



**भारत सरकार
विद्युत मंत्रालय**

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

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

May - 2017



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

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

FOREWORD

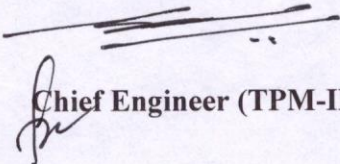
As per clause 73(f) of Electricity Act 2003, Central Electricity Authority is to “promote and assist in the timely completion of schemes and projects”. The Thermal Project Monitoring (TPM) Divisions of CEA are entrusted with the responsibility of monitoring the progress of construction/erection activities 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-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 covers up-to-date information in respect of 12th plan and beyond thermal power projects under execution in the country. The report gives the details of the milestones achieved as on date, along with the name, capacity, location, implementing agency, commissioning schedule, type of fuel, construction agency, estimated cost besides highlighting critical issues requiring immediate attention of concerned authorities in the implementation of thermal power projects in the country.

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

We welcome feedback for further improvement in the Broad Status Report.

Place: New Delhi
Dated: 3rd July, 2017


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. Total 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 Target / Achievement during 12th Plan:

(in MW)

Year	Thermal capacity addition during 12th Plan (MW)				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		126.81%

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

SECTOR	CAPACITY (MW)
CENTRAL	21490
STATE	18086.15
PRIVATE	26445
TOTAL	66021.15

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

As on 31st May 2017

Thermal capacity addition achieved during 2017-18 (MW)		
Sector	Target (MW)	Achievement(MW) Total
Central	4880	910
State	3546.15	660
Private	2940	2070
Total	11366.15	3640

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)	Com Cap (MW)	Comm. Date	
								Envisage d 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)
	Thamminapat nam TPP-I	Meenakshi Energy Pvt. Ltd.	U-1	Aug-09	Chinese	150	150	08/12	09.09.12(A)
	Thamminapat nam 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)	Com Cap (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)	Commnd. Cap. (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)	Com Cap (MW)	Comm. Date	State
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)	Commnd. Cap. (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:ISGEC 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										
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	Muzaffarpur	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 CAPACITY 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
7	WB	India Power TPP (Haldia),	Indian Energy Ltd (Haldia)	CHINESE	1	150	Apr-17		
		TOTAL PRIVATE SECTOR				2940			1530.00
		TOTAL THERMAL CAPACITY				11366			3100.00
2.6 THERMAL CAPACITY ADDITION NOT INCLUDED IN THE TARGET FOR THE YEAR 2017-18									
PRIVATE SECTOR									
1	Maharashtra	Nasik TPP Ph-I	RattanIndia Nasik Power Ltd	BHEL	4	270	5/17	19.05.17	270
2.	Maharashtra	Nasik TPP Ph-I	RattanIndia Nasik Power Ltd	BHEL	5	270	9/17	30.05.17	270
		TOTAL PRIVATE SECTOR							540

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.	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 rewarded 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. Supply of equipment by BHEL. Agitation by villagers. Patches of land could not be acquired because of unwillingness of people to accept compensation. Financial crunch faced by CHP vendor(Techpro).
Bihar	Nabi Nagar TPP	NTPC	BHEL	U-3	250	
Bihar	Nabi Nagar TPP	NTPC	BHEL	U-4	250	
Bihar	Barh STPP-I	NTPC	Others	U-1	660	Delay due to contractual dispute of NTPC with Power machine & Technopromexport, Russia. *Orig. Sch. was in 2009-10 & 2010-11. Delay in supply of boiler material and ordering of Bought out Items(BOIs)by M/s TPE due to financial constraint. M/s. TPE stopped work from 10/13. M/s TPE contract was terminated on 14.01.2015 by NTPC. Delay in supply of material and slow progress by M/s. Power Machine.
Bihar	Barh STPP-I	NTPC	Others	U-2	660	
Bihar	Barh STPP-I	NTPC	Others	U-3	660	
		Total Central Sector			2980	
	<u>STATE SECTOR</u>					
AP	Rayalaseema St-IV	AP Genco	BHEL	U-6	600	Delay in start & completion of civil works and land acquisition. Delay in BoP works.
Assam	Namrup CCGT	APGCL	BHEL	ST	36.15	Delay in start and slow progress of of civil works, Termination of civil contractor. Poor soil conditions and heavy monsoon. Delay in supply of material by BHEL & shortage of skilled manpower. Termination of NBPL order. Delay in rearward of civil and Exectrical 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.	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. 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 transimission line for start up power. Commissioning problems such as change of firing guns of boiler and change in bypass valve.
Orissa	KVK Neelanchal TPP	KVK Neelanchal	Chinese	U-1	350	
TN	Tuticorin TPP-II(Ind barath)	IBPIL	Chinese	U-1	660	Late start and slow progress of civil works and delay in supply of boiler structural material at site.
UP	Prayagraj (Bara) TPP	Prayagraj power Gen. Co. Ltd(J.P.Power Ventures)	BHEL	U-3	660	Delay in BTG supply, Raw water pipe line readiness and transmission line readiness for start up power. Progress of work at site delayed due to financial problems. Land for railway siding and power evacuation.
		Total Private Sector			12245	
	Total Slippage from 12th Plan Target as on 31.03.17				15861.15	

5.0 THERMAL POWER PROJECTS UNDER CONSTRUCTION IN THE COUNTRY

S.No.	State	Project Name / Impl. Agency/ EPC or BTG	LOA Date/	Unit No	Cap. (MW)	Org. Comm. Sched.	Ant. Comm. Sched.	Original / Latest cost (in Cr.)	Exp. In crores.	Till Date
		CENTRAL SECTOR								
1	Assam	Bongaigaon TPP/ NTPC/ BHEL	Feb-08	U-3	250	Sep-11	Jul-17	4375.35/ 6749.18	6439	Feb-17
2	Bihar	Barh STPP-I /NTPC/Others	Mar-05	U-1	660	May-17 *	May-17	8693/ 15095.67	12850	Feb-17
				U-2	660	Nov-17 *	Nov-17			
				U-3	660	May-18 *	May-18			
3	Bihar	Nabi Nagar TPP / JV of NTPC & Rlys/BHEL	Jan-08	U-3	250	Aug-13	Jul-17	5352.51/ 7998	6266.92	Jan-17
				U-4	250	Nov-13	Oct-17			
4	Bihar	New Nabi Nagar TPP /JV of NTPC & BSPGCL TG-Alstom & Bharat Forge, SG-BHEL	Jan-13	U-1	660	Jan-17	Jun-17	13624.02 / 15131.67	7727	Nov-16
				U-2	660	Jul-17	Dec-17			
				U-3	660	Jan-18	Jun-18			
5	Chhatisgarh	Lara TPP/NTPC / SG-Doosan TG-BGR Hitachi	Dec-12	U-1	800	Dec-16	Sep-17	11846/ 11846	7757	Feb-17
				U-2	800	Jun-17	Dec-17			
6	Jharkhand	North Karanpura TPP/ NTPC / BHEL	Feb-14	U-1	660	Feb-18	Feb-19	14367/ 14367	4088	Feb-17
				U-2	660	Aug-18	Aug-19			
				U-3	660	Feb-19	Feb-20			
7	Karnataka	Kudgi STPP Ph-II/ NTPC/ SG -Doosan TG-Toshiba	Feb-12	U-3	800	Jan-17	Aug-17	15166.19/ 15166.19	12948	Feb-17
8	Maharashtra	Solapur STPP/ NTPC/ SG-BGR & Hitachi TG-Alstom & Bharat Forge	Apr-12	U-2	660	Nov-16	Aug-17	9395.18/ 9395.18	7447	Feb-17
9	MP	Gadarwara TPP/ NTPC /BTG-BHEL	Mar-13	U-1	800	Mar-17	Jun-17	11638.55/ 11638.55	6975	Feb-17
				U-2	800	Sep-17	Dec-17			
10	MP	Khargone TPP/ NTPC/ EPC - L&T	Mar-15	U-1	660	Mar-19	Mar-19	9870.51/ 11148.86	2334	Feb-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	Feb-18	12532.44/ 12532.44	5017	Feb-17
				U-2	800	Jun-18	Aug-18			
12	Telangana	Telangana Ph- I / NTPC/SG- BHEL TG- Alstom & Bharatforge	Feb-16	U-1	800	Jan-20	Jan-20	10599/ 11811	605	Feb-17
				U-2	800	Jul-20	Jul-20			
13	TN	Neyveli New TPP/ NLC/BHEL	Dec-13	U-1	500	Jun-15	Jul-18	5907.11/ 5907.11	3746.72	Mar-17
				U-2	500	Dec-15	Aug-18			
14	UP	Meja STPP/ JV of NTPC & UPRVUNL/ SG-BGR TG-Toshiba	Apr-12	U-1	660	Jun-16	Jun-17	10821/ 10821	5793.63	Oct-16
				U-2	660	Dec-16	Oct-17			
15	UP	Ghatampur TPP/ JV of NLC & UPRVUNL/ MHPS Boiler Pvt. Ltd.	Aug-16	U-1	660	Feb-21	Nov-20	17237.80/ 17237.80	927.7	Mar-17
				U-2	660	Aug-21	May-21			
				U-3	660	Feb-22	Sep-21			
16	UP	Tanda TPP/ NTPC/ SG: L&T/ TG: Alstom	Sep-14	U-1	660	Sep-18	Sep-18	9188.98/ 9188.98	2263	Feb-17
				U-2	660	Mar-19	Mar-19			
	TOTAL CENTRAL SECTOR				21490					

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 Cr.)	Exp. In crores.	Till Date
	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	437	Mar-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	Aug-17	3028.86 / 3781.86	3437.57	Feb-17
4	Assam	Namrup CCGT / APGCL / BHEL	39845	ST	36.15	40909	43009	411 / 693.73	487.3	42705
5	Bihar	Barauni TPS Extn./ BSEB/ EPC - BHEL	Mar-11	U-8	250	May-14	Oct-17	3666.06 / 5308.07	4799.51	Mar-17
				U-9	250	Jul-14	Dec-17			
6	Gujarat	Wanakbori TPS Extn. / GSECL SG-Alstom TG-Siemens	Oct-14	U-8	800	Oct-18	Oct-18	3536.51 / 3536.51	1465.51	Dec-16
7	Karnataka	Yelahanka CCPP BY KPCL	Nov-15	GT+ST	370	Mar-17	Feb-18	1571.18 / 1571.18	226.08	Mar-17
8	MP	Shri Singhaji TPP St-II / MPGENCO EPC-L&T	Sep-14	U-3	660	Jul-18	Jul-18	6500 / 6500	2450.24	Feb-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	4113.4	Feb-17
				U-4	660	Jan-18	Oct-18			
10	Rajasthan	Chhabra TPP Extn./RRVUNL / L&T-MHI	Mar-13	U-6	660	Jun-18	Dec-18	7920/ 7920	5140.75	Jul-16
11	Rajasthan	Suratgarh SCTPP/ RRVUNL / BHEL	May-13	U-7	660	Sep-16	Jun-17	7920 / 7920	6192.37	Feb-17
				U-8	660	Dec-16	Aug-17			
12	Telangana	Kothagudem TPS St-VII/ TSGENCO BTG- BHEL	Jan-15	U-1	800	Nov-17	Jul-18	5548.44 /5548.44	351.74	Jan-16
13	Telangana	Bhadradri TPP / TSGENCO/ BHEL	Mar-15	U-1	270	Feb-17	Dec-17	5044 / 5044	Sep-02	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	453.71	Mar-16
15	TN	Ennore SCTPP / TANGEDCO/ BHEL	Sep-14	U-1	660	Jan-18	Sep-18	9800 / 9800	448.6	Oct-16
				U-2	660	Mar-18	Mar-19			
16	TN	North Chennai TPP St-III TANGEDCO / BHEL	Jan-16	U-1	800	Jul-19	Mar-19	6376 / 6376	70.00	Mar-17
17	TN	Uppur Super Critical TPP TANGEDCO /BHEL	Feb-16	U-1	800	NA	NA	12778 / 12778	10.01	Feb-17
				U-2	800	NA	NA			

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 Cr.)	Exp. In crores.	Till Date
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		Nov-28	7	Jan-17
				U-2	660	Apr-21				
20	UP	Obra-C STPP/ UPRVUNL/ Doosan	Dec-16	U-1	660	Dec-20		10416 / 10416	8.5	Jan-17
				U-2	660	Apr-21				
	Total State Sector				18086.2					
		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)	4418	Apr-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	May-17	16190 / 22874.48	17041.1	Sep-16
				U-4	600	Apr-13	Sep-17			
				U-5	600	Aug-13	Mar-18			
				U-6	600	Dec-13	Jun-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	1800 / 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	Jun-17	6886 / 10815.24	8629	Aug-16
				U-4	660	Mar-13	Nov-17			
7	Chhattisgarh	Singhitarai TPP / Athena Chhattisgarh Power Ltd. BTG -DECL	Dec-09	U-1	600	Jun-14	Mar-18	6200 / 8443.79	6296.66	Feb-17
				U-2	600	Sep-14	Sep-18			
8	Chhattisgarh	Uchpinda TPP/ RKM Powergen. Pvt. Ltd. / SG-China Western TG-Habin China	Jul-07	U-3	360	Feb-13	Sep-17	6653.61 / 11784.51	10671.5	Jul-16
				U-4	360	Jul-13	Dec-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	4718.59	Dec-16
				U-2	600	Sep-12	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 Cr.)	Exp. In crores.	Till Date
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*			
16	Maharashtra	Lanco Vidarbha TPP / LVP Pvt. Ltd. EPC-LANCO	Nov-09	U-1	660	Jan-14	Jun-18	6936 / 10433	5215	Jan-17
				U-2	660	May-14	Dec-18			
				U-5	270	Oct-12	Aug-17			
18	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			
19	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			
20	Maharashtra	Shirpur TPP , Shirpur Power Pvt. Ltd.	Nov-11	U-1	150	Feb-15	Jun-17	2413 / 2413	2001.08	Mar-16
				U-2	150	Apr-15	Sep-17			
21	MP	Mahan TPP / Essar Power MP Ltd. / Chinese	Sep-08	U-2	600	Jun-15	Sep-17	7738 / 7738	8051.53	May-16
22	MP	Gorgi TPP / D.B. Power (MP) Ltd. BTG-BHEL	Mar-11	U-1	660	Jun-13	Uncertain	3941 / 3941	475.79	Sep-15
23	MP	Niwari TPP / BLA Power Ltd./ BHEL - Siemens	Apr-11	U-2	45	Apr-14	17-18*	232.49 / 250.49	290.01	Sep-14
24	Odisha	Ind Barath TPP (Odisha) / Ind Barath /BTG-Cethar Vessels	May-09	U-2	350	Dec-11	Nov-17	3150 / 4001	4253	Feb-17
25	Odisha	KVK Nilanchal TPP/ KVK Nilanchal / BTG-Harbin China	Nov-09	U-1	350	Dec-11	Uncertain*	4990 / 6000	1708.36	Mar-15
				U-2	350	Jan-12	Uncertain*			
				U-3	350	Mar-12	Uncertain*			
26	Odisha	Lanco Babandh TPP / LBP Ltd./ BTG-Chinese	Nov-09	U-1	660	Apr-13	Feb-18 *	6930 / 10430	7588	Jan-17
				U-2	660	Aug-13	Aug-18*			
27	Odisha	Malibrahmani TPP / MPCL/ BTG-BHEL	Jun-10	U-1	525	Dec-12	17-18*	5093 / 6330	5329.75	Dec-15
				U-2	525	Feb-13	17-18*			
28	TN	Tuticorin TPP (Ind-Barath) / IBPIL / BTG-Chinese	May-10	U-1	660	May-12	18-19*	3595 / 3595	2000	May-15
29	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
31	WB	India Power TPP / Haldia Energy Ltd/ BTG-BHEL.	Sep-10	U-1	150	Nov-15	Jun-17	2656 / 3307	3209.16	Feb-17
				U-2	150	Feb-16	Oct-17			
				U-3	150	May-16	Feb-18			
	Total Private Sector				26445					
	Grand Total				66021.15					

CENTRAL SECTOR

BROAD STATUS OF CENTRAL SECTOR THERMAL POWER PROJECTS
(NTPC Limited)

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. com.	COD	Syn. com.	COD	
	Central Sector						
1.	Barh STPP St-I, Dist: Patna, Bihar (NTPC Ltd.)	1980					Unit-1: Boiler: Boiler erection started in 03/11. Boiler Hydro Test completed on 28.02.13. Boiler light up expected by 07/17. Synchronization to be expected shortly. TG: TG erection started in 08/11. TG Box up completed on 28/12/13.TG oil-flushing completion expected by 07/17. Unit-2: Boiler: Boiler erection started in 07/11. Boiler Hydro Test expected by 07/17. TG: TG erection started in 09/11.TG Box up completed in 01/15. TG oil-flushing completion expected by 09/17. Unit-3: Boiler: Boiler erection started in 01/12. Boiler Hydro Test expected by 11/17. TG: TG erection started in 03/12.TG box-up expected by 09/17. Balance of Plant: 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. 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. Ash dyke: All works in Ash Dyke completed. IDCTs: All works in Cooling Towers are completed. #SG contract to M/s TPE was terminated on 14.01.2015. 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. Customs & Transportation work awarded on 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.
	U-1	660	<u>03/09</u> <u>08/09</u> <u>05/17*</u> 05/17*	06/17	<u>05/17</u> 05/17	07/17	
	U-2	660	<u>01/10</u> <u>06/10</u> <u>11/17*</u> 11/17*	12/17	<u>11/17</u> 11/17	01/18	
	U-3	660	<u>11/10</u> <u>04/11</u> <u>05/18*</u> 05/18*	06/18	<u>05/18</u> 05/18	07/18	
	(*Revised as per award of balance works of SG package dated 30.01.16)						
	Investment Approval		: Feb’05				
	Sanctioning Authority		: NTPC Board				
	Orig.Est. cost		: Rs869300 lakhs				
	Latest. Est. Cost		: Rs1509567 lakhs				
	Cum Exp.upto 2009		: Rs 396710 lakhs				
	Exp during 2009-10		: Rs 69539 lakhs				
	2010-11		: Rs 92200 lakhs				
	2011-12		: Rs 127200 lakhs				
	2012-13		: Rs 143300 lakhs				
2013-14		: Rs 160100 lakhs					
2014-15		: Rs 81100 lakhs					
2015-16		: Rs 116700 lakhs					
2016-17		: Rs 147400 lakhs					
Cumulative Exp (up to Mar’17)		: Rs 1312500 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) # TG : 03/2005 on M/s Power Machines Russia					
Zero Date:		14/03/2005					
Power Evacuation							
	Critical Areas	Balance 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.					
	Reasons for Delay	Non-Performance by TPE (SG contract).					

Sl. No.	Project Details	Cap. (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. Com	COD	Syn. Com	COD	
	Central Sector						
2.	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 in 01/2011. BLU done in 29/11/14 & steam blowing completed on 01/04/15. TG: Condenser erection started in 2/10. TG erection started in 03/11& boxed up in 04/15.
	U-1	250	11/10 01/11	-	06/15 22/06/15	04/16	Unit achieved full load on 22/06/15. COD achieved on 01.04.2016.
	U-2	250	03/11 05/11	-	02/17(A) 03/17(A)	06/17	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.
	U-3	250	07/11 09/11	-	06/17 07/17	09/17	ESP: Erection works of all the four passes (A to D) are completed. Air tightness test (ATT) is also completed.
	Investment Approval		: 30/01/2008				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.
	Original Est. cost		: Rs. 437535 Lakhs				Full Load achieved in 22.03.2017 and declared as commisioned.
	Latest cost		: Rs. 674918 Lakhs				Unit-3: Boiler: Boiler Erection started in 4/12. Boiler drum lifted on 25/02/13 & HT done on 21/03/14. BLU expected by 05/17.
	Exp. During 2007-08		: Rs. 23831 Lakhs				ESP: 02 passes of ESP erection completed.
	Exp. During 2008-09		: Rs. 16046 lakhs				ATT for these 02 passes also completed.
	Exp. During 2009-10		: Rs. 70913 lakhs				TG: TG deck casting done in 03/16. TG erection started in 10/16. TG box up expected in 07/17.
	Exp. During 2010-11		: Rs. 56300 lakhs				Balance of Plant: Chimney: Order placed on M/s Gammon. Chimney shell portion completed. 03 nos. of Flue cans erection competed.
	Exp. During 2011-12		: Rs. 137610 Lakhs				CHP: Order placed on M/s McNelly Bharat in Jan'10. There are two nos. of wagon tiplpers in this project. 01 no. of wagon tippler is already commissioned.
	Exp. During 2012-13		: Rs. 74900 Lakhs				AHP: Order placed on M/s McNelly Bharat in Jun'09.
	Exp. During 2013-14		Rs. 68500 Lakhs				IDCTs: Order placed on M/s PCT.
	Exp. During 2014-15		: Rs. 65700 Lakhs				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.
	Exp. During 2015-16		: Rs. 78700 Lakhs				
	Exp. During 2016-17		: Rs. 59100 Lakhs				
	Cumulative Exp. (Up to Mar'17)		: Rs. 655000 lakhs				
	Type of fuel		: Coal				
	Date of Main Plant Order		: 05/02/08, BHEL				
	Coal Source and Transportation :		Source of Coal & 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		Inadequate deployment of work force by BHEL and its sub-agencies affected the progress of Unit-1. Law and order issues. Frequent bandhs leading to stoppage of work. Work has come to halt in Jul'12, May'14 & Dec'14 due to violence and mass exodus of labor from site. Poor performance of BOP/Civil contractors. Heavy rains.				

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. com.	COD	Syn. com	COD	
	Central Sector						
3.	Nabinagar TPP, Dist: Aurangabad, Bihar [BRBCL-Bhartiya Rail Bijlee Co. Ltd. (JV of NTPC & Indian Railways)]	1000					Unit-1: 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. ESP: 4041 MT out of 4600 MT erected. 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. 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. Full Load achieved in 03.04.2017(A) and declared as commissioned. Unit-3: Boiler: Boiler erection started in 11/11. Boiler drum lifting completed on 10.06.13. Boiler hydro test done in 11/16(30.11.16) . BLU expected in 05/17. ESP: 1446 MT out of 4600 MT erected. TG: TG erection started in 06/16. TG box-up expected shortly. Unit-4: Boiler: Boiler erection started in 12/12. Boiler drum lifting completed on 16.09.13. Boiler hydro test expected shortly. TG: TG columns work in progress. TG deck casting expected in 08/16. TG erection start expected shortly. Balance of Plant: Chimney: Chimney#1(for U-1&2) &Chimney #2 (for U-3&4) shell casting completed. Flue can erection completed for U1 & U2. 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 nd series pumps is being made ready. Inside Ash water P/h, pumps foundations completed. Pumps (01 BALP, 01 FAHP ready). PT Plant: Clarifier 1 and filter house ready. Chlorination building ready. DM plant: 02 streams commissioned. 01 no. of DM tank ready. Inside DM, pump house, pumps erection done. CW Pump house: Forebay raft completed. Pumps (02 Nos) erection completed. 03 rd and 04 th pump erected. IDCTs: Order placed in Sep’13. IDCT is FRP type. There are 20 cells in each IDCT. Civil work of basin & wall completed. Balance works are in progress in all the four IDCT’s. Railway siding: Awarded in 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.
	U-1	250	<u>08/10*</u> <u>10/10*</u> <u>12/12**</u> <u>02/13**</u>	06/13	<u>03/16(A)</u> <u>03/16(A)</u>	10/16	
	U-2	250	<u>02/11*</u> <u>04/11*</u> <u>03/13**</u> <u>05/13**</u>	10/13	<u>03/17(A)</u> <u>04/17(A)</u>	04/17	
	U-3	250	<u>08/11*</u> <u>10/11*</u> <u>06/13**</u> <u>08/13**</u>	02/14	<u>04/17</u> <u>07/17</u>	08/17	
	U-4	250	<u>02/12*</u> <u>04/12*</u> <u>09/13**</u> <u>11/13**</u> (* Org / ** Rev)	06/14	<u>09/17</u> <u>10/17</u>	11/17	
	Investment Approval	: January’2008.					
	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 79409akhs					
	Total Expenditure(Up to Jan’17)	: Rs 626692 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, 1469.03 acres is in physical possession) for makeup water corridor, railway siding & critical patches inside plant and ash dyke due to unwillingness of people to accept compensation; Frequent bandhs/Local agitation by villagers.					
	Reasons for Delay	Delay in land acquisition, Civil Works, SG Supplies, Frequent bandhs/Local agitation by villagers					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			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 expected in 07/17. ESP: 7338 MT out of 9253 MT ESP material erected.
	U-1	660	11/16 01/17	05/17	04/17 06/17	08/17	TG: Condenser erection started in 09/15. TG erection started in 01/16. TG Box-up achieved in 12/16. TG oil flushing expected in 07/17.
	U-2	660	05/17 07/17	11/17	10/17 12/17	02/18	Unit-2: Boiler: Boiler erection started on 29 th Nov’14. Hydro test expected in 07/17.
	U-3	660	11/17 01/18	05/18	04/18 06/18	08/18	ESP: 5716 MT out of 9253 MT ESP material erected.
	Investment Approval	: 31.01.2013(Jan’13)					TG:TG raft casting completed.TG erection started in 12/16.TG box-up expected in 07/17.
	Sanctioning Authority	: NTPC Board					Unit-3: Boiler erection started on 29.04.2015. Hydro test expected in 09/17.
	Orig. Est. cost	: Rs 13624.02 Crores					ESP: 2931 MT out of 9253 MT ESP material erected.
	Latest. Est. Cost	: Rs 15131.67 Crores					TG:TG erection start expected in 07/17.
	Exp. During 2008-09	:Rs 10 lakhs					Balance of Plant:
	2009-10	:Rs 22290 lakhs					Chimney: Chimney-1(Unit-1) & Chimney-2 (Unit-2&3) shell casting completed. Flue can erection in progress in Chimney-1.
	2010-11	:Rs 8300 lakhs					CHP: Order has been placed on M/s TRF Ltd in March’13. Structural erection of Crusher house, TP-2,4 &6 in progress.
	2011-12	:Rs 38392 lakhs					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.
	2012-13	:Rs 71117 lakhs					CW pump house: Excavation in fore bay area in progress.
	2013-14	:Rs 36991 lakhs					IDCTs: Order placed on M/s Fans A S. RCC raft completed. Basin wall and column works in progress in all CT’s.
	2014-15	:Rs 151000 lakhs					
	2015-16	:Rs 272144 lakhs					
	2016-17	:Rs 305000 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 (11.51 Acres), outfall drainage corridor (18.28 Acres)					
	Reasons for Delay	Acquisition of land and relocation of homestead owners still living inside the project area.					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. com.	COD	Syn. com	COD	
	Central Sector						
5.	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)	12/16 ⁺	ESP: Mechanical works completed. Electrical works in 3/6 passes completed and charged, 5 passes ATT completed.
	U-2	800	03/16 06/16	10/16	03/17 03/17(A)	05/17	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 in 25.12.2016.
	U-3	800	09/16 12/16	04/17	06/17 07/17	07/17	
	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					
	Cum Exp(up to Mar'17)	:Rs 1326700 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					
		Unit-2: Boiler: Boiler erection commenced on 20.08.13. Boiler hydro test done in 08/15. BLU done in 10/16.SBO completion achieved in 01/17. ESP: Mechanical works completed and insulation works are under progress. TG: Condenser erection started on 14.11.14.TG erection started in 03/15. TG box-up done in 01/16. TG oil flushing done in 11/16 Full Load achieved in 23.03.2017 and declared as commissioned.					
		Unit-3: Boiler: Boiler erection started in 09/13. Boiler Hydro test done in 03/16. BLU done in 04/17. ESP: Foundations done for all 6 passes. TG: Condenser & TG erection started in 09/15. TG box-up done in 01/17.TG oil Flushing done in 01/17.					
		Balance of Plant:					
		Chimney: Chimney-1 (for unit-1) & Chimney-2 (for unit-2&3): Shell casting works completed.					
		CHP: The progress of CHP is slow. Only structural work of transfer points, conveyor galleries and crusher house etc. are in progress. Civil works have been started in WT4 & WT5. Erection of mechanical equipment are yet to be started.					
		AHP: Order placed on McNally Bharat in Aug'13. Ash Dyke package awarded to M/s Sunil Hitech in 09/15.					
		CW system: Out of total 7 CW pumps, 2 CW pumps have been commissioned- to meet requirement of unit- 1. Another 2 pumps have been installed and their motors are available at site. Pump & motors for last 3 CWPs are available at site and these are yet to be installed.					
		IDCTs: Each unit is provided with 2 IDCTs each having 18 cells (9x2 rows). Unit-1- cell construction of both IDCTs completed and mechanical erection is in progress. Unit-2-cell construction of both IDCTs in progress. Unit-3- foundation work under progress for both IDCTs.					
	Critical Areas	Land acquisition for Railway siding, ash pipe corridor, raw water reservoir. Poor progress of main plant civil works Readiness of railway siding.					
	Reasons for Delay	Stoppage of work on account of NGT order–work stopped from 17.03.2014 to 01.04.2014. Work stoppage due to agitation against the project (05.07.2014 to 22.07.2014). Delay in award of SG civil works. Delay in TG erection start. Unrest and violent agitation in 07/14 with exodus of manpower.Delay in supply of generator stator of Unit #2 & 3 by M/s Toshiba.					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. com.	COD	Syn. com	COD	
	Central Sector						
6.	Solapur STPP, Dist: Solapur, Maharashtra (NTPC Ltd.)	1320					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.
	U-1	660	03/16 05/16	07/16	02/17 03/17	06/17	TG: TG erection started on 04.07.14. TG box-up completed in 07/15. TG oil flushing completed in 11/15.
	U-2	660	09/16 11/16	01/17	06/17 08/17	10/17	Full load achieved in 04/17.
	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					
Cum Exp(up to Mar’17)	:Rs 756300 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 steam generator Engineering & supply by BGR due to non-settlement of QSGM between BGR and Hitachi.					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. com.	COD	Syn. com	COD	
	Central Sector						
7.	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. All mill and bunker foundations completed. 04 nos of RHS bunkers erected.
	U-1	660	04/16 06/16	08/16	02/17 03/17	06/17	ESP: Foundations and column erection completed.
	U-2	660	10/16 12/16	02/17	08/17 10/17	12/17	TG: TG erection started in 09/14. TG box-up done in 09/15. TG oil flushing completion done in 11/16.SBO completion expected in 05/17.Synchronisation expected in 07/17.
	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						
Cumulative Exp. (Up to Oct’2016)	:Rs 579363lakhs						
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.						
Common information	30.04.2012						
	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.					
	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) / As now Expected		
			Syn. com.	COD	Syn. com.	COD	
	Central Sector						
8.	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.
	U-1	800	09/16 11/16	03/17	03/17 03/17	05/17	ESP: 05 out of 06 passes of ESP erection completed.
	U-2	800	03/17 05/17	09/17	06/17 07/17	12/17	TG: Condenser erection started on 29.05.2015 and TG erection started in 08/15.TG box-up done in 02/17. TG oil flushing expected in 07/17.
	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					
Cum Exp(up to Mar'17	:Rs 804300akhs						
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 type 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.						
	CHP: There are two nos. of wagon tippers and one no. of track hopper planned in this project. 01 no. of wagon tippler (WT) 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.						
	AHP: Unit-1 Bottom Ash hopper erection works to be completed. Unit-1 fly ash evacuation works to be completed. Unit-2 Bottom ash hopper (BAH-2) foundations to be completed. Ash slurry sump is ready. Ash slurry pumps foundations completed. Ash water storage tank is ready. Ash water pump house building works in progress.						
	Silos: HCSD silos (03 nos.) foundation works are in progress. HCSD pump house works in progress.						
	Ash dyke: Order placed on M/s K N International in Dec'13. Ash dyke is located around 06 km from the plant. Ash slurry lines works from ash slurry pump house to ash dyke to be completed. Presently ash slurry lines pedestals work started. Excavation and bund raising works are in progress.						
	PT Plant: All clarifiers are ready. 03 nos. of CW clarifiers are interconnected. Filter house building is ready. Filter bed works are in progress.						
	DM plant: This package is awarded to M/s Driplex. There are 03 nos. of streams in this plant. Vessels alignment is in progress. 02 nos. of DM water storage tanks are ready.						
	CWPs: CW pump house is of open type in this project. Floor casting completed. 05 nos. of CW pumps foundations completed. Forebay works completed. CW pumps are to be placed on the foundations. CW discharge side piping erection completed.						
	IDCT: For each unit there are 02 blocks of IDCTs. Each IDCT is having 09 nos. of cells.						
	CT-1A: All 09 cells fan deck casting completed.						
	CT-1B: 07 out of 09 cells fan deck casting completed.						
	Critical Areas	Balance land acquisition for MGR route, MuW pump house and Ash dyke, supply of GT's at site, supply of BFP discharge piping.					
	Reasons for Delay	Slow progress of TG side civil works, Delay in supplies of generator transformer					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. com.	COD	Syn. com	COD	
	Central Sector						
9.	Gadarwara STPP, St-I, Dist: Narsinghpur Madhya Pradesh (NTPC Ltd.)	1600					Unit-1: Boiler: Boiler erection started in 06/14. Foundation of 8/9 mills completed. Mill F, G J erection is in progress. HT done in 12/16.SBO expected in 07/17. 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 box-up expected in 07/17. Unit-2: Boiler: Boiler erection started in 30 th Nov’14. All ceiling girder erection completed. Pressure part erection in progress. HT expected in 07/17. ESP: Pass A, B & C erection completed and foundation work of D, E & F passes completed. TG: TG erection expected to start by 07/17. 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 u/p.
	U-1	800	12/16 03/17	07/17	05/17 06/17	08/17	
	U-2	800	06/17 09/17	01/18	11/17 12/17	02/18	
	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					
	Cum Exp(up to Mar’17)	:Rs 742300 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.					
	Reasons for Delay	Work stopped for 56 daysin 2014 due to agitation by villagers demanding additional compensation for already acquired land. Land acquisition for railway line corridor, RoU for MuW pipeline laying.,					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A) / As now Expected			
			Syn. (com.)	COD	Syn. (com)	COD		
	Central Sector							
10.	Darlipalli STPPSt-I, Dist. Sundergarh, Odisha (NTPC Ltd.)	1600					Unit-1: Boiler: Boiler erection started in 04/15. HT expected in 07/17.	
	Unit-1	800	12/17 02/18	04/18	12/17 02/18	04/18	TG: Condenser erection started in 12/15. TG erection started in 04/16.TG box-up expected in 07/17.	
	Unit-2	800	04/18 06/18	08/18	06/18 08/18	10/18	Unit-2: Boiler: Boiler erection started in 07/15. HT expected in 07/17.	
	Investment. approval							TG: Condenser erection started in 09/16. TG erection expected start in 05/17. TG Box-up expected in 11/17.
	Orig.Est. cost	Rs 1253244 lakhs						Balance of Plant: Chimney: raft completed. CHP: Order placed on Tata projects in Feb'15. AHP: Order placed on Indure in Oct'14. PT/DM Plant: Order for water treatment plant placed on Triveni Engineering in Feb'15. CWPs: Order for CW equipment placed on Kirloskar Brothers Ltd in Oct'14. Cooling Towers: Order placed on L&T, ECC in Dec'14.
	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						
	Cumulative Exp (up to Mar'17)	:Rs.548800 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.						
	Reasons for Delay	---						

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. com.	COD	Syn. com	COD	
	Central Sector						
11.	North Karanpura STPP, Dist.Chatra, Jharkhand (NTPC ltd.)	1980					Unit-1: Boiler: Boiler erection started in 04/16. Hydro test expected in 01/18. TG: Condenser erection start expected in 05/17. TG erection start expected in 07/17. Unit-2: Boiler: Boiler erection started in 07/16. TG: Condenser erection started in 11/16. TG erection start expected in 01/18. Unit-3: Boiler: Boiler erection started in 09/16. TG: Condenser erection start expected in 05/18. TG erection start expected in 05/18.
	Unit-1	660	12/17 02/18 02/19* 02/19*	04/19	02/19 02/19	04/19	
	Unit-2	660	06/18 08/18 08/19* 08/19*	10/19	08/19 08/19	10/19	
	Unit-3	660	12/18 02/19 02/20* 02/20*	04/20	02/20 02/20	04/20	
		* Revised Schedule.					
	Investment. approval	Feb 2014					
	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					
	Cumulative Exp (up to Mar'17)	: Rs. 488200 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 (45.72 Acres), Award of ACC package, water system package, Switchyard transmission system by BHEL.					
	Reasons for Delay	Delay in start of Civil works due to land acquisition issues. Delay in BHEL supplies related to boiler foundation. Delay in land handover by NTPC to BHEL due to change in main plant area location.					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status	
			Original		Actual(A) / As now Expected			
			Syn. com.	COD	Syn. com	COD		
	Central Sector							
12.	Tanda-II STPP, Dist. Ambedkar Nagar, U.P. (NTPC Ltd.)	1320					Unit-1: Boiler: Boiler erection started in 12/15. Hydro test expected in 07/17.	
	Unit-1	660	07/18 09/18	11/18	07/18 09/18	11/18	TG: Condenser erection started in 03/17. TG erection start expected 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 11/17	
	Investment. approval	Sep 2014						TG: TG erection start expected in 07/17.
	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.
	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						
	Cumulative Exp(up to Mar'17)	: Rs.266200 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	Ordering of Ash dyke, tapering coal linkage, main plant civil works							
Reasons for Delay	---							

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. (com.)	COD	Syn. (com)	COD	
	Central Sector						
13.	Khargone STPP, Dist.Khargone, M.P. (NTPC Ltd.)	1320					Unit-1: Boiler: Boiler erection started in 04/16. Hydro test expected in 03/18. TG: Condenser erection start expected in 07/17. TG erection start expected in 08/17. Unit-2: Boiler: Boiler erection to start in 09/16. TG: Condenser erection start expected in 01/18. TG erection start expected in 02/18. BoPs: Ash Dyke package: Order placed on R K Transport & Construction in 12/15.
	Unit-1	660	01/19 03/19	07/19	01/19 03/19	07/19	
	Unit-2	660	07/19 09/19	01/20	07/19 09/19	01/20	
	Orig.Est. cost	Rs 987051 lakhs					
	Latest.Est. Cost	Rs 1114886 lakhs					
	Exp. During 2014-15	: Rs. 63400 lakhs					
	2015-16	: Rs. 90200 lakhs					
	2016-17	: Rs. 112400 lakhs					
	Cumulative Exp (up to Mar’17)	: Rs. 267600 lakhs					
	MOEF clearance						
	Type of fuel	: Coal					
	Date of Main Plant Order	EPC On L&T on 31.03.2015					
Zero date	31.03.2015						
Critical Areas	Acquisition of land for Railway siding						
Reasons for Delay	---						

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. com.	COD	Syn. com	COD	
	Central Sector						
14.	Telangana TPP (Ph-I), Dist. Karim Nagar Telangana (NTPC Ltd.)	1600					Unit-1: Boiler: Boiler erection start expected in 07/17. TG: Condenser erection start expected in 04/18. TG erection start expected in 05/18. Unit-2: Boiler: Boiler erection start expected in 09/17. TG: Condenser erection start expected in 10/18. TG erection start expected in 11/18.
	Unit-1	800	10/19 01/20		11/19 01/20		
	Unit-2	800	05/20 07/20		05/20 07/20		
	Orig.Est. cost		Rs 1059900 lakhs				
	Latest.Est. Cost		Rs 1181100 lakhs				
	Exp. During 2015-16		Rs. 600 lakhs				
	2016-17		Rs 80700 lakhs				
	Cumulative Exp (up to Mar'17)		Rs. 81300 lakhs				
	MOEF clearance						
	Type of fuel						
	Date of Main Plant:		SG on BHEL				
	Order:		TG on Alstom-Bharatforge on 05.02.16.				
	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.					
Critical Areas							
	Reasons for Delay	---					

BROAD STATUS NEYVELI LIGNITE CORPORATION PROJECTS

Sl. No.	Project Details	Unit No.	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Syn. Comm	COD	Syn. Comm	COD		
Central Sector									
1	Neyveli New TPP M/s Neyveli Lignite Corporation Ltd. at Neyveli in Tamil Nadu	1	500	07/17	10/17	03/18	07/18	• Boiler (M/s BHEL) U-1 Erection commenced on 07/03/16 & MSS erection completed on 28/11/16. Boiler ceiling girder erection completed on 28/11/16, pressure parts pre-assembly works are in progress. HT expected by 11/17. ESP, Duct and ID fans erection work in progress. • TG & Condenser: TG deck work & one no. EOT crane work completed. 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. HP,IP and LP turbine box-up completed on 31.03.17. Final Box-uo expected in 09/17. 5452/7834 MT powerhouse structural erection completed & further work is in progress. • Boiler U-2 Erection commenced on 28/03/16 & MSS tier 5B erection is in progress. HT expected by 12/17. ESP, Duct and ID fans erection work in progress. • TG & Condenser: TG deck completed on 13/01/16 & one no. EOT crane work completed. Condenser pre assembly commenced on 10/03/16. TG erection started on 24.03.16 6852/7125MT powerhouse structural work completed & further work is in process. • Chimney: Shell concreting up to 269 mtrs completed. Flue can structure erection work started on 22/06/16 and Flue can erection work completed on 30.04.17 • 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 work commenced on 04/11/15. Equipment supply is in progress. Erection work under ESP is in progress. • RO/DM plant: Awarded to M/s EPIL on 30/04/14. Civil works are in progress. Equipment supply is in progress. • 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. CWP and CW channel civil work are in progress. • Cooling tower: Civil work are in progress. U1 - 17905M³/21809 M³ RCC work and height 104.5 m completed & U2 -23609 M³ / 21770 M³ RCC work completed until 05/17 and shell full height 135.34 m 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 pumpscompleted. • 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 U/P. 230 kV LILO work is in progress by TANTRANSCO. Start up power expected by June,17.	
		2	500	09/17	04/18	07/18	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. 16282.72 Lakh (05/17)						
	Total Expenditure (up to 05/17)		: Rs. 390954.7 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		Finalisation of Engineering & design by BHEL and subsequent delay in civil and mechanical erection work slow progress due to skilled man power shortage.							

	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)	1980					<i>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 on20.02.17. 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.</i> <u>TG& Auxiliaries</u> <i>Civil Testing Lab has been established. 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 5.5.2017 and the work was stopped on 22.5.2017 afternoon due to local villager's agitation on Land issues</i> <u>SG& Auxiliaries</u> <i>Civil Testing Lab has been established. Receipt of cement at site 825MT and reinforcement 999MT Foundation excavation for Boiler #1 completed. PCC for CF4 foundation completed and reinforcement binding in CF4 foundation is under progress. Boiler # 3 Foundation excavation work is under progress Civil works commenced on 17.3.2017 and the work was stopped on 22.5.2017 afternoon due to local villager's agitation on Land issues</i> <u>BoP</u> <i>Area for site office establishment handed over on 15.03.17 Samples for design mix sent to NCCBM Ballabgarh on 18.3.17 and area for labor colony handed over on 20.3.17 Field CBR 15/1/5 completed Construction of labor colony commenced on 24.3.17 FQAP for general civil works revised and resubmitted on20.4.17 and finalised. All soil investigation works were completed on 09.5.17. Earth work excavation for chimney has begun on 22.5.17. Works were comes to standstill since 22.5.17 due to local villager's agitation on Land issues</i>
	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.551.7 Lakhs					
	Exp. During 2014-15	:Rs.3813.45 Lakhs					
	Exp. During 2015-16	:Rs.841.05 Lakhs					
	Exp. During 2016-17	:Rs.73726.09 Lakhs					
	Exp. During 2017-18	:Rs. 13349.08 Lakhs					
	Cumulative Expd. (up to 05/17)	: Rs. 106219.371 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	:					
	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.					
	Associated Transmission System						
	Land: Possession of 827.324 Hectars of Lnad was done in November 2015 with the help of District Magistrate, Kanpur Nagar and revenue officials. 91 Plots of Pockets of Private land has to be acquired. Negotiation is in progress with nthe villagers and District Authorities for obtaining Sahamati Patra Consent. Further 180 Hectares of land are to be acquired for Railway Siding. MOEF clearance: MoEF issued Environmental clearance to NUPPL on 17.06.2015 Water Intake System: The UP Govt. has sanctioned for 80 cusecs water for 3 x 660 MW GTPS Project which shall be drawn from downstream of Bidhnu canal (i.e, from the common canal of western Allahabad Branch Canal and Fatehpur Canal) near Bidhnu Kasaba to GTPS water reservoir. Work order was issued to Ms.U.P Irrigation Department on DCW basis. Water Carrier System: Work order was issued to Ms.U.P Jal Nigam (UPJN) for preparing feasibility Reportfor conveyance of 80 cusecs of water from downstream of Bidhnu canal (i.e, from the common canal of western Allahabad Branch Canal and Fatehpur Canal) near Bidhnu Kasaba to GTPS Site. Detailed Project Report received and accepted by NUPPL Boar. MOU was signed between UP Jal Nigam & NUPPL for carrying out the job under UP Jal Nigam Project Management. Coal Linkage/FSA: Pachwara South Coal block in the state of Jharkhand has been allocated to cater the coal requirement of 8MT per annum for 3 x 660 MW GTPP Power Evacuation System: CEA in 36 th Standing Committee meeting held on 13-7-2015 at New Delhi has agreed for power evacuation GTPP proposed by UPPTCL. Power Purchase Agreement: Agreement made between NLC & UPRVUNL on 13-12-2010. UPPL had signed a PPA with NUPPL for availing 75% of power from GTPP. NLC/NUPPL is pursuing with Ministry of Power, GoI to expedite allocation of balance of 25% of power from GTPP to UPPL. State Pollution Control Board: Applied for consent to Establishment with application fee. Reply for clarification also submitted						
	Critical Areas						

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)	5	660	06/16	09/16 09/16	02.10.16(A))	04.04.17(A) 06/17	Unit-5 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 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 foundation completed on 09.08.15. Erection started on 17/08/15. 3139 MT structure & NPP erected. Pressure parts erection is in progress. Coal bunker fabrication and erection is in progress. ESP: RCC work completed. ESP erection started on 04/09/15. 87% erection completed. Insulation work yet to be started. TG: TG deck casting done on 25.06.16. TG erection started on 11.07.16. Assembly of LP&HP condenser is in progress. BoPs: CHP: U-6 Wt civil work is u/p. Primary and secondary crusher house equipment & structural work 95% and 85% completed respectively. Stracker cum reclaimers, belt conveyor work is in u/p. AHP: U-6: 10% erection and alignment work completed in bottom ash. Fly ash 15% erection work of pipeline inside ESP completed. Chimney: Shell concreting is completed up to +270 m. Fabrication work is in progress. Approx 76% work completed. NDCT: U-6: Basin floor PCC, RCC, Ring raft,pedestal on raft,racker column completed. RWPH: Erection of Raw water pumps almost completed. Piping connection work is also completed. Trail run of 2 nos raw water pumps and 2nos ash make up pumps completed. DM Plant: DM plant building fabrication in progress. Auto comm is balanced. PY plant charged. One non-DM clarifier charged now. CW Pump: 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 (M/Y)	6	660						
	Revised approved cost(M/Y)	: 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 04/17.)	Rs. 691563 Lakhs							
	Zero Date of Project	: 28-03-2013							
	Financial Closure	Pertains to TD							
	Main Plant order Date	Order placed on M/s L&T - MHI for boiler, TG 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	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 done 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 133443 lakhs				
		Total Expenditure (up to 03/17)		Rs 634870 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).				
		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								

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)	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. 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 and 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.	STATE SECTOR/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)	660					Basic Plant Engineering completed. Palnt Layout Finalised.. Basic Engineering consultants are appointed (DCPL for BoP Electro Mechanical and TPSc-I for detailed Civil dsign in BTG as well as BoP areas) and design engineering under progress. TCE appointed as AE-PM Boiler foundation completed. Main Boiler Structural erection is under progress. Detail engineering, procurement and manufacturing is under progress for the following Structural steel for Boiler, Pressure parts with hanger, Air Preheater including SCAPH Ducts within Boiler, Oil guns, Ignitors and coal Burners, Boiler Circulation pumps, Fuel oil piping in boiler areas, Bellows and Dampers, Soot Blowing and Attemperation System, Mills, Coal Bunks, FD,PA and ID fans, Critical piping <u>Main Plant Package (BTG)</u> Detail engineering Procurement and Manufacturing under progress for the following: LP Turbine, HP Turbine, Generator, MSV-CV (Casing casting completed for I.P. LP Rotor under Manufacturing, Generator, Stator Frame under manufacturing CRV casing under progress) TG Halt DOT Crane (Under Manufacturing) Condenser, DA, HP and LP Heaters (under Manufacturing) CPU, CEP, Drip Pumps, BFP (Detail Engineering Under Progress) CW Pump (Detail Engineering Under Progress) CW Pump (Fabrication Work is under Progress at site) HP-LP Bypass (Detailed engineering is under progress) <u>Main Plant Civil & Structural work</u> Geotechnical and Geophysical investigation works completed by M/s.CE Testing Test Piling works completed by M/s. ITDC Road and Drain works, area grading works under progress by M/s. KB-AIP. Sub-Station linkage for construction power completed. Site office, river yard and other infrastructure development work by M/s. Delta Mechons completed. Boundary walls are under progress by M/s.Delta Mechons. RMC plant established and commissioned by ACC. Working Pile awarded to M/s RVAG & M/s ITDC and Main Plant & BOP piling work is under progress. GCW-1 for Main Plant Civil Works package is under progress and Boiler Foundation handover completed, Mill pedestal work under progress, TG Foundation work under Progress by M/s SIMPLEX. GCW-2 for Main Plant Structural Works fabrication work under progress by M/s JSPL. GCW-3 civil works i.e. Track Hopper Foundation work under progress by M/s SIMPLEX. GCW-4 civil works under progress by M/s Delta <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 and other equipments is completed. <u>Ash Handling Plant</u> Awarded to M/s. Indure and detailed Engineering are in advanced stage of finalization. Ash Pond construction package is under progress and in advanced stage of finalization <u>Cooling towers</u> Awarded to M/s. Paharpur and detailed Engineering activities have started. Site civil works under progress by M/s.Paharpur <u>Chimney</u> Wind Tunnel Study conducted at IIT-Kanpur 2)Design consultancy being carried out by STUP Consultant 3) piling work of Chimney area is under completion by M/s. ITDC 4) Construction of Chimney work is awarded to M/s. Bygging and Vendor mobilization is under 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						
	Land	:						
	PPA	: Signed on 16.01.13						
	MoEF Clearance	:.						
	Fuel Linkage	: From Saharpur-Jamarpani, Jharkhand coal Block allocated on 25.03.15.						
	Associated Transmission System							
	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>PT Plant</u> Awarded to M/s. Driplex and Detailed Engineering activities are in advanced stage of finalization <u>DM Plant</u> Awarded to M/s. Driplex and Detailed Engineering activities are in advanced stage of finalization <u>Switch Yard</u> Awarded to M/s. Paharpur and detailed engineering activities are in advanced stage of finalization <u>Fuel Oil System</u> Awarded to M/s. GMW and detailed Engineering activities are in advanced stage of finalization <u>Note: -</u> <u>The above dates are based on 52months schedules which will change to 56 month (expected) after finalization of FGD and SCR scope of work (change order awaited from M/s UPRVUNL).</u> <u>AHP completion dates are including of AWRS completion date.</u>							

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)	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 21.04.2016 respectively.
	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.					
	Cumulative Expenditure (up to 05/17)	: Rs. 339.92 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	:					
	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					
	Associated Transmission System	By UPPTCL at 765 KV					
	Water	: Allocated from Rihand Reservoir					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual (A) / As now Anticipated.		
			Syn.	Com.	Syn.	Com.	
4	Jawaharpur STPP JVUNL(A100% subsidiary of UPRVUNL) (Village: Malawan, Dist. Etah)	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 04.2016 (52 months) respectively. - All soil investigation work including topographic survey has been completed March 2017. 2. The construction of temporary office and camp commenced on 14 March 2017 and DPSI has planned to complete these facilities by Oct. 2017. 3. Erection of Test piling work has been completed. At present, Pile testing work is on progress. There is total Twenty One (21) Pile test is to be determined in which Four (4) Pile Test has been completed and remaining Seventeen (17) is to be completed till 05 July 2017. 4. The construction of temporary access road and drainage and site leveling work are on progress.
	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.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 05/17)	: Rs. 443.58 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	:					
	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 UT PRAKASH										
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	GT-1	75	10/11 10/11	10/11	08/17 08/17	09/17	OPEN CYCLE GT-I&II All civil works are completed in 08/11. Both the gas turbines (6FA, GE France) & generator erection already completed. Cranking of GT completed. Both the GTs are on turning Gear. Waiting for gas COMBINED CYCLE HRSG-I&II: Erection of HRSG equipment supply completed. Erection of both the HRSG nearing completion. HT of both the HRSGs expected just after erection is completed. ST: ST& STG supply received at site. STG erection completed. ACC erection is nearing completion. STG oil flushing completed. STG yet to be put on BG. BoPs: All the BoPs are ready.		
		GT-2	75	10/11 10/11	10/11	08/17 08/17				
		ST	75	12/11 12/11	12/11	09/17 09/17				
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. - Il statutory clearances are available. - Il 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		
				Sync/ Comm	COD	Sync/. Comm	COD	
Private Sector								
2.	BETA CCPP, Module-I, at Kashipur (M/s BETA INFRA TECH PRIVATE LTD.), Udham Singh Nagar	GT-1	75	12/11 12/11	12/11	08/17 08/17	09/17	<u>OPEN CYCLE GT & GTG</u> Both the gas turbines (6FA, GE France) & generators supply reached at site. Erection of both the GTs and GTGs has completed. Oil flushing of both the GTs completed. Erection of GT exhaust duct completed. By pass stack erection completed. Erection of diverter and damper completed. GT is ready to put on turning gear. Commissioning in open cycle is possible within one month from availability of gas
		GT-2	75	12/11 12/11	12/11	08/17 08/17		
		ST	75	03/12 03/12	03/12	09/17 09/17		
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.					
SA yet to be signed Il statutory clearances are available. Il the BOPs are either already completed or nearing completion. oth the gas conditioning skids are yet to be made ready. as in gas pipeline charged upto GAIL skid inside the project. availability of startup power is expected by 09/16. witchyard 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)	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. 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. Unit-3 (U-2) Boiler. Boiler erection started on 01.04.11. Boiler Drum lifted on 29.04.12. Boiler hydro Test(ND) is expected on 15.07.17.BLU expected on 02.10.17. Oil synch. is expected in 10/17. Full load is expected in 10/17. TG:	
		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	10/17		
		U-4 (U-5)	600	02/13	04/13	03/18	03/18		
		U-5 (U-1)	600	06/13	08/13	09/18	09/18		
		U-6	600	10/13	12/13	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	: Rs209517 lakhs							
	Exp. During 14-15	: Rs.164917 lakhs							
	Exp. During 15-16	: Rs. 90320 lakhs							
	Exp. During 16-17	: Rs. 244001 lakhs							
	Total Exp.(upto 12/16)	:Rs.1798301 Lakhs							
	Approval date:	NA							
	Zero date:	: 21.04.09							
	Financial closure	: Achieved on 30.03.10							
	EPC Order	: EPC ordered on 21.01.09 on SEPCO (China)							
	Package(BTG)	(Boiler-Shanghai Boiler Works, China), (TG-Dongfang Electric Company, China)							
	Type of fuel	Coal							
	PPA	PPA: PPA signed with Gujarat Urja Vikas Nigam Ltd for 1010 MW on 03.06.10. PPA signed with APCPDCL for 400 MW on 31.07.12. PPA signed with CSP Trade Co for 225 MW on 18.10.13 PPA signed with TANGEDCO for 500 MW on 27.11.13 PPA signed with UPPCL for 1000 MW on 26.02.14							
	Power Evacuation system	Power is to be evacuated to PGCIL pooling station through 400kV transmission system. Final bulk power transmission agreement signed with PGCIL on 25.02.10.							

	• Land: Complete land for the project is under possession. • MOE&F: Received on 19.10.09 State Pollution Control Board: Chhattisgarh Environment Conservation Board (CECB) granted “consent for Establishment” for 6x600 MW on 16.02.10. State pollution Control Board Clearance: Chhattisgarh Environment Conservation Board (CECB) has granted ‘Consent for Establishment for 6x600 MW power plant of WPCLCG on 16.02.10. • Civil Aviation: NOC received on 12.05.09. • Water: Water Resources Department, Govt., of Chhattisgarh has allocated 100 MCM of water /year from Mahanadi River from proposed anicut at Basantpur. • Coal linkage: SECL (Tapering coal linkage to 3x600MW only) Letter of Assurance(LOA) for tapering coal linkage to 3x600 MW has been granted by SECL on 11.06.09. FSA has been executed with SECL on 19.03.14 for 2 units. Tapering FSA for U-3 has been executed with Eastern Coalfields Ltd on 12.08.14. • <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.	TG Deck casting completed. TG erection started on 05.01.17. TG Box Up is expected on 22.09.17. <u>Unit-4 (U-5)</u> Boiler. 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 03/18. TG: TG Deck casting completed on 06.10.12. TG erection start is expected in 09/17. TG Box up expected in 02/18. <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. 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. 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: CHP is ready for phase 1& 2 AHP: All work of silos completed. Ash dyke work is completed and in use. 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 & 2 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		
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 30.04.12. HT conducted on 07.11.13. Non drainable HT done on 27.03.14. BLU done on 17.04.15. SBO completed on 25.10.15. Unit 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. Unit-3 Boiler: Boiler erection started on 12.01.12. Boiler drum lifted on 1.08.12. HT (drainable) conducted on 22.08.14. BLU expected in 06/17. SBO completion is expected in 07/17.Synchronization is expected in 08/17. TG: TG erection started on 11.10.14. HIP temporary box up completed and final box up under progress.TG on BG is expected in 07/17. Unit4 Boiler: Boiler erection started on 30.04.12. Boiler drum lifted on 30.12.12. HT conducted on 20.01.15. BLU expected in 09/17. TG: condenser erection started on 20.2.15. TG erection started on 25.11.14. TG on BG is expected in 10/17. BoPs: Chimney: Chimney-1 Shell construction work completed (270m). Flue erection and insulation for U-1&2 completed. Chimney-2: Shell construction work completed (270m). erection and insulation for U-3&4 completed CHP: phase 1 is completed in all respect and phase -2 is under progress. AHP: BAHs for for U-1 &2 commissioned for U-3&4 is under progress. FAHS for U-1 & 2 is q commissioned for U-3 to be commissioned. In Ash water tank-1 all pumps with motors erected and alignment completed and 2nd under progress. Fly ash silo 1,2 & 3 is completed and 4th is under progress. PT/ DM Plant: Three streams are commissioned and in operation. Forth stream commissioning to be done. CW System: CW pump house-1 civil work completed CW pump house-2 civil work completed and CW pumps erection is under process. CW piping for unit-1,2,3&4 is completed Cooling Tower: NDCT1: U-1&2 civil, mechanical erection completed and commissioned completely NDCT2: U-3 & 4: civil and mech work is in progress. FOPH: HFO & LDO storage tanks erected and insulation completed. Switchyard: Completed in all respects.	
		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	08/17	09/17		
		U-4	360	05/13	07/13	11 /17	12/17		
	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							
	Cumm Exp. (Up to 03/17)	: Rs.1129366 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	Very slow erection works in TG area for U-3 and U-4. 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	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. • 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.
	Latest Est. Cost		Rs.770000 Lakhs Rs. 1081524 lakhs						
	Expenditure during 2007-08		Rs. 189 lakhs						
	Expenditure during 2008-09		Rs. 209 lakhs						
	Expenditure during 2009-10		Rs. 9841 lakhs						
	Expenditure during 2010-11		Rs.206364 lakhs						
	Expenditure during 2011-12		Rs. 262658 lakhs						
			Rs. 125739 Lakhs						
	Expenditure during 2012-13		Rs. 12500 Lakhs						
	Expenditure during 2013-14		Rs. 61445 Lakhs						
	Expenditure during 2014-15		Rs. 165255 Lakhs						
	Expenditure during 2015-16		Rs. 109579 Lakhs						
	Expenditure during 2016-17		Rs. 109579 Lakhs						
	Total Expenditure up to 12/16		Rs. 953779 lakhs						
	Approval date:								
	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 trippler 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	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), For commissioning HEC/HTC Engineers are required. AVR Feed back Card- pending from long time, LVDT replacement- All the LVDT are not working. Rotor stoppage alarm panel to be supplied, supply of Technical data sheet of TG instruments and ISCAN-2 for Unit-2 as per letter dated in 09/14								
Reasons for Delay	Delay in commissioning of U-1.Agitation by villagers at site. Delay in sullyp of BTG and CHp material. Non corporation of BTG supplier in commissioning activities. Acquisition for railway siding and ash pond.								

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch	Comm	Syn.	Comm COD		
5	Deveri TPP Raigarh TPP (Visa) (VISA Raigarh STPP, Ph-I) (Distt: Jangir Champa) M/s VISA Power Ltd.	U-1	600	06/13	08/13	Uncertain	Uncertain	Unit-1 • Boiler: Boiler erection started on 30.09.11. 8th tier erection completed. Ceiling girder A, B, C, D, E & F erection completed. Work held up due to financial Problems. • ESP: Pass A casing erection work completed. Suspensions for electrodes erection completed. Erection of collecting electrodes up to 10th field completed. Hopper top part erection completed in all 10 fields. Pass B: Column erection work completed. Pass-C- electrode erection completed in all 10 fields. Pass D: Casing erection completed. electrode erection • TG: TG deck raft completed and shuttering work final deck casting U/P. EOT crane erected and commissioned. BoPs: • Chimney: Foundation works completed and shell casting work U/P. Chimney awarded to Bygging India Ltd on 15.01.15 • CHP: PCC in wagon tippler & TP-2 area is U/P. Coal Mill & Mill Bunker Building: All mill foundation & bunker pedestal casting completed. Bunker structure and shell fabrication under progress. • Raw Water Supply System: Raw Water pipe line awarded to TATA Projects Ltd. On 14.07.11 • CW System: Raw Water pipe line awarded to TATA Projects Ltd. On 14.07.11 • IDCT: CT awarded to Paharpur cooling Towers 25.01.12.IDCT-I & 2 excavation work completed. • Switchyard: Foundation works completed and shell casting work U/P.	
		U-2	660						
	Org. Est. cost for both the units	Rs. 619000 Lakh							
	Unit-1 cost	Rs. 261870 lakhs							
	Unit-1 Latest cost	Rs. 393000 lakhs							
	Exp. During 10-11	Rs. 51763 lakhs							
	Exp. During 11-12	Rs. 53457 Lakh							
	Exp. During 12-13	Rs. 15481 Lakh							
	Exp. During 13-14	Rs. 47890 Lakh							
	Exp. During 14-15	Rs. 36759 Lakh							
	Exp. During 15-16 (Up to 11/15)	Rs. 2373 Lakh							
	Cumm. Exp 11/15)	Rs. 207723 lakhs							
	Approval date:								
	Zero date:	09.08.10							
	Financial closure	Achieved for both the units							
	Main Plant Order	BTG Contract awarded on 28.06.10 to M/s BHEL(Boiler-BHEL) (TG- BHEL)							
	BOP Package	The order for all the BOPs on EPC basis including civil works have been placed on M/s L&T on 29.09.10. BHEL (Trichy) supplied 13031 MT for Boiler & BHEL(Ranipet) 7340MT for ESP up to 11/2014 out of which 5792 MT of Boiler & 3749 MT of ESP erected. BHEL (PSWR) supplied 3863 MT of bunker structure material, out of which 2261 MT bunker structure fabricated. BHEL piping center (Chennai) supplied 1235 MT							
	Type of fuel	Coal							
	PPA	PPA Signed with CSPTCL & WBSEDCL for 424 MW & 200 MW and WBSEDCL for 200MW. As per letter dated 14.01.14 PPA signed with WBSDCo. Ltd on 04.01.11 for 510 MW for 20 years through MOU route with 3part tariff (Cap. Charges+ energy Charges+ transportation charges). CSPTCo.Ltd an authorised representative of GOCG to execute PPA with Developers on behalf of the GOCG. This PPA is in line with the implementation agreement executed with GOCG							
	Power Evacuation system	Awarded the contract for construction of 400kV D/C transmission line on M/s KEC on 24.06.11. From PGCIL S/S at New Kotra. 400/765 Kv Pooling station for power evacuation –bays construction given to Alstom T7D on 31.12.11.							
	BTPA	24.02.10							
- Land: Delay in land acquisition & delay in placement of orders for BoPs. Delay in supply of boiler drum by BHEL. Work is on hold due to Financial crunch. - MOE&F: MOEF clearance obtained on 23.08.11 Amendment in MOEF clearance issued on 20.05.14 regarding the reduction in project area of 780 acres to 637 acres. Fatehpur coal block allocated to the Visa Power. - Civil Aviation: clearance from AAI received on 25.05.10. - Water: Water allocation received from WRD, Chhattisgarh for 35 MCM on 26.09.09 - Coal linkage: Fatehpur East Coal Block jointly allotted. Domestic coal linkage applied. FSA signed with Indonesian coal supplier (PT Kubara Bumi Lestari) for supply of imported coal.									
Critical issues		Boiler Drum has not dispatched by the BHEL							
Reasons for Delay		Order of AHP,Fire protection system, AC & ventilation system,LT/Ht switchgear, cables, air compressor, LT transformers, station, GT & unit transformer not yet placed. Work is on hold due to financial crunch.							

SI.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch	Comm	Syn.	Comm COD		
6	Singhitarai TPP (DumatpalliTPP) Janjgir (Vill) Champa Distt. (M/s Athena Chhattisgarh Power Ltd)	U-1	600	10/14	11/14	Uncertain		• Unit-1: • Boiler Boiler erection started in 29/07/12. Drum lifted on 07.04.13. Non-Drainable HT done on 08.10.15 Work at site is on hold due to financial constraints. • TG TG erection started on 04.07.13. Condenser erection started on 16.05.13. Work at site is on hold due to financial constraints • Unit-2: • Boiler Boiler erection started on 24.12.12 Drum lifted on 30.10.13. Work at site is on hold due to financial constraints • TG TG erection started in 29.11.13. Condenser erection started on 01.01.14. Work at site is on hold due to financial constraints BoPs: • Chimney: Erection of flue cans and stair case completed External painting completed. • CHP: Major Erection works completed. • AHP: Major Erection/construction works completed. • Raw Water Supply System: RWIS from river Mahanadi to ACPL-contract awarded on 16.05.11 Barrage construction completed & finishing work in progress NoC received from WRD, GoC for laying of pipeline along the canal on 31.10.10. approval received for Nala crossing and road crossing. RWIPH construction completed. • PT/ DM Plant: First stream commissioning done in auto mode successfully & commissioning of other streams are in progress. • CW System: Erection of motor & pumps completed. • CT: all works completed. • FOHS: No load trail run of motors completed. Hydro test in progress for pipes. • Switchyard: commissioning works are Completed.	
		U-2	600	01/15	02/15	Uncertain			
	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 (Up to 04/17)		: Rs. 2251.71 lakhs						
	Cum.Exp. up to 04/17		:Rs. 636960 lakhs						
	Zero date:		01.06.11 (NIT issued)						
	Financial closure		: Achieved (Common loan agreement signed on 30.03.11)						
	Main Plant Order		: Awarded on 21.12.09 to M/s DECL.						
	BOP Package		M/s Abir infrastructure on 18.08.10						
	Type of fuel		Coal						
	PPA		Long term and short term PPA signed with PTC. 444 MW signed with CSPT and 150 MW signed with Nepal electricity authority. For 300 MW- LOI received & for 200 MW participated in Case-I bidding in RRVPN and shortlisted for supply of 200 MW to RRVUNL. Participated 107.5 MW in Case-I bid in MPPMCo. Ltd						
	Power Evacuation system		400 kV DC transmission line completed. 400 kV bays are connected through network of 765/400kV PGCIL Bansia polling station. LTOA granted on 01.10.09. BTPA entered into on 24.02.10. Test charging of 400 kV Transmission line-2 from Bansia to ACPL was completed along with charging of Bus-1&2.. Charging of ACPL-DBPL Tie bay No. 434 at PGCIL Kotra pooling station 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		
7	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) 07/17	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 is in progress. Syn expected in 07/17. TG : Condenser erection started in 01/15 . TG erection Started in 09/14 . TG box up expected in 6/17. TG put on barring gear in 06/17. 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	07/17	08/17 08/17		
		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.							

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 11/17.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 is expected in 06/17. TG erection start is expected in 07/17. <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(88% completed upto 05/17). 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; foundations drawings are yet to be approved (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 are in progress. Shell casting is expected to start in 06/17. 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.
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 Plama Coal Block, Chhattisgarh						
Power Evacuation system		- All mandatory clearances are available. - BoPs orders placed by BHEL. - Power evacuation system readiness is expected 6 months before COD. - Topographical & Soil investigation work is completed. - Order for Site grading work is placed by BHEL and work has been completed. - Work contracts for Material management, Storage yard Development and construction power distribution are awarded by BHEL. - LOI for RCC Chimney placed on M/s Bygging India Ltd.on 11.06.15. - BHEL issued order for civil work to M/s BJCL for Boiler to Chimney area.						
Critical issues		Delay on TG front by BHEL and their sub vendor						
Reasons for Delay		During the site visit in 03/17 a delay of about 4-6 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 07/18	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 expected in 06/17. 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, HCSD 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.	
		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 05/17)		: Rs 26759 lakhs						
	Total Expenditure (Upto 05/17)		: Rs. 289718 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									
		- and: Available. - ega Power Status: : Obtained on 05.07.12. - oEF: : Received on 27.08.14. - roject 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								
2.	Mahan TPP (Dist. Singrauli) Essar Power MP Ltd.	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	08/17 08/17	09/17	
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.					
• OEF clearance: 20.04.07 • ater: 0.058 MAF/year from Rihand Reservoir. • PCB: Obtained on 03.03.09. • ivil Aviation Clearance: Obtained on 02.02.2007. • and: Physical possession of 185.81 Ha. Govt. Land is available.167.32 Ha. Pvt. Land in Viil. Bandhora, 150.31 in Nagwa Vill. 79.08 Ha in Kharahi. For 4th viilage Karsualal(100.17 Ha.) compensation distribution is in progress.								
Critical issues		In lieu of cancellation of captive coal block, Coal linkage (5.5 MTPA) or any other coal sourcing is essential to run the plant. Return of expenditure incurred on Mahan Coal Block.						
Reasons for Delay		Delays primarily due to financial constraint with the developer.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
3.	Gorgi TPP (Dist. Singrauli) DB Power (MP) Ltd.	1	660	05/13 06/13	07/13	Uncertain		Unit-1 The site enabling activities like area grading etc has already completed. Construction of administrative building and hostel facility also completed. Excavation work in water reservoir area and chimney also started. Erection yet to be started. Work is on hold at site due to Financial crunch being faced by the developer. BoPs: In BoPs work yet to start.
Original 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									
4.	Niwari TPP (Dist. Narsinghpur) BLA Power Ltd.	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. * Assessed after restart of work. BoPs: Presently work at site has been put on hold.	
	Original Estd. Cost		: Rs.23249 Lakhs						
	Latest Est. Cost		: Rs.25049 Lakhs						
	Expenditure during 2010-11		: Rs. 5100 Lakhs						
	Expenditure during 2011-12		: Rs. 16880 Lakhs						
	Expenditure during 2012-13		: Rs. 5164 Lakhs						
	Expenditure during 2013-14		: Rs. 354 Lakhs						
	Expenditure during 2014-15		: Rs. 1503 Lakhs (upto 03/15)						
	Total Expenditure (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.)	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								
2	Nasik TPP, Ph-I (Distt: Nasik) M/s RattanIndia Nasik Power Ltd.(Formerly known as Indiabulls Realtech Ltd.)	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. TG 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.						
Critical issues		PPA, Completion of Railway Siding.						
Reasons for Delay		- Railway siding for coal transportation. - Finalization of PPA. - Rectification of defect in GIS switchyard by Siemens-Germany. - Fault in HT panel - Financial Constraints						
		Unit-2 Boiler erection started on 08.12.10. Boiler drum lifting completed on 27.07.11. Boiler HT (D) completed on 03.07.12. BLU achieved on 27.11.13. EDTA completed in 02/14. SBO started on 28.02.14 and completed on 14.03.14. TG erection started on 25.12.11. TG Box Up completed on 08.10.13. TG oil flushing completed on 31.12.13. TG put on BG on 10.03.14. Rolling completed on 31.03.14. Readiness of Railway siding by 03/16. GIS clearance received in 01/16. Clearance given to BHEL to start the work on 10.01.16. BHEL re-started work at site on 30.01.16. Coal synch. achieved on 21.03.16. Full load achieved on 15.02.17. TG Unit-3 Boiler Boiler erection started on 12.01.11. Boiler drum lifting completed on 12.12.11. Boiler HT completed on 30.10.13. BLU achieved on 03.10.16.SBO completed on 06.12.16. Synchn.& Commissioning achieved on 14.04.17. TG TG erection started on 19.01.12. TG boxed up in 10/16. TG put on BG on 27.01.17.TG rolling done on 04.03.17. Unit-4 Boiler Boiler erection started on 16.05.11. Boiler drum lifting completed on 23.12.11. Boiler HT is completed in 11/16. BLU achieved on 30.12.16. SBO completed on 13.02.17.Synchronisation achieved on 19.05.17. Commissioning achieved on 19.05.17. TG TG erection started in 05/12. TG box up completed on 24.01.17. TG oil flushing completed on 12.03.17. TG put on BG on 29.03.17. Unit-5 Boiler Boiler erection started on 16.06.11. Boiler drum lifting completed on 06.03.12.BLU achieved on 15.02.17. EDTA completed on 06.03.17. SBO completed on 24.03.17. Synchronization achieved on 30.05.17. Commissioning achieved on 30.05.17. TG TG erection started on 30.04.16. TG Box Up completed on 13.02.17. TG oil flushing completed on 17.04.17. TG put on BG on 28.04.17. BoPs: The order was placed on reputed Indian vendors. BoPs were common for all the five units and completed except Railway siding.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
3	Nasik TPP , Ph-II (Distt: Nasik) M/s RattanIndia Nasik Power Ltd.(Formerly known as Indiabulls Realtech Ltd.)	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.						

Vidh arbh a Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
4	Lanco Vidarbha TPP, (Distt: Wardha) M/s Lanco vidarbha Thermal Power Ltd.	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 MSEDCCL.					
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 MSEDCCL 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								
5	Bijora Ghanmukh TPP, (Distt: Yavatmal) M/s Jinbhuvish Power Generations Pvt. Ltd. (JPGPL)	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					
Latest Est. Cost			: Rs.345000 lakhs					
Expenditure during 03/14			: Rs 37475 lakh					
Expenditure during 2014-15			: Rs 4752 lakh					
Expenditure during 2015-16			: Rs - lakh					
Total Expenditure (Upto 03/15)			: Rs 42227 lakh					
Approval date:			:					
Zero date:			:					
Notice To Proceed (NTP)			:					
Financial closure			: Achieved (REC &PFC)					
Date of Main Plant Order (Boiler &TG from CWPC, China)			: BTG on EPC basis Contract awarded to M/s CWPC (China Western Power Corporation) (through ICB Route) on 28.09.11.					
BTG Make								
BOP on EPC basis								
Type of fuel			: Coal					
PPA			: Signed with PTC India Ltd.					
Source and supply of Fuel			: WCL(1.851MMT)					
Power Evacuation system			: Final connectivity on LILO from PGCIL Wardha-Parli D/C transmission line.					
			- FSA: Coal Linkage LOA received from WCL, however FSA is yet to be signed - Consent to Establish : Obtained from MPCB. - All statutory clearances are available. MOEF clearance received on 30.07.12. - Design & Engineering in progress. - Order for all BOPs on EPC basis has already been placed on M/s AEMPL on 26.05.14. The process of subletting package wise contract to reputed vendors was in progress. - Site leveling and grading was in progress. - Capacity revision from 2x250 MW to 2x300 MW accepted and issued letter on 19.03.14. - FSA is in process. All the milestones required under the terms of LOA have been completed. - PPA: MOA signed on 27.02.12 with PTC India Ltd. for sale of 430 MW (75%) on Long Term Basis and remaining 25% on merchant power basis. - Various site enabling works were in progress.					
Critical issues		Financial Issue						
Reasons for Delay		The schedule of implementation got revised due to change in capacity from 2x250 MW to 2x300 MW. Formal approval received on 19.03.14. Signing of FSA with WCL has to be expedited.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
6	Shirpur Power Private Ltd. Distt. Dhule, Maharashtra	1	150	12/14	02/15	07/17 07/17	08/17	Unit-1 & 2: Steam blowing of both the units completed. Main plant structural work completed.
		2	150	02/15	04/15	08/17 08/17	09/17	
	Original Estd. Cost		: Rs.241300 lakhs					
	Latest Est. Cost		: Rs. 241300 lakhs					
	Expenditure during 2011-12		: Rs 3368 lakh					
	Expenditure during 2012-13		: Rs 15821 lakh					
	Expenditure during 2013-14		: Rs 74610 lakh					
	Expenditure during 2014-15		: Rs 72102 lakh					
	Expenditure during 2015-16		: Rs 34176 lakh					
	Expenditure during 2016-17		: Rs 27686 lakh					
	Total Expenditure (Upto 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	6	600	07/14 08/14		05/17 08/17	08/17	• 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. Synchronization exp. In 05/17 • ESP: 8439 MT/ 9582 MT erected till 01/17. Erection work in all passes completed. • TG: TG erection started on 04/03/16 & blue matching of LP2 axial key is in progress. TG rotor received at site. Blue matching of MDBFP & TDBFP anchor plate is in progress • 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. 378186 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. Delay in handover of various civil fronts and inputs by BOP contractor to BTG contractor (BHEL). 2. Slow progress of Civil works and BOP works by the consortium led by Techpro systems Ltd. Now the consortium leader is changed to VA Tech and APGENCO is making direct payments to consortium partners.							
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		
				<u>Syn. Comm</u>	COD	<u>Syn. Comm</u>	COD	
State Sector								
2	Sri Damodaram Sanjeevaiah TPP St-II (Krishnapatnam) (APPDCL) Distt.Nellore	1	800	<u>02/19</u> 03/19	04/19	<u>02/19</u> 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, AP	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. • 523 / 628 piles at boiler area, 457/628 piles at ESP area and 388/1970 Piles at NDCT area completed. Boiler erection yet to start. • Construction of fencing, labour camp sheds etc. are in progress. • Excavation work in CHP area, Track Hopper area and in the Town ship area are in progress.
Original Estd. Cost		Rs. 5286.54 Crs.						
Latest Est. Cost		Rs. 5286.54 Crs.						
Expenditure during 2015-16		Rs. 207 Crs						
Expenditure during 2016-17		Rs. 230 Crs						
Total Expenditure		Rs. 437 Crs.						
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.	Capa- city (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, AP	3	350	01/12 05/12	06/12	11/17 12/17	12/17	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. Both side PA & FD fan erection in progress. HT done on 31/10/15. 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 & HIP turbine final box up completed on 14.02.17. Condenser front and rear water box erection completed. Final Box up expected shortly • Unit-4: Boiler: erection started in 22/09/14. Drum lifted on 31/07/15. Pile capping in mill area is in progress. HT expected in 08/17 and BLU expected in 11/17. • ESP: Pass A, B, C casing panel erection completed & collecting electrode frame erection is in progress. • TG: Condenser erection stated on 13/07/15. TG erection started on 29/10/15. All HP/LP heaters and vacuum pumps placed on foundation alignment work in progress. Final box up expected by 07/17. Condenser module 1-4 erection completed. • Chimney: All works completed & 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 completed. , fabrication work & structural work is in progress. 26% ash silo civil work completed. 90% bund making work is completed. 50000 sq.m HDPE lining works completed. Ash dyke cut off trench excavation completed and micro grading of 85000 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: Clarifloculator-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.	
		4	350	03/12 08/12	09/12	03/18 03/18	03/18		
	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.	13386.30 Lakhs (05/17)					
	Total Expenditure(up to 05/17)		: Rs	446661.3 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 Kandaluru 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. • 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	1	660	08/13	12/13	04/17	01/18	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	12/17	04/18		
	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 lr. Dt. 04/03/08 & revalidated up to 3rd March 2020. • Coal Linkage / FSA: LOA received from MCL for 4,273 MTPA on 11/06/2009. FSA to be signed. FSA signed with Global Fuels pvt Ltd Singapore for balance quantity of coal on 23/04/09 • BPTA: BPTA signed with PGCIL on 21/09/12.						
Critical issues		Signing of FSA. SLC to decide. Readiness of ATS from Plant to power grid pooling station at Palasa (42 km) by M/s East Coast. Allotment of land for railway siding, sea water intake pipelines and pump house by Govt. of A.P.							
Reasons for Delay		Law & Order problem, Financial problem of the company, acquisition of balance land for sea water intake & railway siding.							

BROAD STATUS OF THERMAL POWER PROJECTS IN TELANGANA

Sl. No.	Project Details	Unit No.	Capa- city (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Syn. Comm	COD	Syn. Comm	COD	
State Sector								
1	Kothagudem TPS –VII (TSGENCO) Distt. Kammam in 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 (24190.615 MT/40032.165 MT erected till 05/17 i.e 60.42% works completed). HT expected shortly and BLU expected in 10/17. ESP: 60.8% works completed (6732.698 MT/11073 MT Completed). • TG Deck: TG civil work started in 23/08/15. 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. 38% civil works completed. Wagon tippler and stacker cum reclaimers awarded to M/S TRF on 06/07/15 & 12/08/15 respectively. Inspection of equipment carried out at workshop. 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 start. • AHP : Civil work Awarded M/s SNC on 12.02.16. 34 % completed Ash Water Pump House 16/22 no’s rafts completed & Ash Slurry Pump House columns above plinth beam under process. Supply & erection package of Awarded to M/s OSM on 21.09.2015 • Cooling Tower: Awarded to M/s. Paharpur cooling towers ltd. on 04/03/16, work started on 12/07/16 and 41% work completed. • Chimney: Awarded to M/s. BIL on 16/05/15 and 71% work completed. • PT Plant, DM Plant, CW System, Fuel Oil Handling System Etc: Civil work Awarded to M/s. Punj Lloyd Ltd (PLL) and work in progress.
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. 20002.72 lakhs (05/17)						
Total Expenditure(Up to 05/17)		: Rs. 245154.42 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								
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: 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			
				<u>Syn. Comm</u>	COD	<u>Syn. Comm</u>	COD		
State Sector									
2	Bhadradi TPP (TSGENCO) Distt. Khammam	1	270	<u>01/17</u> 02/17	03/17	<u>11/17</u> 12/17	01/18	• Order placed on BHEL. Zero date commenced on 21/03/15. Soil/ Geotechnical investigations are in progress. Boiler erection yet to be started. *Work was held up due to order from National Green Tribunal (NGT) and Hon'ble NGT (SZ) Chennai has delivered the final judgment on 11/07/16. MoE&F clearance awaited.	
		2	270	<u>03/17</u> 04/17	05/17	<u>01/18</u> 02/18	03/18		
		3	270	<u>05/17</u> 06/17	07/17	<u>04/18</u> 05/18	06/18		
		4	270	<u>07/17</u> 08/17	09/17	<u>07/18</u> 08/18	09/18		
	Original Estd. Cost		Rs. 5044 Crs. (EPC cost)						
	Latest Est. Cost								
	Expenditure during 2015-16		Rs. 1000 Crs.						
	Total Expenditure								
	Approval date:								
	Zero date:		: 21.03.15						
	Financial closure								
	Main Plant Order		EPC order placed on BHEL on 21.03.15.						
	BOP Package								
	Type of fuel		Coal						
	PPA								
	Power Evacuation system								
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 TAMIL NADU

Sl. No.	Project Details	Unit No.	Cap-acity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				<u>Syn. Comm</u>	COD	<u>Syn. Comm</u>	COD	
State Sector								
1	Ennore SEZ SCTPP TANGEDCO (Distt. Thiruvallur)	1	660	<u>01/18</u> 01/18	03/18	<u>09/18</u> 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. • SG – BHEL – Alstom • TG – BHEL – Siemens
		2	660	<u>03/18</u> 03/18	05/18	<u>02/19</u> 03/19		
		Original Estd. Cost : Rs. 980000 Lakh (Includes cost of FGD, ECHS and IDC)						
		Latest Est. Cost						
	Expenditure during 2015-16		: Rs. 448.6 Crores					
	Total Expenditure(up to 10/16)		: Rs. 448.6 Crores					
	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(Mahanadi coal fields)					
	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									
2	Uppur SCTPP TANGEDCO at Distt. Ramnad, T.N.	1	800	02/19	11/19	NA	NA	• BTG & allied civil work related to BTG as one EPC package, order placed on BHEL on 27.02.16. (Boiler- Alstom, TG- Siemens and Generator- BHEL)	
		2	800	03/19					
	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 04/17)		: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)	1	800	02/19 03/19	04/19	02/19 03/19	04/19	- 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 - Geological investigation, Topographical survey/Soil investigation etc. completed, tree cutting and jungle clearing are in progress. - Casting of test piling works in BTG area completed and load test in piles are under progress. - TG layout drawing under approval and SG drawing is yet to submitted by BHEL. - Award for BOP packages LOI issued on 28/10/16 to M/s. BGRESL and project kick-off meeting held on 14/11/16. For seawater intake & out fall system as separate packages are under process. Tenders for both the packages called and Techno- commercial bid opened on 19/09/16 for BoP package and on 26/10/16 for seawater intake & out fall system. - Considering the revised emission norms , in principle approval was given to BHEL for making in boiler modification to achieve NOx reduction from 510 mg/Nm3 to 300 mg/Nm3 on 18.08.16 and commercial acceptance was given on 31.03.17.		
	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 6899.21 Lakhs									
	Total Expenditure (up to 03/17) : Rs. 6999.806 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 :Under TANTRANSCO scope.									
	- 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.									
	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)	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 08/17. • (4759/7000MT erected) • 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 GoTN 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 5421.38 Lakh						
Expenditure during 2014-15		:Rs. 23970 Lakh						
Expenditure during 2015-16		:Rs. 288.91 Lakh						
Expenditure during 2016-17		:Rs. 90276.6 Lakh						
Total Expenditure (up to 04/17)		:Rs. 143237.6 Lakh						
Approval date:								
Zero date:		: 14/07/2014						
Financial closure								
Main Plant Order		: 30/05/2014 (EPC) on M/s LANCO and lanco in turn awarded the BTG to Dong Fang electric corporation, China on 18/02/15. EPC cost Rs.3921.55crs. (revised)						
BOP Package								
Type of fuel		: COAL (70:30 Imported: Domestic Coal)						
PPA		PPA does not arise as the entire power is to be utilized by TANGEDCO.						
Power Evacuation system		Regarding Power Evacuation system is under TANRANSCO scope.						
• Letter of Acceptance for Main Plant Order (EPC) issued to M/s LANCO on 05/14 (27/02/14 as per 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								

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.	1	370 GT ST	03/17 03/18		03/17 03/18		• Main Plant: GT: Foundation raft concreting completed. Columns raising is in progress and GT erection started on 16-01-17. • ST: Foundation raft concreting of A, B & C rows completed. HRSG: 294/309 modules erection completed inside HRSG. All three drums (HP, IP & LP) erection completed. Pr parts erection is in progress. • Main plant Civil & Structural work: STG building foundation 90% completed & STG foundation under progress. • Electrical work: Construction power supply work has been completed and the system is commissioned. • BOPs: • Chimney: 23/23 Chimney shells erected up to 58.5-meter height. • CT: PCC completed and reinforcement work is in progress. • CW system: Excavation completed and foundation works are in progress • PTP: Engineering and tower foundation works in progress. • DM Plant: Column concreting work is in progress. • Switch Yard: Tower foundation work is in progress. • FPS: Civil work is in progress				
	Original Estd. Cost	:Rs 1571.18 Crs										
	Latest Est. Cost	: Rs. 1571.18 Crs										
	Expenditure during 2016-17	: Rs 215.668 Crs (up to March, 17)										
	Expenditure during 2017-18	: Rs 127.332 Crs (up to May, 17)										
	Total Expenditure	:Rs 343.00 Cr (up to 05/17)										
	Approval date:											
	Zero date:	: 09.11.2015										
	Financial closure	: 12 th Jan, 2017										
	Main Plant Order	: M/s BHEL										
	HRSG Civil Work	: M/s BHEL										
	Type of fuel	: Gas										
	PPA	: PPA agreement is under review.										
	Power Evacuation system	: KPTCL 220 KV Substation is ready for power evacuation and KPTCL submitted power evacuation scheme for approval.										
	• 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: Gas transmission agreement, Gas Supply agreement is under review and is in final stage. • 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		----									

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		08/17 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. Erection of mills under progress. Insulation and cladding of boiler and flue gas duct is under progress. HT done on 21/08/14. BLU is expected shortly with contingent scheme of raw water. • 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. MS Piping works under progress. Unit-9 • Boiler: Erection started on 02-12-12, Drum lifted on 15.09.13. HT(D) done on 21.09.14. Boiler is ready for BLU with one stream. Material is not available for completing 2nd stream. • 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. 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 that of unit#9 is in progress. • CW System: EOT crane erected. Erection of pumps and motors is in progress. Trail run is also under progress. • CHP: Wagon Tippler raft is completed. Heavy water percolation is observed in WT pit. Crusher house structural erection is under progress. Erection of rail track for SCR is completed. Structural erection of TP2 and TP3 along with cola galleries is in progress. • 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: Civil work carried by M/s McNally Bharat. Equipment foundation work is under progress. Clarified water pump house work in progress. • DM plant: Civil work carried by M/s McNally Bharat. Building work in progress. Erection of DM water tank and plant equipment completed. • FOS: HFO & LDO tanks erection completed. LDO & HFO skids placed in FOPH. Internal piping completed FOS is ready for use. • Switchyard: Order of civil works placed on M/s IP Infrapower Pvt. Ltd. 220kV switchyard charged on 01.03.16. Gravel spreading and switchyard fencing to be completed.	
		9	250	04/14 07/14		11/17 12/17	01/18		
		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. 4799.51 Cr (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.							
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	
State 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.	
Original Estd. Cost		: Rs.570000 Lakh Rs. 250000 Lakh						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	
Latest Est. Cost		:							
Expenditure during 2009-10		: Rs. 10641 Lakh Rs. Nil							
Expenditure during 2010-11		: Rs. 42437 Lakh Rs. 2825 Lakh							
Expenditure during 2011-12		: Rs.162489 Lakh Rs. 13845 Lakh							
Expenditure during 2012-13		: Rs. 32446 Lakh Rs. 3172 Lakh							
Expenditure during 2013-14		: Rs. 96502 Lakh Rs. 4760 Lakh							
Expenditure during 2014-15		: Rs. 37649 Lakh Rs. 63 Lakh							
Expenditure during 2015-16		Rs. 66430 Lakh Rs. ---							
Expenditure during 2016-17		Rs. 23265 Lakh Rs. ---							
Total Expenditure		Ph-I: Rs.4718.59 Cr. (till 12/16) Ph-II: Rs.246.65 Cr(till 3/15)							
Approval date:									
Zero date:									
Financial closure		Achieved							
Main Plant Order		Ph-I: 18/08/2008 - Main plant Civil & Structural work on Essar Projects (I) Ltd. BTG on M/s Harbin Power (HPE) Engineering, China in 11/ 2008 Ph-II: Main plant Civil works on EPI Ltd on 26/02/2010 BTG on HPE							
BOP Package		Order for BOP's placed on - 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 cool 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 (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). 20085 Nos. of Pressure parts joints completed. Foundation for Bunker structure, ID fan and Mills completed and erection in progress. HT expected shortly.Erection completion expected in 26 Mar,18 • ESP: 6615 MT Structural erection completed. All pass erection in progress. Civil work for ESP control room is underway for unit-3. Commissioning expected in 14/09/18. • TG: Deck casting completed. TG erection started on 30.07.2016. Alignment for HP and IP module completed. Generator rotor insertion completed. LP turbine erection and Excitor erection in progress.Auxiliary Equipment- Bunker Structure, APH, ID fan, Mills, Duct,ACW piping,LP piping, Critical piping, TDBFP,Condensor erection, Flash tanks, Electrical Panel erection, SPBD,MDBFP and other major auxiliaries erection in progress. • Unit-4: • Boiler: erection started on 29.05.2015. Boiler structural erection completed (12616 MT). 20067 Nos. of Pressure welding joints completed. HT expected in 10/17.Erection completion expected in 26, Mar18. • ESP: 7482 MT Structural erection completed (Pass A, B & C in progress). Commissioning expected in 24/11/18. • TG: 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. 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: Foundations of JTs, Crusher house completed and that of ERH, stacker cum re-claimer, trestles & Track hopper is in progress. Structural erection of Crusher house, TPs and Galleries is in progress. 8320 MT erection completed. • AHP: Civil works of surge hoppers, Silos, Ash water & slurry PH, Ash route pipe civil work are in progress. Pump erection in ASPH and panel erection in MCC room is in progress. • PT Plant: RW pipe laying in progress. Civil works of clarifiers A & B, Chemical house and Clarified storage tank in progress. Chlorination building civil work in progress. • DM Plant: Civil work completed. Mechanical and Electrical erection is in progress. Testing of MCC panel in progress. • CW System: CW pipe laying in progress. CWPH, fore-bay & channel, EOT cranes, CW pumps and pipes completed. Chlorination building civil works is in progress. • Fire Protection System: Pump house: Civil work completed, pumps erection done, piping work in progress. One fire water storage tank completed and 2 nd tank erection in progress. Fire hydrant and spray pipe laying work in progress. • FO System: Foundation completed and HFO tank erection is in progress. Fuel oil pump house civil works in progress. • CT: IDCT 3: Deck slab work is completed. Fills erection is in progress. Fan erection completed. IDCT 4: Civil works for CT-4 completed. Motor, fills and fan erection is in progress. .Control room constructed panels to be erected. • Switchyard: All major civil work and erection of gantry completed. 2 Nos GT erected and 3 rd received at site. Other works are 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 19896 lakhs till April,2017.							
	Total Expenditure		Rs 4431.25 Cr (up to 03/17)							
	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		1. Acquisition of land for rail track and its construction 2. 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)	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 08/17 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 07/17. Re-inspection & Oil flushing for barring gear expected in 08/17. 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 07/17 and F/A system completion expected in 08/17. - 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. Mainly financial constraints due TO non-disbursement of funds by financier.								

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status		
				Original		Actual(A)/ As Expected				
				Synch Comm	COD	Syn. Comm	COD			
Private Sector										
3.	Lanco Babandh TPP (Distt-Dhenkanal) (M/s Lanco Babandh Power Ltd.)	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 reclaimr 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 equipments 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)	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.	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							

ROAD 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	03/17 05/17	07/17	Unit-1 • Boiler: Boiler erection started on 25.03.14. Drum lifted on 04.12.14. Pressure part erection completed. HT(D) completed on 16/09/2015. BLU completed on 21.08.16. SBO completed 10.12.16. ID/FD/PA fan erection completed. Unit synchronized on 19-03-17. • ESP: Structural erection 2817/2817 MT completed. ESP is ready to use. • 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 expected in last week of 05/17. Unit-2 • Boiler: Boiler erection started on 25.06.14, Drum lifted in 23.02.15. 2016/2526 MT structural erection completed. HT(D) done on 16.09.16- Mills erection is in progress. Erection of ID/FD/PA is in progress. • ESP: 2049/2158 MT structural erection completed. Hopper erection is in progress. • TG: Deck casting completed.TG erection started on 05/05/16. TG box up expected in 03/17. Condenser erection in progress 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. • 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	09/17 10/17	11/17		
		3	150	05/16 05/16	05/16	01/18 02/18	03/18		
	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 76130 lakh							
	Expenditure during 2017-18	: Rs 733 lakh							
	Total Expenditure	Rs 3232.50 Cr. (up to 05/17)							
	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. Oil Flushing in HP BFP is done. Water line erection is in progress. ST:TG erection started in October'16. STG Generator placed on foundation. Oil Flushing in STG in progress. ST commissioning is expected in by 10/17 (Combined cycle). ST lower casing placed	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> - Completion of balance civil works by new civil agency. - Readiness of EOT crane. - 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	09/17 10/17			
	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 (12/16)		Rs 12160 Lakhs					
	Cumulative exp. up to(12/16)		Rs 57940Lakhs					
	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		A LILO of about 1 km will be constructed 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	HCSD	High Concentrated Slurry Disposal
27	HPT	High Pressure Turbine
28	HRH	Hot Re Heat
29	HT	Hydraulic Test
30	ID Fan	Induced Draft Fan
31	IDCT	Induced Draft Cooling Tower
32	IPT	Intermediate Pressure Turbine
33	LOA	Letter of Award
34	LPT	Low Pressure Turbine
35	MDBFP	Motor Driven Boiler Feed Pump
36	MGR	Merry Go Round
37	MOE&F	Ministry of Environment & Forests
38	MSL	Main Steam Line
39	NDCT	Natural Draft Cooling Tower
40	NTP	Notice To Proceed
41	PA Fan	Primary Air Fan
42	PHB	Power House Building
43	PPA	Power Purchasing 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 Tripler
55	WT Plant	Water Treatment Plant