Structural Work:</u> Main Plant Civil Works is under progress. Boiler & Mill Foundation handover completed. TG Foundation civil work, Closed Store, CCR building civil work under progress. Start of rebar fixing for CW pipe bottom raft encasing, Casting of CW channel raft by M/s SIMPLEX. TG Building structural material received at site. <u>FGD Plant:</u> FGD package is being executed by Doosan. Currnetly detail engineering work is under progress. <u>Coal Handling Plant</u> Awarded to M/s. FLSMIDTH and Detailed Engineering activities are in advanced stage of finalization. Major BOI ordering such as Wagon Tippler, Crusher, Stacker Reclaimer, Apron Feeder, Structural Steel and other equipments is completed. Manufacturing of WT, Crusher, SAC, Paddle Feeder is started <u>Ash Handling Plant</u> Awarded to M/s. Indure and Detailed Engineering manufactureing activitites are in progress. <u>Cooling towers</u> Awarded to M/s. Paharpur and detailed Engineering activities are in under progress. Civil works of cooling tower under progress by M/s.Paharpur <u>Chimney</u> 1) Wind Tunnel Study conducted at IIT-Kanpur 2)Design consultancy being carried out by STUP Consultant 3) Piling work of Chimney area is completed by M/s. ITDC 4) Chimney Raft civil work in progress. <u>PT Plant</u> Awarded to M/s. Driplex and Detailed Engineering & Manufacturing activities are in progress. Clarifier civil work in progress. Cascade Aerator civil work in progress. Sludge thicker civil work in progress. <u>DM Plant</u> Awarded to M/s. Driplex and Detailed Engineering & Manufacturing activities are in progress. DM Plant building civil work in progress. <u>CW ACW Pumps</u> Awarded to M/s Xylem and Detailed Engineering & Manufacturing activities are in progress. <u>Switch Yard</u> Awarded to M/s. ABB and Detailed Engineering and Manufacturing activities are in progress. <u>Fuel Oil System</u> Awarded to M/s. GMW and Detailed Engineering and Manufacturing activities are in progress.
	Unit-1	660	04/19	06/19	04/19	06/19	
	Date of clearance by State Govt.	:					
	Original/revised/Latest Est. Cost	: Rs.482649 lakhs					
	Date of Financial Closure	: Achieved on 14.03.2012					
	Exp. During 2015-16 (up to 02/17)	: Rs. 29172.8 Lakhs					
	Cumulative Expd. (02/17)	:Rs 29172.8 Lakhs					
	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					
	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. <u>Note:</u> - The above dates are based on 52 months completion schedule. - All the other BoP packages have also been awarded to various contracting agencies for execution.						
Critical Areas/ Assistance Required		1. Following Project activities are impacted due to implementation of GST: • Dispatches are help up. • Invoicing Mechanism is not yet finalized. • Civil work execution is getting affected due to pending invoices since July, 2017. 2. Uncertainty in change order finalization resulting in delay execution of FGD and SCR package.					
Reasons for Delay		Late receipt of the MOEF&CC revised order bv 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.	Com.	Syn.	Com.	
3	Obra-C TPP UPRVUNL (Obra, Dist. Sonebhadra), U.P.	1320					- EPC Contract awarded to M/s. Doosan Power Systems India Pvt. Ltd. On 22.12.2016 - Commissioning of units I, & II are scheduled for 21.12.2020 and 21.04.2021 respectively. - SG package by M/s DPSI& STG package by M/s Alstom Bharat Forge Power Ltd. - Completed Front for BTG work handed over DPSI. Soil investigation and survey work completed. First (10%) and second (5%) installments of initial advance paid to DPSI. In Progress - Site Leveling for Power Block area - Site Leveling for Ash Pond area. - Site Leveling for Cooling Tower area. - Site Leveling for (CHS Area) -Track Hopper area - Dismantling for existing structure in Obra BTPS - Preparation of Fabrication & Storage Yard. - Construction of DPSI Site office. - Temporary Access Road to Main Power Block, SWYD, Corridor, etc - Construction of Temporary Security Fence - Construction of Construction Power for camp and Fabrication & Storage Yard - Trial Blasting in Power Block area - Excavation for Boiler foundation #1, #2 - Excavation of TBN/GEN Building foundation #1, #2 - Excavation of TBN/GEN Pedestal foundation #1 - Construction of Main Road on Power Block North area Purchase Order Placement / Contracts Awarded Status - Earthing & Lightning Protection System (01 June 2017) - Deaerator & Feed Storage Tank (21 June 2017) - TG Embedded parts (21 June 2017) - TG Hall EOT Crane (29 June 2017)
	Unit-1	660	11/20	12/20			
	Unit-2	660	03/21	04/21			
	Date of clearance by State Govt.						
	Original/revised/Latest Est. Cost	: Rs.1041600 lakhs					
	Date of Financial Closure	: 13.11.2013 70% debt loaned from REC and 30% equity to be borne by State Govt.					
	Expenditure						
	2016-17	42377 Lakha					
	2017-18	22578 Lakhs					
	Cumulative Expenditure (up to 07/17)	: Rs. 64955 Lakhs					
	Type of fuel	: Coal					
	Date of Main Plant Order/BoPs	: Order for main Plant Equipment(BTG) awarded to M/s. Doosan Power Systems India Pvt. Ltd. On 22.12.2016					
	Zero date	: 22.12.2016					
	Land	: Not required being an expansion Project					
	PPA	: Signed with UPPCL. on 16.01.2013					
	MoEF Clearance	: Forest clearance obtained on 30.06.2016 and Environmental clearance obtained on 21.06.2016					
	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					
Power Evacuation System	By UPPTCL at 765 KV						
Water	: Allocation of 54 cusec water by Govt. of UP from Rihand Reservoir						
Critical Areas/Assistance Required		Shifting of Transmission lines passing through the proposed switchyard area and Coal Handling area.					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual (A) / As now Anticipated.		
			Syn.	Com.	Syn.	Com.	
4	Jawaharpur STPP JVUNL (100% subsidiary of UPRVUNL) (Village: Malawan, Dist. Etah), U.P.	1320					• Order for main Plant Equipment(BTG) awarded to M/s. Doosan Power Systems India Pvt. Ltd. On 22.12.2016 • Commissioning of units I & II are scheduled for 12.2020 (48 months) and 04.2021 (52 months) respectively.
	Unit-1	660	11/20	12/20			<u>Status of Construction Activities:</u> ▪ Load test of piles ▪ Construction of site office & Camp ▪ Construction of temporary power ▪ Excavation work for CW pipeline ▪ Construction of additional test piling work
	Unit-2	660	03/21	04/21			
	Date of clearance by State Govt.						
	Original/revised/Latest Est. Cost	: Rs.1055627 lakhs					
	Date of Financial Closure	: 80% debt loaned from PFC & REC and 20% equity to be borne by State Govt.					
	Cumulative Expenditure (up to 07/17)	: Rs. 64200 Lakhs					
	Type of fuel	: Coal					
	Date of Main Plant Order/BoPs	: Order for main Plant Equipment(BTG) awarded to M/s. Doosan Power Systems India Pvt. Ltd. On 22.12.2016					
	Zero date	: 22.12.2016					
	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.					
	PPA	: Signed on 31.12..2016					
	MoEF Clearance	:Forest clearance obtained on 30.06.2016 and Environmental clearance obtained on 21.06.2016					
	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					
	Associated Transmission System						
	Water	: 53 cusecs water allocated from Lower Ganga Canal by irrigation Department for the Project on 09.11.2009					

BROAD STATUS OF THERMAL POWER PROJECTS IN UTTARAKHAND

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), Udham Singh Nagar, Uttarakhand	GT-1 GT-2 ST	75 75 75	10/11 10/11 12/11 12/11	10/11 10/11 12/11	11/17 11/17 12/17 12/17	12/17	<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 Estd. Cost		Rs.89800 Lakhs							
Latest Est. Cost		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 (Upto 06/14)		: Rs.91100Lakhs							
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.							

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, Uttarakhand	GT-1	75	12/11 12/11	12/11	11/17 11/17	12/17	OPEN CYCLE GT & GTG Both the gas turbines (6FA, GE France) & generators supply reached at site. Erection of both the GTs and GTGs has completed. Oil flushing of both the GTs completed. Erection of GT exhaust duct completed. By pass stack erection completed. Erection of diverter and damper completed. GT is ready to put on turning gear. Commissioning in open cycle is possible within one month from availability of gas COMBINED CYCLE HRSG-I & II Both the HRSGs order have placed on M/s Thermax (India) 23.10.10. HRSG erection completed. HT of both HRSGs completed. HRSG is ready for ABO. ST: ACC erection started on 01.05.12. ACC erection is under progress. ST order has placed on M/s G.E. on 04.12.10 and completed. TG erection started 26.04.12. TG Box Up completed. TG oil flushing is about to start and its completion is expected by 07/14. TG on BG after oil flushing completion. ST synchronization is expected within two and half month from availability of gas. Combined cycle commissioning is expected within 3month from availability of gas. BoPs: • All the BoPs are either already completed or nearing completion.	
		GT-2	75	12/11 12/11	12/11	11/17 11/17			
		ST	75	03/12 03/12	03/12	12/17 12/17			
Original Estd. Cost			: Rs. 93600 Lakhs						
Latest Est. Cost			: Rs. 125400 Lakhs						
Expenditure during 2010-11			: Rs. 4649 Lakhs						
Expenditure during 2011-12			: Rs. 74994 Lakhs						
Expenditure during 2012-13			: Rs. 20008 Lakhs						
Expenditure during 2013-14			: Rs. 16000 Lakhs						
Expenditure during 2014-15			: Rs. 2913 Lakhs (upto 06/14)						
Total Expenditure (Upto 06/14)			: Rs. 118564 Lakhs						
Approval date:			: NA						
Zero date:			: 04.12.10						
Notice To Proceed (NTP)			: 04.12.10						
Financial closure			: Achieved						
Main Plant Order			: 20.09.10, 04.12.10 And 23.10.10 on M/s BETA Infraprop (P) Ltd (EPC Basis) through ICB route.						
BTG Make			GTGs# GE, France(6FA), HRSGs# Thermax (India).and STGs are from HTC China						
BOP Package			: Reputed Indian Vendors						
Type of fuel			: Natural Gas						
PPA			Yet to be signed						
Source and supply of Fuel			Domestic Gas from D-6, KG Basin (Right now E-Bidding RLNG)						
Power Evacuation system			Connectivity of the plant with 220/132kV Mahua Khera Ganj substation has been approved. LILO of 220kV circuit from 400kV Kashipur to 220 kV Mahua Khera Ganj is nearing completion. Long Term Access (LTA) from 220kV/132kV Mahua Khera Ganj sub-station has been approved by PGCIL.						
			- FSA yet to be signed - All statutory clearances are available. - All the BOPs are either already completed or nearing completion. - Both the gas conditioning skids are yet to be made ready. - Gas in gas pipeline charged upto GAIL skid inside the project. - Availability of startup power is expected by 09/16. - Switchyard with control room is ready.						
Critical issues		Availability of Gas and PPA Developer is planning to participate in next e-auction of RLNG.							
Reasons for Delay		Non-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	Syn.	Comm. COD	
Private Sector								
1	Akaltara(Nariyara) TPP, (Distt: jangir-Champa) M/s KSK Mahanadi Power Company Ltd.(Formerly Wardha Power Company Ltd), Chhattisgarh	U-1 (U-3)	600	02/12	04/12	18.05.13 (A)	13.08.13 (A) 14.08.13(A)	Unit-1 (U-3) Boiler: 1. 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. Full load achieved on 13.08.13. COD achieved on 14.08.13 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)	600	06/12	08/12	08.08.14 (A)	22.08.14 (A) 26.08.14(A)	
		U-3 (U-2)	600	10/12	12/12	10/17	11/17 12/17	
		U-4 (U-5)	600	02/13	04/13	06/18	06/18 06/18	
		U-5 (U-1)	600	06/13	08/13	09/18	09/18 09/18	
		U-6	600	10/13	12/13	12/18	12/18 12/18	
		Org.Est. cost	:Rs.1619000 Lakh					
	Latest Cost	: 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.							
								Unit-2 (U-4) Boiler. Boiler erection started on 01.12.10. Boiler Drum lifted 19.06.11. Boiler HT (Non-Drainable) completed on 11.05.13. BLU completed on 17.05.14. SBO completed on 07.07.14. Oil synchronized on 08.08.14. Full load achieved on 22.08.14. COD achieved on 26.08.14 TG: TG Deck casting completed on 20.02.12. TG erection started on 07.11.12. TG boxed up on 30.06.14. TG oil flushing completed. TG Barring gear completed in 07/14. FGD: FGD plant expected in 8/22.
								Unit-3 (U-2) Boiler. Boiler erection started on 01.04.11. Boiler Drum lifted on 29.04.12. Boiler hydro Test(ND) is completed on 12.07.17. BLU expected on 02.10.17. SBO completion is expected on 10.10.17. TG: TG Deck casting completed. TG erection started on 05.01.17. TG Box Up is expected on 22.09.17. FGD: FGD plant expected in 10/22.
								Unit-4 (U-5) Boiler.

Sl. No.	Project Details	Unit	Cap. (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch	Comm	Syn.	Comm. COD	
	• 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. • <u>As per the letter dated 18.10.16</u> 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.				Boiler erection started on 08.12.11. Boiler Drum lifted on 31.08.16. Boiler HT (Non-Drainable) is expected in 12/17. BLU is expected in 03/18. SBO completion is expected in 06/18. TG: TG Deck casting completed on 06.10.12. TG erection start is expected in 11/17. TG Box up expected in 05/18. FGD: FGD plant expected in 12/22. <u>Unit-5 (U-1)</u> Boiler. Boiler erection started on 06.02.12.. Boiler Drum lifting is expected in 12/17. Boiler HT (Non-Drainable) is expected in 06/18. BLU is expected in 09/18. SBO completion is expected in 9/18. TG: TG Deck casting completion is yet to be casted..TG erection start is expected in 03/18. FGD: FGD plant expected in 02/23. Unit-6 Boiler: Boiler raft casting completed. Boiler erection start expected in 11/17. Boiler Drum lifting is expected in 03/18. TG: TG raft casting completed and column casting is in progress. Deck casting completion is expected in 05/18. FGD: FGD plant expected in 04/23. BoPs: Chimney- 1: Chimney shell casting 270 m completed. Flue cane erection completed. Chimney-2: Shell casting 270 m completed. Flue can fabrication & erection completed. CHP: Track hopper-1 is in operation and track hopper-2 is in advance stage. Crasher house 2 is u/p. Stacker reclaimers 1&2 is in operation &3 is in progress.3 AHP: Ash dyke work is completed. Bottom ash disposal for U-3&4 is in operation. Slurry system of phase-1 &2 completed and in operation. Raw Water Supply System: Water Resources Department, Govt., of Chhattisgarh has allocated 100 MCM of water /year from Mahanadi River from proposed anicut at Basantpur. PT/ DM Plant: Three streams are commissioned and in operation. CW System: majority of work has been completed. IDCT: IDCT for U-1(3) & 2(4) are in service and for rest of unit’s erection works are in progress. FOPH: Fuel oil distribution system completed. Switchyard: Back charging of 400kV switchyard completed on 27-08-2012. Control building in service.			
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.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch	Comm	Syn.	Comm COD	
2	Uchpinda TPP Unit-1(Ph-I) Unit-2,3&4(Ph-II) R.K.M Power, Janjgir Champa District, Chhattisgarh	U-1	360	03/12	05/12	28.02.15 (A)	28.10.15(A) 26.11.15(A)	Unit-1 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 synchronized on 28.02.15. Consent to operate received on 17.07.15. Full Load achieved on 28.10.15. COD on 26.11.15 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 Boiler: Boiler erection started on 12.12.11 .Boiler drum lifted on 22.04.12. 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 Synchronized on 07.01.16. Coal fired on 07.01.16. Full Load achieved on 28.01.16 and COD achieved on 12.02.16. 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.
		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) 10/17	
		U-4	360	05/13	07/13	11 /17	12/17 01/18	
	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	: Rs. 1270 Lacs						
	Exp. During 08-09	:Rs. 12311 Lacs						
	Exp. During 09-10	: Rs. 37363 Lacs						
	Exp. During 10-11	: Rs. 67641 lacs						
	Exp. During 11-12	: Rs. 153338 lacs						
	Exp. During 12-13	: Rs. 277291 lacs						
	Exp. During 13-14	: Rs. 255521 lacs						
	Exp. During 14-15	: Rs. 119057 lacs						
	Exp. During 15-16	: Rs 99890 lacs						
	Exp. During 16-17	: Rs 106584 lacs						
	Exp. During 17-18	: Rs 3602 lacs						
	Cumm Exp. (Up to 06/17)	: Rs.1132968 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- High concentrated slurry disposal system to be commissioned and ash pond to be completed- funda of Rs. 40.11 crs required. Tapering coal linkage has been cancelled by SECL. Funds required for U-3 completion -200 crs. And for U-4- Rs. 450 crs. BG to be issued to release FDR amounts paid customs. PPA issue- CSPTCL has expressed inability to offtake power as per PPA. Working Capital required for starting operation of U-1 is 153 cr & for U-2,3, and 4 is 571 cr.Readiness of Railway siding(work delayed due to land acquisition because of new land acquisition policy and funds)							
Reasons for Delay	Work suffered due to agitation by villagers. Slow progress of work at site. Delay in readiness of BoPs. Delay in readiness of startup power. Delay due to financial problems. Balance land acquisition for Ash pond and railway line. Consent to operate for U-2,3&4.							

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch	Comm	Syn.	Comm COD		
3	Lanco Amarkantak Mega TPS (Pathadi) (Distt. Korba) M/s LAP Pvt. Ltd. Phase-II, Chhattisgarh	3	660	01/12	01/12	10/17	11/17 11/17	Unit-3 Boiler: erection started on 09/10. HT completed on 22.07.16. BLU expected on 09/17. BLU delayed due to non-availability of start-up power. SBO completion is expected in 09/17.	
		4	660	03/12	03/12	11/17	12/17 12/17		
	Original Estd. Cost		Rs.688600 Lakhs						ESP: Pass B ATT completed. Pass C ATT is also completed.
	Latest Est. Cost		Rs770000 Lakhs Rs. 1081524 lakhs						
	Expenditure during 2007-08		Rs. 189 lakhs						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. TG on BG is expected in 09/17.
	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						Unit-4 Boiler: Boiler erection started on 1/12/10. Boiler HT is expected in 08/17.BLU expected in 10/17.SBO completion is expected in 11/17. ESP: All 4 passes are under progress. TG: Condenser erection started on 02.11.11. TG Deck casting completed & TG erection started on 15/05/13 & TG box up expected in 09/17.
	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 up to 12/16		Rs. 953779 lakhs						
	Approval date:								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. Roof slab of main & intermediate fly ash silo utility building are 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
	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 27.08.13U-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.							

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Syn.	Comm	Syn.	Comm COD		
4	Salora TPP (Katghora Tal; Distt. Korba) M/s Vandana Vidyut Ltd, Chhattisgarh	U-1	135	06/11	06/11	04.09. 13(A)	10.04. 14(A)	Unit-1 Boiler: • Erection of Boiler-1 started in 11/10. Boiler Drum lifted on 23.02.11. HT completed on 28.01.12. Explosive Approval obtained on 22.01.13 BLU completed on 06.03.13. SBO completed. Unit synchronized on 04.09.13. Full load achieved on 10.04.14. COD is yet to be declared. • TG: TG erection started in 11/11and TG box-up completed in 07/12. Unit-2 • Boiler: Boiler erection started in 11/10 and drum lifted in 04/11. HT completed in 10/12. BLU completed in 09/14 and steam blowing completed in 10/14. Delay due to supply of boiler material & CHP material by M/s Cethar Vessels Ltd.and delay in getting of startup power. Delay due to agitation by the villagers at project site. • TG: erection started in 11/11and TG boxed-up 09/14 and put on barring gear in 10/14. BoPs: • Chimney: Flue can erection completed. • CHP: Under progress. • AHP: Under progress. • CW System: Under progress. Latest Status: Unit Synchronized on 04.09.13. Unit was under shutdown for attending various commissioning problems. On 28.02.14 M/s. Cethar Ltd again send a drawing for modification of the oil gun guide with lug support. The burner problem remains unsolved. The basic reason is that the burners are not supporting properly. As Full load /COD has not been achieved within six months of synchronization as per the regulations of Electricity Act-2003, now they have to get permission from CERC for connectivity and after which WRLDC will give permission for re-synchronization. CERC has given the permission to injection of infirm power to the Grid upto 11.04.14 vide their order dated 14.03.14. V V L has submitted the CERC order to WRLDC for permission to inject the infirm power to the grid on 18.03.14 and got the permission from WRLDC on 20.03.14. Now V V L is trying themselves for completing balance work as Cethar Ltd. is not cooperating.	
		U-2	135	09/11	09/11	Uncertain	Uncertain		
	Original Estd. Cost	:Rs 1458.44 crores							
	Latest Est. Cost	: 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), Foe commissioning HEC/HTC Engineers are required. AVR Feed back Card-pending from long time, LVDT replacement- All the LVDT are not working. Rotor stoppage alarm panel to be supplied, supply of Technical data sheet of TG instruments and ISCAN-2 for Unit-2 as per letter dated in 09/14								
Reasons for Delay	Delay in commissioning of U-1.Agitation by villagers at site. Delay in sullpy of BTG and CHp material. Non corporation of BTG supplier in commissioning activities. Acquisition for railway siding and ash pond.								

SI.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch	Comm	Syn.	Comm COD		
5	Singhitarai TPP (DumatpalliTPP) Janjgir (Vill) Champa Distt. (M/s Athena Chhattisgarh Power Ltd), Chhattisgarh	U-1	600	10/14	11/14	01/18	02/18 03/18	Unit-1: Boiler Boiler erection started in 29/07/12. Drum lifted on 07.04.13. Non-Drainable HT done on 08.10.15. BLU expected in 11/17. 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	07/18	08/18 09/18		
	Date of Appr. State Govt. :								
	Est. approved cost : Rs. 620000 lakhs								
	Latest Cost : Rs. 811900 lakhs : Rs. 844379 lakhs								
	Exp up to 03/2008 :Rs. 371 lakhs								
	Exp 2008-09 :Rs. 3509 lakhs								
	Exp 2009-10 :Rs. 6690 lakhs								
	Exp. 2010-11 :Rs. 56343 lakhs								
	Exp. 2011-12 :Rs. 50204 lakhs								
	Exp. 2012-13 :Rs. 92116 lakhs								
	Exp. 2013-14 :Rs. 129337 lakhs								
	Exp. 2014-15 :Rs. 154090 lakhs								
	Exp. 2015-16 :Rs. 62395 lakhs								
	Exp. 2016-17 : Rs. 74611 lakhs								
	Exp. 2017-18 : Rs. 11181 lakhs								
	Cum.Exp. up to 05/17 :Rs. 640847 lakhs								
	Zero date: 01.06.11 (NIT issued)								
	Financial closure : Achieved (Common loan agreement signed on 30.03.11)								
	Main Plant Order : Awarded on 21.12.09 to M/s DECL.								
	BOP Package M/s Abir infrastructure on 18.08.10								
	Type of fuel Coal								
	PPA Long term and short term PPA signed with PTC. 444 MW signed with CSPT and 150 MW signed with Nepal electricity authority. For 300 MW- LOI received & for 200 MW participated in Case-I bidding in RRVN and 107.5MW participated in the case-I bid invited by MP power mgmt. company ltd. For supply of 107.5MW power on the long term bases.								
	Power Evacuation system LTOA granted on 01.10.09. Signed BTPA with PGCIL for 683 MW 24.02.10. ISTS approval received from PGCIL on 14.06.11.Approval received form MoP for construction of 400kV D/c dedicted line from ACPL to New Kotra(PGCIL). NOC for tower height clearance received for double and multiple circuit tower from AAI. Test charging of 400kV transmission line-1 &2 completed.								
	Land: 927.275 acres of land in possession,25.96 Acres of Govt land leased to company.. MOE&F: Obtained on 04.06.10.Amendment of EC received on 22.03.16 Civil aviation: Clearence received from AAi, Mumbai on 09.04.09 Water: 35 MCM per annum allocated from Mahanadi.. Coal linkage: FSA signed with SECL on 27.02.15 for supply of 2497242 Tonnes/annum.								
Critical issues		Delay in BTG erection work. Work at site is on hold due to financial constraints							
Reasons for Delay		Delay in Land Acquisition. Slow progress of boiler & TG erection. Delay due to financial problems							

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch	Comm	Syn.	Comm		
6	Binjkote TPP SKS power Gen. (Chhattis.) Ltd Vill-Binjkote, Distt.: Raigarh, State-Chhattisgarh	U-1	300	08/13	09/13	26/01/17(A)	25/4/17(A) 08/17	Unit-1: 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. Syn on 26.1.17. Unit comm on 25.04.17. TG : Condenser erection started 04/14 . TG erection started in 05/14 . TG box up completed on 09.08.16. Unit-2 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 completion expected by 09/17. Syn is expected in 10/17. Full load is expected in 10/17. TG : Condenser erection started in 01/15 . TG erection Started in 09/14 . TG put on barring gear on 30.08.17. Unit-3: Boiler : Boiler erection yet to be started. * TG: Condenser erection yet to be started. TG erection yet to be started. Unit-4: Boiler: Boiler erection yet to be started. * TG: Condenser erection yet to be started. TG erection yet to be started. * The dates would be decided after start of Boiler erection start. BoPs: • CHP: Dumper unloading hopper erection completed. crusher house erection completed. Dumper house to crusher house all conveyors erected. Tripper erection in progress. Bunker erection in progress. • AHP: Fly ash silo concreting work is completed. Bottom ash pond work in progress. Fly ash pond(1&2) work in progress • Raw Water Supply System: raw water intake pump commissioned, raw water reservoir completed. • PT/ DM Plant: 2 no. Dm water slurry tanks completed. Dm plant equipment and piping works in progress. Raw water pupms commissioned. • CW System: Civil work completed/ CT makeup pump ersion & pipe headers competed. • FOPH: HFO & LDO tanks erected/pumps erected/piping almost completed. • 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	10/17	10/17 11/17		
		U-3	300	02/14	03/14	*	*		
		U-4	300	05/14	06/14	*	*		
	Bank Disbursement	: Rs 180000 Lakhs							
	Est. approved cost	: Rs. 505800 lakhs							
	Latest Cost: Ph-I: 3787.2 Cr& Ph-II : 3106.8 Cr	: Rs. 689000 lakhs							
	Latest Cost : Ph-I : 5240Cr & Ph-II: 3200 Cr less 500 Cr	: Rs. 794000 lakhs							
	Exp. During 2008-09	: Rs 4000 lakhs							
	Exp. During 2009-10	: Rs. 5225 lakhs							
	Exp. During 2010-11	: Rs. 21435 lakhs							
	Exp. During 2011-12	: Rs. 55000 lakhs							
	Exp. During 2012-13	: Rs. 126590 lakhs							
	Exp. During 2013-14	: Rs. 46778 lakhs							
	Exp. During 2014-15	: Rs.112677 lakhs							
	Exp. During 2015-16 (up to 06/15)	: Rs. 11095 lakhs							
	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		Balance Land to be Acquired = 55.9 Acres (44.10 Govt.+11.8 Pvt.) . Railway siding							
Reasons for Delay		U-1: achievement of COD is pending for the want of commissioning coal. U-3&4: Work yet to start. Balance land acquisition for ash dyke. Commissioning schedule would be assessed after restart of work.							

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch	Comm	Syn.	Comm COD		
7	Nawapara TPP (TRN TPP), (Distt: Raigarh) M/s TRN Energy Pvt Ltd., Chhattisgarh	U-1	300	11/13	12/13	31.05.16 (A)	14.08.16(A) 19.08.16(A)	Unit-1 • Boiler Boiler erection started on 01.10.12. Boiler Drum lifted on 30.03.13. Boiler HT completed on 28.03.14 BLU completed on 25.12.15 Steam blowing completed on 07.01.16. Oil Synchronized on 31.05.16 Unit synchronized with coal on 20.06.16 Full load achieved on 14.08.16 • TG Condenser erection started on 04/14. TG erection started in 01.06.14. TG Boxed up on 08/ 12/15, TG put on barring gear in 12/15 insulation & cladding work completed. Condenser charged. Unit-2 • Boiler Boiler erection started in 06.03.13 Boiler Drum lifted on 21.09.13 Boiler HT completed on 28.08.15 BLU completed on 23.10.16. SBO completed. Full load achieved on 18.04.17 • TG Condenser erection started on 08.07.15. TG erection started on 01.07.15. TG Boxed up on 20.11.16. TG oil flushing on 22.11.16. TG put on Barring Gear on 24.11.16. Completed. BoPs: • Chimney: All work completed. • CHP: All work completed. • AHP: All work completed. • Raw Water Supply System: RWPH is 17 Km from site, RWPH civil works along with pipe line to be taken up. CWPH: Excavation under progress (2+2+1 and 6.6kV) Reservoir excavation work is under progress. • 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.	
	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

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	8	800	07/18 10/18	10/18	07/18 10/18	10/18	<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. Boiler Hydro test is expected in 09/17.Boiler Light Up is expected in 03/18. SBO completion is expected in 06/18. <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 start is expected in 08/17. TG box up is expected in 03/18. <u>BoPs:</u> Chimney: The order placed on M/s Bygging India Ltd. Shell casting work completed upto 270 meter. Beam erection work is in progress(96% completed upto 08/17). CHP: In this package order for Civil works is with Bridge & Roof (I) Pvt Ltd. The mechanical work is with M/s GMW. The contractor has mobilized the site and civil works are in 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. Raw Water Supply System: Order placed to M/s Chembond Solenis Water Technologies Ltd for Erection & Commissioning. 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) CW System: The order has been placed on M/s Chembond Solenis Water Technology. The work is progressing as per schedule. NDCT: The order placed on M/s NBCC. Recker columns completed. Shell casting started in 07/17 and 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. Tender for EPC contract for FGD is under preparation.
Original Estd. Cost		: Rs.353651 Lakh						
Latest Est. Cost		: 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 (Upto 05/17)		: Rs.26 Lakh						
Total Expenditure (Upto 05/17)		: Rs. 212138 Lakh						
Approval date:		;NA						
Zero date:		: 21.10.14						
Notice To Proceed (NTP)		:						
Financial closure								
Main Plant Order		: 21.10.14. on M/s BHEL, EPC basis Boiler: Alstom Power INC TG: Siemens AG Germany						
BOP Package		: BHEL, EPC						
Type of fuel		: Coal						
PPA		:PPA signed on 01.01.2011 with GUVNL.						
Source and supply of Fuel		: Gare Plasma Coal Block, Chhattisgarh						
Power Evacuation system		- 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 was observed at TG front. Due to soil strata a lot of piling (4300numbers) has been done in BTG area.						

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	3	660	03/18 05/18	07/18	03/18 05/18	07/18	Unit-3: Civil works in Boiler, ESP, Mills & Bunker Bay foundation completed. Main Power House Building civil foundations already completed and structural erection also completed. Boiler erection started on 18.06.15. Pressure parts erection completed. Boiler HT completed on 31.03.17. .BLU is expected in 12/17. ESP erection started on 06.07.15. All the Ceiling Girders have already been lifted. Pressure parts erection is in progress. Coal bunker fabrication and erection is in progress. Duct fabrication and erection is also in progress. 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 is expected in 11/17. TG on BG is expected in 12/17. Unit-4: Excavation/PCC/RCC works completed in Boiler, Mills & ESP area. Excavation/PCC/RCC works in PH building (including TG), NDCT Area, CHP/AHP Areas ad CW area is in progress. Boiler erection started on 27.10.15. Boiler HT expected in 10/17. TG deck casting completed. Condenser erection started on 30.12.16. TG erection started on 01.04.17. BoPs: Chimney: Chimney shell casting completed on 16.04.16. Platform erection completed. Flue can fabrication and insulation fixing work is in progress. CHP: Wagon Tippler 1&2 and Track Hopper Civil works are in progress. Stacker reclaimers civil works are in progress. Civil work and structural/equipment erection is in progress. AHP: Civil works for BA hoppers, Fly ash silo’s, HCS silo’s, AWP, ASPH are in progress. Ash Dyke work also in progress. Raw Water Supply System: Intake well almost completed. Pipeline laying in progress. PT/ DM Plant: Civil works of various buildings and equipment erection is in progress. CW System: Civil works are going on. The laying of CW pipeline is in progress and so far 2830/3717 RM laid upto 05/17. NDCT: In NDCT-3 shell casting through Jump Form has been completed. NDCT-4: Jump Form erection for shell casting is in progress. 55/104 lift completed upto 05/17. FOPH: Civil works are in progress. LDO HFO fuel oil tank fabrication is in progress. Switchyard: Civil works of Control room building , Tower foundations and equipment foundation and tower / beam erection in progress. FGD: Tender document is under preparation. Nit likely to be floated by end of 07/17. Coating of chimney flue cans started on 2.7.17 for making it a wet chimney.	
		4	660	07/18 09/18	11/18	07/18 09/18	11/18		
	Original Estd. Cost		: Rs.650000 lakhs						
	Latest Est. Cost		: Rs.650000 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 (Upto 06/17)		: Rs 48722 lakhs						
	Total Expenditure (Upto 06/17)		: Rs. 311680 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.							
Critical issues		First stage Forestry clearance of Gonbahera Coal Block by MoE&F Power evacuation is yet to be completed by MPPTCL.							
Reasons for Delay		Project is running ahead of the schedule.							

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., Madhya Pradesh	1	600	07/11 09/11	09/11	12/12(A) 02/13(A)	04/13 (A)	Unit-1 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. 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. Synchronized on 24.12.12. Full load achieved on 25.02.13. COD achieved on 29.04.13.
		2	600	10/11 12/11	12/11	07/17(A) 09/17	10/17	
Original Estd. Cost			: Rs. 773800 Lakhs					
Latest Est. Cost			: 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 (Upto 03/17)			: Rs 815610 Lakhs					
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 4 th 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., Madhya Pradesh	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.
Original Estd. Cost			: Rs.394100 Lakhs					
Latest Est. Cost			: 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., Madhya Pradesh	2	45	04/14 05/14	05/14	Uncertain	Unit-1 Boiler erection started in 01/13. Drum lifted in 08/13. Presently work at site is on hold.		
	Original Estd. Cost		: Rs.23249 Lakhs				* Assessed after restart of work.		
	Latest Est. Cost		: Rs.25049 Lakhs				BoPs:		
	Expenditure during 2010-11		: Rs. 5100 Lakhs				Presently work at site has been put on hold.		
	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 (Upto 03/15)		: Rs. 29001 lakhs						
	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.						
			- MOEF Clearance: Obtained on 07.11.07. - Land: 129.15 Acres of land is acquired for 3x45 MW. - Water: 7 MCM PA water from Narmada river for 140 MW.						
	Critical issues		Finance						
	Reasons for Delay		Work is on hold						

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.), Maharashtra	1	270	05/14 07/14	08/14	@	@	@: Work is on hold (April,2012) Unit-1 Boiler 1. Boiler erection started on 24.11.11. 2. Work is on hold. Unit-2 Boiler 1. Boiler erection started in 01/12. 2. Work is on hold Unit-3 Boiler Work is on hold. Unit-4 Boiler Work is on hold. Unit-5 Boiler Work is on hold. BoPs: • Work is on hold.
		2	270	07/14 09/14	10/14	@	@	
		3	270	09/14 11/14	12/14	@	@	
		4	270	11/14 01/15	02/15	@	@	
		5	270	03/15	04/15	@	@	
Original Estd. Cost		: Rs.664600 Lakh						
Latest Est. Cost		: 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 (Upto 03/15)		:Rs 76380 Lakhs						
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						
BOP on EPC basis								
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. - Zero date of the project is 11.10.10.						
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 RattanIndia Nasik Power Ltd.(Formerly known as Indiabulls Realtech Ltd.), Maharashtra	1	270	12/11 02/12	03/12	02/14(A) 02/14(A)	03/14 (A)	Unit-1 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 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. Coal synch. achieved on 24.02.14. Full load achieved on 25.02.14. COD achieved on 29.03.14.
		2	270	02/12 04/12	05/12	03/16 (A) 02/17(A)	06/17	
		3	270	04/12 06/12	07/12	04/17(A) 04/17(A)	07/17	
		4	270	06/12 08/12	09/12	05/17(A) 05/17(A)	08/17	
		5	270	08/12 10/12	11/12	05/17(A) 05/17(A)	09/17	
Original Estd. Cost			: Rs.678900 lakhs					
Latest Est. Cost			: 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 (Upto 03/15)			:Rs. 661312 Lakhs					
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 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.					

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 RattanIndia Nasik Power Ltd.(Formerly known as Indiabulls Realtech Ltd.), Maharashtra	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 Estd. Cost		: Rs.678900 lakhs					
	Latest Est. Cost		: 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., Maharashtra	1	660	03/14 07/14	08/14	09/18 12/18	01/19	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 and is in progress.
		2	660	07/14 11/14	12/14	12/18 03/19	04/19	
	Original Estd. Cost	: Rs.693600 lakhs						
	Latest Est. Cost	: 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 (Upto 04/17)	: Rs 533800 lakh						
	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 Boiler & Aux.: Dongfang, China TG & Aux.: Harbin, China,	: EPC Contract awarded to M/s Lanco Infra Tech Ltd.(LITL) through ICB Route in 11/09.						
	BTG Make	Boiler & Aux.: Dongfang, China TG & Aux.: Harbin, China,						
	BOP on EPC basis	Lanco Infratech Limited						
	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.							
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.						

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), Maharashtra	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		TG	TG Civil works start is expected in 05/16. Work at site put on hold due to financial crunch.	
	Original Estd. Cost		: Rs.318900 lakhs				Unit-2 Boiler		
	Latest Est. Cost		: Rs.345000 lakhs				Boiler	Work at site put on hold due to financial crunch.	
	Expenditure during 03/14		: Rs 37475 lakh				TG		
	Expenditure during 2014-15		: Rs 4752 lakh				TG	Work at site put on hold due to financial crunch.	
	Expenditure during 2015-16		: Rs - lakh				@:	Work at site put on hold.	
	Total Expenditure (Upto 03/15)		: Rs 42227 lakh				Revised	commissioning	
	Approval date:		:				schedule will be decided after		
	Zero date:		:				re-start of work.		
	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.				BoPs		
	BTG Make						Work yet to start		
	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	1	150	12/14	02/15	23.09.17(A) 28.09.17(A)	10/17	Unit-1: Oil Synchronization achieved on 23.09.17. Commissioned on 28.09.17.	
		2	150	02/15	04/15	12/17 12/17	12/17		
	Original Estd. Cost		: Rs.241300 lakhs						Unit-1 & 2: Steam blowing of the units completed. Main plant structural work completed.
	Latest Est. Cost		: Rs. 241300 lakhs						
	Expenditure during 2011-12		: Rs 3368 lakh						Project is 96.7% complete.
	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 04/17)		:Rs 227794 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									

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	Royalaseema TPP St-IV (M/s. APGENCO) Distt.Cuddapah, Andhra Pradesh	6	600	07/14 08/14		07/17(A) 10/17	10/17	• Boiler: Erection started on 04/02/2013. Boiler Drum lifted on 30/11/13. 24292MT/ 29730MT structural materials erected till 02/17. Boiler air leak test completed. BLU done on 29/12/16. Preparation for EDTA cleaning completed on 26.02.17. Mill foundation on both sides completed. Bowl mill deck slabs completed for all mills. Boiler cumulative Tonnage erected 26427 MT Unit Synchronized on 02.07.17. Full Load expected in 10/17. • ESP: 8480 MT/ 9582 MT erected till 08/17. Erection work in all passes completed. • 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. Levelling & excavation work are in progress. • AHP: Vacuum pump house building, Silos, Bottom ash hopper, Buffer hopper, ASPH etc. area civil works completed and erection work is in progress. • RWR: Trimming of slopes of reservoir bund is in progress. In the raw water pump house RCC structure completed and brick work is in progress. • PTP: 90% of clarifier works completed. Filter water reservoir works in progress. • 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 Estd. Cost		:Rs. 302886 Lakh						
Latest Est. Cost		:Rs. 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						
Total Expenditure (up to 02/2017)		: Rs. 3437.57 Crores						
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.	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Syn. Comm	COD	Syn. Comm	COD	
State Sector								
2	Sri Damodaram Sanjeevaiah TPP St-II (Krishnapatnam) (APPDCL) Distt.Nellore, Andhra Pradesh	1	800	02/19 03/19	04/19	02/19 03/19	04/19	- All statutory inputs are available. - Boiler erection yet to start.
Original Estd. Cost		Rs. 4276.04 Crs.						
Latest Estd. Cost		Rs. 4276.04 Crs.						
Expenditure during 2015-16		Rs. 199.20 Crs.						
Total Expenditure		Rs. 199.20 Crs.						
Approval date:								
Zero date:								
Financial closure								
Main Plant Order		BTG order placed on BHEL on 02.11.15.						
BOP Package		Tendering for BOP packages are under progress.						
Type of fuel								
Power Evacuation system								
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								
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	• All statutory inputs are available. • Design and Engineering is in progress. 5988 MT materials received from M/s. BHEL. • Piling work in progress in main plant area, cooling tower. • Boiler erection started on 22.05.2017. • ESP erection started. • Excavation work in CHP area, Chimney are in progress.
	Original Estd. Cost	Rs. 5286.54 Crs.						
	Latest Est. Cost	Rs. 5286.54 Crs.						
	Total Expenditure (06/17)	Rs. 97800 lakhs						
	Approval date:							
	Zero date:	15/12/2015						
	Financial closure							
	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	Coal						
	PPA							
	Power Evacuation system							
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 05/12 03/12 08/12	06/12 09/12 	11/17 12/17 03/18 03/18	12/17 03/18	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 expected in 09/17. • ESP: Ash hopper & mini ash hopper erection completed in all passes. Cable tray erection in progress. • 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 is in progress. • ESP: Pass A, B, C casing panel erection completed & collecting electrode frame erection is in progress. Unit-4: • Boiler: erection started in 22/09/14. Drum lifted on 31.07.15 .HT expected in 09/17 • TG : Condenser erection stated on 13/07/15. TG erection started on 29/10/15. TG box up expected by 11/17. • Chimney: Ready for service. • CHP: Awarded to EDAC Engineering Ltd., Chennai on 18/06/10. Erection of Stacker Re-Claimer-I completed and that for II, 81% completed. Crusher house 2 nd tier erection is in progress. Fabrication & erection of TPs & conveyer galleries are in progress. Crusher House column erection completed and other works are in progress. • AHP: Awarded to EDAC Engineering Ltd., Chennai on 18/06/10. BAH-1&2 civil work completed, fabrication work & structural work is in progress. Fly ash silo #1 & #2 completed. 50000 sq.m HDPE lining works completed. Ash dyke cut off trench excavation completed and micro grading of 70,000 sq.m completed. • IDCT: Awarded to EDAC Engineering Ltd., Chennai on 18/06/10. IDCT-1 FRP Structural erection completed, wall cladding sheet, E-motor and gear box erection in progress. IDCT-2 hydraulic test completed. Sluice gate fixing in progress. • FPS: ordering of main hydrant pumps completed. Pipe line supply in progress. • PTP: Clariflocculator-1&2 civil works (58%) completed. 1400 NB GRP inlet pipe erection inside the tank completed for 31 m. 250 NB sludge pit pipe erection completed inside of the tank for approximately 30 m. 100NB GRP pipe laying works completed. • DM Plant: DM storage tank civil foundation completed. Tank shell erection in progress. RO building equipment erection progress. • CW System: Detailed Engineering work in progress. CW, ACW, RW Pumps and Motors arrived and pump erection in progress. • FO System: Shell erection of HFO-1 & 2 tank is completed. Hydraulic test for LDO 1 & 2 is completed. Painting work completed. • SW Yard: Switch yard equipment erection and tower stringing work are in progress. Main transmission tower 1 & 2 erection and stringing completed.		
	Original Estd. Cost	:Rs	312000 Lakhs (600 MW)							
	Latest Est. Cost	:Rs	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.	31103.47 Lakhs (8/17)							
	Total Expenditure(up to 08/17)	: Rs	464378.27 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.								
	• 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: Clearance obtained in May, 2011 from APPCB. • 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: Coal linkage with MCL for 2.032 MTPA, ‘F’ Grade Coal on 11/06/2009. Coal linkage also with M/s Coal & Oil Company LLC on 01/09/2009 for 1.8 MTPA (amended on 15/07/11 for 2.2 MTPA) coal of 4400 Cal/kg GCV. • FSA: Signed for U-3 in 31/08/13. 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 • 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.	Capa- city (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	2018-19	Unit-1 ● Boiler: Boiler erection is started on 27/03/2014. 5 th 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 (2 nd tier) is in progress. EOT crane to be erected Unit-2 ● Boiler: Boiler erection started in 02/15. 2 nd tier erection completed. ● ESP: Piling completed. ● TG: Raft casted on 29/05/15. TG columns scaffolding work is in progress. Condenser erection yet to start. BoP's ● Chimney: Order placed on M/s. R S Pabla in Oct, 10. Shell casting completed. Flue can erection is in progress. ● CHP: Awarded to M/s BSBK. Piling completed. Dewall works in track hopper area completed. ● AHP: Order placement is in progress. ● WTP: Engineering is in progress. ● DM Plant: Engineering is in progress. ● CW System: Engineering is in progress. ● NDCT: Order placed on M/s Paharpur Cooling Towers. ● FPS: Engineering is in progress. ● FOS: Order placed on Delta P.D. Pumps on 14/05/12. Tank fabrication work completed. Switchyard: Engineering is in progress. ATS: Award of contract to be done by ECEPL. ● Presently work held up at site due to financial issues. PPA details are as follows: Having PPA for 100 MW with Kerala. Having LOI for 300 MW but in dispute due to formation of Telangana. For 500 MW PPA with Andhra Pradesh, developer is L1.	
		2	660	10/13	05/14			
	Original Estd. Cost		:Rs 657194.00 lakh (Equity:debt::25:75)					
	Latest Est. Cost		:Rs 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. Kamam, Telagana	12	800	09/17 11/17	12/17	04/18 07/18	08/18	• Boiler: Civil work started on 12/06/15 and erection commenced on 24/01/2016 and is in progress. 69.61% completed. 27864.746/40032 MT completed. HT expected in 09/17. • ESP: 67.61% complete. 7486.957/11073 MT Completed. Air leak test completed on 12.07.17 in A-pass. • Main Plant : 86.5 % civil works completed. • TG Deck: TG civil work started in 23/08/15. 85% completed. TG erection started on 28.02.17. TG Box Up expected in 11/17. • CHP: Civil work awarded to M/s. SNC on 12/02/16. 46% completed. Wagon tippler and stacker cum reclaimers awarded to M/S TRF on 06/07/15 & 12/08/15 respectively. Conveyor system awarded to M/s. BEVCON on 22/08/15: Material received and erection to be start. Crusher, vibrating screens/peddle feeder awarded to M/s Elecon on 23.02.16- Material received Erection to be started. • AHP : Civil work Awarded M/s SNC on 12.02.16. 46% completed. Ash Water Pump House Sump wall final lift & slab @ 4.5 M completed. 60% material supplied. • Cooling Tower: Awarded to M/s. Paharpur cooling towers ltd. on 04/03/16, work started on 12/07/16 and 45% completed. • Chimney: Awarded to M/s. BIL on 16/05/15 and 76% work completed. • PT Plantc: Civil work Awarded to M/s. Punj Lloyd Ltd (PLL) and 33% completed. • DM Plant: 39% completed. • CW System: 50% completed. • Fuel Oil Handling System: 41% completed.	
Original Estd. Cost		: Rs. 554844 lakhs							
Latest Est. Cost									
Expenditure during 2014-15		: Rs. 199.60 lakhs							
Expenditure during 2015-16		: Rs. 54654.50 lakhs							
Expenditure during 2016-17		: Rs. 170297.60 lakhs							
Expenditure during 2017-18		: Rs. 55601.16 lakhs (08/17)							
Total Expenditure(Up to 08/17)		: Rs. 280752.86 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							
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	Unit No.	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Syn. Comm	COD	Syn. Comm	COD		
State Sector									
2	Bhadradi TPP (TSGENCO) Distt. Khammam, Telangana	1	270	01/17 02/17	03/17	11/17 12/17	01/18	- Order placed on BHEL. Zero date commenced on 21/03/15. - Equipment Received at site 57914.5 MT out of 85000.00 MT. - Structural Steel and Reinforcement steel received at site 30863 MT out of 80,000.00 MT. - 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. Civil works are in progress. - The progress of works are hampering due to Heavy rains in Plant area. Movement of equipment and man power is affecting	
		2	270	03/17 04/17	05/17	01/18 02/18	03/18		
		3	270	05/17 06/17	07/17	04/18 05/18	06/18		
		4	270	07/17 08/17	09/17	07/18 08/18	09/18		
	Original Estd. Cost		Rs. 5044 Crs. (EPC cost)						
	Latest Est. Cost		Rs.7290.6 Crs						
	Expenditure during 2015-16		Rs. 1000 Crs.						
	Total Expenditure								
	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		Coal						
	PPA								
	Power Evacuation system								
1. State Government Permission: As directed by Govt. of Telangana State vide letter from Chief Minister Office, i.e. Lr No. 177/PrISCM/2014, Dt-1.12.2014 2 Water Allocation: State Govt. has allotted for drawl of 1.4 TMC of water per year@ 45 cusec from Godavari river vide G.O.Ms.No. 03, dt-07.01.2015 3 Civil Aviation Clearance for Chimney: NOC issued by AAI vide Ref.No. AAI/SR/NOC/RHQ dt:11.12.2015 4 Environmental Clearance from MoE&F& CC, Gol.: EC obtained on Dt: 15.03.2017. 5 State PCB Pollution Clearance for water & Air (Consent for Establishment): Obtained on 30.03.2017 6 Coal linkage from GOI. : MOU between TSGENCO & SCCL for Coal Supply Dtd: 04.04.2016. 8 Power Purchase Agreement Acceptance is obtained from Govt of Telangana for Power Purchase by TS DISCOMS dated:17.06.2015.									
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				
				Synch Comm	COD	Syn. Comm	COD			
State Sector										
1.	Yelahanka Combined Cycle Power plant. Karnataka	1	370 GT	10/17		11/17		• Main Plant: GT erection started on 16-01-17. GT and Generator placed on foundation. • ST: ST/STG deck foundation works completed. • HRSG: 294/309 modules erection completed inside HRSG. All three drums (HP, IP & LP) erected. Pr parts erection/welding/radiography is in progress. 70% completed. • STG building structural erection 72% completed. GTG building 65% completed. BFP equipment & building foundation completed. • BOPs: • Chimney: 23/23 Chimney shells erected up to 58.5-meter height (Full Height). • CT: Civil work is in progress. 45% completed. • CW system: Excavation completed and foundation works are in progress. 45% completed. • PTP: Engineering and tower foundation works in progress. • DM Plant: Roof concreting work is in progress. 75% supplies completed. • Switch Yard: Tower Foundation work is in progress. • FPS: Civil Work is in progress • Air Conditioning & Ventilation: Supplies in progress. (20% completed) • Control & Instrumentation: Supplies in progress. (60% completed) • LT Switch gears: Supplies in progress. (60% completed) • Cables(Power/Control): Supplies in progress. (75% completed) • Generator Transformers: GT/ST transformer received and erection is under progress. • Unit Transformers: Supplies in progress. Foundation works in progress.		
	Original Estd. Cost	:Rs	1571.18 Crs							
	Latest Est. Cost	: Rs.	1571.18 Crs							
	Expenditure during 2016-17	: Rs	215.668 Crs							
	Expenditure during 2017-18	: Rs	243.422 Crs							
	Total Expenditure	:Rs	459.09 Crs (up to 07/17)							
	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	:	KPTCL 220 KV Substation is ready for power evacuation. The Scheme is approved and payment of Rs.17.89 Crores is made to KPTCL for inviting Tenders.							
	• 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		----								

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 01/18	03/18	09/18 09/18	● 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. ● 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	
		2	660	03/18 03/18	05/18	02/19 03/19		
	Original Estd. Cost		: Rs. 980000 Lakh (Includes cost of FGD, ECHS and IDC)					
	Latest Est. Cost							
	Total Expenditure (up to 07/17)		: Rs. 46485 lakhs					
	Approval date:		: 12/12/2005					
	Zero date:							
	Financial closure							
	Main Plant Order		: Order placed on M/s. BHEL (EPC- Rs. 7688 Crores) on 27/09/14.					
	BOP Package							
	Type of fuel		: COAL. MoU 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							
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									
2	Uppur SCTPP TANGEDCO at Distt. Ramnad, Tamil Nadu	1	800	02/19 03/19	04/19	NA	NA	• 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 Materials – 290 tonnes ; Structural and reinforcement materials – 1000 tonnes received at site. Boiler erection started on 13.01.17.	
		2	800						
	Original Estimated Cost		: Rs. 12778 Crs. (BTG cost –Rs. 5580 Crs.)						
	Latest Estimated Cost		: NA						
	Expenditure during 2015-16		:Rs. 775 Lakhs						
	Expenditure during 2016-17		:Rs. 226 Lakhs						
	Total Expenditure(up to 05/17)		:Rs. 1001 Lakhs						
	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		: Yet to be awarded						
	Type of fuel		: COAL						
	PPA								
	Power Evacuation system								
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									
3	North Chennai TPP St-III by TANGEDCO (Distt. Thiruvallur), Tamil Nadu	1	800	02/19 03/19	04/19	06/19 07/19	08/19	- Letter of Acceptance for Main Plant Order (EPC) issued to M/s BHEL on 29/01/16 and BHEL in turn awarded the main plant civil and structural works to M/s Powermech on 02/01/17 - About 7735 MT of Reinforcement Steel, 6627 MT of Boiler materials, 7623MT of ESP materials, 7254 MT of Power House and 173MT of Earthing materials were received at site. - TG Layout drawing and Boiler GA submitted by BHEL have been approved under category-2 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. A separate tender will be floated for FGD package. Draft tender specification received from consultant - 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. - Soil Investigation completed. - Survey work in compound wall, coal conveyer corridor and sea water intake pipe line route completed. Construction of compound wall is in progress. 512 meters completed. 3892MT of Reinforced steel received at site. - Construction of Compound wall under progress. - Foundation work in Central Stores and Clariflocculator are in progress. - Construction power energised. Construction water made available	
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 10430.73 Lakhs									
Total Expenditure (up to 08/17) : Rs 34465.56 Lakhs									
Zero date: 29/01/2016									
Main Plant Order : 29/01/16 (EPC) on M/s. BHEL- Rs.2759 Crores..									
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 awaited. - 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 .									
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	08/18 09/18	-	• Boiler (M/s Lanco): Civil work commenced on 16/02/15. Boiler erection started on 01/02/16 and HT expected by 09/17. • TG & Condenser: Civil work commenced on 18/06/15. Condenser erection started on 20/07/16 & TG erection started on 11/08/16. • 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 Estd. Cost	:Rs 495600			Lakh				
	Latest Est. Cost (03/2016)	:Rs 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				
	Total Expenditure (up to 11/2016)	:Rs. 32915			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 asper lr dt 22/12/16). LANCO in turn placed order on Dong Fang Electric Corporation., China on 18/02/15. • MOE&F Clearances obtained on 18/09/2014. • SPCB clearance obtained on 18/02/13. • Civil Aviation: clearance obtained on 16/05/2008 • Water allocation: Sea water is available near the project. Cooling water consumption to be drawn from Sea is 1,33,896 m3/day.								
	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		
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	12/18 03/19	04/19	• 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. M/s MEIL has already Mobilized at site and have created the required construction infrastructure. Boiler civil work started on 15/12/15 & erection started on 15/06/016. • TG civil work started On 01/06/016. • 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 in progress. • AHP: Awarded to M/s Macwalber Beckay and engineering & design activities started. Civil foundation work is in 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. Civil foundation works nearing completion and concreting works started. • CW System: CW packages awarded to M/s Flowserve. Civil works are in progress.	
	Original Estd. Cost	: Rs. 351400 Lakh							
	Latest Est. Cost	: Rs. 351400 Lakh							
	Expenditure during 2013-14	: Rs.7231 Lakh							
	Expenditure during 2014-15	: Rs.1513 Lakh							
	Expenditure during 2015-16	: Rs.39202 Lakh							
	Expenditure during 2016-17	: Rs.1195.8 Lakh							
	Total Expenditure(up to 09/ 2016)	:Rs.49141.8 Lakh							
	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. • Civil Aviation: Clearances obtained and valid up to 18/12/16.								
Critical issues		Inter-connection & Transmission facilities are by TANGEDCO which is yet to be awarded.							
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								
6	Tuticorin TPP in Tamil Nadu (Ind. Barath Power Limited)	1	660	03/12 05/12	05/12	06/18 10/18	12/18	• 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. • 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 Estd. Cost	: Rs.359500 Lakh						
	Latest Est. Cost	: 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								
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 -742237 (BSPGCL)	8	250	02/14 05/14		09/17 10/17	12/17	Unit-8 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. Insulation and cladding of boiler and flue gas duct is under progress. HT done on 21/08/14. Non drainable Hydro Test completed. Boiler Light Up with LDO on 18th June 2017, Boiler Alkali & Acid cleaning completed. 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 (Final box up of LPT outer casing is pending). TG oil flushing completed in 12/16. Erection of condenser, BFP, CEP, Heaters and deaerator completed. 100% Erection testing of Lube oil pumps completed. M/c Baring Gear trail taken. Generator ATT performed. Unit-9 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 21st September 2014. Non Drainable Hydro Test completed on 10th Aug.17. Boiler stage I&II hydro test completed. Non drainable Hydro test completed. Boiler light up with LDO. Boiler Alkali & Acid cleaning preparation under progress. ESP: Mechanical erection completed. Other works are in progress. TG: Condenser & TG erection started on 26/08/14. Final box up of LPT outer casing is pending. Condenser assembly and positioning of water chamber, side plate and bottom plate completed. Neck joint of condenser is to be completed. Heaters erection completed. TG oil flushing is under progress. 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 is in progress. Trail run is also under progress. CHP: The work of WT is under progress as the excavation completed to a depth of -17.9 M. WT civil construction works 60% completed. TP-I civil construction work 65% completed.. AHP: Order for civil work placed on M/s McNally Bharat. Vacuum pump house equipment erection under progress. ASPH building is ready and equipment erection yet to be done. Erection of ash silo under progress. Land for ash dyke is in possession and erection of ash pipe rack work is in progress. PT Plant: PT plant 98.3% completed. DM plant: 100% fabrication & 98 % erection completed. Equipment commissioning one stream out of 3 completed. FOS: HFO & LDO tanks erection completed. LDO & HFO skids placed in FOPH. Internal piping completed FOS is ready for use. Switchyard: 220 kv switchyard charged on 3rd March 2016. Station transformer 8 & 9 no. one charged. 132Kv switchyard piling works started.	
	9	250	04/14 07/14		02/18 03/18	03/18			
	Original Estd. Cost	Rs. 3666.06 Cr.							
	Latest Est. Cost	Rs. 5308.07 Cr							
	Expenditure during 2008-09	Rs 25.00 lakhs							
	Expenditure during 2009-10	Rs 00.00 lakhs							
	Expenditure during 2010-11	Rs 12500.00 lakhs							
	Expenditure during 2011-12	Rs 25958.00 lakhs							
	Expenditure during 2012-13	Rs 67706.00 lakhs							
	Expenditure during 2013-14	Rs 145630.00 lakhs							
	Expenditure during 2014-15	Rs 77058.00 lakhs							
	Expenditure during 2015-16	Rs 87030.00 lakhs							
	Expenditure during 2016-17	Rs 64041.00 lakhs							
	Total Expenditure	Rs 479951 Lakhs (up to 03/17)							
	Approval date:								
	Zero date:	11.03.2011							
	Financial closure	Achieved in 2015 with PFC							
Main Plant Order	The order for EPC was awarded to M/s BHEL on nomination basis on 11.03.2011								
BOP Package	Order for BOP's placed on • M/s Mc Nally Bharat Engg. Co. Ltd. for CHP on 15.05.12. • M/s Mc Nally Bharat Engg. Co. Ltd. for AHP on 15.05.12. • M/s Gannon Dunkerley & Co. Ltd. for Chimney on 19.04.12 • M/s Paharpur Cooling tower for CT on 10.08.13.								
Type of fuel	Coal								
PPA	Dt 31.12.2010								
Power Evacuation system	• LILO at Barauni of Begusarai-Biharsarif 220KV D/C done. Power evacuation system expected to be ready by Dec-2015.								
• Land: Land acquired. except land required for ash dyke and intake water system • Water Allocation: Approval for 60 cusec water from River Ganga has been obtained from Irrigation Department, Govt. of Bihar. Approval for 45 cusec water from River Ganga has also been received from Central Water Commission. • MOE&F Clearance: MoE&F clearance obtained on 08.05.14. • Civil Aviation Clearance: Aviation clearance obtained from AAI on 03-08-09. • FGD Plant: The feasibility is being discussed with EPC Contractor M/s. BHEL. Presently FGD implementation is under planning stage.									
Critical issues		1. Construction of Ash dyke, Railway siding, Readiness of CHP, Intake Water System, DM & PT Plant 2. Boiler#8 ready for light-up with one pass, for completion of 2 nd pass shortage of spares is major hurdle.							
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	1	660	08/14		Uncertain	----	Unit-1: Boiler: Civil foundation of boiler, ESP & Chimney completed. Civil foundation of PHB & Mill-Bunker building under progress. 2730 MT Structural Steel in PHB erected. Fabrication of 9000MT Structural steel completed. Unit-2: Boiler: Boiler foundation work was started. Unit-3: Civil works yet to start. Unit-4: Civil works yet to start Presently no work is in progress at site.	
		2	660	12/14		Uncertain	----		
		3	660	04/15		Uncertain	----		
		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	1	270	03/12 04/12	05/12	Uncertain	Phase-I Unit-1: Boiler: Erection started on 05/10/10. Boiler drum lifted on 31/03/11. HT done on 28/12/11. Erection of 3/6 bunker completed. ESP: ESP is ready TG: condenser erection started on 25/05/11, Turbine erection started 15/6/11. TG 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.		
		2	270	04/12 05/12	06/12	Uncertain			
		3	270	09/12 10/12	10/12	Uncertain			
		4	270	12/12 01/13	01/13	Uncertain			
	Original Estd. Cost		Ph.-I: Rs. 2900.00 Cr, Ph.-II: Rs.3182.00 Cr						
	Latest Est. Cost								
	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	Ph-I 1 2 Ph-II 3	600 600 600	05/12 07/12 08/12 09/12 <u>10/15 12/15</u>	07/12 10/12 12/15	Uncertain Uncertain 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	
Original Estd. Cost		: Rs.570000 Lakh			Rs. 250000 Lakh				
Latest Est. Cost									
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. 27198 Lakh		Rs. ---					
Total Expenditure		Ph-I: Rs.4757.92 Cr. (till 06/17) 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 II received vide MOEF letter dated 14.11.2013. - Civil Aviation Clearance: NOC for height of chimney is valid till 21.07.2020 - SPCB: Clearance obtained from JSPCB is valid till 31.03.2016 - Coal: Due non availability of MOEF clearance for the Chakla & Ashok Karkatta coal block allotted to this project it is proposed to import coal from Indonesia & Australia for the time being. - Water Source of water is from Damodar and Amanat rivers which are 20 &30 KMs from the site.							
Critical issues		Mega Power Project status is yet being issued from MoP due to which 97% imported main plant equipment are lying at site/ Port. Tapering coal linkage.							
Reasons for Delay		Reasons for Delay:- Delay in MoE&F Clearance` (14.11.2013 for U2 & U3), Change of design in water cooled condenser to air cooled condenser due to water availability issue, Law & order issue, delay in grant of Mega power project status, cancellation of coal block & non-availability of tapering / long term coal linkage etc.							

BROAD STATUS OF THERMAL POWER PROJECTS IN ODISHA

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch Comm	COD	Syn. Comm	COD		
State Sector									
1.	Ib Valley TPP Village : Banaharpalli, Dist: Jharsaguda, Odisha (OPGC)	3	660	08/17 09/17		07/18 08/18	09/18	Unit-3: • Boiler: Erection started on 20.1.2015. Boiler structural erection completed (12817 MT). 25381 Nos. of Pressure parts joints completed. ESP 3 and ESP 4 erection in progress. Foundation for Bunker structure, ID fan and Mills completed and erection in progress. HT expected in 12/17. • ESP: 6615 MT Structural erection completed. All pass erection in progress. ESP 3 and ESP 4 erection in progress. • TG: Deck casting completed. TG erection started on 30.07.2016. Alignment for HP and IP module completed. Generator rotor insertion completed. Exciter placement completed. LP turbine erection is in progress. Auxiliary Equipment- Bunker Structure, APH, ID fan, Mills, Duct, ACW piping, LP piping, Critical piping, TDBFP, Condenser erection, Flash tanks, Electrical Panel erection, SPBD, MDBFP 11 & 3.3 KV switchgear and other major auxiliaries erection in progress. TG box up expected in 10/17. Unit-4: • Boiler: erection started on 29.05.2015. Boiler structural erection completed (12616 MT). 25364 Nos. of Pressure welding joints completed. HT expected in 2/18. • ESP: 7482 MT Structural erection completed (Pass A, B & C in progress). • TG: TG erection started on 15.01.17. HPT aligned, IP assembly in progress. Generator stator placed in position. PHB structural erection (7524 MT) in progress. Flooring is in progress. EOT cranes commissioned. TG box up expected in 01/18. • FGD Plant: Management approval for award of consultant for tender specification in progress. BoPs: • Chimney: Shell concreting completed up to 269m. Flue can erection for U-3 completed and that for U-4 is in progress. Platform erection at various level is in progress. • CHP: Track Hopper, MCC Room and Stacker reclaiming rail foundation, Coal Stock Pile in progress. ERH, Crusher, Tunnel, TPS civil work completed. Structure Work Structural erection work in progress at TPS & Galleries. Mechanical and technological structure erection in progress. Stacker Reclaimer, Crusher, Peddle Feeder, ERH erection completed. Electrical Major erection for MCC panel, Transformer, Battery erection completed at CHP MCC Building Cable laying in progress. • AHP: Civil work surge Hopper, Silos, Ash Route Pipe, Chemical House, Clarifier, Ash Compressor House, Pipe rack civil work in progress. Ash water & Ash Slurry Pump House major civil works completed. Mechanical Ash Slurry and water Pumps erection in progress. Electrical Panel erection completed at Ash water pump house MCC. • PT Plant: Civil work completed for Clarifier, chemical House, Clarified water pump, Clarified water reservoir compartment-1. Civil work in progress for clarified water reservoir compartment-2. Mechanical : Major erection work completed, piping work in progress. RW piping laying and RW pump erection completed. Electrical: MCC panel erection in progress at clarifier water pump house. • DM Plant: Civil work completed. Mechanical and Electrical erection is in progress. Testing of MCC panel in progress. • CW System: Civil works: All civil work completed. Mechanical Work: CW Chlorination work in progress. CW structure, CW EOT, CW Pump, CW Pipe Completed. • F P System Pump House: All civil, Mechanical and Electrical work completed. Fire hydrant and Spray pipe laying work in progress.. • FO System: Major civil and mechanical work completed for HFO system, pipe erection continue for LDO and HFO line on pipe rack • CT: IDCT 3- Major Civil, Mechanical and Electrical work completed. IDCT 4 – Civil work completed, mechanical erection in progress. Control Room: All major civil and is completed. Flue can erection for unit 4 in progress. • Switchyard: Unit#3 and Unit#4. All erection work and major civil work completed. Testing in progress	
		4	660	12/17 01/18		09/18 10/18	11/18		
	Original Estd. Cost		:Rs 11965.00 Cr.						
	Latest Est. Cost		: Rs. 11965.00 Cr						
	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 08/17)		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 361 acre of land for ash pond which is in advance stage of possession. • 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 • CIVIL Aviation: Clearance obtained from AAI on 15.03.2010						
	Critical issues		Uncertainty of fuel (coal) supply						
Reasons for Delay		Acquisition of land for rail track and its construction, Unavailability of startup power due to delay in construction of transmission line							

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch Comm	COD	Syn. Comm	COD		
Private Sector									
2.	Ind Barath TPP M/s Ind-Barath Energy (Utkal) Ltd. (Distt-Jharsuguda) , Odisha	1	350	07/11 09/11	10/11	18.06.15 25.02.16	20.07.16	Unit-1: - Boiler: Boiler erection started in 01/11, Erection of feeders & tripper, all bunkers & Liners erection and mills completed. SBO completed on 15.12.14. Drum lifted on 30.5.11, HT completed on 24.05.12. BLU completed on 9.01.15. - ESP: work completed - TG: TG erection commenced in 5/12. TG boxed up on 23.05.14, Oil flushing completed on 10.10.14. Unit synchronized on 18.06.15, Full load achieved on 25.02.16. COD declared on 20.07.2016. Unit-2: - Boiler: Boiler erection started in 05/11, Drum lifted on 26.12.11. HT(D) completed on 20.05.14. BLU expected in 10/17 after changing the burners. - 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 expected in 10/17. 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 09/17 and F/A system completion expected in 10/17. - 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	10/17 11/17	12/17		
	Original Estd. Cost		:Rs 3150.00 Cr.						
	Latest Est. Cost		:Rs. 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.) , Odisha	1	660	02/13 04/13	05/13	06/18 07/18	08//18	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. Ducting & APH are in progress. ESP: 58% structural erection completed. All hoppers erected. Pass-A collecting electrode erection completed and Pass B electrode erection is 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. Condenser erection is in progress. Unit-2 Boiler: Erection started in 9/11. All ceiling girders erected. Handrails and Platforms work completed at various levels. Burner erection is in progress. Preparatory work for Pressure part erection is in progress. 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 and wall reinforcement in progress. MDBFP#2 foundation completed. BoPs: • Chimney: 252/270m shell construction completed. Flue can fabrication is 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 is in progress. • CHP: Track hopper raft and both side walls completed. Crusher house foundation work completed. Stacker reclaimers footing raft completed. Column and beams casting works are in progress. JT's 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 and that of DM tank-2 is in progress. • 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. Structural erection in switchyard is in progress. 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	10/18 01/19	02/19		
	Original Estd. Cost	:Rs 6930.00 Cr.							
	Latest Est. Cost	: 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) , Odisha	1	525	10/12 12/12	01/13	17-18*	----	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 is 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	17-18*	----			
	Original Estd. Cost		:Rs 5093.00 Cr.							
	Latest Est. Cost		: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., Odisha	1	350	10/11 12/11	01/13	17-18*	11//16	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 Estd. Cost		:Rs 4990.00 Cr.						
	Latest Est. Cost		: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.	India Power (Haldia) TPP India Power Corporation (Haldia) Ltd., PO-Shibramnagar, Haldia, Dist.- East Medinipur-721635, West Bengal	1	150	10/15 11/15	11/15	04/17(A) 06/17(A)	08/17	Unit-1 • Boiler: Boiler erection started on 25.03.14. Drum lifted on 04.12.14. HT(D) 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. Full load achieved on 07.06.2017. Unit-2 • Boiler: Boiler erection started on 25.06.14, Drum lifted in 23.02.15. 1891/2526 MT structural erection completed. HT(D) done on 16.09.16. Mills erection is in progress. Erection of ID/FD/PA is in progress. BLU expected shortly. • ESP: 2016/2158 MT structural erection completed. Hopper erection is in progress. • TG: Deck casting completed.TG erection started on 05/05/16. TG box up expected shortly. 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 started. HT expected in 10/17. • ESP: Foundation completed. 567/2158 MT structural erection completed. Electrodes, Transformer Rectifiers are to be erected • TG: TG deck raft casting completed. Staging for deck cast in progress. • BoPs: • Chimney: Civil work for chimney completed. Flue can erection for U#1, 2 &3 completed. Platform erection completed. Structural staircase erection is under progress. • CT: CT-1 completed and ready for use. CT#2: Erection of FRP structural, fill pack and distribution pipe assembly completed. CT#3: Basin work is in progress. • CW System: CWPB building completed. Erection of 2/4 pump completed and pocket grouting of remaining pump completed for unit#1. Laying of CW pipe completed for all the three units. Forebay and cold water channels completed. • CHP: 2033MT/2500MT Structural erection completed. Crusher house structural erection 461/556MT completed. Erection of SCR is in progress. All TPs and coal gallery are ready. MCC room completed. Civil work of Track Hopper in progress. • AHP: Fluidizing pad erection, roof slab and staircase for Ash Silo#1&2 completed. Mechanical Erection of dewatering bin#1&2 completed. ASPH & AWPB civil work completed and equipment erection under progress. BAH structural erection completed for unit#1. RCC work of ash water recovery pump house completed. Fly Ash extraction towers are ready--Laying of dry ash pipe from ESP to silo is in progress. • PT Plant: Raw water reservoir completed. Pipe line from HDA treatment plant to the power plant completed. Water charged. 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: Erection of 2 nos. LDO tank and oil pumps completed and ready for use. • Switch yard: Structural erection of 220KV equipment in switchyard is completed. Testing and commissioning is yet to be conducted. • Fire Protection System: Fire station is ready. Emulsifiers for GTs and STs installed for unit#1.Hydrant system for unit1 erection & commissioning done and is under operation.	
		2	150	01/16 2/16	02/16	10/17 12/17	01/18		
		3	150	05/16 05/16	05/16	03/18 04/18	05/18		
	Original Estd. Cost	Rs 2656.00 Cr.							
	Latest Est. Cost	Rs. 3307.00 Cr							
	Expenditure up to 2010-11	Rs 102 lakh							
	Expenditure during 2013-14	Rs 111630 lakh							
	Expenditure during 2014-15	Rs 46764 lakh							
	Expenditure during 2015-16	Rs 86973 lakh							
	Expenditure during 2016-17	Rs 761.30 lakh							
	Expenditure during 2017-18	Rs 1273 lakh							
	Total Expenditure	Rs 323790 lakhs (up to 06/17)							
	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	:-							
	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.								
Critical issues		1. Completion of mill and bunker bay 2. Readiness of AHP 3. Readiness of Transmission Line for evacuation of power.							
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 NAMRUP REPLACEMENT POWER PROJECT IN ASSAM
(STATE SECTOR)

Sl. No.	PROJECT DETAILS	Cap (MW)	Commissioning Schedule				Broad Status	Reason for Delay
			Original		Actual(A) / As now Expected			
			Syn. comm	COD	Syn. comm	COD		
I	COMMISSIONED PROJECTS							
	NIL							
II	PROJECT UNDER CONSTRUCTION							
	State Sector							
1.	Namrup Replacement Power Project Distt:Dibrugarh (Assam) APGCL	98.40					• 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 June 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&GTG: GT put on barring gear on 01.03.2016 and cranking completed on 05.08.16.FSNL achieved on 3.1.17. GT synchronized on 03.01.17 and Commissioned on 11.01.17(open cycle). HRSG: HRSG work started in 01/12 and insulation work nearing completion. LP/IP/HP Hydro test completed. BFP no load test completed. Chemical cleaning is in progress. ST: TG erection started in October'16. STG Generator placed on foundation. Oil Flushing in STG in progress. ST box up is in progress. ST synchronization is expected in 11/17 and commissioning is expected in 12/17 (Combined cycle).	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. Readiness of GBC <u>Critical Issue</u> - Readiness of fire fighting system.
GT	62.25	08/11 09/11	01/12	1/17(A) 1/17(A)				
ST	36.15	11/11 01/12	01/12	11/17 12/17				
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 (06/17)		Rs 2450 Lakhs						
Cumulative exp. up to(06/17)		Rs 53421 Lakhs						
Date of Main Plant Order (LOI)		: 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.						

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	HCSO	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