



**भारत सरकार
विद्युत मंत्रालय**

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

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

September - 2016



**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.

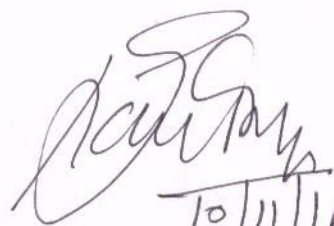
In this context, Thermal Project Monitoring Divisions, Central Electricity Authority have been bringing out monthly report entitled “Broad Status of Thermal Power Projects in the Country”. This report covers up-to-date information in respect of 12th plan thermal power projects under execution in the 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: 10th November, 2016


(Phool Chandra)
Chief Engineer (TPM-II)
10/11/16

Disclaimer

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 Programme:

1.1 Total Capacity Addition (MW) Programme During 12th Plan

SECTOR	THERMAL	HYDRO	NUCLEAR	TOTAL
CENTERAL	14877.6	6004	5300	26181.6
STATE	13922	1608		15530
PRIVATE	43540	3285		46825
TOTAL	72339.6	10897	5300	88536.6

1.2 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	3051	12056	16767	15234.3	110.06%
2014-15	2318.3	4260	14252	20830.3	14988.3	138.98%
2015-16	3295.6	6460	12705	22460.6	17346.1	129.49%
2016-17 (upto Oct-16)	25.5	750	2833	3608.5	13440.5	26.85%
Total	12322.7	18432	53033.5	83788.2		115.83%

1A Under Construction Thermal Power Projects (as on 31.10.2016) likely to be Commissioned during remaining period of 12th Plan and beyond are as follows:

SECTOR	CAPACITY (MW)
CENTRAL	25605
STATE	18980
PRIVATE	30155
TOTAL	74740

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	
								Envisaged at the beginning of year	Ant. /Act(A)
CENTRAL SECTOR									
Chhattisgarh	Sipat -I	NTPC	U-3	Apr-04	Others	660	660	06/12	02.06.12(A)
Haryana	Indira Gandhi TPP	APCPL	U-3	Jul-07	BHEL	500	500	12/12	07.11.12(A)
Jharkhand	Kodarma TPP	DVC	U-2	Jun-07	BHEL	500	500	12/12	15.02.13(A)
Maharashtra	Mouda TPP	NTPC	U-1	Nov-08	BHEL	500	500	07/12	19.04.12(A)
Maharashtra	Mouda TPP	NTPC	U-2	Nov-08	BHEL		500		29.03.13(A)
MP	Vindhyachal TPP-IV	NTPC	U-11	Jan-09	BHEL	500	500	07/12	14.06.12(A)
MP	Vindhyachal TPP-IV	NTPC	U-12	Jan-09	BHEL		500		22.03.13(A)
TN	Vallur TPP Ph-I	NTECL	U-2	Aug-07	BHEL	500	500	02/13	28.02.13(A)
Tripura	Tripura Gas	ONGC	Module-1	Jun-08	BHEL	363.3	363.3	11/12	03.01.13 (A)
UP	Rihand TPP-III	NTPC	U-5	Feb-09	BHEL	500	500	06/12	25.05.12(A)
			Total Central Sector			4023.3	5023.3		
STATE SECTOR									
Chhattisgarh	Korba West Extn.St.III TPP	CSEB	U-5		BEHL		500		22.03.13(A)
Chhattisgarh	Marwa TPP	CSEB	U-1	Apr-08	BHEL	500		02/13	Slipped
Delhi	Pragati CCGT - III	PPCL	GT-3	May-08	BHEL	250	250	08/12	27.06.12(A)
Gujarat	Pipavav CCPP	GSECL	Block-2	Dec-07	BHEL	351	351	01/13	27.03.13(A)
	Ukai TPP Extn	GSECL	U-6	Sep-07	BHEL	490	490	12/12	05.03.13(A)
Rajasthan	Ramgarh CCGT	RRVUNL	GT	Aug-09	BHEL	110	110	01/13	20.03.13(A)
	Ramgarh CCGT	RRVUNL	ST-1		BHEL	50		02/13	Slipped
MP	Satpura TPP Extn.	MPPGCL	U-10	Mar-08	BHEL	250	250	02/13	22.03.13(A)
TN	Mettur TPP Ext	TNEB	U-1	Aug-08	Chinese	600	600	06/12	11.10.12(A)
	North Chennai Extn.	TNEB	U-2	Aug-08	BHEL	600	600	03/13	09.03.13(A)
UP	Harduaganj Ext	UPRVUNL	U-9	Jun-06	BHEL	250	250	05/12	25.05.12(A)
	Parichha Extn	UPRVUNL	U-5	Jun-06	BHEL	250	250	06/12	24.05.12(A)
	Parichha Extn	UPRVUNL	U-6			250	250	09/12	11.03.13(A)
			Total -State Sector			3951	3911		
PRIVATE SECTOR									
AP	Simhapuri TPP Ph-1	Madhucon Projects Ltd.	U-2	Jan-09	Chinese	150	150	09/12	02.07.12(A)
	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)

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,CHIINA	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

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	Mutiar TPP	Coastal Energen	Chinese	Coal	Unit-1	25.02.2009		600	02.12.2014	
Chhattisgarh	Tamnar TPP (Raigarh)	Jindal Power	BHEL	Coal	Unit-3			600	07.01.2015	
Orissa	Derang TPP	JIPL	BHEL	Coal	U-2			600	24.01.2015	
TN	Neyveli TPS Ph-II Exp	NLC	BHEL	Coal	U-2			250	24.01.2015	
WB	Haldia TPP	M/s Haldia Energy Ltd.	Chinese	Coal	U-2			300	16.02.2015	
MP	Nigrie TPP	JP Ventures Ltd	Non-BHEL	Coal	U-2			660	17.02.2015	
Chhattisgarh	Raikhera TPP	GMR	Chinese	Coal	U-1			685	27.02.2015	
Maharashtra	Amravati TPP Ph-I	India Bulls Power Ltd	BHEL	Coal	U-4	30.11.09		270	04.03.2015	
AP	Simhapuri	Simhapuri Energy Pvt Ltd	Chinese	Coal	U-4			150	07.03.2015	
Maharashtra	Amravati TPP Ph-I	India Bulls Power Ltd	BHEL	Coal	U-5	30.11.09		270	12.03.2015	
MP	Sasan UMPP	SPL	Chinese	Coal	Unit-6			660	19.03.2015	
Tripura	Agartala CCPP	NEEPCO	Thermax	gas	ST-2			25.5	22.03.2015	
Chhattisgarh	DB Power TPP	DB Power Ltd	BHEL	Coal	Unit-2			600	24.03.2015	
Chhattisgarh	Tamnar TPP (Raigarh)	Jindal Power	BHEL	Coal	Unit-4			600	26.03.2015	
Gujarat	Sikka TPP Extn	GSECL	BHEL	Coal	U-3			250	28.03.2015	
Tripura	Monarchak gas power project	NEEPCO	BHEL	Gas	GT			65.4	30.03.2015	
								10602		
								20830.3		

2.3 Thermal Capacity Addition Target/ Achievement for the Year 2015-16

State	Project Name	Impl Agency	Unit No	BTG Supplier	Cap. (MW)	Anti. Comm. (beginning of the year)	Now Anti. Comm.	Cap. Add (MW)	Actual Date of Comm.
CENTRAL SECTOR									
Assam	Bongaigaon TPP	NTPC	U-1	BHEL	250	06/2015		250	22.06.15(A)
Bihar	Muzafferpur	NTPC	U-4	BHEL	195	02/2016	03/2016		
Bihar	Nabi Nagar TPP	NTPC	U-1	BHEL				250	20.03.16(A)
Jharkhand	Bokaro TPS "A" Exp.	DVC	U-1	BHEL				500	22.03.16(A)
Maharashtra	Mouda STPP-II	NTPC	U-3	BHEL				660	28.03.16(A)
MP	Vindhyachal TPP-V	NTPC	U-13	BHEL	500	12/2015		500	06.08.15(A)
Tripura	Agratala STG	NEEPCO	ST-2	Thermax	25.5	05/2015	01/2016		
Tripura	Monarchak CCPP	NEEPCO	ST	BHEL	35.6	08/2015		35.6	14.01.16(A)
TN	Tuticorin TPP	NLC	U-2	BHEL	500	07/2015		500	09.07.15(A)
WB	Raghunathpur TPP,Ph-I	DVC	U-2	Chinese	600	01/2016		600	18.01.16(A)
		Total Central Sector			2106.1			3295.6	
STATE SECTOR									
Chhattisgarh	Marwa TPP	CSPGCL	U-2	BHEL	500	09/2015	02/2016		
Gujarat	Sikka TPS	GSECL	U-4	BHEL	250	12/2015		250	25.09.15(A)
Karnataka	Bellary TPS St-III	KPCL	U-3	BHEL	700	12/2015	01/2016	700	01.03.16(A)
Karnataka	Yermarus TPP	KPCL	U-1	BHEL	800	01/2016	02/2016	800	29.03.16(A)
Maharashtra	Chandrapur TPS	MSPGCL	U-9	BHEL	500	10/2015	02/2016	500	21.03.16(A)
Maharashtra	Koradi TPS Expn.	MSPGCL	U-9	L&T	660	09/2015	02/2016	660	15.03.16(A)
Maharashtra	Koradi TPS Expn.	MSPGCL	U-10	L&T	660	02/2016	05/2016		
Maharashtra	Parli TPS	MSPGCL	U-8	BHEL	250	01/2016	03/2016	250	30.03.16(A)
Rajasthan	Kalisindh TPP	RVUNL	U-2	Chinese	600	05/2015		600	06.06.15(A)
Telangana	Singareni TPP	Singareni Collieries Co Ltd	U-1	BHEL	600	01/2016	03/2016	600	13.03.16(A)
Telangana	Kakatiya TPS Extn.	T GENCO	U-1	BHEL	600	12/2015	12/2015	600	31.12.15(A)
UP	Anpara-D TPS	UPRVUNL	U- 6	BHEL	500	06/2015		500	06.06.15(A)
UP	Anpara-D TPS	UPRVUNL	U- 7	BHEL	500	12/2015	02/2016	500	06.03.16(A)
WB	Sagardighi TPS-Extn	West Bengal	U-3	BHEL	500	09/2015	12/2015	500	14.12.15(A)
WB	Sagardighi TPS-Extn	West Bengal	U-4	BHEL	500	01/2016	06/2016		
		Total State Sector			8120			6460	
PRIVATE SECTOR									
AP	Painampuram TPP	Thermal Power Tech Corporation Ltd	U-2	Chinese	660	08/2015		660	03.09.15(A)
AP	Vizag TPP	Hinduja National Power Corp. Ltd	U-1	BHEL	520	10/2015	02/2015	520	27.12.15(A)
AP	Lanco Kondapalli Extn. Ph-III (PS)	Lanco Kondapalli Power Co.Ltd	Block-I	Others				371	07.08.15(A)
AP	Lanco Kondapalli Extn. Ph-III (PS)	Lanco Kondapalli Power Co.Ltd	Block-II	Others				371	05.09.15(A)
AP	Vemagiri CCPP-II (PS)	GMR Rajahmundry Energy Ltd.	Block-I	Others				384	12.09.15(A)
AP	Vemagiri CCPP-II (PS)	GMR Rajahmundry Energy Ltd.	Block-II	Others				384	05.10.15(A)
AP	Vizag TPP	Hinduja National Power Corp. Ltd	U-2	BHEL				520	30.03.16(A)
Chhattisgarh	Bandakhar TPP	M/s Maruti Clean (Chhattisgarh) Ltd.	U-1	Chinese	300	06/2015		300	19.06.15(A)
Chhattisgarh	Uchpinda TPP	RKM Powergen Pvt. Ltd	U-1	Chinese	360	06/2015		360	28.10.15(A)
Chhattisgarh	Uchpinda TPP	RKM Powergen Pvt. Ltd	U-2	Chinese				360	28.01.16(A)
Chhattisgarh	BALCO TPP	BALCO Pvt Ltd	U-1	Chinese	300	06/2015		300	05.06.15(A)
Chhattisgarh	BALCO TPP	BALCO Pvt Ltd	U-2	Chinese	300	09/2015	02/2016	300	24.03.16(A)
Chhattisgarh	Raikheda TPP	GMR	U-2	Doosan (Non-BHEL)	685	12/2015	02/2016	685	28.03.16(A)
Chhattisgarh	Salora	Vandana Vidyut	U-2	Chinese	135	09/2015	2016-17		
Maharashtra	Nasik TPP Ph-I	Ratan India (Nasik) Power Ltd	U-2	BHEL	270	01/2016	03/2016		
MP	Anuppur TPP Ph-I	MB Power(MP)	U-1	Chinese	600	06/2015		600	20.04.15(A)
M.P	Seoni TPP Ph-I	Jhabua Power Ltd	U-1	BHEL				600	22.03.16(A)
MP	Anuppur TPP Ph-I	MB Power(MP)	U-2	Chinese				600	30.03.16(A)
Orissa	Ind Bharat TPP (Orissa)	Ind Barath	U-1	Chinese	350	10/2015	01/2016	350	25.02.16(A)
Punjab	Talwandi Sabo TPP	Talwandi Sabo Power Ltd	U-2	Chinese	660	06/2015		660	30.10.15(A)
Punjab	Talwandi Sabo TPP	Talwandi Sabo Power Ltd	U-3	Chinese	660	12/2015	03/2016	660	29.03.16(A)
Punjab	Goindwal Sahib TPP	GVK Power	U-1	BHEL				270	14.02.16(A)
Punjab	Goindwal Sahib TPP	GVK Power	U-2	BHEL				270	15.03.16(A)
TN	ITPCL TPP	IL&FS TN PC.Ltd	U-1	Chinese				600	19.09.2015
TN	Melamaruthur (Mutia)	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

THERMAL CAPACITY ADDITION TARGET (RFD) FOR THE YEAR 2016-17									
	State	Project	Unit	Imp Agency	BTG Supplier	Capacity (MW)	At the beginning of the year	Actual date of comm.	Capacity Achieved
		<u>CENTRAL SECTOR</u>							
1	Bihar	Nabinagar TPP,	U-2	NTPC	BHEL	250	12-2016		
2	Maharashtra	Mauda STPP-II	U-4	NTPC	BHEL	660	12-2016		
3	Chhatisgarh	Lara STPP	U-1	NTPC	NON BHEL	800	01-2017		
4	Bihar	Kanti TPS St-II	U-4	NTPC	BHEL	195	09-2016		
5	Karnataka	Kudgi TPP	U-1	NTPC	NON BHEL	800	11-2016		
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			25.5
		<u>STATE SECTOR</u>							
1	Asam	Namrup CCGT	GT+ST	APGCL	BHEL	100	09-2016		
2	Bihar	Barauni TPP,	U-8	BSEB	BHEL	250	12-2016		
3	Gujarat	Bhavnagar TPP	U-1	BECL	BHEL	250	06-2016	16.05.2016	250.0
4	Gujarat	Bhavnagar TPP	U-2	BECL	BHEL	250	08-2016		
5	karnataka	Yermarus TPP	U-2	KPCL	BHEL	800	07-2016		
6	Maharashtra	Koradi TPP	U-10	MSPGCL	NON BHEL	660	08-2016		
7	Telangana	Singreni TPP	U-2	SCCL	BHEL	600	06-2016		
8	Chhatisgarh	Marwa TPS	U-2	CSPGCL	BHEL	500	06-2016	15.07.2016	500.0
9	West Bengal	Sagardighi TPS-II	U-4	WBPDC	BHEL	500	09-2016		
			Total State			3910			750.0
		<u>PRIVATE SECTOR</u>							
1	Chhatisgarh	Nawapara TPP	U-1	TRN	CHINESE	300	05-2016	14.08.2016	300.0
2	Chhatisgarh	Nawapara TPP	U-2	TRN	CHINESE	300	11-2016		
3	Uttar pradesh	Bara TPP	U-2	Jaypee	BHEL	660	07-2016	06.09.2016	660.0
4	Orissa	Utkal TPP	U-2	Ind Barath	NON BHEL	350	07-2016		
5	Chhatisgarh	Ucchpinda TPP	U-3	RKM	CHINESE	360	07-2016		
6	Tamilnadu	ITPCL TPP	U-2	ILFS	NON BHEL	600	05-2016	18.04.2016	600.0
7	Orissa	Lanco Babandh TPP	U-1	Lanco Babandh	NON BHEL	660	02-2017		
8	Uttar pradesh	Lalitpur TPP	U-3	LPGCL	BHEL	660	04-2016	01.04.2016	660.0
9	Maharashtra	Nashik TPP, Ph-I	U-2	Rattan Power	BHEL	270	06-2016		
10	Maharashtra	Nashik TPP, Ph-I	U-3	Rattan Power	BHEL	270	12-2016		
11	Andhra pradesh	NCC TPP	U-1	NCC	NON BHEL	660	09-2016		
12	Andhra pradesh	NCC TPP	U-2	NCC	NON BHEL	660	12-2016		
13	Chhatisgarh	Binjkote TPP	U-1	SKS	NON BHEL	300	11-2016		
14	Chhatisgarh	Athens Singhitarai TPP	U-1	Athens Chhattisgarh	NON BHEL	600	10-2016		
15	West Bengal	Haldia TPP	U-1	India Power	BHEL	150	07-2016		
			Total Private			6800			2220.0
			Total Thermal			13440.5			2995.5
<u>ADDITIONAL PROJECTS</u>	-	-							
		<u>PRIVATE SECTOR</u>							
1	Uttarakhand	GAMA CCPP Module-1	GT1&2 + ST	M/s GAMA Infraprop L	CHINESE			25.04.2016	225.0
2	Maharashtra	Mangaon CCPP	Block-1	PGPL	Others			14.07.2016	388.0
			Total Additional						613.0
			Grand Total Thermal			13440.5			3608.5

3.0 TARGET/ACHIEVEMENT OF THERMAL CAPACITY ADDITION DURING 12TH PLAN

AS ON 08-Nov-2016

Sector State	Project Name	Impl. Agency	Main Equip.	Unit No.	Cap. (MW)	Cap (MW) Achieved	Actual Comm. Date
THERMAL PROJECTS TARGETED FOR COMMISSIONING DURING 12TH PLAN							
<u>CENTRAL SECTOR</u>							
Assam	Bongaigaon TPP	NTPC	BHEL	U-1	250	250	22-06-15
				U-2	250	---	
				U-3	250	---	
Bihar	Barh STPP- I		OTHERS	U-1	660	---	
				U-2	660	---	
				U-3	660	---	
	Barh STPP-II		BHEL	U-4	660	660	30-11-13
				U-5	660	660	04-03-15
	Muzaffarpur TPP Exp			U-3	195	195	31-03-15
				U-4	195	---	
	Nabi Nagar TPP			U-1	250	250	20-03-16
				U-2	250	---	
				U-3	250	---	
				U-4	250	---	
Chhattisgar	Sipat-I		OTHERS	U-3	660	660	02-06-12
Haryana	Indira Gandhi TPP	APCPL	BHEL	U-3	500	500	07-11-12
Jharkhand	BokaroTPS "A"Exp.	DVC		U-1	500	500	22-03-16
	Koderma TPP			U-2	500	500	15-02-13
Maharashtra	Mouda TPP	NTPC		U-1	500	500	19-04-12
				U-2	500	500	29-03-13
MP	Vindhyachal TPP-IV			U-11	500	500	14-06-12
				U-12	500	500	22-03-13
TN	Neyveli TPS-II Exp.	NLC		U-2	250	250	24-01-15
	Tuticorin JV			U-1	500	500	10-03-15
				U-2	500	500	09-07-15
	Vallur TPP Ph I	NTECL		U-2	500	500	28-02-13
	Vallur TPP-II			U-3	500	500	28-02-14
Tripura	Monarchak CCPP	NEEPCO		GT	65.4	65.4	30-03-15
				ST	35.6	35.6	14-01-16
	Tripura Gas	OTPC		Module-1	363.3	363.3	03-01-13
				Module-2	363.3	363.3	16-11-14
UP	Rihand STPS- III	NTPC		U-5	500	500	25-05-12
				U-6	500	500	07-10-13
WB	Raghunathpur TPP, Ph-I	DVC	CHINESE	U-1	600	600	24-08-14
				U-2	600	600	18-01-16
Sub Total :					14877.6	11452.6	
<u>STATE SECTOR</u>							
AP	Damodaram Sanjeevaiah TPS	APPDL	Non-BHEL	U-1	800	800	28-08-14
				U-2	800	800	17-03-15
Assam	Rayalseema St-IV U-6 Namrup CCGT	APGENCO APGCL	BHEL	U-6	600	---	
				GT	70	---	
				ST	30	---	
Chhattisgar	Korba West St-III. Marwa TPP	CSPGCL		U-5	500	500	22-03-13
				U-1	500	500	30-03-14
				U-2	500	500	15-07-16
Delhi	Pragati CCGT - III	PPCL		GT-3	250	250	27-06-12
				GT-4	250	250	07-05-13
				ST-2	250	250	26-02-14
Gujarat	Pipavav CCPP	GPPCL		Block-1	351	351	05-02-14
				Block-2	351	351	27-03-13
	Sikka TPS Extn.	GSECL		U-3	250	250	29-03-15
	Ukai TPP Extn.			U-6	500	500	05-03-13
Maharashtra	Chandrapur TPS Extn.	MSPGCL		U-8	500	500	29-03-15
	Koradi TPS Expn.		NON-BHEL	U-8	660	660	30-03-15

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Sector State	Project Name	Impl. Agency	Main Equip.	Unit No.	Cap. (MW)	Cap (MW) Achieved	Actual Comm. Date
Maharashtra MP	Parli TPS Expn.	MSPGCL	BHEL	U-8	250	250	30-03-16
	Malwa TPP (Shree Singa ji TPP)	MPGENCO		U-1	600	600	18-11-13
				U-2	600	600	15-10-14
	Satpura TPS Extn	MPPGCL		U-10	250	250	22-03-13
Rajasthan				U-11	250	250	25-12-13
	Chhabra TPS Extn	RRVUNL		U-3	250	250	14-09-13
				U-4	250	250	30-06-14
	Kalisindh TPP		CHINESE	U-1	600	600	02-05-14
TN	Ramgarh CCPP Extn. -		BHEL	GT	110	110	20-03-13
				ST	50	50	01-05-14
	Mettur TPP Ext	TANGEDCO	CHINESE	U-1	600	600	11-10-12
	North Chennai Extn, U-2		BHEL	U-2	600	600	09-03-13
UP	North Chennai TPS Extn, U-1			U-1	600	600	13-09-13
	Anpara-D TPS	UPRVUNL		U- 6	500	500	06-06-15
				U-7	500	500	06-03-16
	Harduaganj Ext			U-9	250	250	25-05-12
	Parichha Extn			U-5	250	250	24-05-12
				U-6	250	250	11-03-13
Sub Total :					13922	13222	
<u>PRIVATE SECTOR</u>							
AP	Bhavanpadu TPP	M/s East Coast Energy Ltd.	CHINESE	U-1	660	---	
				U-2	660	---	
	NCC TPP	NCC Power Projects Ltd		U-1	660	---	
				U-2	660	---	
	Painampuram TPP	Thermal Power Tech Corporation Ltd		U-1	660	660	07-02-15
				U-2	660	660	03-09-15
	Simhapuri Energy Pvt.Ltd Ph-I	Madhucon Projects Ltd		U-2	150	150	02-07-12
	Thamminapatnam TPP-I	Meenakshi Energy Pvt. Ltd		U-1	150	150	09-09-12
				U-2	150	150	17-04-13
	Thamminapatnam TPP-II			U-3	350	---	
				U-4	350	---	
	Vizag TPP	Hinduja National Power Corp. Ltd	BHEL	U-1	525	520	27-12-15
				U-2	525	520	31-03-16
				U-1 (3rd)	600	600	13-08-13
Chhattisgar				U-2 (4th)	600	600	22-08-14
				U-3(2nd)	600	---	
	Avantha Bhandar TPP, U-1	Korba West Power Co. Ltd.	BHEL	U-1	600	600	31-03-14
	Badadarha TPP	D.B. Power Ltd		U-1	600	600	23-02-14
				U-2	600	600	24-03-15
	Balco TPP	Bharat Aluminium Co. Ltd	CHINESE	U-1	300	300	04-06-15
				U-2	300	300	24-03-16
	Bandakhar TPP	M/s Maurti Clean Coal & Power Ltd		U-1	300	300	19-06-15
	Binjkote TPP	SKS Power Gen.(Chhattisgarh Ltd)		U-1	300	---	
				U-2	300	---	
				U-3	300	---	
	Kasaipalli TPP	ACB India Ltd.		U-2	135	135	21-06-12
	Lanco Amarkantak TPS-II	LAP Pvt. Ltd.		U-3	660	---	
				U-4	660	---	
	Nawapara TPP (TRN Energy TPP)	M/s TRN Energy Pvt.		U-1	300	300	14-08-16
				U-2	300	---	
	Ratija TPP	Spectrum Coal & Power Ltd		U-1	50	50	04-02-13

<i>Sector State</i>	<i>Project Name</i>	<i>Impl. Agency</i>	<i>Main Equip.</i>	<i>Unit No.</i>	<i>Cap. (MW)</i>	<i>Cap (MW) Achieved</i>	<i>Actual Comm. Date</i>
Chhattisgarh	Salora TPP	M/s Vandana Vidyut	CHINESE	U-1	135	135	10-04-14
				U-2	135	---	
	Singhitarai TPP	Athena Chhattisgarh Power Ltd.		U-1	600	---	
	Swastic TPP	M/s ACB	NON-BHEL	U-1	25	25	31-03-15
	Tamnar TPP (Raigarh)	O.P.Jindal	BHEL	U-1	600	600	10-03-14
				U-2	600	600	30-03-14
	Uchpinda TPP	RKM Powergen Pvt. Ltd	CHINESE	U-1	360	360	28-10-15
				U-2	360	360	28-01-16
				U-3	360	---	
				U-2	800	800	25-07-12
Gujarat	Mundra UMPP	Tata Power Co.	OTHERS	U-2	800	800	25-07-12
	Salaya TPP	Essar Power Gujarat Ltd.	CHINESE	U-2	600	600	13-06-12
Haryana	Jajjar TPP (Mahatama Gandhi TPP)	CLP Power India Pvt. Ltd		U-2	660	660	11-04-12
Jharkhand	Mahadev Prasad TPP Ph-I	Adhunik Power Co.Ltd	BHEL	U-1	270	270	19-11-12
				U-2	270	270	29-03-13
	Mata shri Usha TPP-Ph-I	M/s Corporate Power Ltd		U-1	270	---	
Maharashtra				U-2	270	---	
	Amravati TPP Ph-I	Ratan India Power Pvt		U-1	270	270	25-03-13
				U-2	270	270	17-02-14
				U-3	270	270	29-01-15
				U-4	270	270	04-03-15
				U-5	270	270	12-03-15
	Bela TPP-I	IEPL		U-1	270	270	20-03-13
	Butibori TPP Ph-II	Vidarbha Industries Power	CHINESE	U-1	300	300	17-08-12
	Dhariwal Infracture TPP	Dhariwal Infracture (P)		U-1	300	300	03-11-13
				U-2	300	300	28-05-14
	EMCO Warora TPP	EMCO Energy Ltd.(GMR)		U-1	300	300	07-02-13
				U-2	300	300	27-08-13
	GEPL TPP	GEPL		U-1	60	60	08-09-12
				U-2	60	60	28-04-12
	Lanco Vidarbha TPP	Lanco Vidarbha		U-1	660	---	
				U-2	660	---	
	Nasik TPP Ph-I	Ratan India Nasik Power Pvt Ltd.	BHEL	U-1	270	270	25-02-14
				U-2	270	---	
				U-3	270	---	
				U-4	270	---	
				U-5	270	---	
MP	Tirora TPP Ph-I	Adani Power Ltd	CHINESE	U-1	660	660	11-09-12
				U-2	660	660	25-03-13
	Tirora TPP Ph-II			U-1	660	660	10-06-13
	Anuppur TPP Ph-I	MB Power MP		U-1	600	600	20-04-15
				U-2	600	600	30-03-16
	Bina TPP	Bina Power Supply Co.	BHEL	U-1	250	250	12-08-12
				U-2	250	250	31-03-13
	Gorgi TPP (DB Power)	D.P Power (MP) Ltd		U-1	660	---	
	Sasan UMPP	Reliance Power Ltd.	CHINESE	U-2	660	660	18-12-13
				U-3	660	660	30-05-13
Orissa	Seioni TPP Ph-I	Jhabua Power Ltd	BHEL	U-1	600	600	22-03-16
	Derang TPP	JITPL		U-1	600	600	10-05-14
	Ind Bharat TPP (Orissa)	Ind. Bharat	CHINESE	U-1	350	350	25-02-16
				U-2	350	---	
	Kamalanga TPP	GMR		U-1	350	350	28-03-13
				U-2	350	350	28-09-13
Punjab				U-3	350	350	21-03-14
	KVK Nilanchal TPP	KVK Nilanchal		U-1	350	---	
	Lanco Babandh TPP	Lanco Babandh Power Ltd		U-1	660	---	
	Sterlite TPP	Sterlite Energy Ltd.		U-4	600	600	25-04-12
	Goindwal Sahib TPP	GVK Power	BHEL	U-1	270	270	14-02-16

Sector State	Project Name	Impl. Agency	Main Equip.	Unit No.	Cap. (MW)	Cap (MW) Achieved	Actual Comm. Date
Punjab	Goindwal Sahib TPP	GVK Power	BHEL	U-2	270	270	15-03-16
		Rajpura TPP (Nabha)	Nabha Power Ltd	NON-BHEL	U-1	700	700
	Talwandi Sabo TPP		M/s Sterlite	CHINESE	U-2	700	700
		U-1			660	660	17-06-14
		U-2			660	660	30-10-15
		U-3			660	660	29-03-16
Rajasthan	Jallipa-Kapurdi TPP	Raj West Power Ltd.(JSW)	U-5	135	135	05-02-13	
			U-6	135	135	03-03-13	
TN	Tuticorin TPP (Ind-Barath TPP)	IBPIL		U-1	660	---	
UP	Prayagraj (Bara) TPP	Prayagraj power Gen. Co.Ltd(J.P.Power Ventures)	BHEL	U-1	660	660	25-12-15
				U-2	660	660	06-09-16
				U-3	660	---	
WB	Haldia TPP-I	M/s Haldia Energy Ltd.	CHINESE	U-1	300	300	14-01-15
				U-2	300	300	16-02-15
Sub Total :					43540	29695	
Total :					72339.6	54369.6	

ADDITIONAL PROJECTS LIKELY TO BE COMMISSIONED DURING 12TH PLAN AND BEYOND

CENTRAL SECTOR

Bihar	New Nabi Nagar TPP	NTPC	NON-BHEL	U-1	660	---	
				U-2	660	---	
				U-3	660	---	
Chhattisgar	Lara STPP			U-1	800	---	
				U-2	800	---	
				U-3	800	---	
Jharkhand	North Karanpura TPP		BHEL	U-1	660	---	
				U-2	660	---	
				U-3	660	---	
Karnataka	Kudgi STPP Ph-I		NON-BHEL	U-1	800	---	
				U-2	800	---	
				U-3	800	---	
Maharashtra	Mouda STPP-II		BHEL	U-3	660	660	28-03-16
				U-4	660	---	
				U-1	660	---	
MP	Gadarwara STPP		NON-BHEL	U-2	660	---	
				U-1	800	---	
				U-2	800	---	
Orissa	Vindhyachal TPP-V		NON-BHEL	U-1	660	---	
				U-2	660	---	
				U-13	500	500	06-08-15
Telangana	Telangana Ph-I			U-1	800	---	
				U-2	800	---	
				U-1	800	---	
TN	Neyveli New TPP	NLC		U-1	500	---	
				U-2	500	---	
				U-1	500	---	
Tripura	Agartala CCPP	NEEPCO	NON-BHEL	ST-1	25.5	25.5	23-08-16
				ST-2	25.5	25.5	22-03-15
				U-1	660	---	
UP	Ghatampur TPP	JV of NLC and UPRVUNL		U-2	660	---	
				U-3	660	---	
				U-1	660	---	
	Meja STPP	JV of NTPC & UPRVUNL	NON-BHEL	U-1	660	---	
				U-2	660	---	
	Tanda TPS -II	NTPC		U-1	660	---	
				U-2	660	---	
	Unchahar TPS St-IV		BHEL	U-6	500	---	
Sub Total :					23391	1211	

<i>Sector State</i>	<i>Project Name</i>	<i>Impl. Agency</i>	<i>Main Equip.</i>	<i>Unit No.</i>	<i>Cap. (MW)</i>	<i>Cap (MW) Achieved</i>	<i>Actual Comm. Date</i>
<u>STATE SECTOR</u>							
AP	Dr.Narla Tata Rao TPS St-V	APGENCO		U-1	800	---	
	Sri Damodaran Sanjeevaiah TPP St-II			U-1	800	---	
Bihar	Barauni TPS Extn	BSEB	BHEL	U-8	250	---	
				U-9	250	---	
Gujarat	Bhavnagar CFBC TPP	Bhavnagar Energy		U-1	250	250	16-05-16
				U-2	250	---	
	Dhuvaran CCPP-III	GSECL	OTHERS	Block-1	376.1	376.1	21-05-14
	Sikka TPS Extn.		BHEL	U-4	250	250	25-09-15
	Wankbori TPS Extn			U-8	800	---	
Karnataka	Bellary TPP St-III	KPCL		U-3	700	700	01-03-16
	Yelahanka CCPP			GT+ST	370	---	
	Yermarus TPP		BHEL	U-1	800	800	29-03-16
				U-2	800	---	
Maharashtra	Chandrapur TPS Extn.	MSPGCL		U-9	500	500	21-03-16
	Koradi TPS Expn.		NON-BHEL	U-10	660	---	
				U-9	660	660	15-03-16
MP	Shree Singaji TPP Phase-II	MPGENCO		U-3	660	---	
				U-4	660	---	
Orissa	IB Valley TPP	OPGCL	BHEL	U-3	660	---	
				U-4	660	---	
Rajasthan	Chhabra Super Critical TPP.	RRVUNL		U-5	660	---	
				U-6	660	---	
	Kalisindh TPP		CHINESE	U-2	600	600	06-06-15
	Suratgarh TPS		BHEL	U-7	660	---	
				U-8	660	---	
Telangana	Bhadradi TPP (Manuguru)	TGENCO		U-1	270	---	
				U-2	270	---	
				U-3	270	---	
				U-4	270	---	
	Kakatiya TPS Extn	T GENCO		U-1	600	600	31-12-15
	Kothagudem TPS St-VII	TGENCO		U-1	800	---	
	Singareni TPP	Singareni Collieries Co. Ltd		U-1	600	600	13-03-16
				U-2	600	---	
TN	Ennore Super Critical TPP	TANGEDCO		U-1	660	---	
				U-2	660	---	
	Ennore TPP Expansion	Lanco	Chinese	U-1	660	---	
	North Chennai St-III	TANGEDCO		U-1	800	---	
	Uppur Super Critical TPP			U-1	800	---	
				U-2	800	---	
Tripura	Rokhia CCPP	Govt.of Ttipura	BHEL	GT-9	21	21	31-08-13
UP	Harduaganj Expn II	UPRVUNL	Non-BHEL	U-1	660	---	
WB	Durgapur TPS Extn U-8	DPL	BHEL	U-8	250	250	31-03-14
	Sagardighi TPS-II	WBPDCCL		U-3	500	500	14-12-15
				U-4	500	---	
Sub Total :					24387.1	6107.1	
<u>PRIVATE SECTOR</u>							
AP	Lanco Kondapalli CPP Expn. St.III	Kondapalli Power Pvt.	Others	Module-1	371	371	07-08-15
				Module-2	371	371	05-09-15
	Simhapuri Energy Pvt Ltd Ph-II	Madhucon Projects Ltd.	CHINESE	U-3	150	150	21-02-14
				U-4	150	150	06-03-15
	Vemagiri CCPP-II	GMR Rajahmundry Energy Ltd.	OTHERS	Block-I	384	384	12-09-15
				Block-II	384	384	05-10-15

<i>Sector State</i>	<i>Project Name</i>	<i>Impl. Agency</i>	<i>Main Equip.</i>	<i>Unit No.</i>	<i>Cap. (MW)</i>	<i>Cap (MW) Achieved</i>	<i>Actual Comm. Date</i>
Bihar	Jas Infra TPP Ph-I	JICPL	CHINESE	U-1	660	---	
				U-2	660	---	
				U-3	660	---	
				U-4	660	---	
Chhattisgarh	Akaltara (Naiyara) TPP	KSK Mahandi Power Company Ltd		U-4 (5th)	600	---	
				U-5(1st)	600	---	
				U-6	600	---	
				U-4	300	---	
	Binjkote TPP	SKS Power Gen.(Chhattisgarh Ltd)		U-4	300	---	
	Chakabura TPP	ACB India	NON-BHEL	U-1	30	30	28-03-14
	Deveri TPP (Visa TPP)	Visa Power Ltd	BHEL	U-1	600	---	
	Raigarh						
	Raikheda TPP	GMR	NON-BHEL	U-1	685	685	27-02-15
Gujarat	Ratija TPS-II	Spectrum Coal & Power Ltd		U-2	685	685	28-03-16
				U-2	50	---	
	Singhitarai TPP	Athena Chhattisgarh Power Ltd.	CHINESE	U-2	600	---	
	Tamnar TPP (Raigarh)	O.P.Jindal	BHEL	U-3	600	600	07-01-15
				U-4	600	600	28-03-15
	Uchpinda TPP	RKM Powergen Pvt. Ltd	CHINESE	U-4	360	---	
	DGEN Mega CCPP	Torrent Energy Ltd	OTHERS	Module-1	400	400	12-01-14
				Module-2	400	400	23-04-14
				Module-3	400	400	09-03-14
				U-3	800	800	16-10-12
	Mundra UMPP	Tata Power Co.		U-4	800	800	16-01-13
				U-5	800	800	18-03-13
				Module-1	382.5	382.5	20-01-13
Jharkhand	Unosugen Mega CCPP	Torrent Energy Ltd Corporate Power Ltd	BHEL	U-3	270	---	
				U-4	270	---	
	Tori TPP	Essar Power	CHINESE	U-1	600	---	
				U-2	600	---	
Maharashtra	Tori TPS Ph-II			U-1	600	---	
				U-1	270	---	
				U-2	270	---	
				U-3	270	---	
	Amravati TPP Ph-II	Ratan India Power Pvt	BHEL	U-4	270	---	
				U-5	270	---	
				U-1	270	---	
				U-2	270	---	
	Bijora Ghanmukh TPP	M/s Jinbhuvish Power Gen. Pvt.Ltd.	CHINESE	U-1	300	---	
				U-2	300	---	
				U-2	300	300	31-03-14
				Block-1	388	388	14-07-16
	Butibori TPP Ph-II	Vidarbha Industries Power PGPL	Others	U-1	270	---	
				U-2	270	---	
				U-3	270	---	
				U-4	270	---	
MH	Nasik TPP Ph-II	Ratan India Nasik Power Pvt Ltd.	BHEL	U-5	270	---	
				U-1	270	---	
				U-2	270	---	
				U-3	270	---	
	Shirpur Power Pvt. Ltd.	Shirpur Power		U-4	270	---	
				U-5	270	---	
				U-1	150	---	
				U-2	150	---	
	Tirora TPP Ph-II	Adani Power Ltd	CHINESE	U-2	660	660	23-03-14
				U-3	660	660	25-09-14
MP	Mahan TPP	Essar Power MP Ltd		U-1	600	600	24-02-13
				U-2	600	---	
	Nigri TPP	Jaiprakash Power Ventures Ltd	NON-BHEL	U-1	660	660	29-08-14
				U-2	660	660	17-02-15
	Niwari TPP	BLA Power Ltd		U-1	45	45	10-12-13
				U-2	45	---	
	Sasan UMPP	Reliance Power Ltd.	CHINESE	U-1	660	660	21-05-14

<i>Sector State</i>	<i>Project Name</i>	<i>Impl. Agency</i>	<i>Main Equip.</i>	<i>Unit No.</i>	<i>Cap. (MW)</i>	<i>Cap (MW) Achieved</i>	<i>Actual Comm. Date</i>
MP	Sasan UMPP	Reliance Power Ltd.	CHINESE	U-4	660	660	25-03-14
				U-5	660	660	24-08-14
				U-6	660	660	19-03-15
Orissa	Derang TPP	JITPL	BHEL	U-2	600	600	24-01-15
	KVK Nilanchal TPP	KVK Nilachal	CHINESE	U-2	350	---	
				U-3	350	---	
	Lanco Babandh TPP	Lanco Babandh Power Ltd		U-2	660	---	
	Malibrahmani TPP (Monnet Ispat)	MPCL	BHEL	U-1	525	---	
				U-2	525	---	
Rajasthan	Jallipa-Kapurdi TPP	Raj West Power Ltd.(JSW)	CHINESE	U-7	135	135	16-03-13
				U-8	135	135	28-02-13
	Kawai TPP	Adani Power Ltd.		U-1	660	660	28-05-13
				U-2	660	660	24-12-13
TN	ITPCL TPP	IL&FS Tamil Nadu Power Company Ltd		U-1	600	600	19-09-15
				U-2	600	600	18-04-16
	Melamaruthur TPP	Coastal Energen		U-1	600	600	02-12-14
				U-2	600	600	02-01-16
	Tuticorin TPP-II(Ind barath)	Ind Barath		U-1	150	150	31-01-13
				U-2	150	150	30-12-13
UP	Tutuicorin TPP St-IV	SEPC	BHEL	U-1	525	---	
	Lalitpur TPP	Lalitpur power Generation Co. Ltd		U-1	660	660	26-03-16
				U-2	660	660	08-01-16
				U-3	660	660	01-04-16
Uttarakhand	Gama CCPP	GIPL	GT+ST		225	225	25-04-16
WB	India Power TPP	Haldia Energy Ltd.		U-1	150	---	
				U-2	150	---	
				U-3	150	---	
Sub Total :					38420.5	22100.5	
Total :					86198.6	29418.6	
Over All Total:					158538.2	83788.20	

CENTRAL SECTOR

**BROAD STATUS OF CENTRAL SECTOR THERMAL POWER PROJECTS
(NATIONAL THERMAL POWER CORPORATION)**

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 Mar’11. Boiler Hydro Test completed on 28.02.13. Boiler light up expected by Jan,17. Bunkers, mills erected. Tipper, feeders to be made ready. Coal piping & PA ducting to be made ready.
	U-1	660	03/09 08/09 05/17* 05/17*	06/17	04/17 05/17	07/17	TG: TG erection started in Aug’11. TG Box up completed on 28/12/13. TG oil-flushing completion expected by Nov, 16.
	U-2	660	01/10 06/10 11/17* 11/17*	12/17	10/17 11/17	01/18	Unit-2: Boiler: Boiler erection started in Jul’11. Boiler Hydro Test expected by May,17.
	U-3	660	11/10 04/11 05/18* 05/18*	06/18	04/18 05/18	07/18	TG: TG erection started in Sept’11. TG Box up completed in Jan’15. TG oil-flushing completion expected by May,17.
	(*Revised as per award of balance works of SG package dated 30.01.16)						Unit-3: Boiler: Boiler erection started in Jan’12. Boiler Hydro Test expected by Nov’17.
	Investment Approval						TG: TG erection started in Mar’12. TG box-up expected by Sep’17.
	Sanctioning Authority						Balance of Plant:
	Orig.Est. cost						Chimney: All works in one bi- flue chimney for unit- 1 & 2 and one single chimney for unit- 3 are completed.
	Latest.Est. Cost						
	Cum Exp. upto 2009						CHP: CHP structural erection is completed. Equipment erection up to U-1 completed.
	Exp during 2009-10						
	2010-11						
	2011-12						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.
	2012-13						
	2013-14						
2014-15							
2015-16							
2016-17						Ash dyke: All works in Ash Dyke completed.	
Cumulative Exp (up to Aug’16)						IDCTs: All works in Cooling Towers are completed.	
Type of fuel							
Fuel linkage						#SG contract to M/s TPE was terminated on 14.01.2015.	
Date of Main Plant Order (BTG)						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.	
TG : 03/2005 on M/s Power Machines Russia							
Zero Date							
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, 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. Unit achieved full load on 22/06/15. COD achieved on 01.04.2016. Unit-2: Boiler: Boiler Erection started on 3/10 & Drum lifted in 10/10.Hydro test done in 04/12. BLU done on 27.03.16. Steam blowing completion expected by 10/16. ESP: Erection works of all the four passes (A to D) are completed. Air tightness test (ATT) is also completed. TG: TG erection started in 01/16. TG Box up expected by 12/16. 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 12/16. ESP: 02 passes of ESP erection completed. ATT for these 02 passes also completed. TG: TG deck casting done in 03/16. TG erection expected to start in 10/16. TG box up expected in 05/17. Balance of Plant: Chimney: Order placed on M/s Gammon. Chimney shell portion completed. 03 nos. of Flue cans erection competed. CHP: Order placed on M/s McNelly Bharat in Jan'10. There are two nos. of wagon tipplers in this project. 01 no. of wagon tippler is already commissioned. AHP: Order placed on M/s McNelly Bharat in Jun'09. IDCTs: Order placed on M/s PCT. <i>Owing to poor performance of main plant civil agencies (SPML, Punjlloyd) their contracts were terminated on 25.11.13. Balance works of U-2&3 awarded to NBCC on 29/09/14. NBCC finalized its sub agencies on 06/01/15 and construction works commenced in Feb'15 due to delay in mobilization by M/s NBCC.</i>
	U-1	250	11/10 01/11	-	06/15 22/06/15	04/16	
	U-2	250	03/11 05/11	-	02/17 03/17	06/17	
	U-3	250	07/11 09/11	-	06/17 07/17	09/17	
	Investment Approval	: 30/01/2008					
	Org.Est. cost	: Rs. 437535 Lakhs					
	Latest cost	: Rs. 674918 Lakhs					
	Exp. During 2007-08	: Rs. 23831 Lakhs					
	Exp. During 2008-09	: Rs. 16046 lakhs					
	Exp. During 2009-10	: Rs 70913 lakhs					
	Exp. During 2010-11	: Rs 56300 lakhs					
	Exp. During 2011-12	: Rs 137610 Lakhs					
	Exp. During 2012-13	: Rs. 74900 Lakhs					
	Exp. During 2013-14	Rs. 68500 Lakhs					
	Exp. During 2014-15	: Rs. 65700 Lakhs					
	Exp. During 2015-16	: Rs. 78700 Lakhs					
	Exp. During 2016-17	: Rs. 22800 Lakhs					
	Cumulative Exp. (Up to Aug'16)	: Rs. 618700 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 manpower 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 labour 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.	Kanti TPS St-II, Dist: Muzaffarpur, Bihar [KBUNL- Kanti Bijlee Utpadan Nigam Ltd. (JV of NTPC& BSEB)]	390					Unit-3: Boiler: Boiler drum lifting completed in Mar’12. Boiler Hydro Test completed on 25 th Feb’13. Boiler light-up completed on 08.11.14. Steam blowing started on 24.01.15 and completed on 12.02.15. TG: Condenser erection started on 10 th Dec’12. TG erection started on 29 th Jan’13. TG box up is completed on 30.09.14. TG oil flushing completed in Mar’15. Synchronization and full load achieved on 31.03.2015. COD yet to be achieved. Unit-4: Boiler: Boiler drum lifting completed on 12 th Sept’12. Boiler Hydro Test completed on 05.08.13. Boiler light-up completed in 08/15. SBO completed in Nov’15. TG: TG erection started on 30 th Sept’13.TG box up done on 09.01.16. TG oil flushing completed in 03/16. Synchronization achieved on 24.03.2016. Full load completed in Mar’16. Unit is not considered as commissioned, due to very poor status towards readiness of CHP, AHP systems. Balance of Plant: Chimney: Order placed on M/s HCC in Feb’11. CHP: Re-award on M/s Indure on 21.08.15. Present focus is on completion of priority/ contingency path from CHP of existing plant. Fabrication of 500/ 1625 MT ton structural steel completed and priority path to be ready by Dec. 16 to achieve COD of unit- 3. AHP: Ash water pumps are erected. Ash slurry p/h building works in progress. There are four series of ash slurry pumps, each series having 4 pumps. 08 pumps out of total 16 nos. of pumps erected.
	U-3	195	09/12 10/12	11/12	03/15(A) 03/15(A)	06/16	
	U-4	195	12/12 01/13	02/13	24.03.16(A) 12/16	12/16	
	Investment Approval						
	Orig.Est. cost	: Rs 315433 lakhs					
	Latest .Est. Cost	: Rs 394216 lakhs					
	Exp.During						
	2010-11	: Rs25635.00 lakhs					
	2011-12	: Rs64839.00 lakhs					
	2012-13	: Rs74423.00 lakhs					
	2013-14	: Rs62237.00 lakhs					
	2014-15	: Rs 53806.00 lakhs					
	2015-16	: Rs48285.00lakhs					
	2016-17	: Rs15682.00 lakhs					
	Total Expenditure(up to Aug’16)	: Rs344907.00 lakhs					
	Type of fuel	: Coal					
	Fuel linkage						
	Date of Main Plant Order	: 03/2010 on BHEL					
	Zero Date	: 12/03/2010					
	Power Evacuation						
	Critical Areas	Unit-4 : Land Acquisition for Raw water pipe line- 2.1 km out of 4.2 km already done. Rest of 2.1 km to be done (Action KBUNL). Survey for verification of present land owners & type of land completed. CHP readiness by Indure. AHP readiness by Techpro. Contingency arrangement for raw water supply					
	Reasons for Delay	Readiness of CHP, AHP, raw water system. Delay in award of main plant civil package. Slow pace of civil works by HCC causing delay in front hand over to other erection agencies.					

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.	Nabinagar TPP, Dist: Aurangabad, Bihar [BRBCL-Bhartiya Rail Bijlee Co. Ltd. (JV of NTPC & Indian Railways)]	1000					Unit-1: Boiler: Boiler erection started in May'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 Jan'16. ESP: 4041 MT out of 4600 MT erected. TG: Condenser erection started on 26.2.13. TG erection started in Jan'14. TG Box-up done in Dec'15. TG oil flushing completed in Dec'15. Unit commissioned on 20.03.2016.
	U-1	250	08/10* 10/10* 12/12** 02/13**	06/13	03/16(A) 03/16(A)	10/16	Unit-2: Boiler: Boiler erection started in Dec'11. Boiler drum lifting completed on 21 st Mar'13. Boiler HT completed in Feb'15. BLU done in Oct'16. ESP: 1310 MT out of 4600 MT erected. TG: TG deck casting completed in 04/15. Condenser erection started in 05/15. TG erection started in Oct'15. TG box-up expected in Nov'16. Unit-3: Boiler: Boiler erection started in Nov'11. Boiler drum lifting completed on 10.06.13. Boiler hydro test expected by Dec'16. ESP: 1446 MT out of 4600 MT erected. TG: TG erection started in June'16. TG box-up expected in Feb'17. Unit-4: Boiler: Boiler erection started in Dec'12. Boiler drum lifting completed on 16.09.13. Boiler hydro test expected by Nov'16. TG: TG columns work in progress. TG deck casting expected in Aug'16. TG erection start expected by Dec'16. Balance of Plant: Chimney: Chimney#1(for U-1&2) &Chimney #2 (for U-3&4) shell casting completed. Flue can-1 erected. 2 nd Flue can erection in progress. 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-2	250	02/11* 04/11* 03/13** 05/13**	10/13	02/17 03/17	04/17	
	U-3	250	08/11* 10/11* 06/13** 08/13**	02/14	06/17 07/17	08/17	
	U-4	250	02/12* 04/12* 09/13** 11/13** (* Org / ** Rev)	06/14	09/17 10/17	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. During2007-08	: 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 37059 lakhs					
	Total Expenditure(Up to Sep'16)	: Rs 584342 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, 1462.44 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						
5.	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 expected in Oct’16. ESP: 6995 MT out of 9253 MT ESP material erected. TG: Condenser erection started in 09/15. TG erection started in Jan’16. TG Box-up expected in Jan’17. Unit-2: Boiler: Boiler erection started on 29 th Nov’14. Hydro test expected in Mar’17. ESP: 5403 MT out of 9253 MT ESP material erected. TG: TG raft casting completed. TG erection start expected in Oct’16. Unit-3: Boiler erection started on 29.04.2015. Hydro test expected in Sep’17. ESP: 2432 MT out of 9253 MT ESP material erected. TG: TG erection start expected in Jan’17. Balance of Plant: Chimney: Chimney-1(Unit-1) & Chimney-2 (Unit-2&3) shell casting completed. Flue can erection in progress in Chimney-1. CHP: Order has been placed on M/s TRF Ltd in March’13. Structural erection of Crusher house, TP-2,4 &6 in progress. DM plant: Order placed on M/s Thermax in Jan’14. Vessels erection and alignment is in progress. Degasser is completed. 06 nos. of DM plant pumps erected. DM water storage tank-1&2 erected. One stream is made ready. CW pump house: Excavation in fore bay area in progress. IDCTs: Order placed on M/s Fans A S. RCC raft completed. Basin wall and column works in progress in all CT’s.
	U-1	660	11/16 01/17	05/17	04/17 06/17	08/17	
	U-2	660	05/17 07/17	11/17	10/17 12/17	02/18	
	U-3	660	11/17 01/18	05/18	04/18 06/18	08/18	
	Investment Approval	: Jan 2013					
	Sanctioning Authority	: NTPC Board					
	Orig. Est. cost	: Rs 13624.02 Crores					
	Latest. Est. Cost	: Rs 15131.67 Crores					
	Exp. During 2008-09	:Rs 10 lakhs					
	2009-10	:Rs 22290 lakhs					
	2010-11	:Rs 8300 lakhs					
	2011-12	:Rs 38392 lakhs					
	2012-13	:Rs 71117 lakhs					
	2013-14	:Rs 36991 lakhs					
	2014-15	:Rs 151000 lakhs					
	2015-16	:Rs 272144 lakhs					
	2016-17	:Rs 137827 lakhs					
	Cum. Exp up to 09/16	Rs 738071 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. : 31.01.2013					
	Zero Date						
	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 (8.49 Acres), outfall drainage corridor (10.19 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							
6.	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 Jan'15. BLU done in Dec'15. SBO completed on 12.06.16.	
	U-1	800	09/15 12/15	04/16	10/16 10/16	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 04/17	05/17		
	U-3	800	09/16 12/16	04/17	05/17 06/17	07/17		
	Investment Approval	:Dec'2011.						TG: Condenser erection started in Feb'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 Nov'15. TG put on barring gear in Dec'15. +as per review meeting held on 8.7.2016.
	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 89600 Lakhs						
	Cum Exp(up to Aug'16)	:Rs 1160300 lakhs					ESP: Mechanical works completed and insulation works are under progress.	
	Type of fuel	: Coal					TG: Condenser erection started on 14.11.14.TG erection started in Mar'15. TG box-up expected in Oct'16.	
	Coal block	Bhalumuda Captive coal block						
	Date of Main Plant Order	SG: Feb'12, M/s Doosan Heavy Ind., Korea						
	Zero Date	TG: Feb'12 on M/s Toshiba. 25.01.2012						
								Unit-3: Boiler: Boiler erection started in Sep'13. Boiler Hydro test done in Mar'16. BLU expected in Dec'16.
								ESP: Foundations done for all 6 passes.
								TG: Condenser & TG erection started in Sep'15. TG box-up expected in Nov'16.
								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 Oct'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 CWP 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						
7.	Mouda STPS St-II, Dist: Nagapur, Maharashtra (NTPC Ltd.)	1320					Unit-3: Boiler: Boiler erection started on 12/05/2013.Boiler hydro test done in Nov'15. BLU done on 03/01/2016. SBO completed in 03/16.
	U-3	660	01/16 03/16	05/16	03/16 03/16	10/16	TG: Condenser erection started in Mar'14 and TG erection started on 30.10.14. (Delay: 05 months). TG box-up done on 19.10.2015. TG oil flushing completed in Feb'16. Synchronization and full load completed on 28.03.16.COD yet to be achieved.
	U-4	660	07/16 09/16	11/16	02/17 03/17	04/17	
	Investment Approval	: Mar'12.					
	Sanctioning Authority	: NTPC Board					
	Orig.Est. cost	: Rs 792147 lakhs					
	LatestEst. Cost	: Rs 792147 lakhs					
	Exp.During 2011-12	:Rs 2700 lakhs					
	Exp.During 2012-13	:Rs 86000 lakhs					
	2013-14	: Rs 147200 Lakhs					
	2014-15	: Rs 141600 Lakhs					
	2015-16	: Rs 142900 Lakhs					
	2016-16	: Rs 46000 Lakhs					
	Cum. Exp(up to Aug'16)	:Rs 576100 lakhs					
	Type of fuel	: Coal					
	Date of Main Plant Order	SG : 30.03.12 on M/s BHEL TG : 27.04.12 on M/s BHEL 19/03/2012					
	Zero Date						
	Power Evacuation						
	Critical Areas	Slow progress of CHP works by Elecon, Resource augmentation by IVRCL for main plant civil works.					
	Reasons for Delay	Slow progress of work by main plant civil agency (M/s IVRCL). Delay in supplies & slow progress of steam Generator by BHEL. Delay in TG erection start.					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A) / As now Expected		
			Syn. com.	COD	Syn. com	COD	
	Central Sector						
8.	Solapur STPP, Dist: Solapur, Maharashtra (NTPC Ltd.)	1320					Unit-1: Boiler: Boiler erection started on 07 th May’13. Boiler hydro test done in Dec’15. BLU done on 21.08.16. SBO completion expected in Oct’16.
	U-1	660	03/16 05/16	07/16	02/17 04/17	06/17	TG: TG erection started on 04.07.14. TG box-up completed in Jul’15. TG oil flushing completed in Nov’15.
	U-2	660	09/16 11/16	01/17	06/17 08/17	10/17	
	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 52700 Lakhs					
	Cum Exp(up to Aug’16)	:Rs 676400 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						
9.	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 expected in Dec’16. All mill and bunker foundations completed. 04 nos of RHS bunkers erected.
	U-1	660	04/16 06/16	08/16	02/17 04/17	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 Sep’14. TG box-up done in Sep’15. TG oil flushing completion expected in Oct’16.
	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 25420 lakhs					
	Cumulative Exp. (Up to 06/2016)	:Rs533200 lakhs					
	Type of fuel	: Coal					
	Date of Main Plant Order (BTG)	SG : 30.04.12 on M/s BGR Energy Systems, Chennai.					
	Zero Date	TG : 01.05.12 on M/s Toshiba Corporation, Japan. 30.04.2012					
	Common information	MOE&F clearance available on 10.01.11.					

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.	Unchahar TPS Extn. St-IV,Dist: Raibareli, U.P. (NTPC Ltd.)	500					Unit-6: Boiler: Boiler erection started on 08.06.15. Drum lifting done in Oct’15. Hydro test done on 24.06.16. BLU expected in Jan’17. TG: TG deck casting completed. Condenser erection started in Jan’16. TG erection started in Feb’16. TG Box-up expected in Feb’17. TG oil flushing start expected in Nov’16. Balance of Plant: Chimney: Chimney shell casting completed. CHP: Order for interconnecting path placed on BTL EPC Ltd in Dec’15. Order for CHP main equipment package to be placed. AHP: Order for Mechanical, Civil works placed on Indure, SEW Infra in Mar’15. CWPs: Order for CW package placed on Flowmore in Dec’14. CTs: Order placed on Paharpur in Nov’14. Excavation works completed. Railway riding: order place on M/s RITES. Work is in 07 packages and all are awarded and in progress.
	U-6	500	10/16 12/16	01/17	09/17 11/17	01/18	
	Investment Approval	: Jul 2013					
	Sanctioning Authority	: NTPC Board					
	Orig.Est. cost	: Rs 336312 lakhs					
	LatestEst. Cost	: Rs 336312 lakhs					
	Exp.During 2013-14	:Rs 22600 lakhs					
	2014-15	:Rs 28400 lakhs					
	2015-16	:Rs 75300 lakhs					
	2016-17	:Rs 33000 lakhs					
	Cum Exp. (Up to Aug’16)	:Rs 158900 lakhs					
	Type of fuel	: Coal					
	Date of Main Plant Order Zero Date	NBPPL in 08/2013. 05.08.2013					
	Common information	EPC contract awarded to M/s NBPPL. NBPPL awarded BTG package to BHEL.					
	Critical Areas	Award of CHP main equipment package by NBPPL, tapering coal linkage, supply of power cycle piping by BHEL.					
	Reasons for Delay	Delay in award of main plant civil work packages and Balance of Plant					

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.	Lara STPP, Dist:Raigarh, Chhattisgarh (NTPC Ltd.)	1600					Unit-1: Boiler: Boiler erection started on 23/12/13. Boiler Hydro test done in Dec’15.BLU expected in Oct’16. ESP: 05 out of 06 passes of ESP erection completed. TG: Condenser erection started on 29.05.2015 and TG erection started in Aug’15.TG box-up expected in Nov’16. 02 nos of MDBFP’s available at site. TDBFP’s are not available at site. Unit-2: Boiler: Boiler erection started in Apr’14. Boiler Hydro test done in Apr’16.BLU expected in Dec’16 ESP: ESP structural erection completed. ESP hoppers erection completed in 3rd pass and hopper erection works are in progress in 4th pass. TG: Condenser erection started in Jan’16. TG deck casting started on 26.05.16. TG erection start expected in Oct’16. Balance of Plant: Chimney: Chimney shell casting is completed. Flue cans erection completed. CHP: There are two nos. of wagon tippers and one no. of track hopper planned in this project. 01 no. of wagon tippler (WT) is erected. WT-2 erection works are in progress. Stack-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.	
	U-1	800	09/16 11/16	03/17	03/17 03/17	05/17		
	U-2	800	03/17 05/17	09/17	09/17 10/17	12/17		
	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 66400 Lakhs						
Cum Exp(up to Aug’16)	:Rs 680700akhs							
Type of fuel	: Coal							
Fuel linkage								
Date of Main Plant Order (BTG)	SG- M/s Doosan, in Dec’12							
Zero Date	TG - M/s BGR Hitachi in Dec’12							
Power Evacuation	There are two nos. of D/c 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.							
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							

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.	Gadarwara STPP, St-I, Dist: Narsinghpur Madhya Pradesh (NTPC Ltd.)	1600					Unit-1: Boiler: Boiler erection started in June'14. Foundation of 8/9 mills completed. Mill F, G J erection is in progress. HT expected in 10/16. 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 Dec 15. TG erection started in Apr'16. TG box-up expected in Mar'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 11/16. ESP: Pass A, B & C erection completed and foundation work of D, E & F passes completed. TG: TG erection expected to start by Oct'16. Balance of Plant: Chimney: Chimney shell completed upto 269m.Flue canes fabrication is in progress, Flue canes erection yet to start. 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: CWPB 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	Rs274900 Lakhs						
	2016-17	Rs 77500 Lakhs						
	Cum Exp(up to Aug'16)	:Rs 621000 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						
13.	Darlipalli STPPSt-I, Dist. Sundergarh, Odisha (NTPC Ltd.)	1600					Unit-1: Boiler: Boiler erection started in 04/15. HT expected in Oct’16. TG: Condenser erection started in Dec’15. TG erection started in Apr’16.TG box-up expected in May’17. Unit-2: Boiler: Boiler erection started in 07/15. HT expected in Apr’17. TG: Condenser erection started in Sep’16. TG erection expected to start in Dec’16. 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.
	Unit-1	800	12/17 02/18	04/18	12/17 02/18	04/18	
	Unit-2	800	04/18 06/18	08/18	06/18 08/18	10/18	
	Investment. approval						
	Orig.Est. cost	Rs 1253244 lakhs					
	Latest.Est. Cost	Rs 1253244 lakhs.					
	Exp. During 2013-14	:Rs.95100 lakhs					
	2014-15	:Rs145700 lakhs					
	2015-16	:Rs141700 lakhs					
	2016-17	:Rs 82200 lakhs					
Cumulative Exp (up to Aug’16)	:Rs.392500 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						
15.	Tanda-II STPP, Dist. Ambedkar Nagar, U.P. (NTPC Ltd.)	1320					Unit-1: Boiler: Boiler erection started in 12/15. Hydro test expected in May’17.
	Unit-1	660	07/18 09/18	11/18	07/18 09/18	11/18	TG: Condenser erection start expected in 12/16. TG erection start expected in 01/17.
	Unit-2	660	01/19 03/19	05/19	01/19 03/19	05/19	Unit-2: Boiler: Boiler erection start expected to start in 09/16.
	Investment. approval	Sep 2014					TG: TG erection start expected in 08/17.
	Orig.Est. cost	: Rs 918898 lakhs					Balance of Plant: Chimney: Order placed on GDCL in Feb’15. CHP: Order placed on L&T in Dec’15. AHP: Order placed on L&T in Mar’16. DM Plant: Order placed on Driplex in Aug’15. CWPs: Order for CW system equipment placed on KBL in Jun’15. NDCTs: Order placed on L&T in Oct’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 46900 lakhs					
Cumulative Exp(up to Aug’16)	: Rs.171800 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						
16.	Khargone STPP, Dist.Khargone, M.P. (NTPC Ltd.)	1320					Unit-1: Boiler:Boiler erection started in 04/16. Hydro test expected in Feb'18. TG:Condenser erection start expected in 07/17. TG erection start expected in 08/17. Unit-2: Boiler:Boiler erection to start in 03/17. 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 Dec'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		Rs987051lakhs				
	Latest.Est. Cost		Rs lakhs				
	Exp. During 2014-15		: Rs. 63400 lakhs				
	2015-16		: Rs. 90200 lakhs				
	2016-17		: Rs. 24200 lakhs				
	Cumulative Exp (up to Aug'16)		: Rs. 179400 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							
17.	Telangana TPP (Ph-I), Dist. Karim Nagar Telangana (NTPC Ltd.)	1600					Unit-1: Boiler: Boiler erection start expected in 03/17. 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		10/19 01/20			
	Unit-2	800	05/20 07/20		05/20 07/20			
	Orig.Est. cost	Rs lakhs						
	Latest.Est. Cost	Rs lakhs						
	Exp. During 2015-16	:Rs. 600 lakhs						
	2016-17	:Rs 16900 lakhs						
	Cumulative Exp (up to 08/16)	: Rs.17500 lakhs						
	MOEF clearance							
	Type of fuel							
	Date of Main Plant: Order:	SG on BHEL 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 OF CENTRAL SECTOR THERMAL POWER PROJECTS

BROAD STATUS OF MONARCHAK GAS BASED POWER PROJECT OF NEEPCO (CENTRAL SECTOR PROJECT)

Sl. No.	PROJECT DETAILS	Cap (MW)	Commissioning Schedule				Broad Status	Reasons for Delay
			Original		Actual(A) / As of now Expected			
			Syn. comm	COD	Syn. comm	COD		
I	COMMISSIONED PROJECTS							
1.	Monarchak Tripura Gas based Power Project NEEPCO Tripura	101	05/13		08/15		- PPA signed with TSECL on 19.03.2008. - MOE&F clearance obtained on 14.02.2008. - SPCB clearance obtained on 18.10.2001 - Gas supply agreement with ONGC signed on 5.6.2008 - Availability of water from Gomti river received vide letter dated 4.8.2007. 194.94 acres of land for main plant certified by GoT vide Ir dt.16.7.2007. GTG - Gas supply made available at site on 04.02.15. Gas booster compressor commissioned on 16.02.15. GT synchronized on 11.03.15, achieved full load on 30.03.15 and declared commercial on 24.12.2015, i.e. (COD). STG - TG put on barring gear on 12.6.15. - ABO of HRSG completed on 30.8.15. - Steam blowing completed on 10th Oct. 2015. Steam Turbine Synchronization and achieved Full load on 14.01.16.	Heavy Monsoon: Delay in award of civil work and supply of material by BHEL. Delay in readiness of gas gathering station and supply pipeline. Delay in supply of balance material and completion of balance BoP works by BHEL/ NBPPL. Completion of gas pipe line erection work and supply of clean gas for the project by ONGC. Readiness of DM plant. Supply & erection of metering equipments by ONGC. Current critical issue. Availability of gas.
	GT	65.42	03/13		3/15(A) 3/15(A)	12/15 (A)		
	ST	35.58	07/13		1/16(A) 1/16(A)	-		
	Date of PIB Clearance		:23.07.2010 (Zero date)					
	Date of CCEA Clearance		:23.02.2011					
	Org. Est. cost		:Rs. 62344 lakhs					
	Latest cost		: Rs.100757 lakhs					
	Exp. During 2010-11		: Rs. 4834 lakhs					
	Exp. During 2011-12		: Rs. 15806 lakhs					
	Exp. During 2012-13		: Rs. 29615 lakhs					
	Exp. During 2013-14		: Rs. 22886 lakhs					
	Exp. During 2014-15 Exp.		: Rs. 13681 lakhs					
	During 2015-16 Exp. During		: Rs. 11730 lakhs					
	2016-17 Comm. Exp.		: Rs. 806 lakhs (7/16) : Rs. 99358 lakhs (7/16)					
	Financial closure		: N/A					
	Type of fuel		: Natural Gas (0.5 MMSCUMD)					
Fuel Source		:From ONGC basin through pipeline						
Date of Main Plant Order		:LOI on 23.07.2010 on M/s BHEL (EPC)						
Zero date of the project		: 23.07.2010						
Power Evacuation		: Agreement signed with TSECL on 18.09.2008 for setting up the ATS.						

Sl. No	PROJECT DETAILS	Cap (MW)	Commissioning Schedule				Broad Status	Critical Areas
			Original		Actual(A) / As now Expected			
			Syn. comm	COD	Syn. comm	COD		
II	PROJECT UNDER CONSTRUCTION							
1.	Agartala Gas based Power Project NEEPCO Tripura	51					- PPA signed with all beneficiaries is concluded. - MOE&F clearance obtained on 08.09.10. - SPCB clearance obtained on 21.12.10 - Civil aviation clearance obtained on 01.02.11. - Water availability: letter dated 16.09.10. - Water treatment plant commissioned on 25.1.14. - Transformer and switchyard commissioned on 1.7.14. ST-1 synchronized with HRSG-1 in March'15 and commissioned on 23.08.15. Unit declared commissioned on 01.09.15. ST-2 synchronized on 10.02.15 & re-synchronized on 17.02.15 and commissioned on 22.03.15. Unit declared commissioned on 29.07.15.	Delay in readiness of civil fronts due to heavy rains. Delay in supply and erection of material.
	ST-1	25.5	05/13		3/15(A) 8/15(A)	9/15(A)		
	ST-2	25.5	NA		2/15(A) 3/15(A)	7/15(A)		
	Date of PIB Clearance		:23.07.2010					
	Date of CCEA Clearance		:23.02.2011					
	Org. Est. cost		: Rs. 29687 lakhs					
	Latest cost		: Rs. 38241 lakhs					
	Comm. Exp. up to 03/2010		:					
	Exp. During 2012-13		: Rs. 2211 lakhs					
	Exp. During 2013-14		: Rs. 15166 lakhs					
	Exp. During 2014-15		: Rs. 13319 lakhs					
	Exp. During 2015-16 (07/15)		: Rs. 989 lakhs					
	Comm. Exp. Up to (07/15)		: Rs. 31685 lakhs					
	Financial closure		: N/A					
	Type of fuel		: Natural Gas(base fuel)					
Fuel Source		: Not required for CC extension project						
Date of Main Plant Order		: LOI on 12.09.2012 on M/s Thermax (EPC)						
Zero date of the project		: 12.09.2012						
Power Evacuation		: As per existing system i.e 132 kV RC Nagar- Agartala line I & II and RC Nagar-Kumarhat						

NEYVELI LIGNITE CORPORATION

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch Comm	COD	Syn. Comm	COD		
State Sector									
	Tuticorin TPP Joint Venture of TNEB and NLC (NTPL) Distt. Tuticorin, TN.	1	500	01/12	04/12	02/15(A)	18/06/15	Unit-1 • Boiler: erection started on 03/11/10. Drum lifted on 29/09/11. HT: conducted on 09/10/13. BLU: completed on 19/03/14 . EDTA completed on 10/04/14. SBO completed on 19/06/14. • ESP: Complete in all respect. • TG: Condenser erection started on 10/07/12. TG erection started on 29/09/12 & boxed up on 23/10/13 . TG put on BG on 20/07/14. Steam dumping started on 14/02/15. Unit synchronized on 18/02/15. Full load achieved on 10/03/15. COD declared w.e.f. 18/06/15. Unit-2 • Boiler: erection started on 15/12/10. Drum lifted on 22/09/11. HT conducted on 09/11/12. PA/FD/ID fans erection completed. Cladding and insulation completed. BLU: Boiler light up completed on 23/09/14. SBO completed on 26/02/15. • ESP: Erection work complete in all respect. • TG: Condenser erection started on 21/01/13 and that of TG erection started on 29/04/13. TG boxed up on 11/04/14 . TG oil flushing is completed on 05/12/14 . Safety valve floating done in 06/2015. Unit synchronized on 09/04/15. Full load achieved in 09/07/15. COD declared w.e.f. 29/08/2015. • Chimney: Order placed on 29/01/10 (M/s Gammon). Chimney is ready in all respect. • CHP: order placed on 31/07/09 (M/S L&T). All system completed. Both side trippers are ready. • AHP: order placed on 08/04/10 (Energo). All five silos completed. Fluidizing pads erection completed. Ash pipe connection near intermediate silo and pipe laying from vacuum / compressor house to ISH completed. Ash handling system for bottom ash completed. • RO/DM: All equipment installed and are in operation. • CWS: order placed on 31/10/09 on KBL. CW channel and fore bay completed. Pipe laid for both units. CW pump house is complete in all respect. • WTP: order placed on 23/07/10 on M/s Tecton, UAE. All works completed and water is being clarified and in use. • NDCT: Order placed on 12/03/10 on M/s Gammon. Both CTs are complete in all respect. • FOS: HFO/LDO tanks are filled with oil and are in service. Fuel oil pumps and pipe erection completed. The system is in service. • FPS: LOA issued to M/s Mather & Platts. All the work completed in 09/15. • Switchyard: Order placed on 29/01/10 (M/s L&T). Erection of 400 kV GIS completed. System charged and is in use.	
	2	500	03/12	09/12	10/03/15(A)	29/08/15			
	Original Estd. Cost	:Rs 490954 lakh (NLC:TNEB::89:11)							
	Latest Estd. Cost	Rs 660270 Lakh							
	Latest Estd. Cost (approved vide MoP Ir dated 27/04/2016)	Rs. 7293.48Crores including IDC Rs. 1379.15 & a foreign component of US \$ 18.10 Mand Euro .40 M at 06/2015 price level (US\$=63.81 & Euro=71.61)							
	Expenditure during 2007-08	Rs 827 Lakh							
	Expenditure during 2008-09	Rs 21527 Lakh							
	Expenditure during 2009-10	Rs 50153 Lakh							
	Expenditure during 2010-11	Rs 88476 Lakh							
	Expenditure during 2011-12	Rs 115835 Lakh							
	Expenditure during 2012-13	Rs. 136002 Lakh							
	Expenditure during 2013-14	Rs. 106333 Lakh							
	Expenditure during 2014-15	Rs. 92406 Lakh							
	Exp. during 2015-16 (up to 08/15)	Rs. 31074 Lakh							
	Total Expenditure	Rs 6426.31 Crores							
	Approval date:	: 12/05/2008.							
	Zero date:	: 28/01/2009							
Financial closure	: Tied up with BOB & BOI								
Main Plant Order	: 28/01/2009 (BTG) on M/s BHEL.								
BOP Package									
Type of fuel	: COAL								
PPA	: PPA signed with TNEB, DISCOM of Andhra Pradesh, ESCOMs of Karnataka, PED Puducherry and KSEB.								
Power Evacuation system									
	102.265 hectares of Land is available on long term basis. - Sea water after treatment (11000 Cu M /hr). - MOE&F: clearance accorded on 13/06/2007 and extended validity up to 12/06/17 vide letter dated 11/01/2013. - M/s MECON appointed consultant for the project. - Funding is arranged from RECL.								
Reasons for Delay		1. Placement of order for firefighting equipment and inlet & outlet channels & structure of CW System delayed. 2. Delayed due to change in design of foundations (depth) of main plant area and finalization of civil contractors. 3. Availability of soft water is delayed due to non-completion of erection of HDPE pipes.							

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status		
				Original		Actual(A)/ As Expected				
				Synch Comm	COD	Syn. Comm	COD			
State Sector										
	Neyveli New TPP M/s Neyveli Lignite Corporation Ltd. at Neyveli in Tamil Nadu	1	500	05/15 06/15	06/15	12/17 02/18	03/18	• Boiler (M/s BHEL) U-1 Erection commenced on 07/03/16 & is in progress. HT expected by 03/17. 6012/7800 MT of MSS erection completed up to 09/16. • ESP, so far 4797 /5130 MT erection completed till 07/16. • 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. 5475/7834 MT power house structural erection completed till 09/16. • Boiler U-2 Erection commenced on 28/03/16 & is in progress. HT expected by 06/17. 5800/7800 MT of MSS erection completed till 09/16. • ESP, so far 4401/5130 MT erection completed till 07/16. • TG & Condenser: TG deck completed on 13/01/16 & one no. EOT crane work completed. Condenser pre assembly commenced on 10/03/16. 4953/7125 MT power house structural work completed till 09/16. • Chimney: Shell concreting up to 269 mtrs completed. Flue can fabrication is in progress. Flue can structure erection work started on 22/06/16. • LHP: (M/ EPIL) Stacker and reclaimers: Excavation, PCC & RCC foundation work are in progress. Pre-casting of boundary wall pole; panel & fabrication of fencing pole is in progress. Conveyors junction tower structure erection started. • 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. • 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 work in progress. CWPB and CW channel civil work are in progress. • Cooling tower: Civil work are in progress. U1 -8530 M³/20380 M³ RCC work completed till 09/16 & U2 -11978 M³ / 21510 M³ RCC work completed till 09/16. • FO System: Awarded to M/s BHEL on 31/10/13, civil works are nearing completion. Erecting HFO tank 1 & 2 and LDO 1 are in progress. • 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.		
		2	500	11/15 12/15	12/15	04/18 05/18	06/18			
	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 (up to 09/ 2016)	: Rs.	682194.04	Lakh						
	Total Expenditure	: Rs.	2635.30	Crores (up to 09/ 2016)						
	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								
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										
Reasons for Delay										

STATE & PRIVATE SECTOR

NORTHERN REGION

Broad Status of Thermal Power Projects in Punjab

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch/ Comm	COD	Synch/ Comm	COD		
Private Sector									
	Talwandi SABO.TPP Talwandhi Sabo Power Ltd. (Distt: MANSA)	1	660	09/12 10/12	11/12	12/13(A) 06/14(A)	07/14 (A)	Unit-1:- Boiler erection started on 10.01.2011. Boiler Hydro test done on 21/ 01/2013. Boiler light up done on 22.11.2013. SBO completed on 30.11.2013. TG erection started on 16.08.2012. TG boxed up on 24.03.2013. TG oil flushing completed on 10.11.2013. TG put on bearing gear on 15.11.2013. Unit synchronized on 31.12.2013. Unit commissioned on 17.06.2014. Unit declared on commercial operation w.e.f. 5/07/2014. Unit- 2:- Boiler Hydro test done on 11.03.2014. Boiler light up completed on 26/ 11/2014. SBO completed on 30/11/14. TG erection started on 15/ 03/13. TG boxed up on 30/05/2014. TG oil flushing completed on 24/10/14. TG put on BG on 29/10/14. Synchronized on 25.01.15. Full load achieved on 30.10.15. COD achieved on 25.11.15. Unit-3:- Boiler Hydro test done on 28/ 05 / 2014. Boiler insulation work completed. BLU completed in 02/16. SBO completed in 03/16. TG erection started on 08.04.13. TG boxed up on 30/ 05/2014. TG oil flushing completed on 20.12.14. TG put on Barring gear on 24.01.15 Synchronization achieved on 29.03.16. Full load achieved on 29.03.16. COD is expected in 08/16 BoPs: All the BoPs were completed as per schedule.	
		2	660	02/12 01/13	02/13	01/15(A) 10/15(A)	12/15 (A)		
		3	660	04/13 05/13	06/13	03/16(A) 03/16(A)	05/16		
	Original Estd. Cost	: Rs.908900 Lakhs							
	Latest Est. Cost	: Rs.1154600 Lakhs							
	Expenditure during 2009-10	:Rs. 101287 Lakhs							
	Expenditure during 2010-11	: Rs. 64523 Lakhs							
	Expenditure during 2011-12	:Rs. 255071 Lakhs							
	Expenditure during 2012-13	:Rs. 193107 Lakhs							
	Expenditure during 2013-14	:Rs. 198488 Lakhs							
	Expenditure during 2014-15	:Rs.121333 Lakhs							
	Total Expenditure (Upto 03/15)	:Rs 933800 Lakhs							
	Approval date:	: 09/2006							
	Zero date:	: 09.09.2009							
	Notice To Proceed (NTP)	:09.09.2009							
	Financial closure	: 27.11.2009. Entire funding by holding Co. : Funding arrangement made. :Debt: 75%, Equity:25%							
	Main Plant Order	: 18.07.2009 (EPC) BTG+BOP on M/s SEPCO Electric Power Construction Corp'n, Jinan, Shandon, China.							
	Boiler Make	: Harbin							
	Turbine & Generator Make	: Dong Fang.							
	BOP Package	: EPC contract							
	Type of fuel	: Coal grade E/F							
	PPA	: PSEB							
	Source and supply of Fuel	: M/s Mahanadi coal-fields ltd. Sambalpur have already issued LOA to TSPL on 14.08.2008 for 7.72 MTPA coal linkage - grade E/F from Basundra coal -fields for 1800 MW. Request for the enhancement of coal made for 10 MTPA for 1980 MW.							
	Power Evacuation system	The system will be provided by erstwhile PSEB (PSPCL). Investment for transmission system is the responsibility or PSPCL Following 400 KV, DC Twin-moose lines approved for evacuation of power ordered for exection by M/s PGCIL. Work completed. a)400 KV Talwandi Sabo to 400 KV Nakodar with LILO of one ckt at 400 KVA PGCIL moga b) 400 KV Talwandi Sabo to 400 KV Nakodar with LILO of one ckt at 400 KVA PGCIL Mukatsar. c) 400 KV Talwandi Sabo to 400 KV Dhuri							
Critical issues		- Enhancement of coal linkage from 7.72 MTPA (for 1800 MW) to 10 MTPA (For 1980 MW) from MoC. - Allotment of dedicate coal block for coal linkage as nearest Coal mine is more than 1500 km away.							
Reasons for Delay		Coal availability/ materialization & schedule from PSPCL.							

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
	RAJPURA TPP M/s Nabha Power Development Ltd. (Distt: Patiala)	1	700	10/13 01/14	01/14	12/13(A) 01/14(A)	02/14 (A)	Unit-1:- Boiler erection started on 14.07.2011. Unit synchronized on 15.12.2013. Unit commissioned i:e achieved full load on 24.01.2014. Unit declared on COD wef. 01.02.2014 at 0000 Hrs.
		2	700	12/13 03/14	03/14	06/14(A) 07/14(A)	07/14 (A)	
	Original Estd. Cost		: Rs. 960000 Lakhs					
	Latest Est. Cost		: Rs. 960000 Lakhs					
	Expenditure during 2009-10		:Rs. 69800 Lakhs					
	Expenditure during 2010-11		:Rs. 90000 Lakhs					
	Expenditure during 2011-12		:Rs.106800 Lakhs					
	Expenditure during 2012-13		:Rs.333800 Lakhs					
	Expenditure during 2013-14		:Rs 212200 Lakhs					
	Expenditure during 2014-15		:Rs 4000 Lakhs					
	Total Expenditure (Upto 05/14)		:Rs 816600 Lakhs					
	Approval date:		: 09/2006					
	Zero date:		: 18.01.2010					
	Notice To Proceed (NTP)		:18.01.10					
	Financial closure		: Achieved and signed loan agreement on 27.09.2010.					
	Main Plant Order		: 16.07.2010 (EPC) on M/s Larson & Tubro (L&T)					
	BTG Make		: L&T					
	BOP Package		: EPC L&T					
	Type of fuel		: Coal Grade ‘F’					
	PPA		PPA signed with PSEB on 18.01.2010 for 25 years.					
	Source and supply of Fuel		: Received on 11.12.2008 for 5.55MTPA of Grade ‘F’ coal from south eastern coalfields limited (SECL) from Korba Raigarh fields for 2x660 MW. Request for 2.21MTPA additional coal made to MOC, GOI on 25.05.2010 for 2x700MW.					
	Power Evacuation system		Two double circuit 400 KV Transmission lines have been planned to the following proposed sub stations (i) Rajpura 400KV Sub Station. (ii) Nakodar 400KV Sub Station. (iii) Dhuri 400KV Sub Station. Award issued by Punjab State Transmission Corporation Limited (PSTCL). Work completed					
	• 1078.16 acres of Land acquired for the main plant. 18.4 acres of land for railway corridor is under process.							
Critical issues		MoC approval of additional coal of enhanced capacity.						
Reasons for Delay		Non-availability of Coal.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch/ Comm	COD	Synch/ Comm	COD		
Private Sector									
	Goindwal Sahib TPP GVK Power Ltd. (Distt. : Tarntaran)	1	270	11/12 04/13	05/13	07/13(A) 02/16(A)	03/16 (A)	Unit-1:- Boiler erection started on 06.09.2010. Boiler drum lifted on 08.03.2011. Boiler hydro test completed on 10.04.2012. Boiler light up done on 19/ 01/2013. SBO completed on 23.03.2013. TG erection started on 18.08.2011. TG boxed up on 31/10/ 2012. TG oil flushing completed on 04/01/2013. Unit Synchronized on oil on 06/ 07/2013. Boiler re-lighted up for commissioning on 22.01.16. Coal bunkering done on 23.01.16. Coal firing achieved on 24.01.16. Re-synchronization achieved on 26.01.16.. Full load achieved on 14.02.16. COD achieved on 01.04.16. Unit- 2:- Boiler erection started on 19.11.2010. Boiler Drum lifted on 24.07.2011. Boiler hydro test completed on 26.09.2012. BLU done on 25/ 09/2013. SBO started on 19.12.2013 and completed on 31.12.2013. TG erection started on 31.05.2012. TG boxed up on 03/10/2013. TG oil flushing started on 01/10/2013 and completed on 28.11.2013. Unit Synchronized on oil on 04/ 03/2014. Full load achieved on 15.03.16. COD achieved on 14.04.16. BoPs: Chimney: 275 mtr height shell casting done. Flue canesy completed. Already commissioned. CHP: (PUNJ LLOYD): Wagon Tippler 1&2 erection completed. Stacker reclaimr slewing and traveling completed. Belt laying completed. CHP completed in all respect. AHP: Already commissioned. Raw Water Supply System: Completed PT/ DM Plant: PT plant ready. DM Plant commissioned on 19.09.2012. CW System: Commissioned. IDCT: Both IDCT commissioned. FOPH: Work completed. Switchyard: Completed in all respects.	
		2	270	05/13 10/13	11/13	03/14(A) 03/16(A)	04/16 (A)		
	Original Estd. Cost		: Rs. 296381 Lakhs						
	Latest Est. Cost		: Rs. 296381 Lakhs						
	Expenditure during 2010-11		:Rs. 94860 Lakhs						
	Expenditure during 2011-12		:Rs100725 Lakhs						
	Expenditure during 2012-13		:Rs 77166 Lakhs						
	Expenditure during 2013-14		:Rs 65749 Lakhs						
	Expenditure during 2014-15		:Rs 28000 Lakhs (upto 09/14)						
	Total Expenditure		:Rs366500 Lakhs (upto 09/14)						
	Approval date:		: 18.05.1998						
	Zero date:		: 21.05.2010						
	Notice To Proceed (NTP)		:21.05.10						
	Financial closure		: 21.05.2010. IDBI is the lead lender Debt – 80% Equity – 20%						
	Main Plant Order		: 06.02.2009/ Notice to proceed on 29.09.2009 (BTG) on BHEL						
	BTG Make		: BHEL						
	BOP Package		: BOP package on EPC basis was with M/s PUNJ LLOYD executed on 14.09.2009.						
	Type of fuel		: Pulverised Coal						
	PPA		:PSEB						
	Source and supply of Fuel		: Received on 05.04.2006 for 2.5 MTPA Tokisud north coal field allotted as a captive coal mine. To supplement coal supply, MOC, allocated part of seregarha coal block to be developed jointly by GVK and M/s Arcelor Mittal.						
	Power Evacuation system		Three double ckt 400 KV transmission lines have been planned to the following proposed sub stations from the project (i) 220KV Sub station Khasa (ASR) - 60 Km (ii) 220KV Sub station Bottianwala (Ferozepur) - 38 Km (iii) 220KV Sub station Sultanpur (Kapurthala) - 20Km						
	• Consulting Engineers (TCE) Ltd. appointed as technical consultant.		Tata						
	• and Restated PPA signed with PSEB on 26.05.2009.		Amended						
	• executed on 06.06.2009.		FSA						
	• possession: 1074.615 Acres of land acquired for the main plant. Possession of 37.98 Acres of land for railway corridor given on 09.02.2013.		Land						
Critical issues									
Reasons for Delay		Financial crunch. Readiness of CHP, AHP. Delay in start of Mining operation. Commissioning got delayed due to cancellation of Tokisud Coal block by Supreme Court.							

BoPs:

- **Chimney:** 275 mtr height shell casting done. Flue canesy completed. Already commissioned.
- **CHP:** (PUNJ LLOYD): Wagon Tippler 1&2 erection completed. Stacker reclaimers slewing and traveling completed. Belt laying completed. CHP completed in all respect.
- **AHP:** Already commissioned.
- **Raw Water Supply System: Completed**
- **PT/ DM Plant:** PT plant ready. DM Plant commissioned on 19.09.2012.
- **CW System:** Commissioned.
- **IDCT: Both** IDCT commissioned.
- **FOPH:** Work completed.
- **Switchyard:** Completed in all respects.

BROAD STATUS OF STATE SECTOR THERMAL POWER PROJECTS (The Rajasthan Vidyut Utpadan Nigam Ltd.)								
Sl. No	PROJECT DETAILS	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual (A) / As Expected		
				Syn. (Comm)	COD	Syn. (Comm)	COD	
State Sector								
	Chhabra SCTPP, Chhabra RRVUNL (Distt. Baran)	5	660	06/16 09/16	09/16	10/16 12/16	02/17	Unit-5 • Blr: erection started on 17-02-14. Foundations of ID & FD fan completed. Erection work of ID and FD in progress. RCC in progress for PA fans. Erection of Mills is in progress. • HT: done on 03-11-15. • BLU: done on 22.08.16. • SBO(s): expected in 08/16. • ESP: Foundation works completed Erection & insulation work in progress. • TG: Condenser and TG erection started from 24-01-15 and 27-03-15 respectively. Oil flushing started on 03/01/16 and completed on 27/05/16. TG put on barring gear on 12/06/16. Synchronization completed on 02/ 10/16. Unit-6 • Boiler: Boiler foundation completed on 09.08.15. Erection started on 17/08/15. 3139 MT structure & NPP erected Coal bunker fabrication in progress. • STG MPH building: Foundation RCC in progress. • ESP: RCC work in progress. ESP erection started on 04/09/15. • TG: TG erection started on 11.07.16. • ID/FD/PA Fan: Excavation work in FD and PA Fan done. PCC in progress. M/s L&T has submitted L2 schedule with commissioning date as 06/2018. BoPs: • CHP: Civil and structural fabrication work is in progress. Stacker & re-claimer erection work is in progress. • AHP: RCC work is in progress in AHP and BAH erection in progress. • Chimney: Shell concreting is completed up to +270 m. Fabrication work is in progress. • NDCT: Work in Basin floor, grillage columns, racker columns, shell and hot water duct is in progress. • RWPH: Erection of Raw water pumps completed. Piping connection work also completed. Trail run balance. • DM Plant: All three streams of DM plant have started DM water generation in mechanical mode. Auto comm. Balance • CW Pump: Erection work completed. CW-3 for unit-5 comm. Other CW pumps are in under progress.. • FO system: RCC work completed. Finishing work in progress. • FPS: Fire fighting pipe erection work and civil work under progress. • Switchyard: Anta line charged on 22/04/16 and switch yard charged on 23-05-16. UAT, UT also charged.
		6	660					
	Estimated cost (M/Y)	: Rs. 792000 lakh						
	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. 102286 lakhs						
	Total Exp (up to 07/16)	Rs. 514075 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									
	Suratgarh Super Critical TPP, RRVUNL, Suratgarh(Distt Sri Ganga Nagar	7	660	06/16 07/16	09/16	01/17 02/17	03/17	Unit-7 Boiler: Erection started on 26.03.14. Hydro test completed on 31/12/15.BLU expected in 11/16 ESP: 95% erection completed. Casing wall deflection plate welding under progress in B, C & D pass. TG: TG civil work started on 07.12.13. Condenser erection started on 29.04.15.TG erection started on 16.11.15. Box up: expected in 11/16. Unit-8 Boiler: Erection started on 25.06.14 HT completed on 15.03.16. Erection work of pressure parts and Rotary parts is u/p. Joints in progress. Bottom ring header erection is in progress. BLU expected in 12/16. ESP: 94% erection completed. TG: Erection work started for Condenser on 28.06.15 and for TG on 05.11.15, Erection work is in progress, Box up: expected in 11/16. BoP's: Chimney: RCC shell is completed. 95% erection of structural platform is completed.AR brick flue work is completed for 120 m height for U-7. CHP: Civil work for stacker re-claimer(SR), conveying system wagon tippler and ERH & erection of stacker re-claimer is in progress for both units. Both the wagon tippler complexes are completed up to bottom of hopper beam. Foundation of all ERH & Bah are completed. Stock pile flooring is 85% completed. AHP: Axial seal work completed, By pass seal seal work u/pin U-7. module erection completed. Axial seal work in u/p. structure work is u/pin U-8. NDCT: Shell completed up to 119m. for U-7 and U-8 is under progress. CW System: CW pumps & ACW pumps erection work is u/p. DM Plant: pressure vessels erection completed and SS piping work is under progress. FO system: Fabrication & erection of HFO Tanks in progress. Switchyard: Stringing work, Bus erection, cable rack, cable tray erection, battery bank, battery charger is u/p. Foundation & erection work is also u/p.	
		8	660	09/16 10/16	12/16	03/17 04/17	05/17		
	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. 63029 lakhs				
	Total Expenditure (up to 09/16)				Rs. 564456 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 bocks of RVUNL				
	Power purchase agreement:				PPA made between RVUN and Jaipur, Ajmer, Jodhpur Vidyut Vitran Nigam Ltd. on 18.05.10.				
	Power evacuation system:				Through 4 x 400 kV transmission line of RVPN.				
	Land:				Possession of 672.873 ha of land for water 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, Start up Power					
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 Expected		
			Syn.	Com.	Syn.	Com.	
1.	Anpara ‘D’TPS UPRVUNL (Distt. Sonebhadra)	1000					UNIT-6 - Commissioned on 06.06.15. UNIT-7 - Syn. on 23.02.2016 - Commissioned on 06.03.2016
	Unit-6	500	02/11	03/11	03/15(A)	06.06.15(A)	
	Unit-7	500	05/11	06/11	02/16(A)	06.03.16(A)	
	Date of approval by State Govt.		27.09.2006				
	Financial closure		27.06.2008 with REC Debt- 70%, Equity- 30% by Govt. of UP				
	Est. approved cost		Rs. 535879 lakhs				
	Latest Est. Cost		Rs. 584302 lakhs				
	Exp. upto 2005-06		Rs. 11 . lakhs				
	Exp. upto 2006-07		Rs. 291 lakhs				
	Exp. upto 2007-08		Rs. 47113 lakhs				
	Exp. during 2008-09		Rs 4078 lakhs				
	Exp. during 2009-10		Rs 61512 lakhs				
	Exp. during 2010-11		Rs 127893 lakhs				
	Exp. during 2011-12		Rs 99362 lakhs				
	Exp. during 2012-13		Rs 61923 lakhs				
	Exp. during 2013-14		Rs 72981 lakhs				
	Exp. during 2014-15 (upto 03/15)		Rs 70399 lakhs				
	Cumulative Exp. upto 03/15		Rs 545563 lakhs				
	Type of fuel		Coal				
	PPA		PPA signed with UPPCL on 26.05.2011 for 100% power purchase				
	MoEF clearance		Achieved on 18.9.07.				
	Fuel Linkage		Received for 1.77 MTPA of coal for one unit of 500 MW. For remaining quantity of coal applied to MOC				
	Date of main plant order		BHEL. (BTG) on 24.10.07				
	Zero date of the project.		13.01.08				
	Power Evacuation system		765 KV line inter -connection between Anpara ‘D’ TPS to Anpara ‘C’ TPS – Unnao line already charged with 400KV.				
	Critical Areas	NIL					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual (A) / As now Anticipated.		
			Syn.	Com.	Syn.	Com.	
2.	Harduaganj Expn.,-II UPRVUNL (Distt.; Aligarh)	660					U-1: - • Boiler: Boiler erection start expected in 02/16. HT expected in 06/18. • TG: Condenser erection start expected in 10/17.
	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 12/15)	:	Rs. 20390 Lakhs				
	Cumulative Expd. (12/15)	:	Rs 20390 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: Obtained on 12.05.2015 and Forest clearance applied for. • 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.							
Critical Areas							

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual (A) / As now Anticipated.		
			Syn.	Com.	Syn.	Com.	
Private Sector							
1.	LALITPUR STPP M/s Lalitpur Power Generation Co. Ltd. (Distt.; Lalitpur)	1980					U-1: - - Boiler: Boiler erection started on 23.03.12. HT conducted on 12.03.2014. BLU done on 15.01.15. SBO completed on 11.04.15. - ESP: ESP work completed - TG: Condenser erection started on 25.11.2013. TG erection started on 15.12.2013. TG boxed up on 9/12/14. Turbine oil flushing completed on 16.04.15. Turbine on Barring gear on 17.04.15. Unit Synchronized with Coal on 09.06.15. Unit achieved full load on 26.03.16 U- 2: - - Boiler erection started on 23/03/12. HT done on 12/3/14. BLU done in 15/01/15. SBO completed on 11/04/15. TG erection started on 15/12/13 & boxed up on 09/12/14. Oil Flushing completed on 16/04/15 - Unit synchronized on 23.12.15. Unit Achieved full load on 08.01.16 U- 3: - - Boiler: Boiler erection started on 27.11.2012. HT conducted on 31.03.15. BLU completed on 09.01.16. EDTA completed. Unit commissioned on 01.04.16
Unit-1	660	09/14	10/14	09.06.15(A)	26.03.16(A)		
Unit-2	660	01/15	02/15	23.12.15(A)	08.01.16(A)		
Unit-3	660	05/15	06/15	11/16	01.04.16(A)		
Date of clearance by State Govt.	:						
Original/revised/Latest Est. Cost	:	Rs.1184800 Lakhs / 1211200 Lakhs/1729500 Lakhs					
Date of Financial Closure	:	Achieved on 24.08.2011. Loan agreement signed with SBI					
Exp. During 2009-10	:Rs.	116 Lakhs					
Exp. During 2010-11	:Rs	62784 Lakhs					
Exp. During 2011-12	:Rs.	247400 Lakhs					
Exp. During 2012-13	:Rs.	245000 Lakhs					
Exp. During 2013-14	:Rs	306200 Lakhs					
Exp. During 2014-15	:Rs	393125 Lakhs					
Exp. During 2015-16 (up to 07/15)	:Rs	569100 Lakhs					
Cumulative Expd. (07/15)	:Rs	1430600 Lakhs					
Type of fuel	:	Coal					
Date of Main Plant Order/BoPs	:	21.03.2011 (BTG) on M/s BHEL : BOP's order has been placed on M/s Corbery Infrastructure PTE Ltd. (CIPL) Singapore on EPC basis on 17.03.2011.					
Zero date	:	21.03.2011					
Land	:	Total land has been acquired.					
PPA	:	Signed on 10.12.10.					
MoEF Clearance	:	Obtained in 03/11.EC on domestic coal for 2 nits have been obtained in 05/14.					
Fuel Linkage	:	Applied to MOC for 9.15 MTPA					
Associated Transmission System	:	765KV line to Bhoganipur, UPPCL Grid & Agra to be provided by UPPCL.					
Boiler make	:	Unit-1,2 & 3 : BHEL.					
Turbine & Generator make	:	Unit-1 : Siemens Unit-2 & 3 : BHEL					
Critical Areas	:	Non-readiness of power evacuation system.					

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual (A) / As now Anticipated.		
			Syn.	Com.	Syn.	Com.	
Private Sector							
2	PRAYAGRAJ TPP M/s Prayagraj Power Generation Co. Ltd. (Distt. Bara, Allahabad)	1980					U-1: - - 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-2: - 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-3: - 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 completion expected in 12/16. . Unit Syn. Expected in 03/17 ESP: ESP work completed. TG: Condenser erection started on 10.01.14. TG erection started on 11.11.14. TG box up expected in 12/16 (Exciter received at site and placed on foundation matching is under progress. LP Box up expected in 11/16). Some TG material is still pending for final Box up. 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 reclaimers commissioned. AHP: Awarded to Macawber Beekay. System ready for U-1. Erection of balance area in progress. 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. Work is in progress in other areas. SWYRD: Work in 400 KV switchyard completed and charged 765 kV S/W commissioned.
	Unit-1	660	06/13	10/13	31.10.15 (A)	25.12.15 (A)	
	Unit-2	660	11/13	03/13	07.07.16	09/16	
	Unit-3	660	04/14	07/14	03/17	03/17	
	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. 175190 Lakhs					
	Exp. During 2016-17 (upto Aug-16)	: Rs. 67052 Lakhs					
	Cumulative Expd. (08/16)	:Rs. 1396218 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. MOEF clearance: Obtained on 08.09.2009						
Critical Area		1.	Non-availability of power evacuation system for units-2&3 (as per letter dated 07.10.15).				
		2.	Progress on the work of transmission lines for evacuation of power from thermal plant needs to be ensured so that it is completely matching with the commissioning schedule of plant, 375 km Manipuri Bara line is presently under construction by Isolux/UPPTCL.				
		3.	4 Km stringing work is balance for the first circuit. Second circuit is on critical path due to bankruptcy of the concerned contractor. Presently no work is going on.				

Sl. No.	PROJECT DETAILS	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual (A) / As now Anticipated.		
			Syn.	Com.	Syn.	Com.	
3.	Ghatampur TPP JV of NLC & UPRVUNL (Lahurimau village,Ghatampur, Kanpur)	1980					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 GA 3 (BOP) & GA4 (FGD) finalisation under evaluation
	Unit-1	660	10/20	11/20	10/20	11/20	Commissioning of units I,II & III expected after 52,58 & 64 months from the date of GOI sanction,i.e, 27.7.2016 respectively.
	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. Incurred up to 08/16	:Rs.18484 Lakhs					
	Cumulative Expd. (up to 08/16)	: Rs. 18484 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: Entire Land of 828 Hectares has been acquired and taken physical possession on 27.11.2016 . - MOEF clearance: MoEF issued Environmental clearance to NUPPL on 17.06.2015 - Water: Water Allocation from Govt. of UP for 80 on 03.12.11 from Upper Ganga Canal.					
	Critical Areas						

BROAD STATUS OF THERMAL POWER PROJECTS IN UTTARAKHAND

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
	Kashipur Gas Based CCPP, Ph-I (M/s Sravanthi Energy Pvt. Ltd), Udham Singh Nagar	GT-1 GT-2 ST	75 75 75	05/11 05/11 07/11 07/11	05/11 05/11 08/11	07/16 08/16 08/16 08/16	08/16	OPEN CYCLE GT-I&II All civil works completed. Both the gas turbines (6FA, GE France) & generator placed on foundations. Operation container module for local operator in open cycle placed in position. Bypass diverter and damper erection completed. Generator transformer, Unit Aux transformer and Station transformer commissioned. Gas conditioning skids (Both) GAIL & SEPL have been commissioned. Cranking of GTs completed. Both the GTs are on turning gear. All BOPs are commissioned. Start up power available and switchyard back charged. Power evacuation line (220 kV) is ready. PPA already signed with Uttarakhand Govt. Open cycle synchronization is expected in 07/16. COMBINED CYCLE HRSG-I&II: HRSG erection completed in 09/11. ACC commissioning is achieved in 09/11. HT for both the HRSG completed. Due to long preservation HT in the presence of Boiler Inspector is expected in 07/16. Both the HRSG are ready for ABO. ST: ST&STG supply received in 05/11. ST erection started in 05/11 and completed. Oil flushing completed. STG is on barring gear. Combined Cycle commissioning is expected in 08/16. BoPs: All the BoPs are ready.
Original Estd. Cost		Rs.84500 Lakhs						
Latest Est. Cost		Rs.126600 Lakhs						
Expenditure during 2009-10		Rs.3428 Lakhs						
Expenditure during 2010-11		Rs.79972Lakhs						
Expenditure during 2011-12		Rs.9300 Lakhs						
Expenditure during 2012-13		Rs.13000 Lakhs						
Expenditure during 2013-14		Rs.2500 Lakhs						
Expenditure during 2014-15		Rs.600 Lakhs						
Total Expenditure (Upto 06/14)		: Rs.108800 Lakhs						
Approval date:								
Zero date:		: 30.04.10						
Notice To Proceed (NTP)		:30.04.10						
Financial closure		Achieved on 23.08.10						
Main Plant Order		: 30.04.10 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		: Reputed Indian Vendors						
Type of fuel		: Natural Gas (1.2mmscmd)						
PPA		: Uttarakhand Govt.						
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 ATS through nearby Grid sub-station is ready.						
		FSA signed						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch/ Comm	COD	Synch/ Comm	COD		
Private Sector									
	Kashipur Gas Based CCPP, Ph-II (M/s Sravanthi Energy Private Limited), Udham Singh Nagar	GT-1	75	10/11 10/11	10/11	02/17 02/17	03/17	<u>OPEN CYCLE</u> <u>GT-I&II</u> All civil works are completed in 08/11. Both the gas turbines (6FA, GE France) & generator erection already completed. Cranking of GT completed. Both the GTs are on turning Gear. Waiting for gas <u>COMBINED CYCLE</u> <u>HRSG-I&II:</u> Erection of HRSG equipment supply completed. Erection of both the HRSG nearing completion. HT of both the HRSGs expected just after erection is completed. <u>ST:</u> ST& STG supply received at site. STG erection completed. ACC erection is nearing completion. STG oil flushing completed. STG yet to be put on BG. <u>BoPs:</u> All the BoPs are ready.	
		GT-2	75	10/11 10/11	10/11	02/17 02/17			
		ST	75	12/11 12/11	12/11	03/17 03/17			
	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 mmcmd)						
	PPA		: PPA yet to be signed						
	Source and supply of Fuel		:Domestic Gas from D-6, KG Basin (Right now E-Bidding RLNG)						
	Power Evacuation system		open access: Transmission with PGCIL for 450MW capacity power evacuations through 400 kV/220kV permission granted by NRLDC on 29.12.10. Readiness of ATS through nearby Grid sub-station is scheduled by 12/16.						
	- 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							
Reasons for Delay		Non-availability of Domestic Gas.							

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch/ Comm	COD	Synch/ Comm	COD		
Private Sector									
	GAMA CCPP, Module-I, at Mahuakhedaganj, Kashipur (M/s GAMA INFRAPROP (P) LTD.), Udham Singh Nagar	GT-1	75	10/11 10/11	10/11	02/16 03/16	07/16	<u>OPEN CYCLE</u> <u>GT-I&II</u> Both the gas turbines (6FA, GE France) & generators supply has unloaded at site. GT erection started in 08/11. Erection of both the GTGs have completed. GT oil flushing completed. Cranking of GT has completed. GT is on turning gear. <u>COMBINED CYCLE</u> <u>HRSG-I&II</u> HRSG foundations completed. HRSG order has placed on M/s Thermax (India) and its supply completed. Both HRSG erections started in 07/11. Drum lifting completed in 02/12. HRSG HT is completed in 03/12. HRSG ready for ABO. ACC erection work 100% completed. <u>ST:</u> STG foundations completed. ST order has placed on M/s Hanzhon Steam Turbine Co. Ltd., China (HTC) and its supply completed. ST box up completed. <u>BoPs:</u> • . All the BoPs are ready..	
		GT-2	75	10/11 10/11	10/11	02/16 03/16			
		ST	75	10/11 10/11	10/11	03/16 07/16			
	Original Estd. Cost		Rs.83400 Lakhs						
	Latest Est. Cost		Rs. 115600Lakhs						
	Expenditure during 2010-11		Rs. 11000Lakhs						
	Expenditure during 2011-12		Rs 70400 Lakhs						
	Expenditure during 2012-13		Rs 2000 Lakhs						
	Expenditure during 2013-14		Rs 15000 Lakhs						
	Expenditure during 2014-15		Rs 5000 Lakhs						
	Expenditure during 2015-16		Rs 2400 Lakhs						
	Total Expenditure (Upto 07/16)		: Rs. 105800 Lakhs						
	Approval date:		: NA						
	Zero date:		: 29.07.10						
	Notice To Proceed (NTP)		: 29.07.10						
	Financial closure		Achieved						
	Main Plant Order		: 29.07.10 on M/s Gama Infraprop (P) Ltd (EPC Basis).						
	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		: Uttarakhand Govt.						
	Source and supply of Fuel		Domestic Gas from D-6, KG Basin (Right now E-Bidding RLNG)						
	Power Evacuation system		LILO of 220kV circuit from 400kV Kashipur to 220 kV Mahua Khera Ganj has been made.						
	- FSA signed with GAIL - II statutory clearances are available. - II the BOPs have already been commissioned. - oth the gas conditioning skids are commissioned. - rection of gas pipeline completed and gas line charged upto GAIL skid. 07 MW (50%) PPA signed with UPCL.								
Critical issues		1. Gas allocation 2. Transmission line to 220kV Mahua Khera Ganj.							
Reasons for Delay		Non-availability of Gas							

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch/ Comm	COD	Sync/. Comm	COD		
Private Sector									
	BETA CCPP, Module-I, at Kashipur (M/s BETA INFRATECH PRIVATE LTD.), Udhamsingh Nagar	GT-1	75	12/11 12/11	12/11	02/17 02/17	03/17	OPEN CYCLE GT & GTG Both the gas turbines (6FA, GE France) & generators supply reached at site. Erection of both the GTs and GTGs has completed. GT oil flushing completed. Erection of GT exhaust duct completed. By pass stack erection completed. Erection of diverter and damper completed. GT is ready to put on turning gear. Commissioning in open cycle is possible within one month from availability of gas COMBINED CYCLE HRSG-I &II Both the HRSGs order have placed on M/s Thermax (India) 23.10.10. HRSG erection completed. HT of both HRSGs completed. HRSG is ready for ABO. ST: ACC erection started on 01.05.12. ACC erection is under progress. ST order has placed on M/s G.E. on 04.12.10 and completed. TG erection started 26.04.12. TG Box Up completed. TG oil flushing is about to start and its completion is expected by 07/14. TG on BG after oil flushing completion. ST synchronization is expected within two and half month from availability of gas. Combined cycle commissioning is expected within 3month from availability of gas. BoPs: All the BoPs are either already completed or nearing completion.	
		GT-2	75	12/11 12/11	12/11	02/17 02/17			
		ST	75	03/12 03/12	03/12	03/17 03/17			
	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 substation has been approved by PGCIL.						
	- SA yet to be signed - II statutory clearances are available. - II 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 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	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Syn.	Comm	Syn.	Comm. COD		
State Sector									
1.	Korba West Extn St-III TPS, (Dist: Korba)	U-5	500	02/12 05/12	06/12	18.02.13 (A)	22.03.13(A) 28.10.13(A)	Unit-5 Boiler: Boiler erection started on 24.05.10 and Boiler drum lifted on 29.11.10. Hyd. Test (Non-drainable) completed on 30.08.12. BLU completed on 30.09.12. EDTA completed on 26.11.12. SBO completed on 24.01.13. Unit Synchronized on 18.03.13 and Full Load achieved on 22.03.13. COD achieved on 28.10.13. TG: Condenser erection started on 27.04.11. TG boxed up in 11/12 and oil flushing completed. TG on Barring gear 31.01.13.	
Est. approved cost		: Rs. 230934 Lakhs							
Latest Cost		: Rs.315600 Lakhs							
Latest Cost Under Rev)		: Rs. 367100 Lakhs							
Exp. Upto 03/07		: Rs. 1802.6 lakha							
Exp. During 07-08		: Rs Nil							
Exp. During 08-09		: Rs 21148.50 lakhs							
Exp. During 09-10		: Rs 35625.55 lakhs							
Exp. During 10-11		: Rs.59844 lakhs							
Exp. During 11-12		:Rs. 96679 lakhs							
Exp. During 12-13		:Rs. 68090 lakhs							
Exp. During 13-14		:Rs. 42383 lakhs							
Exp. During 14-15		:Rs. 217 lakhs							
Total Cum. Exp. (up to 05/14)		: Rs 325790 lakhs							
Approval date:		13.09.02 for 2*250 MW							
Zero date:		: 11.04.08/31.12.08							
Financial closure		: 31.03.08 (PFC)							
Main Plant Order		: BTG on BHEL on 27.03.08 LOA issued on 11.04.08 on BHEL (for supply and erection , testing and commissioning of BTG. Electrical and station C&I Package)							
BOP Package		LOI issued for other BOPs through ICB route on M/s Tech pro on 25.08.09.							
Type of fuel		Coal							
Power Evacuation system		At 400kV (DCDS)							
Land: 100% land is under physical possession. MOE&F: obtained on 23.6.05 for 2x300 MW Civil Aviation: obtained for 275 M height of chimney on 15.01.09. Water: CWC clearance obtained on 8.4.2004 and water allocation -05.10.05, 26 MCM/year Coal linkage: Coal linkage & NAAI clearance is available.- 04.02.03,2.5 MMT/year									
Critical issues		MOP has been requested to grant of Mega Status.							
Reasons for Delay		Initial delay due to Change of award of Chimney. Delay in execution of BOP package. As the firm could not proceed due to status quo ordered by Hon'ble High Court of C.G on 26.08.09. Effective date has to be shifted from 25.08.09 to 10.12.09.Light-up was delayed due to readiness of Chimney. Schedule was 09/2011 , Now completed on 30.09.12 with temporary chimney. ABB stopped supply of cables and not doing erection work The work was allotted to M/s ABB by M/s Indu sub-vendor of M/s Techpro (Fund flow problem). Supply & laving of HT & LT cable are continue.							

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch Comm	COD	Syn.	Comm COD		
2.	Marwa TPS (Dist: JanjgirChampa, CG) Chattisgarh)	1	500	05/12	09/12	21.12.13 (A)	30.03.14 (A) 31.03.16(A)	Unit-1 Boiler: Boiler erection started on 15.02.10. Boiler drum lifted on 06.08.10. HT completed on 05.10.11. Non Drainable HT completed. BLU completed on 14.01.13. EDTA completed on 28.06.14. SBO completed. Unit synchronized on 20.12.13 and full achieved on 30.03.14. COD achieved on 31.03.16. TG: TG deck completed. TG erection started on 13.03.11. TG boxed-up. TG on Barring gear on 27.11.13. Unit-2 Boiler: Boiler erection started on 24.04.10 Boiler drum lifted on 6.3.11. HT Completed on 06.09.12 (Drainable. BLU completed on 08.05.14. EDTA Cleaning completed on 28.06.14. SBO completed on 03.10.14. Unit Synchronized with oil on 31.03.15 and unit was synchronized with coal on 15.07.16 and achieved a load of 176 MW due to problem in CW system unit was shut down. On 17.06.16, the unit is running continuously 250 MW with one pass of CW system. Full Load Achieved on 15.07.16. COD achieved on 31.07.16. TG: TG deck completed. TG erection started on 18.10.11. TG lub oil flushing completed. TG boxed –up in 07/14. TG put on Barring gear on 16.01.15. Supply of material started by BHEL. About 12245604.4953 MT boiler material, 19606.3231 MT of ESP material and 19074.33857 MT of Turbo generator material was received at site as on 31.05.16	
		2	500	07/12	11/12	30.03.15 (A)	15.07.16 (A) 31.07.16(A)		
	Dt of App. by State Govt		: 18.01.08						
	Permission to establish		: Obtained on 05.05.08.						
	Est. approved cost (11/08)		: Rs. 473500 lakhs						
	Latest cost (02/09)		: Rs. 527730 lakhs						
	Latest cost		: Rs. 708600 lakhs						
	Exp. Upto 03/07		: Rs 496.16 lakhs						
	Exp. During 07-08		:Rs 321 Lakhs						
	Exp. During 08-09		: Rs 39175 lakhs						
	Exp. During 09-10		: Rs 49580 lakhs						
	Exp. During 10-11		: Rs.97910 lakhs						
	Exp During 11-12		: Rs 143458 Lakhs						
	Exp During 12-13		: Rs 130726 lakhs						
	Exp During 13-14		: Rs 113769 lakhs						
	Exp During 14-15		: Rs. 96421 lakhs						
	Exp During 15-16		: Rs 108549 lakhs						
	Exp During 16-17 (up to 05/16)		: Rs. 41040 lakhs						
	Total Cumm. Exp. (up to 07/16)		: Rs. 821445 lakhs						
	Zero date:		: 11.04.08 for BTG and 25.08.09 for BOPs. Order for civil works Placed on BHEL on 31.12.08 which is considered as zero date.						
	Financial closure		: 31.03.08						
	Main Plant Order		: BTG on BHEL on 11.04.08 (supply, erection & commissioning of BTG and Electrical & C&I) BTG associated civil Works-M/S BHEL on 31.12.08						
	BOP Package		: BOPs ordered on EPC on M/s BGR on 25.08.09						
	Type of fuel		: Coal						
	PPA		: MoU has been signed with CSPDCL for sale of 100% power.						
	FSA		LOA received for taper linkage from SECL for 4.62 mtpa on 12.09.08. Coal linkage should be revised to minimum 5.00 mtpa. FSA has been signed with SECL on 04.09.13 against taper linkage with parsa coal block. This block has been deallocated by the order of Hon'ble Supreme court. Further Gare Palma Sector-III coal block has been allocated by MOC with mineable reserve of 134 MT.						
	Power Evacuation system		Work of power evacuation is being taken up by CSP Trans. Co.Ltd.. i) Order placed for 400kV Marwa-Raipur DCDS line and route survey completed. ii) Construction of 400 kV Korba (W)- Khedamara DCDS line is in progress which shall be made in/out at Marwa. iii) 220 kV DCDS I/C Marwa-Champa line- profile is approved and order placed. iv) 220 kV DCDS Marwa- Bilaspur line is proposed						

1. Order issued to M/s BHEL for supply, erection, Testing & commissioning of BTG, Electrical and C&I of Rs. 1942 crores on 11.04.08. Civil works associated in BTG package issued on BHEL on 31.12.08. 2. MOE&F clearance obtained on 05.02.08. 3. Syn. of unit-1 is in 05/12 and COD is in 09/12 (45 months) and Syn. of unit-2 is in 07/12 and COD is in 11/12 (47 months). 4. M/s Development Constructions Pvt.Ltd (DCPL, Kolkata) has appointed as consultants 5. NOC from AAI for new Chimney obtained on 12.05.09. 6. Construction of RCC Chimney and stack elevators work awarded to M/s Prasad & company, HYd., on 04.03.10 by BHEL- PSER. 7. BTG civil works awarded to M/s Bride & roof, Kolkata on 24.08.09. TG foundations under progress. M/s Indwell has been awarded for boiler erection agency by BHEL-PSER and erection work started on 15.02.10. 8. 422.692 Ha Pvt., Govt. land awarded and payment of compensation is in progress. 114.355 Ha forest land –Stage-I clearance is obtained. Stage-II clearance is in progress. (i) PH area- 69.655 ha acquired/available, 124.658 ha – Awarded/Allotted. (ii) Ash Dyke & colony – Awarded, Disbursement of compensation in progress. (iii) Afforestation land 118.35 ha Awarded.	
Critical issues	Readiness of Railway siding, CHP, AHP-fly ash handling system, HCSD silo, Pump house etc., Cooling Tower commission pending.
Reasons for Delay	Initial delay is due to change in award of Chimney package. Delay in readiness of BOPs (CHP, AHP & 400 KV Switchyard etc.,) and Law & Order problems, pilferage of material etc. Shortage of man power by M/s BGR .Fire accident in coal handling plant. Damage of butterfly valve in CW system.

Sl. No.	Project Details	Unit	Cap. (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch	Comm	Syn.	Comm. COD		
Private Sector									
3	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. Boiler Chemical cleaning completed on 12.04.13 and insulation work completed. BLU completed on 10.04.13. EDTA. 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 HT (Non-Drainable) is expected in 10/16. BLU is expected in 12/16. SBO completion is expected in 12/16. Oil synch. is expected in 03/17. Full load is expected in 03/17. TG: TG Deck casting completed. TG erection started. TG box up is expected in 12/16. TG oil flushing completion is expected in 12/16. Unit-4 (U-5)	
		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	12/16	03/17		
		U-4 (U-5)	600	02/13	04/13	04/17	06/17		
		U-5 (U-1)	600	06/13	08/13	12/17	03/18		
		U-6	600	10/13	12/13	03/17	06/18		
		Org.Est. cost	:Rs.1619000 Lakh						
	Latest Cost	: Rs. 2287448 lakhs							
	Exp. During 10-11	: Rs. 45529.8 Lakh							
	Exp. During 11-12	: Rs. 821600 Lakh							
	Exp. During 12-13	: Rs. 222416 lakhs							
	Exp. During 13-14	: Rs.209517 lakhs							
	Exp. During 14-15	: Rs.164917 lakhs							
	Exp. During 15-16 (Up to 08/15)	: Rs. 90320 lakhs							
	Total Exp.(upto 09/16)	:Rs.1554300 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-Dong fang 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.	Boiler. Boiler erection started on 08.12.11. Boiler Drum lifted on 31.08.16. Boiler HT (Non-Drainable) is expected in 03/17. BLU is expected in 05/17. SBO completion is expected in 06/17. Oil synch. is expected in 06/17. Full load is expected in 05/17 TG: TG Deck casting completed on 06.10.12. TG erection start is expected in 12/16. TG box up is expected in 02/17. <u>Unit-5 (U-1)</u> Boiler. Boiler erection started on 06.02.12. Boiler Drum lifting is expected in 06/17. Boiler HT (Non-Drainable) is expected in 12/17. BLU is expected in 02/18. SBO completion is expected in 9/17. Oil synch. is expected in 03/18. Full load is expected in 03/18. TG: TG Deck casting completion is expected in 08/17. TG erection start is expected in 09/17. TG box up is expected in 01/18. Unit-6 Boiler: Boiler raft casting completed. Boiler erection start expected in 05/17. Boiler Drum lifting is expected in 09/17. Boiler HT (Non-Drainable) is expected in 03/18. BLU is expected in 05/18. Oil synch. is expected in 06/18. Full load is expected in 06/18. TG: TG raft casting completed and column casting is in progress. Deck casting completion is expected in 10/17. TG erection start is expected in 12/17. TG box up 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: Major civil work is completed for phase 1& 2 AHP: All work of silos completed. U-3 & 4 fly ash is continuously filled in these silos and evacuation and other regular operations are carried out on a day to day basis. Ash dyke work is completed and in use. Civil work of unit 2 to 6 are in progress as per site requirement. 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	
4.	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 27.11.15 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. . Consent to operate received from State Govt. 01.01.16. 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 19.05.12 . HT (drainable) conducted on 22.08.14 . BLU completed on 07.09.16. TG: TG erection started on 11.10.14.. HIP temporary box up completed and final box up under progress expected in 8/16. Unit4 Boiler: Boiler erection started on 30.04.12 . Boiler drum lifted on 26.01.13 . HT conducted on 20.01.15. BLU expected in 01/17. ESP: civil work completed except grade slab. TG: condenser erection started on 20.2.15.TG erection started on 25.11.14. Box-up expected in 03/17. 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 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	09/16	12/16	
		U-4	360	05/13	07/13	12/16	05/17	
	Org.Est. cost / latest cost (Ph-I- 148750 lacs/ 263835 lacs Ph-II – 516611 lacs / 914616 lacs)	: Rs. 665361 Lacs /1037733 lakhs/ 1178451						
	Latest cost	: Rs. 1037733 Lacs						
	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 6517 lacs						
	Cumm Exp. (Up to 07/16)	: Rs.1029299 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							
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	
5	Lanco Amarkantak Mega TPS (Pathadi) (Distt. Korba) M/s LAP Pvt. Ltd. Phase-II	3	660	01/12	01/12	03/17	01/17 02/17	Unit-3 • Boiler: erection started on 09/10. HT completed on 22.07.16. BLU expected on 11/16. • ESP: Pass B ATT completed. Pass C ATT is in u/p. • TG: Condenser erection started on 31.05.11 and completed & partially tube leak test completed. TG erection started on 05.12.11 and box up expected in 11/16. Synchronisation expected in 01/17.
		4	660	03/12	03/12	09/17	05/17 05/17	
	Original Estd. Cost		Rs.688600 Lakhs					
	Latest Est. Cost		Rs.7700000 Lakhs Rs. 1081524 lakhs					
	Expenditure during 2007-08		Rs. 189 lakhs					
	Expenditure during 2008-09		Rs. 209 lakhs					
	Expenditure during 2009-10		Rs. 9841 lakhs					
	Expenditure during 2010-11		Rs.206364 lakhs					
	Expenditure during 2011-12		Rs. 262658 lakhs					
	Expenditure during 2012-13		Rs. 125739 Lakhs					
	Expenditure during 2013-14		Rs. 12500 Lakhs					
	Expenditure during 2014-15		Rs. 61445 Lakhs					
	Expenditure during 2015-16		Rs. 165255 Lakhs					
	Expenditure during 2016-17		Rs. 18700 Lakhs					
	Total Expenditure up to 08/16		Rs. 862900 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. Presently no work is going at the site due to financial problems. Commissioning schedule would be assessed after re start of work.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Syn.	Comm	Syn.	Comm COD		
6	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 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. BLU delayed due to problem in main steam valve. The main steam valve was replaced with another new valve on 22.02.13. TG: erection started in 11/11and TG boxed-up 09/14 and 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	08/15	Uncertain		
	Original Estd. Cost		:Rs 5044.801 crores						
	Latest Est. Cost		:Rs. 7573.00 Crs.						
	Exp. During 2009-10		:Rs 14441 lakhs						
	Exp. During 2010-11		:Rs . 43617 lakhs						
	Exp. During 2011-12		:Rs . 88942 lakhs						
	Exp. During 2012-13		:Rs . 38000 lakhs						
	Exp. During 2013-14		:Rs . 38657 lakhs						
	Exp. During 2014-15		:Rs.15032 lakhs						
	Cumm. Exp. (up to 03/15)		:Rs.238689 lakhs						
	BOP Package		LOA has been issued on 21.11.08 on M/s Cethar Vessels Ltd , Thiruchirapalli on BTG basis , Boiler : Cethar Vessels Ltd, Turbine Genarator: M/s Harbine Turbine Co.Ltd, China						
	Type of fuel		Coal						
	PPA		50 MW to TNEB through NVVN (Short term basis) for one year. PPA was signed with CSPTCLL on 05.01.11						
	Power Evacuation system		: PGCIL granted LTOA & BPTA executed on 24.02.10. LILO line construction is completed. Elect. Inspectorate ,CEA (WR) has given approval for LILO and 400 kV switchyard on 04.08.12.						
			Land: Land : Required 261 Ha , Possession : 260.899 Ha. MOE&F: obtained on 09.06.09.and State pollution clearance obtained on 09.03.09 Civil Aviation: clearance obtained on 24.04.09 Water: 18 MCM Water allocated by WRD, Govt.of C.G from Hasdeo River Coal linkage: Allocation of coal is from Fatehpur East Coal Block (Jointly) allotted by MOC and tapering coal linkage granted for 2x135 MW on 29.01.10 from SLC, LT meeting of MOC, for 2nd phase of 1x270 MW under process with MoC. Carpet coal recommended for CEA for startup of 1st unit.						
Critical issues		Start up / carpet coal MOU is pending with SECL. FSA execution is pending with SECL Turbine -2 was ready from last 9 months (as on 09/14), For commissioning HEC/HTC Engineers are required. AVR Feed back Card- pending from long time, LVDT replacement- All the LVDT are not working. Rotor stoppage alarm panel to be supplied, supply of Technical data sheet of TG instruments and ISCAN-2 for Unit-2 as per letter dated in 09/14							
Reasons for Delay		Delay in commissioning of U-1.Agitation by villagers at site. Delay in supply of BTG and CHP material. Non corporation of BTG supplier in commissioning activities. Acquisition for railway siding and ash pond.							

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch	Com m	Syn.	Comm COD		
7	Nawapara TPP (TRN TPP), (Distt: Raigarh) M/s TRN Energy Pvt Ltd.	U-1	300	11/13	12/13	31.05.16 (A)	14.08.16(A) 19.08.16(A)	Unit-1 • Boiler Boiler erection started on 01.10.12. Boiler Drum lifted on 30.03.13. Boiler HT completed on 28.03.14 BLU completed on 25.12.15 Steam blowing completed on 07.01.16. Oil Synchronized on 31.05.16 Unit synchronized with coal on 20.06.16 Full load achieved on 14.08.16 • TG Condenser erection started on 04/14. TG erection started in 01.06.14. TG Boxed up in 12/15. TG put on barring gear in 12/15 insulation & cladding work completed. Condenser charged. Unit-2 • Boiler Boiler erection started in 06.03.13 Boiler Drum lifted on 21.09.13 Boiler HT completed on 28.08.15 BLU is expected in 11/16. SBO completion is expected in 11/16. Oil Synch. is expected in 12/16 Full load is expected in 12/16. • TG Condenser erection started on 08.07.15. TG erection started on 01.07.15. TG Box up is expected on 09/16. TG oil flushing expected on 10/16. TG on Barring Gear expected on 11/16. BoPs: • Chimney: All work completed. • CHP: All work completed. • AHP: All work completed. • Raw Water Supply System: RWPH is 17 Km from site, RWPH civil works along with pipe line to be taken up. CWPB: Excavation under progress (2+2+1 and 6.6kV) Reservoir excavation work is under progress. • CW System: For both units completed. • IDCT-I: commissioned IDCT-II: Work in progress • PT & DM Plant: commissioned. • FOHS : LDO & HFO system operational. • Switchyard: Switchyard charged and switchyard control building foundation under progress	
		U-2	300	03/14	04/14	11/16	12/16 01/17		
	Org.Est. cost / Latest Cost	:Rs. 284400 Lakhs/ 372597 lakhs							
	Exp. During 11-12	: Rs. 27800 lakhs							
	Exp during 12-13	: Rs. 40523 Lakhs							
	Exp during 13-14	: Rs. 121353 Lakhs							
	Exp during 14-15	:Rs. 78824 Lakhs							
	Exp during 15-16	: Rs 35400 Lakhs							
	Exp during 16-17	Rs. 20400 Lakhs							
	Cumm. Exp (06/16)	: Rs 324300 lakhs							
	Approval date:								
	Zero date:	27.06.11							
	Financial closure	Achieved on 18.12.09							
	Main Plant Order	: BTG Contract awarded on 27.01.11 to M/s China Western Power Co.Ltd.							
	BOP Package	The order for main plant civil & structural work and all the BOPs on EPC basis have already been placed on M/s BGR Energy Systems Ltd. on 09.06.11. The EPC contract covers all the onshore supplies, civil works, erection and commissioning of the project.							
	Type of fuel	Coal							
	PPA	Entered with Chhattisgarh State Power Trading Company Ltd. For 35% power in accordance with MOU with Govt. of Chhattisgarh. In case-1 bidding with UPPCL, TRN was in 2nd position.(L2) for 390 MW. PPA is with PTC on take or pay basis. As per Letter dated 13.01.14 Signed back to back PPA with PTC for supply of 390 MW to UPPCL on 25.07.13 and 5% of net power i.e 30 MW to be signed with CSPTCo. Ltd. As per Letter dated 28.04.16 Already signed PPA for sale of 5% of net power with C.S.P.T.Co on 26.05.15. Further, signed with UPPCL for sale of 390 MW .							
	Power Evacuation system	BPTA has signed with PGCIL for Raigarh Pooling Station (Tamnar) on 11.04.11 for 400 MW.							
	• Land: Land is in possession. • MOE&F: clearance has been received on 18.03.11 • Civil Aviation: Clearance received on 24.02.12 • Water: 19 McM has been allocated by W.R. Dept., Chhattisgarh. • Coal linkage: FSA signed on 23.11.2013								
Critical issues									
Reasons for Delay		Delay in start of Civil works. Slow progress in erection works of Boiler and T.G. Manpower shortage.							

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch	Comm	Syn.	Comm COD		
8	Deveri TPP Raigarh TPP (Visa)	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. Boiler drum lifting expected in 06/16. 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. TG erection start exp in 09/16. 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.	
	(VISA Raigarh STPP, Ph-I.)	U-2	660						
	(Distt: Jangir Champa)								
	M/s VISA Power Ltd.								
	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 GOCCG to execute PPA with Developers on behalf of the GOCCG. This PPA is in line with the implementation agreement executed with GOCCG							
	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	
9	Singhitarai TPP (DumatpalliTPP) Janjgir (Vill) Champa Distt. (M/s Athena Chhattisgarh Power Ltd)	U-1	600	10/14	11/14	03/17	03/17 03/17	• Unit-1: • Boiler Boiler erection started in 29/07/12. Drum lifted on 07.04.13. HT conducted on 18.03.15. Non-Drainable HT done on 08.10.15 BLU expected in 01/17 SBO Completion expected in 02/17 Syn. expected in 03/17. • TG TG erection started on 04.07.13. TG box up expected in 12/16. Oil flushing completion expected in 11/16 • Unit-2: • Boiler Boiler erection started on 24.12.12 Drum lifted on 30.10.13. HT expected in 11/16 BLU expected in 07/17 Syn. expected in 08/17 • TG TG erection started in 29.11.13 TG box up expected in 06/17.
		U-2	600	01/15	02/15	10/17	9/17 9/17	
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 08/16)		: Rs. 54173 lakhs						
Cum.Exp. up to 08/16		:Rs. 609228 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.						
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		
10	Binjkote TPP SKS power Gen. (Chhattis.) Ltd Vill-Binjkote, Distt.: Raigarh, State- Chhattisgarh	U-1	300	08/13	09/13	11/16	11/16 01/17	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. SBO completion expected in 11/16 .Syn Expected in 11/16.comm expected in 11/16. TG : Condenser erection started 04/14 .TG erection started in 05/14 .TG box up completed on 09.08.16. TG on barring gear expected in 11/16 Unit-2 Boiler : Boiler erection started on 08.09.12 . Boiler drum lifted on 30.05.13 .HT conducted on 03.11.14 . BLU expected in 11/16.SBO completion expected in 12/16 TG : Condenser erection started in 01/15 .TG erection Started in 09/14 .TG box up expected in 12/16.TG OF completion expected in 12/16. 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 to be comm on 20.04.16. 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	04/17	01/17 03/17		
		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: 510 acre of land acquired and 354 acre under acquisition. • MOE&F: obtained on 05.10.10 • 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.)							
Reasons for Delay		U-1: Delay in start of civil works. Delay in supply of the boiler Drum. Delay due to stoppage of erection work for boiler & TG because of change of STG erection agencies. Balance land acquisition for ash dyke. U-2: Delay in start of civil work. Slow progress of pressure parts erection. Balance land acquisition for ash dyke. U-3&4: Work yet to start. Balance land acquisition for ash dyke. Commissioning schedule would be assessed after restart of work.							

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch	Comm	Syn.	Comm COD	
11	Ratija TPS-II (Distt: Korba) M/s Spectrum coal & Power Ltd.	U-2	50	07/16	07/16	08/16	11/16 12/16	Unit-2 Boiler: Boiler erection started on 02.04.15. Drum lifted on 17.05.15. Boiler Hydro completed on 23.01.16. Boiler Light-Up completed. Unit Synchronized on 20.10.16. Full load expected in 11/16. TG: Air Cooled Condenser works started on 15.01.16. TG erection started on 20.05.16. TG boxed-up BoPs: Chimney: structure of 107m height completed and fir brick & painting work completed. CHP: Materail supplied and erection under process. AHP: Materail supplied and erection under process. CW System: Material supplied and erection completed. Commissioning completed. FOHS: erection completed. Switchyard: Erection completed and charging of switchyard completed.
Org.Est. cost / Latest Cost		:Rs. 28548.6 Lakhs/ 28548.6 lakhs						
Exp during 14-15 (Up to 03/15)		:Rs. 8851 Lakhs						
Exp. During 2015-16		Rs. 15876 Lakhs						
Cumm. Exp (06/16)		Rs 24727 lakhs						
Approval date:								
Zero date:		06.04.13						
Financial closure		Achieved from Axis Bank						
Main Plant Order		Boiler-Isgec Heavy Engg. Ltd. Noida (TG- BHEL). EPC including BTG Contract awarded on 06.04.13 to M/s Isgec Heavy Engg. Ltd, Noida.						
BOP Package								
Type of fuel		Coal						
PPA		5% of power will be supplied to CSPTC and balance power will be sold through exchange.						
Power Evacuation system		Long term open Access had been obtained for 100 MW vide letter No. C/ENG./W/06/SCPL dated 16.03. 2009 from PGCL.						
Land: land is under physical possession. MOE&F: Environmental clearance issued by SEIAA-CG on 29.11.13. Consent to establish issued on 01.09.14 Civil Aviation: AAI issued NOC on 21.12.15 Water: The water requirement shall be met from existing water allocation of 2.0 cu. Meter/hr. Coal linkage: Coal washery rejects available with SCPL								
Critical issues								
Reasons for Delay								

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch	Comm	Syn.	Comm COD		
12	Kasaipalli TPP (Chakabura Vill., Distt. Korba) M/s ACB (India) Ltd (Aryan Coal Benefications Pvt. Ltd)	U-1	135	10/10	11/10	06.10.11 (A)	13.12.11 (A) 02.01.12 (A)	Unit-1 Boiler: Boiler erection started on 08.10.09. Boiler drum lifted on 05.03.10. HT (non-drainable) completed on 30.10.10. Alkali Boil out completed on 08.05.11. BLU completed on 03.06.11. Steam blowing completed on 09.07.11. Unit synchronized on 06.10.11. Unit commissioned on 13.12.11 TG: TG erection started on 01.10.10. TG boxed up on 12.06.11. Unit-2 Boiler: Erection started on 01.12.09 and drum lifted on 10.06.10 .HT completed on 23.03.11 (non-drainable). BLU completed on 28.11.11. SBO completed on 18.12.11. Synchronized in 03/12(A). Full load achieved on 21.06.12 TG: TG erection started on 30.01.11. TG boxed up on 31.10.11	
		U-2	135	01/11	02/11	03/12 (A)	21.06.12 (A) 21.06.12 (A)		
	Est. approved cost		: Rs.126700 lakhs						
	Exp. Up to 31.03.09		: Rs. 13000 lakhs						
	Exp. During 09-10		:Rs 27234 lakhs						
	Exp. During 10-11		: Rs . 54966 lakhs						
	Exp. During 11-12		: Rs 23600 lakhs						
	Exp. During 12-13 (06/12)		: Rs 5700 lakhs						
	Cumm. Exp. (up to 06/12)		Rs 124500 lakhs						
	Approval date:		14.07.08						
	Zero date:		: 21.01.2009						
	Financial closure		: 25.08.2009						
	Main Plant Order		: on M/s Cethar Vessels Ltd in Nov.,08 (EPC)						
	BOP Package								
	Type of fuel		Washery Rejects based COAL						
	PPA		PPA was signed with GUVNL on 26.02.07						
	Power Evacuation system		Open Access has been granted from Sipat Pooling Station of Power Grid on 16.03.09. BPTA has been signed with PGCIL.						
	Land: Land acquired.. MOE&F: Environment clearance issued by the SEIAA on 22.12.08 Water: 10 MCM Water allocated in Jan.,08. Coal linkage: Long term agreement for purchase of washery rejects signed on 20.06.07 with GSECL for 25 years.								
Critical issues		Long term linkage for one million tonnes for blending submitted on 22.09.06. The energy department GoCG has recommended on 16.07.07. Allocation of Coal is still awaited.							
Reasons for Delay		Delay due to civil works. Problem in jacking oil pump. Spare not available. It is being arranged from China. Delay due to TG bearing failure.							

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch	Comm	Syn.	Comm COD	
13.	Ratija TPP (Distt. Korba) M/s Spectrum Coal & Power Ltd.	U-1	50	06/11	06/11	13.10.12 (A)	04.02.13(A) 27.02.13(A)	Unit-1 Boiler: Boiler erection started on 15.10.10. Drum lifted on 17.02.11. HT(Non-drainable) completed on 06.10.11. BLU completed 06/12. Synchronized on 13.10.12 and Full load achieved on 04.02.13. TG: Condenser & TG erection started on 17.03.11. TG box-up on 29.07.11.
	Est. Org. cost (1x50 MW)	: Rs.22000 lakhs						
	Exp. Up to 03/11	: Rs 16600 lakhs						
	Exp. In the year 2011-12 (02/12)	:Rs. 11900 lakhs						
	Cumm. Exp. (up to 02/12)	Rs 28500 lakhs						
	Financial closure	: Achieved on 16.09.09						
	Main Plant Order	: M/s QJPS , China, BTG 21.07.09						
	BOP Package							
	Type of fuel	Washery Rejects based COAL						
	PPA	: PPA was signed with Reliance Energy Ltd for 15 MW and balance PPA is with Gujarat Electricity Board.						
		- Land: Land acquired. - MOE&F: clearance obtained on 31.12.07 and state pollution clearance obtained. - Civil Aviation: Civil Aviation clearance obtained. - Water: 2 MCM Water allocated by Chhattisgarh Govt. - Coal linkage: Coal linkage from SECL. FSA could not be signed because of the CPP status of TPP as per LOA. This is an IPP & was never conceived as a CPP. Matter has already been taken up with MOC						
Critical issues		Coal linkage from SECL coal mines is approved. FSA could not be signed because the CPP status of TPP as per LOA. However, thus is an IPP & was never conceived as a CPP. Matter has already been taken up with Ministry of Coal.						
Reasons for Delay		Delay in readiness of switchyard and Electric system. Delay due to damage in steam regulating valve and problem in generator backer (Operational problems in commissioning process i.e Indicated as loss of pillage.) Vibrations in turbine bearings.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch	Comm	Syn.	Comm COD	
14.	Avantha Bhandar TPS-I (Distt. Raigarh) M/s Korba west Power company Ltd.	U-1	600	07/12	07/12	08.10.13 (A)	31.03.14(A) 01.04.14(A)	Unit-1 Boiler: Boiler erection started in Nov.,10. Drum lifted on 21.05.11. HT completed in 07/12 & HT Non-drainable completed. BLU completed on 06.03.13 with Temp. Chimney. EDTA completed and SBO also completed. Unit Synchronized on oil 08.10.13 & FL achieved on 31.03.14 TG: TG deck casted in 01/12. Condenser &Turbine erection started in 13.03.12. HP&LP Turbine erection completed. Box-up completed on 15.04.13. Final box up completed in 09/13.. TG oil flushing completed in 09/13. TG barring gear completed.
Est. approved cost		: Rs.287200 lakhs						
Est. approved cost (Latest)		: Rs.385000 lakhs						
Exp. 2008-09		: Rs2800 lakhs						
Exp. 2009-10		: Rs23100 lakhs						
Exp. During 10- 11		: Rs.48800 lakhs						
Exp. During 11-12		: Rs 114800 lakhs						
Exp. During 12-13		: Rs. 112500 lakh						
Exp. During 13-14(up to 01/14)		: Rs. 78600 lakh						
Cumm. Exp. (up to 01/14)		Rs 380600 lakhs						
Approval date:								
Zero date:								
Financial closure		June,09						
Main Plant Order		28.04.09 on M/s BHEL (BTG+Ele+C&I)						
BOP Package								
Type of fuel		Coal						
PPA		35% to Chhattisgarh State Power Trading Company Ltd 30% =180 MW on regulated tariff basis + 5%= 30MW on variable ccharge basis) as per MOU for 20 years and 35% (210 MW) to Reliance Energy Trading Company for 15 years (to distribute on licensee/sate electricity boards as per regulation) and 180 MW Untied (to be tied up through competitive bidding route/ short term route/Spot basis. Note: As per MOU & Implementation agreement PPA yet to be executed.						
Power Evacuation system		Master plan for power evacuation already made ready by PGCIL, pooling station identified. Order placed for 400 kV transmission line from KWPCIL to pooling point. BPTA with PGCIL. Prior approval of MoP under section -68 for dedicated transmission line obtained. Section -164 applied. 400kV Transmission Line: 66% excavation, 62% Tower foundation 59% Tower erection 30% stringing completed. (Stringing work up to LILO point completed in all respect. 400kV TL charged) foundation 42/64 completed. Tower erection 38/64 completed. Tower stringing 6.17/22.95 KM completed.						
Land: Total land Req. is 487 acres. 100% acquired MOE&F: letter received on 20.05.10 & state pollution board on 25.08.10 Civil Aviation: clearance completed on 05.05.09 Water: Water allocation completed in 07/2007. Coal linkage: LOA already received from SECL for 2x300 MW configurations. Amendment for change in configuration to 1x600 MW accorded vide MOC letter dated 19th May, 2011.								
Critical issues		Recommendation to MOC through MOP for change in unit size from 2x300 MW to 1x600 MW on 19.05.11. Chimney is in critical Path. (2.5 m/day). MGR is also on critical Path. Land acquisition is in progress for MGR and railway sliding from Railway station to Project site. Target is from 04/13 to 04/14). Road transportation of coal by road is 42 KM permission to be granted. Supply of material : Stator & Rotor received at site in 03/13(about 6 months delay)						
Reasons for Delay		Delay in civil works .Delay due to readiness of Chimney and CHP & AHP (MGR is delay due to delay in land acquisition) . SBO delayed due to critical piping and non-availability of material from BHEL.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch	Comm	Syn.	Comm COD	
15.	Badadarha TPP M/s DB Power Ltd Distt.- Janigir-Champa	U-1	600	03/13	03/13	09.10.13 (A)	23.02.14(A) 03.11.14(A)	Unit-1 Boiler: Boiler erection started on 14.03.11. Boiler drum lifted on 06.10.11. HT conducted on 17.08.12. HT non drainable completed on 5.03.13. BLU achieved on 15.03.13. EDTA completed on 14.06.13. SBO started on 0.08.13. SBO completed on 13.08.13. Synchronized on 09.10.13. FL achieved on 23.02.14. TG: TG civil works started on 14.02.12. Condenser erection started in 04/12 TG erection started in 06/12. TG Box up completed in 06/13. TG oil flushing completed on 13.08.13. TG on barring gear achieved on 16.09.13. Unit-2 Boiler: Boiler erection started on 05.08.11. Drum lifted on 24.02.12. HT conducted on 04.03.13. Non-drainable HT conducted on 31.10.13. BLU done on 24.12.13. SBO completed on 05.03.14. Synchronized in 3/15. FL load achieved on 24.03.15. TG: TG deck casted on 15.07.12. Condenser erection started on 15.12.12. TG erection started on 07/13. TG re-boxed up in 10/14.
		U-2	600	07/13	07/13	03/15(A)	24.03.15(A) 26.03.16(A)	
Est. approved cost		: Rs. 653300 lakhs						
Latest Cost		: Rs. 664000 lakhs						
Exp. During 2007-08		: Rs. 453 lakhs						
Exp. During 2008-09		: Rs. 1684 lakh						
Exp. During 2009-10		: Rs. 3297 lakhs						
Exp. During 2010-11		: Rs. 65959 lakhs						
Exp. During 2011-12		: Rs. 211266 lakhs						
Exp. During 2012-13		: Rs 196303 lakhs						
Exp. During 2013-14		: Rs 139249 lakhs						
Exp. During 2014-15(12/14)		: Rs 121089 lakhs						
Cum.Exp. up to 12/14		:Rs. 739300 lakhs						
Approval date:		07.01.08						
Zero date:		24.06.10						
Financial closure		25.03.11						
Main Plant Order		:BTG on BHEL on 24.06.10						
BOP Package		M/s Larsen & Toubro on 15.10.10. (EPC).						
Type of fuel		Coal						
PPA		39% with CSPHCL & 47% with PTC.208 MW with TANGEDCO-SR. MTOA for 123 MW with TANGEDCO-SR						
Power Evacuation system		: Signed with PGCIL on 24.2.2010.						
- Land: 630 Acres. - MOE&F: Achieved on 16.09.10. - Civil Aviation: - Water: 40 MCM Water from river Mahanadi allocated on 27.12.08. - Coal linkage: Coal block allotted on 6.11.07 (2.0MTPA). Linkage for LT from SECL for 2.497 MTPA and 2.497 MTPA from MCL. Yet to sign FSA.								
Critical issues								
Reasons for Delay		Late start of civil works. Delay in readiness of CHP, AHP and Mills. Delay due to problem faced in Generator Stator .Delay in supply of cannibalized/ missed items etc.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch	Comm	Syn.	Comm COD	
16.	Chakabura TPP M/s ACB Chakabura vill	U-1	30	08/13	09/13	31.01.14 (A)	28.03.14 (A) 30.03.14 (A)	Unit-1 Boiler: Boiler erection started on 03.06.12. Drum lifted on 09.11.12. HT (Non-drainable) completed on 25.05.13. BLU expected in 01/14 SBO expected 01/14 and unit synchronized on 31.01.14. Full load achieved on 28.03.14 TG: TG deck and all major foundations completed. Condenser erection start expected in 04/13. TG erection started on 30.04.13. TG boxed-up in 07/13. Oil flushing completed. Insulation is in Progress.
	Est. Org. cost (1x30 MW)		Rs 15286 Lakhs					
	Latest Cost		Rs. 15286 lakhs					
	Exp. In the year 2011-12		Rs 1400 lakhs					
	Exp. In the year 2012-13		Rs. 4800 lakhs					
	Exp. In the year 2013-14 (Up to 12/13)		Rs. 10202 lakhs					
	Cumm. Exp. (up to 12/13)		Rs. 16402 Lakhs					
	Approval date:							
	Zero date:							
	Financial closure		Achieved on 28.11.11					
	Main Plant Order		07.09.11 Boiler on M/s Sichuan Chuanguan Boiler Co. China & Turbine on M/s Siemen Ltd. Baroda					
	Type of fuel		Washery reject coal					
	PPA		Yet to be done					
	Land: Land already in ACBIL’s possession MOE&F: Obtained on 23.11.09 vide letter no. 378/SEIAA-CG/EC/TPP/KOR/77/09. Civil Aviation: Obtained from Airport Authority of India on 11.09.07. Water: Allocated on 18.01.06. Coal linkage: Washery rejects available with ACBIL							
	Critical issues		Project is washery reject based for which policy is yet to be finalised by the Govt.					
Reasons for Delay		Delay in readiness of Cooling Tower.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch	Comm	Syn.	Comm COD	
17.	Swastik TPP M/s SPMRPL Kanber vill Korba Distt.	U-1	25	06/12	06/12	15.03.15 (A)	31.03.15 (A)	Unit-1 Boiler: Boiler erection started on 16.11.10. Drum lifted on 10.03.11. HT completed on 06.09.13. BLU completed on 01.01.15. SBO completed on 14.02.15. Unit Synchronized on 15.03.15. Full load achieved on 31.03.15. TG: Condenser erection started on 01.04.12. Turbine erection started on 15.04.12. TG box-up completed on 10.03.13. Oil flushing completed on 20.05.13 & Barring gear completed on 10.08.13.
	Est. Org. cost (1x20 MW)	Rs 13600 Lakhs						
	Latest Cost	Rs. 14200 lakhs						
	Exp. 2010-11	Rs. 5805 Lakhs						
	Exp. In the year 2011-12	Rs 6263 lakhs						
	Exp. In the year 2012-13	Rs. 4551 lakhs						
	Exp. In the year 2013-14	Rs 2210 lakhs						
	Exp. In the year 2014-15 (Up to 12/14)	Rs 2255 lakhs						
	Cumm. Exp. (up to 12/14)	Rs 21084 Lakhs						
	Zero date:							
	Financial closure	Achieved on 30.09.09						
	Main Plant Order	CFBC Boiler awarded on 29.03.10 to M/s IJT, Noida and TG set awarded to Siemens, Baroda on 25.02.10						
	BOP Package							
	Type of fuel	Washery reject coal						
	PPA	PPA for supply of 30 MW was signed with PTC on 20.04.09. Recently, on 17.10.13, PTC has been intimated that the contracted capacity will be 20MW out of one unit of 25 MW. PPA for 5% t.e 1.25 MW of net power shall be signed with CSPTCL						
			Land: . Land acquired MOE&F :Obtained from Member Secretary , Chhattisgarh Environment Conservation Board. Civil Aviation:. Obtained from Airport Authority of India. Water: Allotted by Secretary (WRD) Govt. of Chhattisgarh Coal linkage:. Under consideration with MOC					
Critical issues		Project is washery reject based for which policy is yet to be finalized by the Govt.						
Reasons for Delay		Project got delayed due to CHP contract revision by M/s OSM. Fund problem due to change in ownership. Delay in refractory work of boiler by M/s IJT. Delay in getting the start-up Power. Defect in Super heater coil which was sent to Yamuna Nagar for proper welding						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch	Comm	Syn.	Comm COD		
18	Tamnar TPP (O.P. Jindal STPP at Raigarh) M/s Jindal Power Ltd	U-1	600	11/13	01/14	30.09.13 (A)	10.03.14 (A) 14.03.14(A)	Unit-1 Boiler: Boiler erection started on 18.11.11. Drum lifted on 06.03.12. HT completed on 02.02.13 & BLU completed on 30.03.13. Insulation for Boiler completed. Steam blowing completed on 15.08.13. Unit synchronized with oil on 30.09.13. Unit Commissioned on 10.03.14. TG: TG erection started on 05.09.12. TG box-up completed on 28.06.13. TG lub oil flushing completed on 30.08.13. TG barring gear on 16.09.13. Unit-2 Boiler: Boiler erection started on 15.01.12. Drum lifted on 05.07.12. HT completed on 16.04.13. BLU completed on 18.12.13. Unit synchronized with oil on 22.02.14 & FL achieved on 30.03.14. TG: TG erection started on 05.01.13. TG boxed up on 05.01.14. TG oil flushing completed on 23.01.14 and barring gear completed on 10.02.14. Unit-3 Boiler: Boiler erection started 23.11.12. Drum lifted on 27.02.13 in a record time of 96 days. HT completed on 29.12.13. BLU completed on 25.01.14. Unit synchronized on 31.03.14 and full load on 07.01.15. TG: TG erection started on 30.09.13. TG boxed up on 19.02.14. Unit-4 Boiler: Boiler erection started and Drum lifted on 18.10.13. HT completed on 27.11.14. BLU completed on 21.01.15. SBO completed on 23.02.15. Unit Synchronized in 03/15 and FL achieved on 26.03.15. TG: Condenser erection completed and TG erection started on 25.03.14 and boxed-up on 20.10.14. Oil flushing completed on 13.02.14. Barring gear expected in 03/15.	
		U-2	600	02/14	04/14	22.02.14(A)	30.03.14(A) 31.03.14(A)		
		U-3	600	07/14	09/14	31.03.14(A)	07.01.15(A)		
		U-4	600	09/14	11/14	03/15 (A)	26.03.15(A)		
	Est. approved cost (org for 4 units))		Rs. 1280000 lakhs						
	Est. approved cost (latest) For 4 units		: Rs. 1314000 lakhs						
	Exp. During 2011-12		: Rs: 289600 lakhs						
	Exp during 2012-13		: Rs. 230400 Lakhs						
	Exp during 2013-14		: Rs. 270000 Lakhs						
	Exp during 2014-15 (Up to 12/14)		: Rs. 121243 Lakhs						
	Cum.Exp. up to 12/14		: Rs 911243 Lakhs						
	Approval date:		Consent to establish obtained from C.E>C.B on 15.11.11.						
	Zero date:								
	Financial closure		26.03.2010						
	Main Plant Order		Main plant package (BTG) awarded in Dec.2008 on BHEL. (Rs 5040 Crs.)						
	Type of fuel		Coal						
	PPA		MOU with state Govt. JPL has to supply 30%(720MW) at the rate fixed by SERC and 5%(108 MW) at variable charges to State Govt. or its nominated agencies. PPA sign shortly. U-1,2=1200MW: Aux.Com-84 MW +400MW with TANGEDCO for 20 years+56 MW with CSPTCL for 20 years 660 MW Untied 300MW for 20 years with UPPCL under finalization through MOU U-3,4 =1200: Aux com- 84 MW 1116 MW Untied 416 MW Under MOU Route with CSPTCL for 20 years						
	Power Evacuation system		Agreement for LT access signed with PGCIL dated 24.02.12.						
		Land: Land requirement for 3400 MW land requirement is 955 Ha. Land available is 766.66 Ha. Remaining land is under acquisition. Main Plant of JPL PH-II (4x600 MW) is coming up on 115 Ha land which is part of the 360 Ha approved in 1997 for Ph-I of 4x250MW. Out of 115 Ha land, JPL not able to buy 53 Ha due to ban for sale/purchase/registry of land in the prospecting lease with CMDC in Sep.,2006. MOE&F: MOEF clearance had withdrawn the TPR for the project in 06/2010. However, MOEF accorded clearance for 2x600 MW on 18.03.11. and for U-3 & 4 (2x600) received on 04.11.11. Consent to establish of the project from SPCB on 15.11.11 for domestic linkage coal for 2x600 MW and imported coal for U-3 & 4. Civil Aviation: Clearance obtained on 22.01.10 Water: 70 MCM Water approval received on 26.02.09 Coal linkage: For U-I &2: LOA from SECL & MCL. All milestones activities related to LOA achieved. Execution of FSA is in process. For U-3 &4: for in-term period till coal linkage, imported coal will be used from Mozambique.							
Critical issues		No PPA for remaining power and hence FSA has not signed with SECL and MCL. Evacuation problem.							
Reasons for Delay		Delay in U-3 is due to start of boiler erection. U-4: Delay in readiness of main plant civil works. Slow progress of boiler erection. Consent for transportation of coal by road yet to be received (Jindal Power) Consent to operate to be obtained from SPCB Unit-3 & 4: Consent to operate has been obtained from CS Govt. Only on oil. Consent to operate with coal vet to be obtained.							

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch	Comm	Syn.	Comm COD		
19.	Bandakhar TPP Maruti Clean Coal &Power Ltd Distt.- Korba , Chhattisgarh	U-1	300	11/12	12/12	17.04.15 (A)	19.06.15(A) 31.07.15(A)	Unit-1 Boiler: Boiler erection started in 27.05.12. Boiler drum lifted on 06.01.13 .. HT completed on 30.07.13, Non-drainable HT completed on 09.04.14 and Chemical cleaning completed on 19.08.14. BLU completed on 22.09.14. SBO completed & Oil Syn. Completed on 17.04.15 and unit achieved 94.5 MW load on 01.05.15. Full load achieved on 19.06.15 TG: TG deck casting completed on 23.12.12. Turbine erection started on 25.01.13. TG boxed up on 22.02.14 and oil flushing completed on 14.11.14.	
	Est. approved cost	Rs. 145640 lakhs							
	Exp. During 2009-10	Rs 391 lakhs							
	Exp. During 2010-11	Rs. 6400 lakhs							
	Exp. During 2011-12	Rs. 20504 lakhs							
	Exp. During 2012-13	Rs. 57205 lakhs							
	Exp. During 2013-14	Rs.39351.7 lakhs							
	Exp. During 2014-15(Up to 12/14)	Rs. 27448.3 lakhs							
	Cum.Exp. up to 12/14	Rs 151300 lakhs							
	Zero date:	07.06.2011							
	Financial closure	Achieved 14.01.11							
	Main Plant Order	BTG on M/s China Western Power Industries Co. Ltd. (CWPC) on 07.06.11. Boiler: China Western Power Industries Co. Ltd (CWPC), China TG: Beijing Beizhong Steam Turbine Generator Co. Ltd. China							
	BOP Package	EPC contract on M/s IOT Infrastructure & Energy Services Ltd. On 07.06.2011 and BTG on M/s China Western Power Industries Co. Ltd. (CWPC) on 07.06.11							
	Type of fuel	Coal							
	PPA	PPA signed with CSPTCL for 104 MW and 171 MW on Merchant basis and 25MW auxiliary consumption. PPA as per letter dated 13.01.14, Signed back to back PPA with PTC for supply of 250 MW power to RVPNL on 01.11.13 and 5% of net power i.e 15 MW with CSPR Co. Ltd on 09.12.13.							
	Power Evacuation system	BPTA Signed with PGCIL on 24.02.10 for open access and bank guarantee submitted to PGCIL on 23.04.10.							
	Land: Total Land required/ Land possession – 427.83 ares/408.43 acres in position (343.04 Govt land +84.83 Pvt. Land) remaining 19.44 acres of land is tribe land. Applied for acquisition to GoCG. Section –IX notice issued on 16.01.12. MOE&F: Environment Clearance obtained on 12.05.10. Consent to establish granted by State pollution control board on 02.11.11. Civil Aviation: Civil Aviation clearance from AAI obtained. Water: 3.09 MCM Water allocated from WRD, GoCG on 05.10.11 Coal linkage: LOA received for 1.3003 Million Tonnes per Annum from SLC(LT). LOA issued from SECL on 26.10.10.FSA signed with M/s SECL on 28.08.13 BPTA: BPTA signed with PGCIL on 24.02.10 for open access and bank guarantee submitted to PGCIL on 23.04.10.								
Critical issues		Delay in start of civil works. Works suffered due to financial problem. Delay in readiness of CHP & AHP and problem in generator stator.							
Reasons for Delay									

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch	Comm	Syn.	Comm COD		
20	Balco TPS Distt. Korba M/s Balco	U-1	300	07/10	09/10	09/11(A)	04.06.15(A) 30.03.16(A)	Unit-1 Boiler: Drum lifted on 09.05.09. HT completed on 15.09.10. .BLU completed on 25.05.11. Acid cleaning on 05.07.11. Steam blowing completed on 14.08.11. Unit synchronized with oil on 06.09.11. Re synchronized in 05/15, Full load achieved on 04.06.15 TG: TG erection started on 12.02.10. Turbine box up Completed on 20.10.10. Oil flushing completed. Unit-2 Boiler: Drum lifted on 14.05.10. HT completed on 14.10.11. BLU completed on 10.04.12. Steam blowing completed on 25.04.12. Unit Synchronized on 22.05.12. Unit Re synchronized on 12.03.16 with oil and after that coal firing also done, unit obtained 150 MW. Unit achieved Full load on 24.03.16 TG: TG erection started on 25.07.10. Turbine box up completed on 10.10.11. Oil flushing completed	
		U-2	300	02//10	04/10	05/12(A)	24.03.16 (A) 31.03.16(A)		
		U-3	300	Captive Unit					
		U-4	300	Captive Unit					
		Est. approved cost		: Rs.465000 lakhs					
	Latest Cost 25% increase		: Rs. 582250 lakhs						
	Expenditure 2007-08		: Rs. 41710.5 lakhs						
	Expenditure 2008-09		: Rs. 80073 Lakhs						
	Expenditure 2009-10		:Rs . 73610 Lakhs						
	Expenditure 2010-11		:Rs . 78120 Lakhs						
	Expenditure 2011-12		:Rs . 41330 Lakhs						
	Expenditure 2012-13		:Rs . 32876 Lakhs						
	Expenditure 2013-14		:Rs 18380 Lakhs						
	Expenditure 2014-15 (Up to 01/15)		:Rs 30400 Lakhs						
	Cumm. Exp. (up to 01/15)		:Rs 396500 Lakhs						
	Approval date:								
	Zero date:		01.11.07						
	Financial closure		08/2011 for U-1 &2						
	Main Plant Order		SEPCO electric Power Construction Corporation on 20.08.07 on EPC basis						
	Type of fuel		Coal						
	PPA		As per letter dated 14.01.14: 100MW with Tamil Nadu (TANGEDCO) starting from 01.02.14 to 30.09.28, 100MW with Tamil Nadu (TANGEDCO) starting from 01.06.14 to 30.09.28 and 100MW with Kerala (CSPTrdCL) starting from 01.03.14 to 28.02.17. PPA signed with CStrading Compy. Ltd for 5% net power (2x300MW) = 30 MW						
	Power Evacuation system								
			• MOE&F: clearances received. • Civil Aviation: clearances received. • Water: Water allocation on 18.10.07. • Coal linkage: The Taraimar (Durgapur-II) Coal block in Chhattisgarh allotted						
Critical issues		The issue E Visa to the SEPCO/OEMs persons is an issue and has delayed the activities like back charging, TG box up commissioning activities of critical equipment. CEA recommended to MOC for allotting 50,000 MT of coal. Project Authorities requested CEA for another 1,00,000 Tonnes of coal.							
Reasons for Delay		Collapse of Chimney, Project was delayed due to non-availability of consent to operation from the state Government. The first unit is already commissioned and COD conducted. There is no commercial interest for the Developer to commission the second unit as PPA is only for 300 MW out of plant capacity of 600 MW. However merchant sale/ short term sale can be effected for which the Dharamjaygarh link is to be made available. (2 Towers are stuck up for forest clearance) – The line is now projected for completion in Oct.’15. Accordingly, 2nd unit commissioning in Nov./ Dec.’15.							

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch	Comm	Syn.	Comm COD		
21.	Raikheda TPP, (Distt: Raipur) M/s GMR Chhattisgarh Energy Ltd.	U-1	685	09/13	10/13	02.10.14 (A)	27.02.15 (A) 01.06.15 (A)	Unit-1 Boiler: Boiler erection started on 09.11.11 Boiler ceiling girder lifted on 11.04.12 Boiler HT completed on 27.03.13. BLU completed on 29.04.14 SBO completed on 13.08.14. Oil Synch. Completed on 02.10.14 Coal Firing completed on 02.11.14. Full load achieved on 27.02.15. COD on 01.06.15 TG: TG deck casting completed on 10.05.12. TG erection started on 13.08.12. TG Boxed up on 21.03.14. TG oil flushing completed on 25.04.14. TG on BG done on 12.06.14 Unit-2 Boiler: Boiler erection started on 03.04.12 and boiler structural erection is in progress. Boiler ceiling girder lifted on 26.09.12. Boiler HT completed on 30.07.14 BLU completed on 27.03.15 SBO started on 02.07.15 SBO Completed on 13.07.15 Unit Synchronized with Oil on 14.10.15 Full load Achieved on 28.03.16 TG: TG deck casting completed on 05.10.12. Condenser erection started on 16.01.13 TG erection started on 24.01.13. TG Box up completed on 31.10.14 TG oil flushing completed on 10.12.14 TG on BG on 01.02.15	
		U-2	685	01/14	02/14	14.10.15 (A)	28.03.16 (A) 01.04.16 (A)		
	Org.Est. cost	:Rs.829000 Lakhs							
	Latest Cost	: Rs. 1101600 Lakhs							
	Exp. 2007-08	: Rs. 727 lakhs							
	Exp. 2008-09	: Rs. 3801 lakhs							
	Exp. 2009-10	: Rs. 9300 lakhs							
	Exp. 2010-11	: Rs. 108402 lakhs							
	Exp. 2011-12	: Rs. 204593 lakhs							
	Exp. 12-13	: Rs. 313596 lakhs							
	Exp. 13-14	: Rs. 198888 lakhs							
	Exp. 14-15	: Rs. 150756 lakhs							
	Exp. 15-16 (up to 11/15)	: RS. 94308 lakhs							
	Cumm. Exp. (11/15)	: Rs. 1084371 lakhs							
	Approval date:								
	Zero date:	22.01.2010							
	Financial closure	Achieved on 10.12.10							
	Main Plant Order	BTG Contract awarded on 22.01.10 to M/s Doosan Power System India. (Boiler-Doosan) (TG- Doosan							
	BOP Package	all the BOPs on EPC basis have already been placed on M/s BGR Energy Systems Ltd. on 09.06.11. The EPC contract covers all the onshore supplies, civil works, erection and commissioning of the project.							
	Type of fuel	Coal							
	PPA	PPA entered with Chhattisgarh State Power Trading Company Ltd. for 35% power on 05.01.11. Unable to Participating in case-I Bidding for the balance 65% PPA due to non-availability of coal block/ coal linkage.							
	Power Evacuation system	Power Evacuation System: BPTA has signed with PGCIL for Raigarh Pooling Station (Tamnar) on 11.04.11 for 400 MW. As per the letter dated 15.01.14 , PPA details 474 MW for 20 years with CSPTC							
	- Land: 100% land acquisition completed - MOE&F: clearance obtained on 09.05.11 - Civil Aviation: Chimney height clearance received from AAI on 08.10.09. - Water: . 36 MCM water allocation has been received from WRD , GoC in July,09 - Coal linkage: FSA signing is in progress with SECL								
Critical issues	No Coal Linkage and no PPA and no Power Evacuation Corridor to Northern Region and Southern Region. Talabira is the linked mine for unit-1 which is IN operational. Geneshpur coal mine has been allocated for Unit-2 which is expected to produce coal from April.,18 till that time tapering coal linkage is required (2.5 years). Coal Linkage is awaited. PPA for balance 65% power is yet to be signed (due to non-availability of Coal Block/Coal Linkage, unable to participate in Case-I Bidding. CEA is requested to expedite with MOC for allocation of coal linkage on priority.								
Reasons for Delay	Delay in start of civil works. Progress of various activities suffered some time due to financial problems.								

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									
	Pipavav CCPP, Ph-I, GSPC PIPAVAV Power Cop. Ltd., Distt: Amreli, GPPCL	Blk-I	GT=222 ST=129	07/10 09/10	09/10	10/13(A) 02/14(A)	02/14 (A)	Block-I: - On 08.08.09, truck carrying GT-1 from Mudra port to Pipavav site fell into river due to collapse of 3rd span slab of the bridge over Shetrunji river near Bhavnagar (about 100 km from site). BHEL have now supplied new GT in place of that GT. GT-1: Supply of GT was received at site on 10.7.11. GT erection started in 09/11. The work on Blk-I was on hold due to supply of damaged compressor rotor of GT-1. Replacement of damaged stator vanes has completed. Now GT has boxed up. GT FSNL achieved on 09.10.13. GT synchronized on 10.10.13. IBH header rectification work completed on 03.12.13. HRSG-1: Erection started on 24.11.09. HT completed in 11/11. Re-hydro test completed on 15.8.13. ABO completed on 11/12.10.13.SBO started on 15.10.13 but stopped due to IBH header failure on 18.10.13. Now after rectification of IBH header SBO restarted on 10.12.13 and completed on 13.12.13. Normalization completed by end 12/13. ST-I: Supply of HP-IP & LPT turbine received at site. Erection started on 22.10.11. ST box up already achieved. Oil flushing completed. TG is on Barring Gear. GRP pipeline rectification work started on 03.12.13 and completed on 15.01.14. Steam Dumping completed on 20.01.14. ST synch. achieved on 01.02.14. Combined cycle commissioning achieved on 5.2.14. - There is no provision of by pass stack hence GTs can not run in open cycle. Block-II: - GT-2 turning gear operation achieved on 01.03.13. Cranking done on 3.3.13. FSNL achieved on 06.03.13. Synchronization achieved on 13.03.13. ST synchronization achieved on 26.03.13. Combined cycle commissioning achieved on 27 03.13 (Base load of 338MW). BoPs: Though there was lot of delay in completion of most of the BoPs by BHEL and their sub-vendors. Now all the BoPs are ready.	
		Blk-2	GT=222 ST=129	10/10 11/10	11/10	03/13(A) 03/13(A)	03/13 (A)		
	Original Estd. Cost		: Rs.235429 Lakhs						
	Latest Est. Cost		: Rs.302900 Lakhs						
	Expenditure upto 03/08		: Rs. 23214 Lakhs						
	Expenditure during 2008-09		: Rs. 8272 Lakhs						
	Expenditure during 2009-10		: Rs. 40247 Lakhs						
	Expenditure during 2010-11		: Rs. 55841 Lakhs						
	Expenditure during 2011-12		: Rs. 69524 Lakhs						
	Expenditure during 2012-13		: Rs. 30767 Lakhs						
	Expenditure during 2013-14		: Rs.23401 Lakhs						
	Total Expenditure		:Rs.251266 Lakhs						
	Approval date:		: NA						
	Zero date:		: 29/03/08						
	Notice To Proceed (NTP)		: 29/03/08						
	Financial closure		: 24/01/08						
	Main Plant Order		: LOA on 27 /12 /07 , BHEL (actual order in March 08)on EPC basis						
	BOP Package		:BHEL on EPC basis						
	Type of fuel		: Natural Gas(base fuel)/LNG (3.2 mmscmd gas from GSPC)						
	PPA		:GUVNL						
	Source and supply of Fuel		: Gas supply agreement with M/s GSPC and Gas transportation agreement with M/s GSPL						
Power Evacuation system		: 3 Double Ckt 220 kV line erected by GETCO: 1. Pipavav- Saverkundla line 2. Pipavav- Dhokabada line 3. Pipavav- Mahuva line							
- All required clearances are available. - Sea water intake and outfall system is ready (GPPC). - Switchyard back-charging completed on 22.10.11. - Power evacuation arrangement ready for 900MW from 07/12.									
Critical issues	The permanent rectification of GRP pipeline and completion of pending civil works were very critical in the project.								
Reasons for Delay	- Delay in supply of GT by BHEL. - Supply of pending DUs for GT-2 from BHEL Hyderabad and other BHEL units . - BHEL/BJCL were slow in execution of civil works. (less manpower) - All the jobs of unit-1 were put on hold due to Gas Turbine rotor Damage on 12.02.12. FF system, ECP, RODM, CW&ACW DG set and Expansion bellows. - GT erection progress was very slow due to poor support from BHEL-Hyderabad and less manpower of M/s Indwell. Poor quality of on base pipes had further delayed the erection work. - Damage of GT-1 due to fall in river during transition. - Damage of compressor rotor of GT-1. - Delay in readiness of BoPs by BHEL/Sub-vendors. - Less manpower and non-availability of gas also delayed the project.								

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch/. Comm	COD	Synch/. Comm	COD		
State Sector									
	Ukai TPS Extn. Unit-6 GSECL, Dist : Tapi, Gujarat	6	500	12/10 01/11	03/11	10/12(A) 03/13(A)	06/13 (A)	Boiler: Boiler erection started in 06.05.09. Boiler Drum lifted on 31.12.2009. Hydraulic test completed on 14.10.10. BLU completed on 07.03.12. EDTA completed in 04/12. SBO started in 06/12 and completed in 08/12. Oil synchronization achieved on 01.10.12. Coal synchronization achieved on 25.12.12. Full load achieved on 5.3.13. COD achieved on 08.06.13. TG: T.G deck casting completed. TG Erection started on 12.07.11. TG box up completed on 27.02.12. TG oil flushing completed in 07/12. TG deck floating completed in 09/12. TG put on BG on 21.09.12. BoPs: The order of this project was placed on BHEL on EPC Basis. Most of the BoPs were delayed by BHEL. The project was commissioned with water and coal contingency from the existing plant.	
Original Estd. Cost			: Rs. 195000 Lacs						
Latest Est. Cost			: Rs. 217950 Lacs						
Expenditure during 2007-08			: Rs. 11750.00 Lacs						
Expenditure during 2008-09			: Rs. 23484.36 Lacs						
Expenditure during 2009-10			: Rs. 47076.96 Lacs						
Expenditure during 2010-11			: Rs. 62383.64 Lacs						
Expenditure during 2011-12			: Rs 40864.89 Lacs						
Expenditure during 2012-13			: Rs 59375.60 Lakh						
Expenditure during 2013-14			: Rs 45200.51 Lakh						
Expenditure during 2014-15			: Rs 13953.13 Lakh						
Expenditure during 2015-16			: Rs 3548.79 Lakh						
Total Expenditure (08/16)			: Rs 307637.88 Lakh						
Approval date:			:NA						
Zero date:			: 06.10.07						
Notice To Proceed (NTP)									
Financial closure			: 21.09.07						
Main Plant Order			: 07.09.07 .on M/s BHEL (EPC)						
BOP Package			: BHEL (EPC)						
Type of fuel			:Coal						
PPA			: GUVNL(1.01.11)						
Source and supply of Fuel			, Coal allocated from captive mines-Machhakata in Orissa.						
Power Evacuation system			: Existing						
- MOE&F clearance obtained on 13.06.08 - All clearances received.									
Critical issues									
Reasons for Delay		Inadequate and non-sequential supply of BTG material by BHEL. Delay in placement of order for BoPs by BHEL.Delay in readiness of BoPs by BHEL/Sub-vendors.Shortage of manpower by BHEL/sub-vendors. During the execution of the project criticalities such as completion of water system, RHS Milling system, AHP&CHP. There was delay in placement of order for BOPs such as PT, DM, AC, FO, C&I, switchgear, HT/LT, power Transformer, Fire Protection and Insulation etc. Compactness of site were faced.							

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
State Sector								
	SikkaTPS Extn. GSECL, Dist: Jamnagar Gujarat	3	250	08/13 10/13	11/13	02/15(A) 03/15(A)	09/15 (A)	<u>Unit-3 Boiler</u> Boiler civil works started on 09.08.11. Boiler erection started from 24.10.11. Boiler drum lifted on 29.03.12. HT completed on 02.03.13. BLU completed on 22.03.14. HT (Non-Drainable) completed on 10.07.14. EDTA completed on 19.11.14. SBO completed on 31.12.14. ST-3 charged on 30.10.14. Oil synchronization achieved on 09.02.15. ERH completed on 24.03.15. Coal firing achieved on 25.03.15. Full load achieved on 29.03.15. COD achieved on 14.09.15.
		4	250	11/13 01/14	02/14	08/15(A) 09/15(A)	12/15 (A)	
	Original Estd. Cost		: Rs. 200400 Lakh					
	Latest Est. Cost		: Rs 235600 Lakh					
	Expenditure during 2007-08		: Rs. 15500.00 Lakh					
	Expenditure during 2008-09		: Rs. 24192.70 Lakh					
	Expenditure during 2009-10		: Rs. 33706.20 Lakh					
	Expenditure during 2010-11		: Rs 18324.40 Lakh					
	Expenditure during 2011-12		: Rs 58856.44 Lakh					
	Expenditure during 2012-13		: Rs 70749.26Lakh					
	Expenditure during 2013-14		: Rs 31594.15Lakh					
	Expenditure during 2014-15		: Rs 50235.80 Lakh					
	Expenditure during 2015-16		: Rs 26457.99 Lakh					
	Total Expenditure (08/16)		: Rs.329616.94 Lakh					
	Approval date:		;NA					
	Zero date:		: 22.05.07 (Revised date is 10.07.11)					
	Notice To Proceed (NTP)		:10.07.11					
	Financial closure		: 30.03.10					
	Main Plant Order		: 10.05.07 on M/s BHEL (EPC)					
	BOP Package		(Boiler design modified by BHEL for imported coal)					
	Type of fuel		: Imported Coal					
	PPA		:GUVNL(01.01.11)					
	Source and supply of Fuel		Imported Coal					
	Power Evacuation system		: Made ready by GETCO 6 months before COD.					
			• MOE&F clearance obtained on 28.06.10. • M/s TCE appointed as consultant. • Construction activities started from 06.07.10. • Revised L1 schedule approved on 21.12.11. • U-3 erection agency for BTG M/s Karpara has been replaced by M/s Power Mech Engrs (Boiler) and M/s Alpha Power Engg.,Pvt Ltd.					
	Critical issues	• Readiness of CHP& AHP						
	Reasons for Delay	• Very slow work progress at CHP area by BHEL(ISG) • Very slow erection work progress in HP/LP piping, Cabling work of Unit-3&4 • Slow progress for erection of GRP piping for CW system. • Slow progress of Chimney structure & platform erection. • Mechanical Erection work in CHP area was put on hold by M/s Elecon. • Due to non-readiness of Bottom ash and Fly ash handling system of #4 , coal firing activity of #4 was delayed. Also slow civil work Progress in CHP & AHP areas by BHEL (ISG). • Change of Boiler and TG erection agency						
		<u>Unit-4 Boiler</u> Boiler civil works started on 09.08.11. Boiler erection started on 09.01.12. Boiler drum lifting completed on 23.05.12. HT completed on 30.06.13. BLU completed on 18.10.14. EDTA completed on 23.01.15. SBO started on 21.02.15 and completed on 03.03.15. Unit normalization also completed. GT-4 back charged on 24.03.15 & it tripped on differential & Buchholz protection after running of two hours. After detailed investigation, GT sent to BHEL-Bhopal for repairing and reached back at site in 07/15. Oil Synchronization achieved on 30.08.15. Full load achieved on 25.09.15. COD achieved on 27.12.15.						
		<u>TG</u> TG civil works started 09.08.11. TG erection started in 01/13. TG Box up completed on 14.03.14. TG oil flushing completed on 10.03.15. TG put on BG on 15.03.15.						
		<u>BoPs:</u> • As the project was on EPC basis to BHEL. There was delay in readiness of BoPs. Though both the units have already been commissioned with contingencies, CHP is yet to be made ready.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
State Sector								
	Bhavnagar Lignite TPP, Bhavnagar Energy Company Limited(BECL), Dist: Bhavnagar, Gujarat	1	250	01/13 02/13	03/13	11/15(A) 05/16(A)	09/16	Unit-1 Boiler Boiler erection started on 23.12.11. Boiler drum lifted on 03.06.12. HT completed on 01.06.13. ST charging completed in 09/14. BLU achieved on 28.02.15. EDTA completed in 05/15. SBO started on 15.07.15 and completed on 04.10.15. Unit normalization also completed. Steam dumping completed on 22.11.15. TG rolling done on 23.11.15. Synchronization (Oil) achieved on 25.11.15. Synchronization with Lignite achieved on 08.05.16. Commissioning/Full Load achieved on 16.05.16.
		2	250	04/13 05/13	06/13	06/16 (A) 09/16	10/16	
	Original Estd. Cost		: Rs. 374208 Lakh					
	Latest Est. Cost		: Rs. 422311 Lakh					
	Expenditure during 2010-11		: Rs. 42533 Lakh					
	Expenditure during 2011-12		: Rs. 75389 Lakh					
	Expenditure during 2012-13		: Rs 123720 Lakh					
	Expenditure during 2013-14		: Rs 75612 Lakh					
	Expenditure during 2014-15		: Rs 44954 Lakh					
	Expenditure during 2015-16		: Rs - Lakh					
	Total Expenditure(upto03/15)		: Rs.362215 Lakh					
	Approval date:		: NA					
	Zero date:		: 18.02.10					
	Notice To Proceed (NTP)							
	Financial closure		: Achieved					
	Main Plant Order		: 18.02.10 on M/s BHEL (BTG)					
	BOP Package		: Reputed Indian Vendors					
	Type of fuel		: Lignite (Captive Mines)					
	PPA		: GUVNL					
	Source and supply of Fuel		: Captive mines					
Power Evacuation system								
		- All required clearances are available. - M/s TCE appointed as consultant. - Zero date of the project is 18.02.10. - Order for all the BOP packages already placed and site mobilized. - They are having their own captive Lignite mines (Four Km from project site). - Lime is from 44 Km away lime mines. - DCS charged on 26.02.15.						
Critical issues		Readiness of Lignite and Lime Handling by M/s Indure and MBECL. Readiness of Sea Water Intake & outfall.						
Reasons for Delay		Being CFBC Boiler that too 250MW Lignite based. Lot of design modification done. Non readiness of Lignite and Lime handling system. Non readiness of AHP. Due to non-readiness of Sea Water intake system alternate arrangement of sweet water has been made. As the allocated Lignite mines are yet to be made ready, the Lignite has been arranged from other mines. Failure of Turbine bearing has been sent for rectification at BHEL works. Sequential availability of material for erection by BHEL. Manpower mobilization by Sub-contractor of BHEL.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
State Sector								
	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. <u>TG</u> TG civil works started on 21.12.15. Condenser erection start is expected in 11/16.
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 (Upto 08/16)		: Rs.39291.7 Lakh						
Total Expenditure (Upto 08/16)		: Rs. 100752.7 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		: Coal Block						
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								
Reasons for Delay								

BoPs:

- Chimney:** The order placed on M/s Bagging India Ltd. Shell concreting work is in progress.
- CHP:** In this package order for Civil works is with Bridge & Roof (I) Pvt Ltd. The mechanical is with M/s GMW. The contractor has mobilise 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.
- Raw Water Supply System:** Order placed to M/s Chembond Solenis Water Technologies Ltd for Erection & Commissioning.
- PT/ DM Plant :**Order placed to M/s. Aqua Design India Pvt. Ltd for Erection & Commissioning.
- CW System:** All the 5 Nos CW pumps and 4 nos motor s erected and 2nos pumps have been commissioned.
- CT:** The order placed on M/s NBCC.
- 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.

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch/ Comm	COD	Synch/ Comm	COD		
Private Sector									
	DGEN Mega Combined Cycle Power Project (M/s Torrent Energy Limited), Dahej SEZ, Bharuch	Mod-1	400	12/11 01/12	01/12	12/13(A) 01/14(A)	01/14 (A)	MODULE-I The order for main plant civil & structural work has been awarded on Gammon India and M/s Simplex Infrastructure. The order for GT, GTG, ST, STG along with condenser has placed on M/s Siemens AG, Germany. The order for HRSG has placed on M/s Doosan Korea. Module-I achieved baseload on 12.01.14. MODULE-II Piling work completed and foundations also completed. HRSG erection started in 06/11. All the three drums lifted. ST & STG supply and erection also completed. Module-II achieved baseload on 23.04.14. MODULE-III HRSG erection started in 09/11. Module-III achieved base load on 09.03.14. <u>BoPs:</u> • All BoPs were commissioned as per schedule.	
		Mod-2	400	02/12 03/12	03/12	04/14(A) 04/14(A)	04/14 (A)		
		Mod-3	400	04/12 06/12	06/12	03/14(A) 03/14(A)	03/14 (A)		
	Original Estd. Cost		Rs.550000 Lakhs						
	Latest Est. Cost		Rs.574319 Lakhs						
	Expenditure during 2010-11		Rs.98614Lakhs						
	Expenditure during 2011-12		Rs.150397Lakhs						
	Expenditure during 2012-13		Rs.161224Lakhs						
	Expenditure during 2013-14		Rs.58450 Lakhs						
	Expenditure during 2014-15		Rs.83073 Lakhs (Upto 09/14)						
	Total Expenditure		Rs. 551758 Lakhs						
	Approval date:								
	Zero date:		: 02.07.10						
	Notice To Proceed (NTP)								
	Financial closure		Achieved on 21.05.11						
	Main Plant Order		: 02.07.10 on M/s SIEMENS AG, Germany & SIEMENS India Ltd.						
	BOP Package								
	Type of fuel		Natural Gas						
	PPA								
	Source and supply of Fuel								
	Power Evacuation system		The project implementing agency is also the distribution licensee for the entire Dahej SEZ. Excess power shall be evacuated through 400 kV and 220 kV networks. Application for grid connectivity has already been made to PGCIL.						
	- All statutory clearances are available. - Order for all the BOPs has already been placed and progressing as per schedule. - Single shaft (or common shaft) configuration is being used in the project. F Class gas turbines (V94.3A) of high efficiency (more than 58%) will be used. - M/s Tata Consultant Engineers is appointed for engineering review, project monitoring and quality assurance for the project. - FSA yet to be signed.								
	Critical issues	Allocation of domestic Natural Gas.							
	Reasons for Delay	Non-availability of Gas							

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
	UNOSUGEN CCPP, (M/s Torrent Energy Limited), Kamrej, Surat	Mod-I	382.5	02/12 03/12	03/12	12/12(A) 01/13(A)	01/13 (A)	MODULE-I The order for main plant civil & structural work was awarded on M/s Simplex Infrastructure. Single shaft (or common shaft) configuration (1GT+1ST+1HRSG +1Gen.) is being used in the project Class gas turbines (V94.3A) of high efficiency (more than 58%) has been used. Main Machine erection started in 08/11. Power evacuation is from 400 kV GIS. Commissioning in open cycle achieved on 03.12.12. Combined cycle commissioning achieved on 20.01.13. COD achieved on 04.04.13. BoPs: All BoPs were commissioned as per schedule.
Original Estd. Cost		Rs.183333 Lakhs						
Latest Est. Cost		Rs. 183333Lakhs						
Expenditure during 2010-11		Rs. 35123 Lakhs						
Expenditure during 2011-12		Rs. 25177 Lakhs						
Expenditure during 2012-13		Rs. 45000 Lakhs						
Expenditure during 2013-14		Rs. 55000 Lakhs						
Expenditure during 2014-15		Rs. 20000 Lakhs						
Total Expenditure		Rs. 180300 Lakhs						
Approval date:		:NA						
Zero date:		02.07.10						
Notice To Proceed (NTP)		: 02.07.10						
Financial closure		:Achieved						
Power Train Order (GT+ST+Gen+ Cond)		02.07.10 on M/s SIEMENS AG, Germany & SIEMENS India Ltd.						
HRSG:		Doosan Heavy Engineering, South Korea.						
BOP Package		; Reputed Indian Vendors						
Type of fuel		Natural Gas						
PPA		: Torrent						
Source and supply of Fuel		: Natural Gas						
Power Evacuation system								
		- All statutory clearances are available. - Order for all the BOPs has already been placed and completed as per schedule. - M/s Tata Consultant Engineers is appointed for engineering review, project monitoring and quality assurance for the project. - Gas pipeline connectivity: sufficient capacity available in existing 24” GSPL Spur line and ready to connect. - FSA signed.						
Critical issues		Allocation of domestic Natural Gas.						
Reasons for Delay		Non-availability of Gas						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
	Salaya TPP Ph-I. Unit-2 Essar Power, Gujarat	2	600	04/12 06/12	06/12	04/12(A) 06/12(A)	06/12 (A)	<u>Unit-2</u> HT completed on 13.09.11. BLU completed on 26.02.12. TG box up completed on 20.02.12. Synchronised on 03.04.12. Full load achieved on 13.06.12. Achieved COD on 15.06.12. <u>BoPs:</u> Except CHP, all the BoPs more or less timely commissioned.
Original Estd. Cost		: Rs. 482000 Lacs (including U-1)						
Latest Est. Cost		: Rs. 482000 Lacs (Including U-1)						
Expenditure during 2010-11								
Expenditure during 2011-12								
Expenditure during 2012-13								
Total Expenditure		396486 (upto 04/12)						
Approval date:								
Zero date:		: 09/09						
Notice To Proceed (NTP)								
Financial closure		: 09/09						
Main Plant Order		21.11.2007.on M/s Harbin Power						
BOP Package								
Type of fuel		Coal						
PPA								
Source and supply of Fuel								
Power Evacuation system								
		- MOE&F clearance obtained on 17.07.09. - BTG:-Harbin Power Equipment. - Coal Linkage:-Imported coal from Indonesia/Mozambique.						
Critical issues		Allocation of indigenous coal for blending.						
Reasons for Delay		To some extent CHP readiness.						

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								
	SatpuraTPS Extn.(Sarni) (Dist. Betul) MPPGCL	10	250	12/11 02/12	03/12	02/13(A) 03/13(A)	08/13(A)	Unit-10 Boiler erection started on 08.04.10 . Drum lifted in 12/10 . Hyd test completed on 04.11.11 . BLU completed on 10.10.12 . SBO completed on 04.01.13 . TG deck casting completed on 30.4.11 . Condenser erection started in 7/11 . TG erection started in 12/11 . TG box up completed in 10/12 . TG oil flushing completed on 13.01.13 . TG put on barring gear on 30.01.13 . Synchronized on 22.02.13 . Coal bunkering started on 22.02.13 . Full load achieved on 22.03.13 . COD achieved on 18.08.13. Unit-11 Boiler erection started on 1/ 07/10 . Drum lifted in 2/11 . Hyd test completed on 30.04.12 . Non drainable HT on 19.06.13 . BLU done on 30.06.13 . SBO completed on 29.08.13 . Condenser erection started on 18.08.12 . TG erection started on 11/12 . TG boxed up in 05/13 . TG oil flushing completed in 08/13 . TG on barring gear achieved on 08.09.13 . Synchronized on 02.10.13 . Full load achieved on 25.12.13 . COD achieved on 16.03.14. BoPs: There was slight delay in readiness of BoPs. Now all BoPs are ready.
		11	250	02/12 04/12	05/12	10/13(A) 12/13(A)	03/14(A)	
Original Estd. Cost		: Rs. 235000 Lakhs						
Latest Est. Cost		: Rs.351400 Lakhs						
Expenditure upto 03/2007		: Rs. 09 Lakhs						
Expenditure during 2007-08		: Rs. 15117 Lakhs						
Expenditure during 2008-09		: Rs. 96 Lakhs						
Expenditure during 2009-10		: Rs 10584 Lakhs						
Expenditure during 2010-11		: Rs 57040 Lakhs						
Expenditure during 2011-12		: Rs 83416 Lakhs						
Expenditure during 2012-13		: Rs 79436Lakhs						
Expenditure during 2013-14		: Rs 59816 Lakhs						
Expenditure during 2014-15		: Rs 6612 Lakhs (upto 10/14)						
Total Expenditure (Upto 10/14)		: Rs 311621 lakhs						
Approval date:		: Accorded on 29.06.06						
Zero date:		:27.02.09						
Notice To Proceed (NTP)		: 27.02.09						
Financial closure		: 20% GoMP and 89% PFC						
Main Plant Order		: LOA placed on 31.03.08 on M/s BHEL (BTG)						
BTG Make		BHEL						
BOP Package		:EPC on McNally Bharat						
Type of fuel		: COAL(Linkage awaited) By WCL for 1.85 mtpa.						
PPA		: With MPTradco on 04.01.11						
Source and supply of Fuel		: FSA signed on 02.01.13 with WCL for 1.8513 MTPA						
Power Evacuation system		: 400 kv Sami-Ashtha Lines						
		- OEF clearance: 27.02.09 obtained. - PCB Clearance: Obtained on 06.09.11 from MPPCB. - and: Land available. - ain plant civil work agency: : M/s Sunil Hitech. - PC for BOP: : M/s McNally Bharat.						
Critical issues								
Reasons for Delay		Non-readiness of BoPs						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
State Sector								
	Shree Singaji TPP -I (Malwa TPP) Mega Project (At Purni, Distt. Khandwa) MPPGCL	1	600	04/12 06/12	06/12	08/13(A) 11/13(A)	02/14 (A)	Unit-1 Boiler erection started in 09/10 . Drum lifted on 8.03.11 . HT (drainable) conducted on 25.4.12 . BLU done in 05/13 . EDTA completed in 05/13 . SBO completed on 09.07.13 . Condenser erection started in 02/12 . TG erection started in 3/12 . TG box up completed in 05/13 . TG oil flushing completed in 06/13 . TG put on barring gear on 09.07.13 . Synchronized (oil) on 31.08.13 . Coal fired on 30.09.13 . Full load achieved on 18.11.13 . COD achieved on 01.02.14 . Unit-2 Boiler Erection started in 12/10 . Drum lifted in 09/11 . HT completed on 30.11.12 . BLU done in 12/13 . SBO started on 04.03.14 and completed in 07/14 . Condenser erection started on 28.09.12 . TG erection started on 31.12.12 . TG Boxed up in 09/14 . Oil flushing of piping started in 03/14 . Oil Flushing completed in 10/14 . Oil Syn and Coal Syn achieved on 11.10.14 . Full load achieved on 15.10.14 . COD achieved on 28.12.14 . BoPs: The order for BoPs was placed on M/s L&T on EPC basis. All the BoPs were completed as per schedule.
		2	600	08/12 10/12	10/12	10/14(A) 10/14(A)	12/14 (A)	
Original Estd. Cost		: Rs.405300 lakhs						
Latest Est. Cost		: Rs.782000 lakhs						
Expenditure upto 03/2007		: Rs 2405 lakhs						
Expenditure during 2007-08		: Rs 1708 lakhs						
Expenditure during 2008-09		: Rs 17171 lakhs						
Expenditure during 2009-10		: Rs 49245 lakhs						
Expenditure during 2010-11		: Rs.113365 lakhs						
Expenditure during 2011-12		: Rs 177382 lakhs						
Expenditure during 2012-13		: Rs 148239 lakhs						
Expenditure during 2013-14		: Rs 146275 lakhs						
Expenditure during 2014-15		: Rs 51158 lakhs (upto 11/14)						
Total Expenditure (Upto 11/14)		: Rs.706951 lakhs						
Approval date:		: Accorded						
Zero date:		: 12.12.08						
Notice To Proceed (NTP)		:12.12.08						
Financial closure		:Achieved						
Main Plant Order		: Order placed on M/s BHEL for main power block with civil work on 12.12.08.						
BTG Make		BHEL						
BOP on EPC basis		: M/s L&T on 26.10.09.						
Type of fuel		Coal						
PPA		: With MPPMCL						
Source and supply of Fuel		: CIL						
Power Evacuation system		: Ready						
		- SA: Signed on 24.01.13. - and: : Available. - ega Power Status: Obtained.						
Critical issues								
Reasons for Delay		BHEL Supply						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch/ Comm	COD	Synch/ Comm	COD		
State Sector									
	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 is in progress. Boiler erection started on 18.06.15. Boiler HT expected in 06/17. ESP erection started on 06.07.15. Fabrication of Ceiling Girder is in progress. Coal bunker fabrication is in progress. Duct fabrication is in progress. TG deck casting completed on 30.04.16. 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 11/17 BoPs: • Chimney: Chimney shell casting completed on 16.04.16. Platform and Flue can fabrication work is in progress. • CHP: Wagon Tippler 1&2 and Track Hopper Civil works are in progress. Stacker reclaimers civil works are in progress. • AHP: Civil works for BA hoppers, Fly ash silo’s, HCSD silo’s, AWPB, 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 are in progress. • CW System: Civil works are going on. • NDCT: In NDCT raker columns tie beam casting is in progress • FOPH: LDO HFO fuel oil tank fabrication is in progress. • Switchyard: Civil works are 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 57068 lakhs (upto 07/16)						
Total Expenditure (Upto 07/16)			: Rs. 160148 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									

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch/ Comm	COD	Synch/ Comm	COD		
Private Sector									
	Bina TPP (Dist. Sagar) Bina Power Supply Co. Ltd.	1	250	07/11 08/11	09/11	06/12(A) 08/12(A)	Achieved	Unit-1 Boiler erection started in 07/09. Boiler drum lifted on 24.03.10. HT done in 2/11. Boiler lighted up in 2/12. TG erection started in 10/10. TG box up completed in 7/11. Unit synchronized on 27.06.12 with oil. Coal firing done in July, 2012. Syn.(coal) Achieved on 01.08.12. FL achieved on 12.08.12. Unit-2 Boiler erection started in 11/10. Boiler drum lifted in 06/10. Hyd test done in July,12. BLU on 09.11.12. EDTA completed on 26.11.12. SBO completion on 16.01.13. Condenser erection started in 5/11. TG erection started in 6/11. TG box up completed on 15.09.12. TG oil flushing comp. on 05.12.12. TG barring gear achieved in 02/13. Syn. On 04.03.13. FL achieved in 03/13. BoPs: • All the BoPs commissioned.	
		2	250	10/11 11/11	12/11	03/13(A) 03/13(A)	Achieved		
	Original Estd. Cost		: Rs. 275000 Lakhs						
	Latest Est. Cost		: Rs. 324000 Lakhs						
	Expenditure during 2008-09		: Rs 22181 Lakhs						
	Expenditure during 2009-10		: Rs 50451 Lakhs						
	Expenditure during 2010-11		: Rs 122470 Lakhs						
	Expenditure during 2011-12		: Rs 82667 Lakhs						
	Expenditure during 2012-13		: Rs 58835 Lakhs						
	Expenditure during 2013-14		: Rs 12502 Lakhs (upto 03/14)						
	Total Expenditure (Upto 03/14)		: Rs. 349106 Lakhs						
	Approval date:		: NA						
	Zero date:		:09/2009						
	Notice To Proceed (NTP)		:09/2009						
	Financial closure		: Achieved in 11/2009						
	Main Plant Order		: LOI placed on M/s BHEL on 20.09.08 (BTG).						
	BTG Make		BHEL						
	BOP Package		: Reputed Indian Vendors						
	Type of fuel		:Coal						
	PPA		:Signed						
Source and supply of Fuel		LOA received, FSA with CCL signed. FSA with SECL also signed.							
Power Evacuation system		Open access approval received.							
		• nvironment Clearance: 05/08/09.							
		• ain Plant civil work agency: M/s Jaiprakash Associates Limited.							
		•							
Critical issues		No							
Reasons for Delay									

Unit-2
Boiler erection started in **11/10**. Boiler drum lifted in **06/10**. Hyd test done in **July,12**. BLU on **09.11.12**. EDTA completed on **26.11.12**. SBO completion on **16.01.13**. Condenser erection started in **5/11**. TG erection started in **6/11**. TG box up completed on **15.09.12**. TG oil flushing comp. on **05.12.12**. TG barring gear achieved in **02/13**. Syn. On **04.03.13**. FL achieved in **03/13**.

BoPs:

- All the BoPs commissioned.

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
	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	03/17 03/17	03/17	
	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 38200 Lakhs					
	Expenditure during 2009-10		: Rs 114755 Lakhs					
	Expenditure during 2010-11		: Rs 335743 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 119169 Lakhs					
	Expenditure during 2015-16		: Rs 47516 Lakhs (upto 08/16)					
	Total Expenditure (Upto 08/16)		: Rs 797388 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 viillage 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								
	Nigrie STPP (Dist. Singrauli) J.P. Power Venture Ltd.	1	660	04/13 06/13	07/13	05/14(A) 08/14(A)	NA	Unit-1 Boiler erection started in 01/11 . HT (drainable) achieved on 06.02.13 . BLU done on 18.02.14 . SBO started in 03/14 . SBO completed on 03.04.14 . Condenser erection started in 04/12 . TG erection started in 07/12 . TG box up completed in 07/13 . Synchronized on 07.05.14 . CF done in 08/14 . FL achieved on 29.08.14 .
		2	660	10/13 12/13	01/14	02/15(A) 02/15(A)	NA	
	Original Estd. Cost		: Rs. 810000Lakhs					
	Latest Est. Cost		: Rs. 810000 Lakhs					
	Expenditure during 2009-10		: Rs 82501 Lakhs					
	Expenditure during 2010-11		: Rs 39058.71 Lakhs					
	Expenditure during 2011-12		: Rs 294575.37 Lakhs					
	Expenditure during 2012-13		: Rs 358872.58 Lakhs					
	Expenditure during 2013-14		: Rs 213142.67 Lakhs					
	Expenditure during 2014-15		: Rs 44310.72 Lakhs (upto 12/14)					
	Total Expenditure (Upto 12/14)		: Rs 1032462 Lakhs					
	Approval date:		: NA					
	Zero date:		:23.08.09					
	Notice To Proceed (NTP)		:23.08.09					
	Financial closure		: Achieved in 08/2010					
	Main Plant Order		M/s L&T on 23.08.09 (BTG). Boiler-LMB					
	BTG Make		L&T/MHI					
	BOP Package		: Reputed Indian Vendors					
	Type of fuel		:Coal					
	PPA		:					
	Source and supply of Fuel		:5.7 MTPA from Amelia North and Dongri Tal-II coal block developed by JAL and MPSMCL					
	Power Evacuation system		:Ready					
	- Land: 432.308 Ha under possession. - Water: 65.3 Cusec from Gopad river. - MOEF Clearance: Obtained in Feb.10							
Critical issues								
Reasons for Delay								

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
	Avantha Seoni TPP (Dist. Seoni) Jhabua Power Ltd.	1	600	02/13 03/13	03/13	02/16 (A) 02/16(A)	05/16	Unit-1 Boiler erection started in 4/11. Drum lifted on 17/1/12. Hyd. Test done on 22.12.12. Hyd. Test (Non drainable) done in 06/13. BLU done on 12.03.14. SBO started on 10.06.15 and completed on 27.06.15. Unit normalisation completed. TG erection started in 11/11. TG boxed up in 12/13. TG oil flushing completed in 05/15. TG put on BG in 06/15. Boiler re-lighted up for steam dumping in 02/16. Syn. Achieved on 23.02.16. Full load achieved on 22.03.16. COD achieved on 03.05.16. BoPs: • All the BoPs completed.
Original Estd. Cost		: Rs. 35500Lakhs						
Latest Est. Cost		: Rs. 419400 Lakhs						
Expenditure during 2008-09		: Rs. 1000 lakhs						
Expenditure during 2009-10		: Rs. 14700 Lakhs						
Expenditure during 2010-11		: Rs. 22700 Lakhs						
Expenditure during 2011-12		: Rs. 66800 Lakhs						
Expenditure during 2012-13		: Rs. 121500 Lakhs						
Expenditure during 2013-14		: Rs. 67700 Lakhs						
Expenditure during 2014-15		: Rs. 82919 Lakhs (upto 01/15)						
Total Expenditure (Upto01/15)		: Rs. 377319 Lakhs						
Approval date:		: NA						
Zero date:		: 02/10						
Notice To Proceed (NTP)		: 02/10						
Financial closure		Achieved in 12/2009.						
Main Plant Order		BHEL on 02/10 (BTG).						
BTG Make		BHEL						
BOP Package		: Reputed Indial Vendors						
Type of fuel		: Coal						
PPA		: 5% to govt of MP.30% to be provided to MPPTCL and 35% tied up with M/s Reliance Energy Trading company Limited.						
Source and supply of Fuel		FSA signing executed with SECL/MCL. FSA Signed with MCL for 35% quantity.						
Power Evacuation system		: Application for availing connectivity with PGCIL network submitted. Order placed for 400 kV transmission line from JPL to pooling point. Prior approval of MoP under section-68 for dedicated transmission line obtained. Sec6tion 164 received.						
		• SPCB clearance: Obtained in Dec-10. • Civil Aviation Clearance: Obtained in Sep-10. • MOEF clearance: Obtained in Feb-10. Forest Clearance not applicable. • Land: 811 Acres (100% land aquired) • All the clearances are available. • 400kV switchyard commissioned. • 400kV double Circuit Transmission line is operational.						
Critical issues								
Reasons for Delay		BHEL support was solicited in terms of completion of balance supply & erection for achieving the scheduled dates. Financial dispute with BHEL.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
	Anuppur TPP Phase-I Jaithari, Dist. Anuppur, M.B. Anuppur, M.B. Power (MP) Ltd.	1	600	04/13 05/13	6/13	03/15 (A) 04/15(A)	05/15 (A)	Unit-1 Blr erection started in 11/11. Drum lifted on 06.11.12. HT completed in 10/13. BLU done in 09/14. Condenser erection started in 03/13. TG erection is started in 05/13. TG box up done in 09/14. Synchronized on 19.03.15. Full Load achieved on 20.04.15. COD achieved on 20.05.15.
		2	600	08/13 09/13	10/13	03/16 (A) 03/16(A)	04/16 (A)	
	Original Estd. Cost		: Rs. 624000Lakhs					
	Latest Est. Cost		: Rs. 624000 Lakhs					
	Expenditure during 2009-10		: Rs. 14100 Lakhs					
	Expenditure during 2010-11		: Rs. 75400 Lakhs					
	Expenditure during 2011-12		: Rs. 103500 Lakhs					
	Expenditure during 2012-13		:Rs. 137500 Lakhs					
	Expenditure during 2013-14		:Rs. 171900 Lakhs					
	Expenditure during 2014-15		:Rs. 230100 Lakhs					
	Expenditure during 2015-16		:Rs17085Lakhs (upto 11/15)					
	Total Expenditure (Upto 11/15)		: Rs. 758000 Lakhs					
	Approval date:							
	Zero date:							
	Notice To Proceed (NTP)							
	Financial closure		Achieved					
	Main Plant Order		EPC contract awarded to M/s Lanco Infratech Ltd on 15.11.10					
	BTG make: Harbin China							
	BTG Make		Harbin China					
	BOP Package		Lanco Infratech					
	Type of fuel		: Coal					
	PPA		848 MW on long term PPA(420 MW with MP discoms and 428 MW with PTC), for balance participated in Case-I bidding in UP for 361 MW and in Rajasthan for 200 MW, bid is open in both states and is kept in zone of consideration.					
	Source and supply of Fuel		LOA for 4.99392 MTPA of F grade by SECL. FSA has been signed on 26.03.13 for both unit (2x600 MW).					
	Power Evacuation system		400 KV dedicated Anuppur-Jabalpur line by Powergride.					
	- MOEF Clearance: Obtained in Sept-10. - Water: Son River.							
Critical issues								
Reasons for Delay		Delayed due to non-readiness of BoPs by M/s Lanco Infrtech Ltd.						
BoPs:		All the BoPs are now completed.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
	Gorgi TPP (Dist. Singrauli) DB Power (MP) Ltd.	1	660	05/13 06/13	07/13	07/17 08/17	09/17	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								
	Niwari TPP (Dist. Narsinghpur) BLA Power Ltd.	2	45	04/14 05/14	05/14	11/15* 12/15*	12/15	Unit-1 Boiler erection started in 01/13 . Drum lifted in 08/13 . Hydro test was expected by 12/15. TG deck casted in 09/13 . TG erection was to be started by 12/15. Presently work at site is on hold. * Assessed after restart of work. <u>BoPs:</u> • 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		
State Sector									
	Chandrapur TPS Extn (Distt. Chandrapur) MSPGCL	8	500	04/12 06/12	07/12	01/15 (A) 03/15(A)	06/16	Unit-8 Boiler erection started on 01.06.10. Boiler HT (Drainable) completed on 05.06.12. BLU completed on 30.03.14. EDTA completed on 27.06.14. SBO started on 21.09.14. &completed on 17.10.14. Unit normalization completed in 11/14. Condenser erection started in 03/12. TG deck casting completed in 12/11. TG erection started in 03/12. TG box up completed on 30.06.14. TG oil flushing completed on 09.08.14. TG put on BG on 15.12.14. Oil synch. achieved on 11.01.15. Safety valve floating completed on 20.03.15. Coal bunkering started on 23.03.15. Coal firing achieved on 28.03.15 with priority path. CHP contingency made ready on 27.03.15. AHP contingency made ready on 23.03.15. Full load achieved on 29.03.15. COD achieved on 04.06.16. Unit-9 Boiler erection started on 05.01.11. Boiler HT (Drainable) completed on 29.10.12. BLU achieved on 07.05.15. EDTA completed on 22.08.15. CW and ACW completed in 11/15. SBO started on 13.12.15 and completed on 26.12.15. Unit normalization also completed. Condenser erection started on 17.10.13. TG erection started on 17.10.13. TG box up completed on 18.08.15. TG oil flushing completed in 01/16. Deck floating completed on 18.02.16. TG put on BG on 07.03.16. GT back charging completed on 18.03.16. Oil synch. achieved on 21.03.16. Coal firing achieved on 21.03.16. Full load achieved on 21.03.16. BoPs: • In this project the order for BoPs on EPC basis was placed on M/s BGR. The project got delayed due to delay in readiness of BoPs by M/s BGR. Now both the units have been commissioned.	
		9	500	07/12 09/12	10/12	03/16 (A) 03/16(A)	11/16		
	Original Estd. Cost		: Rs. 550000 Lakhs						
	Latest Est. Cost		:Rs.649729 Lakhs						
	Expenditure during 2008-09		: Rs 15870 Lakhs						
	Expenditure during 2009-10		: Rs 56258 Lakhs						
	Expenditure during 2010-11		: Rs 75822 Lakhs						
	Expenditure during 2011-12		: Rs 113662 Lakhs						
	Expenditure during 2012-13		:Rs: 50864 Lakhs						
	Expenditure during 2013-14		:Rs: 103286 Lakhs						
	Expenditure during 2014-15		:Rs: 77530 Lakhs						
	Expenditure during 2015-16		:Rs: 110520 Lakhs (upto 09/16)						
	Total Expenditure (Upto 09/16)		: Rs 705220 Lakhs						
	Approval date:		: 05.03.08						
	Zero date:		: Zero date of the project is 09.02.09 (Zero date shifted due to late release of initial advance to M/s BHEL).						
	Notice To Proceed (NTP)		:09.02.09						
	Financial closure		: NA						
	Main Plant Order		: M/S BHEL on 25.07.08 (BTG + C&I, Electrical &Aux.Equip.)						
	BTG Make		BHEL						
	BOP Package		M/s BGR EPC basis						
	Type of fuel		Coal						
	PPA		:MSETCL						
	Source and supply of Fuel		: From Machhakata captive coal mines Orissa.						
	Power Evacuation system		Existing 400kV/220 kV Chandrapur-II s/s along with switching station.						
	- MOE&F clearance received in 01/09. - NIT issued for BOP packages on 7.11.08. - Order for all the BOPs on EPC basis placed on M/s BGR, Chennai on 12.06.09. Zero date for BOP package is 10.07.09.								
Critical issues									
Reasons for Delay		Delay in finalization of BOP agency. Delay in readiness of BoPs by M/s BGR.Delay in readiness of CHP by BGR. Readiness of Bunkers and Feeders. Delay in readiness of ACW & CW piping.							

Unit-9

Boiler erection started on 05.01.11. Boiler HT (Drainable) completed on 29.10.12. BLU achieved on 07.05.15. EDTA completed on 22.08.15. CW and ACW completed in 11/15. **SBO started on 13.12.15 and completed on 26.12.15. Unit normalization also completed.** Condenser erection started on 17.10.13. TG erection started on 17.10.13. TG box up completed on 18.08.15. TG oil flushing completed in 01/16. Deck floating completed on 18.02.16. **TG put on BG on 07.03.16.**GT back charging completed on 18.03.16. **Oil synch. achieved on 21.03.16. Coal firing achieved on 21.03.16. Full load achieved on 21.03.16.**

BoPs:

- In this project the order for BoPs on EPC basis was placed on M/s BGR. The project got delayed due to delay in readiness of BoPs by M/s BGR. Now both the units have been commissioned.

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
State Sector								
	Koradi TPS, (Distt. Nagpur) MSPGCL	8	660	09/13 12/13	01/14	02/15 (A) 03/15(A)	12/15	Unit-8 Boiler erection started on 24.03.11. Boiler HT (Non-Drainable) completed on 15.06.13. EDTA cleaning started in 08/14. BLU completed on 11.09.14. SBO started on 14.01.15 and completed on 11.02.15. Condenser erection started on 10.05.12. TG deck casting completed in 12/11. TG erection started on 28.04.12. TG box up completed on 31.10.13. TG oil flushing completed in 03/14. TG put on BG on 03.03.14. Oil synch. achieved on 25.02.15 at 16:17 Hrs. Coal bunkering started on 28.03.15 Coal firing achieved on 29.03.15. Full load achieved on 30.03.15. COD achieved on 16.12.15.
		9	660	03/14 06/14	07/14	01/16 (A) 03/16(A)	11/16	
		10	660	09/14 12/14	01/15	07/16(A) 09/16	12/16	
	Original Estd. Cost		: Rs.1188000 Lakhs					
	Latest Est. Cost		: Rs. 1323210 Lakhs					
	Expenditure during 03/10		: Rs. 70000Lakhs					
	Expenditure during 2010-11		: Rs. 23975Lakhs					
	Expenditure during 2011-12		: Rs. 203750Lakhs					
	Expenditure during 2012-13		:Rs.359844 Lakhs					
	Expenditure during 2013-14		:Rs.369480 Lakhs					
	Expenditure during 2014-15		:Rs.158940 Lakhs					
	Expenditure during 2015-16		:Rs 160190 Lakhs					
	Expenditure during 2016-17		:Rs 17035 Lakhs (Upto 09/16)					
	Total Expenditure (Upto 09/16)		: Rs 1360458 Lakhs					
	Approval date:		: NA					
	Zero date:		:23.09.09.					
	Notice To Proceed (NTP)		:23.09.09					
	Financial closure		: Achieved					
	Main Plant Order		: M/S L&T on 23.09.09 (BTG)					
	BTG Make		L&T/MHI					
	BOP Package		M/s Lanco Infratech on EPC basis					
	Type of fuel		: Coal (11MMTPA or 24931.5 MT/Day)					
	PPA							
	Source and supply of Fuel		: Machhakata & Mahanadi coal Block in Odisha (Gare Palma Sector-II, Chhattisgarh)					
	Power Evacuation system							
			- Mega Power Project Status: Granted on 16.12.09 by MoP, GOI. - All required clearances are available. - Orders for all BOPs on EPC basis placed on M/s Lanco Infratech Ltd on 27.07.10. - M/s Lanco Infratech Ltd has reported at site on 16.08.10.					
Critical issues		Readiness of NDCT-10.						
Reasons for Delay		Non-readiness of BoPs by Lanco infratech.Switchyard civil foundation work of various equipment’s & control room is to be expedited. - Agency- M/s. MSETC.						
		Unit-9 Boiler erection started on 28.10.11. Boiler HT (Non-Drainable) completed on 04.01.14. BLU achieved on 16.01.15. SBO started on 09.12.15 and completed on 04.01.16. Condenser erection started on 15.11.12. TG deck casting completed in 10/12. TG erection started on 26.11.12. TG box up completed on 28.07.14. TG oil flushing completed in 01/15. TG put on BG on 16.01.15. Oil synch. achieved on 21.01.16. Coal firing achieved on 02.03.16. Full load achieved on 15.03.16. Conditional Consent To Operate is approved by CAC of MPCB on 16.09.16.						
		Unit-10 Boiler erection started on 15.02.12. Boiler HT (Non-Drainable) completed on 05.07.14. Chemical cleaning completed on 03.10.15. BLU achieved on 29.02.16.SBO started on 07.05.16 and completed in 06/16. Condenser erection start is expected in 05/13. TG deck casting completed on 24.02.13. TG erection started on 27.06.13. TG box up completed on 19.05.15. TG oil flushing completed in 02/16. TG put on BG on 23.02.16. Oil synch. Achieved on 01.07.16. Coal firing is expected in 11/16. Full load is expected in 11/16. COD expected in 12/16.						
		BoPs: Here BoPs were placed on M/s Lanco Infratech Ltd on EPC basis. Due to Financial crunch Lanco delayed the readiness of BoPs. At present except NDCT-10 all the BoPs completed.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
State Sector								
	Parli TPS (Distt. Beed) MSPGCL	8	250	07/13 08/13	09/13	03/16 (A) 03/16(A)	10/16	<u>Unit-8</u> Boiler foundations handed over to BHEL on 10.07.10. Boiler erection started on 10.08.10. Boiler Drum lifting completed on 10.04.11. Boiler HT (Drainable) completed on 25.12.12. Boiler HT (Non-Drainable) completed on 22.05.15. BLU completed on 22.05.15. EDTA completed on 06.09.15. SBO started on 17.12.15. and completed on 04.01.16. Condenser erection started in 04/11. TG deck casting completed in 04/11. TG erection started on 19.05.11. TG box up completed on 04.02.16. TG oil flushing completed in 01/16. TG put on BG on 05.03.16. Oil synch. achieved on 03.03.16. Coal firing achieved on 29.03.16. Full load achieved on 30.03.16. COD is yet to be achieved. <u>BoPs:</u> For this project the order for BoPs on EPC basis was placed on M/s Snil Hitech. There were lot of dispute between Sunil Hitech and MSPGCL. Most of the packages were delayed.
Original Estd. Cost		: Rs 137500 Lakh						
Latest Est. Cost		: Rs 185924Lakh						
Expenditure during 03/10		: Rs. 7500Lakhs						
Expenditure during 2010-11		: Rs 28701 Lakhs						
Expenditure during 2011-12		: Rs 46823Lakhs						
Expenditure during 2012-13		:Rs 45647Lakhs						
Expenditure during 2013-14		:Rs 29461Lakhs						
Expenditure during 2014-15		:Rs 14586Lakhs						
Expenditure during 2015-16		:Rs 34051 Lakhs						
Expenditure during 2016-17		: Rs.10239 Lakhs						
Total Expenditure (Upto 09/16)		: Rs 212879 Lakhs						
Approval date:		: NA						
Zero date:		: 20.01.09.						
Notice To Proceed (NTP)		:20.01.09						
Financial closure		: Achieved						
Main Plant Order		: M/S BHEL on 20.01.09 (BTG)						
BTG Make		: BHEL						
BOP on EPC basis		: M/s Sunil Hi Tech.						
Type of fuel		: Coal						
PPA								
Source and supply of Fuel		: Machhakata & Mahanadi coal block						
Power Evacuation system								
		- All required clearances are available. - TG erection agency M/s. Van Sun & M/s. Jyoti turbo reported site on 08.04.14 & 18.04.14 respectively and started working.						
Critical issues		Commissioning of CHP						
Reasons for Delay		Delay in Finalization of BOP agency delayed the project. In adequate and non-sequential supply by BHEL. Delay in readiness of BoPs by M/s Sunil hitech. Severe water shortage in the region.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
State Sector								
	Tirora TPP ,Ph-I (Distt: Gondia) M/s Adani Power Maharashtra Pvt. Ltd.	1	660	03/11 04/11	05/11	08/12 (A) 09/12(A)	09/12	<u>Unit-1</u> Unit resynchronized on 02.09.12. Full load achieved on 11.09.12.COD achieved on 23.09.12
		2	660	06/11 07/11	08/11	01/13 (A) 03/13(A)	03/13	
		Original Estd. Cost		: Rs.656000 lakhs				
		Latest Est. Cost		:Rs. 730900 lakhs				
		Expenditure during 03/09		: Rs. 31835 lakhs				
		Expenditure during 2009-10		: Rs. 53304 Lakhs				
		Expenditure during 2010-11		: Rs. 365061 Lakhs				
		Expenditure during 2011-12		: Rs. 221400Lakhs				
		Expenditure during 2012-13		: Rs. 78400 Lakhs (upto 06/13)				
		Total Expenditure		: Rs. 750000Lakhs (upto 06/13)				
		Approval date:		: NA				
		Zero date:		: 28.02.08				
		Notice To Proceed (NTP)		: 28.02.08				
		Financial closure		: Achieved on 20.08.09				
		Main Plant Order (Boiler-Babcock, China) (TG-BSTG,China)		BTG Contract awarded to SCMEC China on 28.02.08.				
		BTG Make		Boiler-Babcock, China, TG-BSTG, China				
		BOP Package		Reputed Indian Vendors				
		Type of fuel		: Coal				
		PPA		:				
		Source and supply of Fuel		: Imported Coal (very low Sulphur & Ash content)				
		Power Evacuation system		: yet to start				
Critical issues								
Reasons for Delay		Accordance of Mega Status. Power evacuation system. Chinese visa issue. Tapering Linkage/Coal block in lieu of Lohara mines needs to be expedited.400 KV Transmission line .. Line successfully charged on 25.08.12.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
State Sector								
	Tirora TPP,Ph-II (Distt: Gondia) M/s Adani Power Maharashtra Pvt. Ltd.	1	660	09/11 10/11	11/11	05/13 (A) 06/13(A)	06/13	<u>Unit-1</u> Unit synchronization achieved on 24.05.13. Coal synch. achieved on 25.05.13. Full load achieved on 10.06.13.COD achieved on 14.06.13.
Original Estd. Cost			: Rs.899300 Lakhs (Three units)					
Latest Est. Cost			:Rs.963500 lakhs (Three units)					
Expenditure during 03/10			: Rs. 26822 Lakhs					
Expenditure during 2010-11			: Rs. 96342Lakhs					
Expenditure during 2011-12			: Rs. 358400Lakhs					
Expenditure during 2012-13			: Rs. 195200Lakhs					
Expenditure during 2013-14			: Rs 258600Lakhs					
Expenditure during 2014-15			: Rs 27800Lakhs					
Total Expenditure (Upto 06/14)			:Rs 963164Lakhs (Three Units)					
Approval date:			;NA					
Zero date:			: 28.02.08					
Notice To Proceed (NTP)			:28.02.08					
Financial closure			: Achieved on 18.09.09					
Main Plant Order (Boiler-Babcock, China) (TG-BSTG,China)			: BTG Contract awarded to SCMEC China on 28.02.08					
BTG Make			Boiler-Babcock, China, TG-BSTG, China.					
BOP on EPC basis			: reputed Indian Vendors					
Type of fuel			: Coal					
PPA			: Maharashtra Govt.					
Source and supply of Fuel			: Imported Coal (very low Sulphur & Ash content)					
Power Evacuation system			- Tirora- Warora 400kV D/C line - Warora- Wardha 400 kV D/C Line					
Critical issues								
Reasons for Delay		Readiness of Transmission Lines by Adani.. Chinese visa issue. Tapering Linkage/Coal block in lieu of Lohara mines needs 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	
State Sector								
	Tirora TPP, Ph-II (Distt: Gondia)	2	660	05/12 07/12	08/12	03/14 (A) 03/14(A)	03/14	Unit-2 Boiler erection started on 06.12.10. Boiler HT completed on 25. 09.12. BLU completed on 31.12.13. SBO started on 22.01.14 and completed on 25.01.14. Condenser erection started on 05.04.12. TG erection started on 02.02.12. TG box up is completed on 07.08.13. TG oil flushing completed on 19.11.13. TG put on BG on 02.01.14. 765 kV line readiness achieved on 25.01.14. CHP is ready in all respect. Synchronization achieved on 13.03.14. Full load achieved on 23/03/14. COD achieved on 31.03.14.
	M/s Adani Power Maharashtra Pvt. Ltd.	3	660	08/12 10/12	11/12	09/14 (A) 09/14(A)	10/14	
Original Estd. Cost		: Rs.899300 Lakhs (Three units)						
Latest Est. Cost		:Rs.963500 lakhs (Three units)						
Expenditure during 2009-10		: Rs. 26822 Lakhs						
Expenditure during 2010-11		: Rs. 96342Lakhs						
Expenditure during 2011-12		: Rs. 358400Lakhs						
Expenditure during 2012-13		: Rs. 195200Lakhs						
Expenditure during 2013-14		: Rs 258600Lakhs						
Expenditure during 2014-15		: Rs 27800Lakhs						
Total Expenditure (Upto 06/14)		:Rs. 963164 Lakh (Three units)						
Approval date:		: 17.02.10						
Zero date:		: 05.11.09						
Notice To Proceed (NTP)		:05.11.09						
Financial closure		: Achieved on 20.08.09						
Date of Main Plant Order (BTG is being sourced from SEC China)		EPC Contract awarded to SCMEC China on 05.11.09						
BTG Make		BTG is being sourced from SEC China.						
BOP Package		Reputed Indian BoP vendors						
Type of fuel		: Coal						
PPA		: Maharashtra Govt.						
Source and supply of Fuel		:Coal linkage awaited						
Power Evacuation system		: The power will be evacuated through 400kV Double Circuit line with quad conductor from Tirora to Warora and 765kV transmission system from Tirora to Koradi to Akola to Aurangabad. The construction of 400kV Double Circuit line also completed..						
- All clearances are available. - Design & Engineering is in progress. - The order for all the BOPs have been placed and completed as per schedule. BOPs are common for both the units.								
Critical issues								
Reasons for Delay		Coal Allocation/ Long Term Coal Linkage for Unit#2 & Unit#3 is awaited from MoC.						

Unit-3

Boiler erection started on 04.01.11. Boiler HT completed on 11.09.13. **EDTA completed in 04/14.** BLU completed in 09/14. SBO completed in 09/14. Condenser erection started on 09.10.12. TG deck completed in 07/12. TG erection started on 21. 09.12. TG box up is completed on 30.12.13. TG oil flushing completed in 08/14. Delayed due to non-achieving of Nash value. TG on BG achieved in 08/14. **Coal synch. achieved on 19.09.14. Full load achieved on 25.09.14. COD declared w.e.f. 12.10.14.**

TG

BoPs:

- All the BoPs commissioned as per schedule.

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
State Sector								
	Bela Thermal Power Project (Distt. Nagpur) M/s Ideal Energy Projects Limited (IEPL)	1	270	10/11 12/11	01/12	03/13(A) 03/13(A)	07/13	Unit-1 Boiler front handed over to BHEL by MBE. Boiler material supply started from 29.11.09. Boiler erection started on 06.03.10 against the original schedule of 26.12.09. Boiler drum lifting completed on 25.08.10. Boiler HT(D) achieved on 06.06.11. Boiler HT (Non-Drainable) completed on 24.02.12. BLU achieved on 29.02.12. EDTA completed from 1.4.12 to 6.4.12. SBO started on 04.05.12 and completed on 25.05.12. Condenser erection started on 20.09.10. TG erection started on 20.09.10. TG box up completed on 14.03.12. TG oil flushing started on 28.05.12 and completed on 30.06.12. TG put on BG on 12.09.12. Synch achieved on 07.03.13. Coal firing completed on 07.03.13. Full load achieved on 20.03.13. COD achieved on 18.07.13. BoPs: All the BoPs by MBE completed.
Original Estd. Cost		: Rs- 147700 Lakhs						
Latest Est. Cost		: Rs. 176800 Lakhs						
Expenditure during 03/09		: Rs. 7200 lakhs						
Expenditure during 2009-10		: Rs. 16451Lakhs.						
Expenditure during 2010-11		: Rs. 54409Lakhs						
Expenditure during 2011-12		: Rs54058Lakhs						
Expenditure during 2012-13		:Rs.87120 Lakhs						
Expenditure during 2013-14		:Rs.11971 Lakhs (upto 06/13)						
Total Expenditure		:Rs176800 Lakhs (upto 06/13)						
Approval date:		: NA						
Zero date:		: 06.12.08.						
Notice To Proceed (NTP)		: 06.12.08						
Financial closure		: Achieved in 10/09						
Main Plant Order		: Placed on M/s BHEL on 6.12.08 for BTG.						
BTG Make		BHEL						
BOP on EPC basis		MBE On EPC basis						
Type of fuel		: Coal						
PPA		: No PPA						
Source and supply of Fuel		:From WCL and MCL						
Power Evacuation system		: M/s IEPL has been granted connectivity & open access on 400KV Koradi-Wardha Double Circuit line.						
		- All required clearances are available. - Order for all the BOPs have been placed on 29.07.09 on M/s McNally Bharat Engg. Co.Ltd. Kolkata (MBE) on EPC basis. - FSA with SECL signed. - BHEL have opened site office on 16.08.09. - M/s MBE have mobilized site on 22.09.09.						
Critical issues								
Reasons for Delay		Commissioning of Koradi-Wardha 400kV double circuit line. (Required for Start up Power) BHEL supplies of generator stator from Haridwar. Regular Chimney is ready (Brick lining work is in progress) BLU and EDTA has been carried out through temporary Chimney. Synchronisation and full load is getting delayed due to non availability of Start up power and readiness of power evacuation system by MSETCL (ROW Issue). As a contingency arrangement PGCIL has granted start up power connectivity on Mouda-Deoli 400KV PGCIL line by providing LILO arrangement. Work on last tower is also completed on 22.10.12. Other formal clearances are also in place. Start up power received on 15.12.12. Switchyard back charged on 16.12.12. Delay is due to non-availability of evacuation line of MSETCL.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch/ Comm	COD	Synch/ Comm	COD		
Private Sector									
	GEPL Thermal Power Project, Ph-I (Distt. Chandrapur) M/s Gupta Energy Pvt. Limited (GEPL)	2	60	12/10 12/10	12/10	04/12(A) 04/12(A)	05/12(A)	Unit-2 Boiler Boiler erection started on 02.09.09. Boiler Drum lifted on 14.01.10. Boiler HT (Non-drainable) achieved on 01.10.10. BLU completed in 11/11. SBO started on 08.01.12 completed on 20.01.12. Condenser erection started on 05.03.10. TG erection started on 16.04.10. TG box up completed in 12/10. Oil flushing completed. TG put on BG on 21.11.11. Unit synchronization achieved on19.04.12. Commissioning achieved on 28.04.12. COD achieved on 09.05.12. Unit-1 Boiler Boiler erection started on 02.11.09. Boiler Drum lifted on 14.03.10. Boiler HT (Non-drainable) completed on 15.08.11. BLU completed on 25.11.11. SBO completed on 15.02.12. Condenser erection started on 05.05.10. TG erection started on 16.06.10. TG box up completed in 01/12. Synch. achieved on 29.08.12. Commissioning achieved on 08.09.12. BoPs: All the BoPs commissioned.	
		1	60	11/10 11/10	11/10	08/12(A) 09/12(A)	09/12(A)		
Original Estd. Cost		: Rs- 65649 Lakhs							
Latest Est. Cost		: Rs. 75000Lakhs							
Expenditure during 03/10		: Rs. 32354lakhs							
Expenditure during 2010-11		: Rs. 20200 Lakhs							
Expenditure during 2011-12		: Rs. 16164 Lakhs							
Expenditure during 2012-13		: Rs. 3800Lakhs							
Total Expenditure (Upto 12/12)		:Rs.72518 Lakhs							
Approval date:		: NA							
Zero date:		:04/09							
Notice To Proceed (NTP)		:04/09							
Financial closure		: Achieved							
Main Plant Order		: Placed on M/s Thyssenkrupp Industries India Pvt.Ltd. (Boiler) in 04/09 and China National Automotive Industries International Cooperation (TG) in 03/09.							
BTG Make		M/s Thyssenkrupp Industries India Pvt.Ltd. (Boiler) and China National Automotive Industries International Cooperation (TG).							
BOP Package		: Packagewise							
Type of fuel		: Coal							
PPA									
Source and supply of Fuel		: (washery reject coal) in process							
Power Evacuation system									
- FSA is in progress. - All required clearances are available.									
Critical issues		: Coal availability							
Reasons for Delay		Coal availability							

Unit-1 Boiler
Boiler erection started on 02.11.09. Boiler Drum lifted on 14.03.10. Boiler HT (Non-drainable) completed on 15.08.11. BLU completed on 25.11.11. SBO completed on 15.02.12. Condenser erection started on 05.05.10. TG erection started on 16.06.10. TG box up completed in 01/12. **Synch. achieved on 29.08.12. Commissioning achieved on 08.09.12.**

BoPs:

- All the BoPs commissioned.

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
State Sector								
	Butibori TPP, Ph- II, (Ph-I is CPP) (Distt: Nagpur) M/s Vidarbha Industries Power Ltd.	1	300	12/11 01/12	02/12	06/12(A) 08/12(A)	04/13(A)	Unit-1 Civil works started on 01.06.10. Boiler erection started in 10/10. . Boiler HT (ND) completed on 27.10.11. BLU completed on 27.03.12. SBO started on 13.04.12 and completed on 27.04.12. TG Civil works started on 01.06.10. TG erection started. TG Box up completed in 04/12. TG put on BG in 04/12. Unit normalization completed. Synch achieved on 25.06.12. Coal Firing achieved on 25.06.12. Full load achieved on 17.08.12. COD achieved on 04.04.13.
Original Estd. Cost		: Rs.160000 lakhs						
Latest Est. Cost		: Rs.160000 lakhs						
Expenditure during 03/10		: Rs 940 lakh						
Expenditure during 2010-11		:Rs 15440 lakh						
Expenditure during 2011-12		: Rs 86400 lakh						
Expenditure during 2012-13		: Rs.9900 lakh						
Total Expenditure (Upto 12/12)		:Rs.112700 lakhs						
Approval date:		: Expected in 10/10						
Zero date:		: 16.12.09						
Notice To Proceed (NTP)		:16.12.09						
Financial closure		: Achieved						
Main Plant Order (Boiler &TG from SEC, China)		:BTG Contract awarded to Shanghai Electric Company China on 16.12.09.						
BTG Make		Boiler &TG from SEC, China)						
BOP on EPC basis		Reputed Indian BoP vendors.						
Type of fuel		: Coal						
PPA								
Source and supply of Fuel		: Available, WCL, 1.11million tones per annum						
Power Evacuation system		: MSTECL Grid. 220 kV D/C power evacuation transmission line is ready for energisation.						
		• All clearances are available. • The order for civil & structural work (GCW) has placed on M/s JMC. • DM Plant commissioned on 05.10.11. • Chimney is ready for BLU. • Switchyard made ready for back charging (21.11.11). • FSA: Available • EPC contract awarded to M/s Reliance Infrastructure Limited.						
Critical issues								
Reasons for Delay		The problem in mills and turbine bearing. Non-availability of coal. Non-readiness of CHP						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
	Amravati TPP, Ph-I, (Distt: Amravati) M/s RattanIndia Power Limited (Formerly known as Indiabulls Power Ltd.)	1	270	11/11 12/11	01/12	03/13(A) 03/13(A)	06/13(A)	Unit-1 Boiler civil works started on 16.03.10. Boiler erection started on 04.10.10. Boiler drum lifting completed on 01.03.11. Boiler HT (Drainable) completed on 11.03.12. Boiler Light up completed on 24.08.12. SBO started on 11.01.13 and completed on 31.01.13. TG civil works started on 27.04.10. TG erection started on 25.08.11. TG Box up completed on 08.06.12. TG oil flushing completed in 12/12. TG put on BG on 19.01.13. Steam dumping started on 05.03.13. Oil synch. achieved on 09.03.13. Coal synch. achieved on 22.03.13. Full load achieved on 25.03.13. COD achieved on 03.06.13.
		2	270	12/11 12/11	01/12	02/14(A) 02/14(A)	03/14(A)	
		3	270	01/12 01/12	02/12	01/15(A) 01/15(A)	02/15(A)	
		4	270	02/12 02/12	03/12	03/15(A) 03/15(A)	03/15(A)	
		5	270	03/12 03/12	04/12	03/15(A) 03/15(A)	03/15(A)	
	Original Estd. Cost		: Rs.688900 lakhs					
	Latest Est. Cost		: Rs.749333 lakhs					
	Expenditure during 03/10		: Rs 97723 Lakh					
	Expenditure during 2010-11		: Rs. 80446Lakhs					
	Expenditure during 2011-12		: Rs.225784 Lakhs					
	Expenditure during 2012-13		: Rs. 185928 Lakhs					
	Expenditure during 2013-14		: Rs. 111494 Lakhs					
	Expenditure during 2014-15		: Rs. 70303 Lakhs					
	Total Expenditure (Upto 03/15)		: Rs. 771678 Lakhs					
	Approval date:		:NA					
	Zero date:		: 30.11.09					
	Notice To Proceed (NTP)		:30.11.09					
	Financial closure		: Achieved on 26.11.09					
	Main Plant Order		: BTG on EPC basis awarded to BHEL on 30.11.09.					
	BTG Make		BHEL					
BOP on EPC basis		Reputed Indial Vendors						
Type of fuel		: Coal						
PPA		Maharashtra Govt.						
Source and supply of Fuel		: From SLC (LT) on 12.11.08.(5.093MTA)						
Power Evacuation system		: Through 400kV D/C quad Moose transmission line upto Akola from there in nearest CTU/STU.						
		- FSA: With SECL & WCL in 06/09(LOA) - All clearances are available. - Zero date of the project is 30.11.09. - Mega status is available.						
Critical issues								
Reasons for Delay		Non-readiness of railway siding. Non-availability of coal. Shortage of water, readiness of evacuation svstem.						
		BoPs: The order was placed on reputed Indian vendors. BoPs were common for all the five units and completed as per 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									
	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								
	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. Coal bunkering started on 10.02.14. Coal synch. achieved on 24.02.14. Full load achieved on 25.02.14. COD achieved on 29.03.14.
		2	270	02/12 04/12	05/12	03/16 (A) 09/16	10/16	
		3	270	04/12 06/12	07/12	12/16 12/16	12/16	
		4	270	06/12 08/12	09/12	02/17 02/17	02/17	
		5	270	08/12 10/12	11/12	03/17 03/17	03/17	
	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 98461 Lakhs					
	Total Expenditure (Upto 03/16)		: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						
Reasons for Delay		- Railway siding for coal transportation. - Finalization of PPA. - Rectification of defect in GIS switchyard by Siemens-Germany. - Fault in HT panel - Financial Constraints						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch/ Comm	COD	Synch/ Comm	COD		
Private Sector									
	Nasik TPP , Ph-II (Distt: Nasik) M/s 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. Unit-1 Boiler Boiler erection started in 09/11. Work is on hold. Unit-2 Boiler Boiler erection started in 11/11. Work is on hold. Unit-3 Boiler Work is on hold Unit-4 Boiler Work is on hold Unit-5 Boiler Work is on hold BoPs: • Work at site has been put on hold since long back.	
		2	270	03/13 06/13	06/13	@	@		
		3	270	05/13 08/13	08/13	@	@		
		4	270	07/13 10/13	10/13	@	@		
		5	270	09/13 12/13	12/13	@	@		
	Original Estd. Cost		: Rs.678900 lakhs						
	Latest Est. Cost		: Rs.678900 lakhs						
	Expenditure during 03/10		: Rs.36805 Lakhs						
	Expenditure during 2010-11		: Rs. 10000 Lakhs						
	Expenditure during 2011-12		:Rs. 5339 Lakhs						
	Expenditure during 2012-13		:Rs. 9615 Lakhs						
	Expenditure during 2013-14		:Rs. 5022 Lakhs						
	Expenditure during 2014-15		:Rs. 4400 Lakhs						
	Total Expenditure (Upto 03/15)		:Rs. 71181Lakhs						
	Approval date:		: NA						
	Zero date:		: 24.11.09						
	Notice To Proceed (NTP)		: 24.11.09						
	Financial closure		: Achieved on 30.06.10						
	Main Plant Order		: BTG on EPC basis awarded to BHEL on 24.11.09						
	BTG Make		BHEL						
	BOP on EPC basis		Reputed Indian Vendors						
	Type of fuel		Coal						
	PPA		No PPA						
	Source and supply of Fuel		: From SLC (LT) on 17.12.08.						
	Power Evacuation system		: Through 400kV D/C quad Moose transmission line upto MSETCL sub-station at Bhabaleshwar.						
	• FSA: With MCL, SECL & WCL on 11.06.09. • All clearances are available.								
Critical issues		Work at site is on hold.							
Reasons for Delay		Work at site has been put on hold since long back.							

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch/ Comm	COD	Synch/ Comm	COD		
Private Sector									
	GMR Warora TPP, Ph-I &II , (Distt: Chandrapur) M/s GMR Warora Energy Ltd (Erstwhile M/s EMCO Energy.Ltd.)	1	300	09/11	11/11	12/12(A)	02/13(A)	Unit-1 Boiler erection started in 12/10. Boiler Drum lifted in 05/11. HT (Non-Drainable) completed in 01/12. EDTA completed on 21.07.12. BLU completed on 29.08.12. SBO started on 02.10.12 and completed on 14.10.12. Normalization completed. Condenser erection started on 18.07.11. TG erection started on 12.12.11. TG box up completed on 13.05.12. TG oil flushing completed on 05.09.12. TG put on BG on 15.09.12. Oil Synch. achieved on 10.12.12. Coal bunkering started on 15.1.13. Coal synch. achieved on 25.01.13. Full load achieved on 07.02.13. COD achieved on 19.03.13. Unit-2 Boiler erection started in 02/11. Drum lifting completed in 08/11. Boiler HT (D) completed on 24.07.12. EDTA completed on 28.03.13. BLU completed on 03.04.13. All Mills completed on 30.07.13. SBO completion and normalization achieved in 07/13. Condenser erection started on 19.03.12. TG erection started on 21.02.12. TG boxed up on 27.02.13. TG oil flushing completed in 05/13. TG put on BG on 15.05.13. Oil synch. achieved on 06.08.13. Coal firing done on 25.08.13. AHP readiness achieved on 30.07.13. Full load achieved on 27.08.13. COD achieved on 01.09.13. BoPs: All BoPs were completed as per schedule.	
		2	300	12/11	02/12	08/13(A)	08/13(A)		
	Original Estd. Cost		: Rs.348000 lakhs						
	Latest Est. Cost		: Rs.400000 lakhs						
	Expenditure during 03/10		: Rs.30300 lakhs						
	Expenditure during 2010-11		: Rs50600 Lakh						
	Expenditure during 2011-12		: Rs.186000 Lakh						
	Expenditure during 2012-13		: Rs.96700 Lakh						
	Expenditure during 2013-14		: Rs.11500 Lakh						
	Total Expenditure (Upto 06/13)		: Rs.375100Lakhs						
	Approval date:		:NA						
	Zero date:		:25.09.09						
	Notice To Proceed (NTP)		:25.09.09						
	Financial closure		Achieved						
	Date of Main Plant Order (Boiler &TG from SEC, China)		: BTG Contract awarded to Shanghai Electric China on 25.09.09.						
	BTG Make		(Boiler &TG from SEC, China)						
	BOP on EPC basis		: Reputed Indian Vendors						
	Type of fuel		: Coal						
	PPA		:Signed						
	Source and supply of Fuel		Coal linkage : Available						
	Power Evacuation system		- PGCIL has granted long term access and bulk power transfer agreement. - Agreement signed with PGCIL on 15.12.09 for construction of 2 bays at Bhadravati substation. - Line survey work and construction work completed.						
	- FSA: available. - All clearances are available. - Order for all the BOPs have already been placed. - M/s TCE Consulting Engineers, Bangalore are owner’s engineers.								
Critical issues									
Reasons for Delay		Acquisition and handing over of railway siding and ash pond land got delayed from MIDC. Readiness of Transmission line for back charging. MIDC has delayed the award of weir Contract. Contingency arrangement for startup power had been made. Regular start up power received on 22.10.12.							

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch/ Comm	COD	Synch/ Comm	COD		
Private Sector									
	Dhariwal TPP, (Distt: Chandrapur) M/s Dhariwal Infrastructure Private Ltd.	1	300	02/12 02/12	03/12	09/13 (A) 11/13(A)	02/14(A)	Unit-1 Boiler erection started on 31.03.11. Boiler drum lifting completed on 18.10.11. HT (D) completed 0n 30.06.12. HT (ND) completed on 06.01.13. BLU achieved on 13.02.13. EDTA completed on 09.03.13. SBO completed on 02.04.13. Condenser erection started on 10.02.12. TG erection started on 20.02.12. TG Box completed on 15.01.13. TG oil flushing completed on 01.03.13. TG put on BG on 23.03.13. Rolling done in 07/13. Oil synch. achieved on 02.09.13. Coal firing achieved on 16.09.13. Full load achieved on 03.11.13. COD achieved on 13.02.14. Unit-2 Boiler erection started on 12.06.11. Boiler drum lifting completed on 05.03.12. Boiler HT (D) completed on 28.02.13. BLU completed on 15.11.13. SBO completed on 03.01.14. Condenser erection started 10.07.12. TG erection started on 10.07.12. TG oil flushing completed in 12/13. TG Box is completed on 15.10.13. TG put on BG on 13.01.14. Rolling completed on 4.3.14. Oil synch. achieved on 30.04.14. Coal firing achieved on 06.05.14. AHP made ready on 15.05.14. Full load achieved on 28.05.14. COD achieved on 02.08.14. BoPs: • All the BoPs have been commissioned.	
		2	300	05/12 05/12	06/12	04/14 (A) 05/14(A)	08/14(A)		
	Original Estd. Cost		: Rs.285000 lakhs						
	Latest Est. Cost		: Rs.372900 lakhs						
	Expenditure during 2010-11		: Rs 44300 lakh						
	Expenditure during 2011-12		: Rs 120600 lakh						
	Expenditure during 2012-13		: Rs 127900 lakh						
	Expenditure during 2013-14		: Rs 58900 lakh						
	Expenditure during 2014-15		: Rs 7600 lakh						
	Total Expenditure (Upto 07/14)		:Rs 352300 lakhs						
	Approval date:		:NA						
	Zero date:		:28.04.10						
	Notice To Proceed (NTP)		:28.04.10						
	Financial closure		: Achieved in 09/09						
	Date of Main Plant Order (Boiler &TG from SEC, China)		: BTG Contract awarded to Shanghai Electric Corporation China on 28.04.10.						
	BTG Make		Boiler &TG from SEC, China)						
	BOP on EPC basis		M/s Punj Lloyd						
	Type of fuel		: Coal						
	PPA		:part PPA						
	Source and supply of Fuel		: SECL						
Power Evacuation system		• 50% with Chandrapur substation of MSETCL and 50% through 400KV Bhadrawati Parli circuit of CTU by LILO.							
		• 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									
Reasons for Delay		400 KVTransmission line was ready but due to non-readiness of Chandrapur –II MSETCL substation, arrangement for start up power was made at 220 KV level. However, for power evacuation Chandrapur II Substation took time in completion..							

BoPs:

- All the BoPs have been commissioned.

Vidh arbha 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								
	Lanco Vidarbha TPP, (Distt: Wardha) M/s Lanco vidarbha Thermal Power Ltd.	1	660	03/14 07/14	08/14	03/17 06/17	06/17	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. HT is expected in 10/16.
		2	660	07/14 11/14	12/14	06/17 09/17	09/17	
	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 25500 lakh					
	Total Expenditure (Upto 09/16)		: Rs 485500 lakh					
	Approval date:		: NA					
	Zero date:		: Achieved on 01.12.10.					
	Notice To Proceed (NTP)		: Achieved on 01.12.10.					
	Financial closure		: Achieved on 01.12.10.					
	Main Plant Order Boiler & Aux.: Dongfang, China TG & Aux.: Harbin, China,		: EPC Contract awarded to M/s Lanco Infra Tech Ltd.(LITL) through ICB Route in 11/09.					
	BTG Make		Boiler & Aux.: Dongfang, China TG & Aux.: Harbin, China,					
	BOP on EPC basis		Lanco Infratech Limited					
	Type of fuel		: Coal					
	PPA		PPA for 680MW(Net)signed with MSEDCL.					
	Source and supply of Fuel		: SECL					
	Power Evacuation system		: Grant of connectivity letter received at 765 kV from Wardha-Seoni line from PGCIL. Connectivity agreement is in progress.					
	- All clearances are available. MOEF clearance received on 24.02.11. - Design & Engineering completed. - Order for all BOPs have been placed and progressing as per schedule. - FSA is in process. - PPA with MSEDCL for 680MW signed on 25.09.08. - Work was on hold since 01/2013. - Work at site restarted since April, 2015. - Work in all the BoPs is also progressing nicely.							
	Critical issues	Financial crunch.						
	Reasons for Delay	# Work was on hold due to financial crunch. Work has now restarted since 04/15.						

TG
TG Deck casting completed. TG handed over to mechanical department for erection. TG erection started in 05/16. EOT Crane (2 nos.) already commissioned.TG Box up is expected in 01/17.

Unit-2 Boiler
Boiler erection started in 10/11. Main structure erection upto 6th tier completed. All the (5) Ceiling Girder (CG) erection work completed. Pressure parts erection work started in 08/16. HT expected in 01/17.

TG
TG raft completed and Mezzanine Floor work completed. Top deck shuttering work also completed, final inspection work under progress. TG erection work completed in 08/16

BoPs:

- Chimney:** Civil works for chimney are being done by M/s LITL. Chimney Raft completed. Chimney shell construction completed upto 30 mtr.upto 07/16. Chimney flue can& Platforms fabrication work is under progress and expected in 02/17 & 04/17.
- CHP:** (Elecon Engg.Co. Ltd): Wagon Tippler excavation work completed. Raft Completed in WT area and balance work is in progress. Civil works are being done by M/s LITL. In other parts of CHP such as Stacker reclaimers , Crusher House, TPs and conveyors civil works are in progress..
- AHP: (M/s LITL):** Civil works for BA hoppers, Fly ash silo's, AWP, ASPH and ash dyke are in progress.
- Raw Water Supply System:** Work is in progress.
- PT/ DM Plant(DOshion Veolia water solution):** Approx. 80% civil works completed upto 09/16.
- CW System:** Civil works are with M/s LITL and mechanical works are with M/s Singrauli Associates Pvt. Ltd.. Civil works in CW pump house, CW fore Bay and CW open channel are in progress. 85% CW pipeline erection work completed upto 09/16. Balance erection work is under progress.
- IDCT:** Being done by M/s LITL. For both the IDCT- I: & IDCT- II: PCC and basin raft concreting completed. Pedestal work is in progress.
- FOPH:** All civil works are in progress..
- Switchyard: 95% switchyard foundations completed so far.**

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
	Bijora Ghanmukh TPP, (Distt: Yavatmal) M/s Jinbhuvish Power Generations Pvt. Ltd. (JPGPL)	1	300	10/16 12/16	01/17	@	@	Unit-1 Boiler Boiler Civil works started in 09/15. Work at site put on hold due to financial crunch. TG TG Civil works start is expected in 05/16. Work at site put on hold due to financial crunch. Unit-2 Boiler Work at site put on hold due to financial crunch. TG Work at site put on hold due to financial crunch. @: Work at site put on hold. Revised commissioning schedule will be decided after re-start of work. BoPs Work yet to start
		2	300	01/17 03/17	03/17	@	@	
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 packagewise contract to reputed vendors was in progress. - Site leveling and grading was in progress. - Capacity revision from 2x250 MW to 2x300 MW accepted and issued letter on 19.03.14. - FSA is in process. All the milestones required under the terms of LOA have been completed. - PPA: MOA signed on 27.02.12 with PTC India Ltd. for sale of 430 MW (75%) on Long Term Basis and remaining 25% on merchant power basis. - Various site enabling works were in progress.						
Critical issues		Financial Issue						
Reasons for Delay		The schedule of implementation got revised due to change in capacity from 2x250 MW to 2x300 MW. Formal approval received on 19.03.14. Signing of FSA with WCL has to be expedited.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch/ Comm	COD	Synch/ Comm	COD	
Private Sector								
	Mangaon CCPP, (Distt: Raigad) M/s Pioneer Gas Power Ltd. (PGPL)	Block-I (1GT+ 1ST+ 1HRSG)	GT:255 ST:133	03/13 04/13	05/13	06/16 07/16	08/16	Block-1 GTG GTG foundations are ready. GTG supply received at site on 01.11.12. GT erection started on 17.01.13. Assembly & Alignment work also completed. Bypass stack erection completed in May, 2013. FSNL completed in 04/16 . GTG synchronization in open cycle is achieved in 07/16. HRSG Civil work started in 06/12. HRSG supply commenced & completed in 10/12. Erection started on 22.11.12. Drum lifting completed on 08.06.13. HT completed in 07/13. ABO completed in 03/16. SBO also completed. STG Civil works started in 05/12. Deck casting completed. ST erection completed. STG box up is completed in 09/13. ST rolling and Synchronisation achieved in 07/16. Combined cycle commissioning is expected in 08/16. It has already achieved a load of 350MW in Combined cycle. BoPs: • All the BoPs have been commissioned.
Original Estd. Cost		: Rs.123300 Lakh						
Latest Est. Cost		: Rs.177616 Lakh						
Expenditure during 2011-12		: Rs. 14198 Lakh						
Expenditure during 2012-13		: Rs 50873 Lakh						
Expenditure during 2013-14		: Rs 58650 Lakh						
Total Expenditure (Upto 06/14)		: Rs 123721 Lakh						
Approval date:		: NA						
Zero date:		: 16.12 11						
Notice To Proceed (NTP)		: 16.12 11						
Financial closure		: Achieved on 28.12.11.						
Date of Main Plant Order		: EPC Contract awarded to M/s Tata Project Ltd.(TPL) through ICB Route on 16.12 11.						
BTG Make		GT/GTG- GE, USA ST/STG- Scoda, Czech HRSG- Wuxi Huaguang						
BOP		Packagewise						
Type of fuel		Gas						
PPA		Part PPA signed						
Source and supply of Fuel		: Yet to be accorded						
Power Evacuation system		: The start up power and power evacuation for this project will be at the voltage of 220kV Vile-Bhagad Sub-station of MSETCL located at around 2km distance from the site.						
		- FSA: Completed in 03/16. - All mandatory clearances are available. - Design & Engineering completed. - Order for all the BOPs have already been placed and completed also. - Configuration is 1GT+1 ST. - Gas substation is ready. - Power evacuation system is ready. - DM plant is ready. - ACC completed in all respect.						
Critical issues		Allocation of Gas from D-6, KG Basin.Gas requirement for this project is 1.75mmcmd.						
Reasons for Delay		Non-Availability of domestic gas from D-6, KG Basin						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch/ Comm	COD	Synch/ Comm	COD		
Private Sector									
	Shirpur Power Private Ltd. Distt. Dhule, Maharashtra	1	150	12/14	02/15	12/16	02/17	<u>Unit-1 & 2:</u> Steam blowing of both the units completed. Main plant structural work completed. Project is 96.7% complete. <u>BoPs:</u> Almost all BoPs are completed. - CHP: coal feeding from emergency reclaim hopper to bunker completed. Wagon tippler erection in progress. - AHP, Cooling tower, Chimney, PT plant, DM plant, CW system completed. - Fire detection system erection is in progress. - Station transformer to be charged after backcharging 220 Kv Transmission line.	
		2	150	02/15	04/15	02/17	04/17		
	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						
	Total Expenditure (Upto 03/16)		:Rs 200108 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									
Reasons for Delay									

Southern Region

BROAD STATUS OF THERMAL POWER PROJECTS IN ANDHRA PRADESH

Sl. No.	Project Details	Capacity (MW)	Commissioning Schedule				Broad Status
			Original		Actual(A)/ As Expected		
			Synch Comm	COD	Syn. Comm	COD	
State Sector							
	Rayalaseema TPP St-IV (M/s. APGENCO) Distt.Cuddapah Unit - 6	600	07/14 08/14		02/17 03/17	03/17	•Boiler: Erection started on 04/02/2013. Boiler Drum lifted on 30/11/13. 22643 MT/ 29730MT structural materials erected till 09/16. Boiler air leak test completed. Mill foundation on both sides completed. Bowl mill deck slabs completed for all mills. BLU expected in 12/16. •ESP: 8439 MT/9582 MT erected till 09/16. •TG: Columns erection completed. Deck slab concreting completed. Condenser pedestals (4/4) completed. Alignment of dome wall baffle placed and landing bar are in progress. TG rotors received at site. TG erection started on 04/03/16 & blue matching of LP Girder & LP side wall is in progress. EOT crane erection & load test completed on 11/03/16. •Chimney: (M/s Gammon) Shell concreting started on 25/05/15 & shell completed. •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 are in progress. •RWR: Trimming of slopes of reservoir bund is in progress. •PTP: 90% of clarifier works completed. Filter water reservoir works in progress. •DM: 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) RCE completed for Raft. 22/22 pedestals completed. 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 lakh					
Expenditure during 2016-17		Rs. 31500 lakh					
Total Expenditure		Rs. 2901 Crores (up to 9/2016)					
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 and ID, FD & PA fan foundation work not started. 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	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch Comm	COD	Syn. Comm	COD		
State Sector									
	Sri Damodaram Sanjeevaiah TPP (Krishnapatnam) (APPDCL) Distt.Nellore	1	800	05/12 07/12	08/12	03/14 08/14	05/02/15	<u>Unit-1</u> • Boiler: Erection commenced on 20/02/11. HT conducted in 24/03/13 & non-drainable HT on 24/03/14. BLU done on 13/08/13. Mill trail run completed. EDTA cleaning completed on 09/09/13. SBO started on 17/02/14 & completed 13/03/14. Coal firing done on 17/04/14. • TG: Condenser erection started 04/02/12. TG erection started on 10/01/12. Boxed up in 09/13. Both TDBFP completed. Unit synchronized on 31/03/2014 on oil. Achieved full load on 28/08/2014. • COD declared w.e.f 05/02/2015. <u>Unit-2</u> • Boiler: Erection commenced on 24/04/11. Pressure parts erected. Mill equipment erected up to separator top. HT (drainable) completed in 17/12/2013. BLU completed on 22/06/2014. EDTA cleaning started on 27/06/2014 & completed on 03/07/14. SBO started on 13/09/2014 & completed on 20/11/2014. • TG: Condenser erection started 04/07/12. TG erection started on 28/07/12. TG boxed-up in 11/13. • Unit synchronized on 16/12/2014 and achieved full load 17/03/2015. • COD declared w.e.f. 23/08/2015.	
		2	800	11/12 01/13	02/13	12/14 03/15	23/08/15		
	Original Estd. Cost		:Rs 843200 lakh						
	Latest Est. Cost								
	Expenditure during 2006-07		:Rs. 432 lakh						
	Expenditure during 2007-08		:Rs. 449 lakh						
	Expenditure during 2008-09		:Rs. 89960 lakh						
	Expenditure during 2009-10		:Rs. 54785 lakh						
	Expenditure during 2010-11		:Rs. 167208 lakh						
	Expenditure during 2011-12		:Rs. 285441 lakh						
	Expenditure during 2012-13		:Rs. 166940 lakh						
	Expenditure during 2013-14		:Rs. 140394 lakh						
	Expenditure during 2014-15		:Rs. 189744 lakh						
	Expenditure during 2015-16		:Rs. 74525 lakh						
	Total Expenditure		:Rs 11810.51 Crore (up to 08/15)						
	Approval date:		: 28/01/2006						
	Zero date:		: 29/08/08 BHEL- Steam Gen : 23/09/08 L&T - STG : 27/02/09 Tata Pro Ltd - BOPs						
	Financial closure		: Financial Tie-up is made with PFC on 26/12/07, KFW Germany on 11/12/08 and local banks						
	Main Plant Order		: SG on BHEL on 25/07/08 : STG on L&T on 26/06/08						
	BOP Package		: BOPs on Tata's on 10/02/09						
	Type of fuel		Coal – FSA signed on 20/12/06 for 5 million Ton per Annum with MCL (70:30::Ind: Imp)						
	PPA		:Entered with DISCOMs of 22/11/2010						
	Power Evacuation system		:Consent of APTRANCO on 01/03/2007						
•									
Critical issues									
Reasons for Delay		Readiness of external CHP(~ 4km length) by M/s Indwell, Cooling Towers, Sea water intake system etc.							

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch Comm	COD	Syn. Comm	COD	
State Sector								
	Sri Damodaram Sanjeevaiah TPP St-II (Krishnapatnam) (APPDCL) Distt.Nellore	1	800	02/19 03/19	04/19	02/19 03/19	04/19	• All statutory inputs are available.
	Original Estd. Cost	Rs. 4276.04 Crs.						
	Latest Est. Cost							
	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							
	PPA							
	Power Evacuation system							
	•							
Critical issues								
Reasons for Delay								

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch Comm	COD	Syn. Comm	COD	
State Sector								
	Dr. Narla Tata Rao TPP APGENCO Distt. Vijayawada, AP	1	800	05/19 06/19	07/19	05/19 06/19	07/19	• All statutory inputs are available.
	Original Estd. Cost	Rs . 5286.54 Crs.						
	Latest Est. Cost							
	Expenditure during 2015-16							
	Total Expenditure	Rs. 207 Crs.						
	Approval date:							
	Zero date:							
	Financial closure							
	Main Plant Order	BTG order placed on BHEL on 28.10.15.						
	BOP Package	Tendering for BOP packages are under progress.						
	Type of fuel	Coal						
	PPA							
	Power Evacuation system							
	•							
Critical issues								
Reasons for Delay								

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status		
				Original		Actual(A)/ As Expected				
				Synch Comm	COD	Syn. Comm	COD			
Private Sector										
	Vizag TPP (HNPC Ltd), Palavalasa village Distt. Vishakhapatnam	1	520	05/13 06/13	06/13	6/12/15 27/12/15	10/01/16	Unit-1: Boiler: erection started on 30/05/11. Drum lifted on 10/01/12. HT conducted on 28/12/12. BLU achieved on 22/03/14. EDTA works started on 11/08/2014 and completed on 14/08/2014. SBO started on 24/09/14 & works are affected due to Hudhud cyclone. 08 Mills ready. SBO restarted on 06/03/2015 and completed on 20/03/2015 and Normalization works completed on 10/04/2015. Synchronized on 6/12/15 & loaded to 350 MW. TG: Erection of condenser started on 03/03/12, that of TG on 25/07/12. Boxed Up on 21/09/13. TG oil flushing completed on 21/04/15. TG put on barring gear from 05/ 08/14. Re - synchronized and achieved Full load on 27/12/15. COD declared w.e.f 10/01/16. Unit-2: Boiler: erection started on 29/09/11. Mills completed. Drum: lifted on 18/04/12. HT conducted on 28/03/13. BLU: completed on 30/07/14, EDTA started on 18/04/2015 and completed on 27/04/2015. SBO started on 5/10/15 completed on 12/10/15. BLU done for steam dumping on 18/03/16. TG: Erection of condenser started on 23/11/12 and that of TG on 04/03/13. TG oil flushing completed in 08/14. TG box up completed in 15/04/14. TG put on barring gear on 30/05/15. Synchronized and achieved Full load on 31/03/16. Chimney is ready. CHP: Truck hopper route up to U-1 is ready. 04 crushers erected. For U-2, JNT-1&2 structural erections completed. Associated mechanical works to LHS, RHS sides, erection of tippers completed. Stacker Reclaimer- 2 completed. AHP: Series pump's erected. Ash slurry p/h is ready. Ash slurry pipe line up to dyke completed. Desalination Plant is ready. DM Plant commissioned. CW System: Piping work completed. 02 nos. of sea water pipe for U-1 are erected. EOT crane ready. U-2 intake well works are nearing completion. Diffuser portion on outfall side completed. Down comers (12) erected. HDPE diffuser pipelines laying on sea bed completed. CT: Not applicable due to once through cooling system. FO System: ready. Switchyard: Gantry work completed. Equipment's erection completed.		
		2	520	08/13 09/13	09/13	31/03/16 31/03/16				
	Original Estd. Cost		:Rs 554500.00 Lakh							
	Latest Est. Cost		: Rs 554500.00 Lakh							
	Expenditure up to 03/07		:Rs. 1494.00 Lakh							
	Expenditure during 2007-08		:Rs. 154.65 Lakh							
	Expenditure during 2008-09		:Rs. 4682.35 Lakh							
	Expenditure during 2009-10		:Rs. 21672.00 Lakh							
	Expenditure during 2010-11		:Rs. 49765.00 Lakh							
	Expenditure during 2011-12		:Rs. 106611.00 Lakh							
	Expenditure during 2012-13		:Rs. 171872.00 Lakh							
	Expenditure during 2013-14		:Rs. 175590.00 Lakh							
	Expenditure during 2014-15		:Rs. 102516.00 Lakh							
	Expenditure during 2015-16		:Rs 95481.00 Lakh (up to 02/16)							
	Total Expenditure		: Rs 7298.38 Crores (up to 02/16)							
	Bank disbursement		: Rs. 3618.00 Crores							
	Approval date:									
	Zero date:		:30/06/2010							
	Financial closure		: Achieved on 29th June'10 with a consortium of 15 Banks led by SBI (75:25:: Debt: Equity)							
	Main Plant Order		EPC contract placed on BHEL on 30/03/10							
	BOP Package									
	Type of fuel		Coal							
	PPA		100% power to be sold to APGENCO. Agreement signed with APDISCOMS on 17/05/13							
	Power Evacuation system		400 kV Project – Kalpakka D/C line is ready for startup and evacuation of power Applied to PGCIL on 30/07/10 PGCIL to develop ATS. LTOA application submitted to APTRANSCO on 21/10/2011.							
			Land: 1122.38+300 acres of land acquired and is in possession. Coal Linkage: LOA issued by MCL for supply of 100% coal normative quantity to HNPCL for 2x520 MW TPP. FSA: Signed on 26/08/2013 MOEF: clearance obtained on 03/09/1996 and revalidated later on 04/03/2009. Water: obtained allocation from APIICL for 7 cusecs of sweet water and permission from IID to draw 1.8 lacs m3/hr. of sea water for once through cooling system. SPCB: clearance obtained from APPCB. Civil Aviation: NOC obtained from AAI. Mega Power Project Status: Provisional Mega Power Project Status is available.							
Critical issues		- Readiness of Permanent Railway line. - Permanent transmission facilities for power evacuation by APTRANSCO.								
Reasons for Delay		Readiness of transmission line for back charging, intake and outfall system, CHP & Hudhud cyclone								

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status		
				Original		Actual(A)/ As Expected				
				Synch Comm	COD	Syn. Comm	COD			
Private Sector										
	SGPL Power Project (2x660 MW) Distt. Nellore, AP (M/s SGP Limited)	1	660	02/15 03/15	03/15	26/05/16 11/16	11/16	Unit-1 Boiler: Erection started on 10/05/13. HT done on 29/07/15. BLU done on 25/02/16. SBO completed on 05/04/16. PA, FD, ID fans load trails completed. Coal mills erected & lube oil flushing completed. Coal piping erection completed. ESP: completed in all respect. STG: TG deck casting completed on 21/02/2014. TG erection started in 07/14. TG boxed-up in 02/16 & put on barring gear on 10/03/16. Unit synchronized on 26/05/16. Coal firing started on 23/06/16 Unit-2 Boiler: Boiler erection started on 27/11/13. 7711//8348 MT pressure parts erection completed. Nearly 51509/52890 joints completed. HT done on 30/01/16. BLU expected in 08/16. Coal mills 8/8 nos. mills erection completed ESP: ATT for Pass-B completed. Emitting electrodes, outer casing insulation works are under progress. STG: TG erection started on 15/12/2014. Tube insertion in condenser completed. LP1, LP2 & HIP boxed up. 1st stage oil flushing is in progress. BoP's Chimney: 270 m shell concreting is completed. Unit-1 & 2 8/8 flue can erection completed. Shells inside and outside painting work are in progress. CHP: order placed on M/s Thyssen Krupp Industries India on 30/03/13. Crusher house erection completed. Erection of SR-1 completed and SR-2 & SR-3 equipment erection is in progress. 30:70 Import: Domestic coal. 7.5 Km piped conveyor for transportation of coal from Krishnapatnam port to site. Integrated trail run of ECHP and ICHP completed and the system is in operation. U-2 tripper floor works is in progress. First shipment of coal (2,30,000 MT) successfully conveyed via ECHP from KP port to plant coal yard 1 (7.5 km). Coal linkage is from MCL. FSA is to be finalized. AHP: Order placed on BSBK Engineers Pvt. Ltd. on 05/02/13. U1 all mechanical, electrical and C&I work completed and for U2 erecting BAH & conveyor structure work are in progress. Ash pond lining work is in progress. PT Plant: Order placed on VA Tech WABAG on 21/01/13. All works completed and system is in operation. DM Plant: Order placed on VA Tech WABAG on 21/01/13. Mechanical & piping works completed. Electrical & C&I work are completed. One stream DM generated on 28/09/15. CWS: Order placed on M/s Jyoti Pumps Ltd on 07/11/12. CW pump house structural fabrication completed. Intake (dia 1.6m, 1.15 km) and outfall pipeline (dia 1.6m, 1.6 km) laying completed in offshore & onshore area. CW channel & fore bay completed & is in operation. CW pump 1 & 2 trail run completed and in operation, CW pumps 3 & 4 erection completed. NDCT: There were major fire incidents occurred at NDCT-1 on 20/04/16 and caused massive damage. Rectification work of NDCT-1 is completed with the materials of NDCT-2 and charged. NDCT-2 PV coating work under progress fills erection 9279/15,000 cum completed at site and erection is in progress. Internal hot water duct & internal columns are under progress FOS: LOA issued to United System & Project Limited on 11/06/13. LDO/HFO tanks erection completed. FOS complete in all respect from 31/01/16. FD&PS: LOA issued to Agnese Fire Protection Limited on 11/07/13. U-1 system is in operation & for U-2 work is in progress. Switchyard: LOA issued to M/s. ABB Ltd. on 12/02/ 2013 for supply and erection of 400 kV GIS. GIS back charging completed on 07/10/15 and charged with permanent line on 20/03/16.		
		2	660	05/15 06/15	06/15	12/16 12/16	12/16			
	Original Estd. Cost		: Rs 704600.00 Lakhs							
	Latest Est. Cost		: Rs 704600.00 Lakhs							
	Expenditure during 2011-12		: Rs. 126225.00 Lakhs							
	Expenditure during 2012-13		: Rs. 52599.00 Lakhs							
	Expenditure during 2013-14		: Rs. 138230.00 Lakhs							
	Expenditure during 2014-15		: Rs. 318102.00 Lakhs							
	Expenditure during 2015-16		: Rs. 177500.00 Lakhs							
	Expenditure During 2016-17		: Rs. 49700.00 Lakhs (up to 07/16)							
	Total Expenditure		: Rs 862300.00 Lakhs (up to 07/16)							
	Approval date:									
	Zero date:		: 10/02/2012							
	Financial closure		: Achieved on 04/06/2011							
	Main Plant Order		: 10/02/2012							
	BOP Package									
	Type of fuel		Coal							
	PPA		: NCC submitted bid for UP case-1 on 24/09/2012 for 200 MW power							
	Power Evacuation system		: LTOA approved and connectivity agreement signed with PGCIL							
			Land: 100% land is under physical possession. MOE&F: clearance issued on 18/05/2011(Amended clearance). SPCBC: clearance obtained on 16/06/2011. Civil Aviation: AAI issued NOC on 02/06/2011. Water: Permission obtained from GoAP for drawl of 325000 m³ per day (132.8 cusec) of sea water. Award of contract: BTG order placed on Harbin Boiler, Harbin Turbine and Harbin Electric Companies for boiler, turbine and generator respectively. Coal Linkage: LOA issued by CIL for Coal on 01/12/11 from MCL instead of SECL. FSA is to be finalized. (Imported coal 30%: Domestic coal 70%). BPTA: Agreement signed with PGCIL. Financial Details: REC - Rs. 2915 Crs PFC - Rs. 2848 Crs. ICICI - Rs. 1040 Crs. PTC - Rs. 199 Crs.							
Critical issues		Signing of PPA, Availability of evacuation line etc.								
Reasons for Delay										

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch Comm	COD	Syn. Comm	COD	
Private Sector								
	Pynampuram TPP (2x660 MW) District. Nellore, AP (M/s. Thermal Powertech Corporation Ltd.)	1 2	660 660	02/14 05/14 05/14 08/14	08/14 11/14	22/12/14 07/02/15 11/08/15 03/09/15	02/03/15 15/09/15	Unit-1 Boiler: Boiler erection started on 19/01/2012. HT (Drainable) conducted on 29/10/2013. Non-drainable HT completed on 20/04/2014. BLU completed on 25/09/2014. SBO started on 30/10/2014 & completed on 04/11/2014. TG: Condenser erection started on 10/05/2013. TG erection started on 10/06/2013. TG box-up completed on 11/08/2014. TG on barring gear from 18/10/2014. Unit synchronized on 22/12/2014. Unit achieved full load on 07/02/2015. COD declared w.e.f 02/03/2015. Unit-2 Boiler: Boiler erection started on 24/05/2012. HT Non-drainable hydro test completed in 09/07/14. Cold flushing completed on 19/06/2015. BLU done in 25/06/2015. SBO completed on 29/06/2015. Synchronized on 11/08/15. TG: Condenser erection started on 12/07/13. TG erection started on 01/11/13. TG boxed-up on 05/04/2015. TG oil flushing completed and put on barring gear from 11/06/2015. Unit synchronized on 11/08/2015 & Full load achieved on 03/09/15. COD declared w.e.f 15/09/2015. Chimney: Order placed on Haygrev Civil Engg. on 04/04/12. Flue can erection completed for Unit-1 & 2. CHP: External CHP~5 km commissioned. AHP: Order placed on Macawber Beekay Pvt. Ltd. on 19/06/12. WTP: ready DM Plant: ready CW'S: Orders placed for CW pipes and CW pumps on PSL and Kirloskar. Pits completed, fore bay channel and CW pipes laying completed. NDCT: Order placed on KBL on 21/12/11. CT-1 shell concreting and internal columns completed and CT-2 shell casting completed. Both the CT's commissioned. FPS: Order placed on Mather & Platt on 29/02/12. FOS: Order placed on Delta P.D. Pumps on 14/05/12. HFO tank 3 and all LDO tank shells erected. Switchyard: Order placed on M/s Areva on 25/10/11. GIS work complete in all respect.
Original Estd. Cost		Rs 686900.00 Lakh						
Latest Est. Cost		Rs 686900.00 Lakh						
Expenditure during 2009-10		Rs 2409.00 Lakh						
Expenditure during 2010-11		Rs. 45929.00 Lakh						
Expenditure during 2011-12		Rs. 50374.00 Lakh						
Expenditure during 2012-13		Rs 346848.00 Lakh						
Expenditure during 2013-14		Rs. 253988.00 Lakh						
Expenditure during 2014-15		Rs. 161247.00 Lakh						
Expenditure during 2015-16		Rs. 59908.00 Lakh						
Total Expenditure		Rs 9207.03 Crores (up to 08/15)						
Approval date:								
Zero date:		Unit-1 :15/02/2011 Unit-2 :15/05/2011						
Financial closure		Achieved on 13/09/2010						
Main Plant Order		: Order placed for BTG on 20/09/2010 on Dongfang Electric corporation, China. NTP issued on 15/02/2011. BTG Erection order : Placed on BGERS on 22/10/2010.						
BOP Package		: Order placed on 23/02/11 (NTP issue date)						
Type of fuel		: Coal						
PPA		: Long term PPA signed on 01/04/13 for 500 MW for 25 years with AP Discoms.						
Power Evacuation system		: LTOA and power transmission agreement signed with PGCIL on 24/12/2010 for the following: a) 400 kV Project to Nellore pooling station D/C line (Quad) – Charged on 30/08/2013 b) 765 kV Nellore – Kurnool c) 400 kV bays at Nellore pooling station						
		- Land: acquired 1408.70 Acres. - MOE&F: clearance issued on 04/11/2009. - Civil Aviation: AAI issued NOC on 21/12/2009. - SPCBC: clearance obtained on 15/05/2010. - Water: Allocation & permission for use of 14000 m³/hr. sea water issued on 15-06-2011 by Director of Port AP. - Coal Linkage: FSA signed with PT Bayan Resources Tbk on 23/02/2012 for 1 MTPA imported coal. FSA for 30% domestic coal signed with MCL on 22/06/13. - BPTA signed on 20/10/2010.						
Critical issues		PPA						
Reasons for Delay								

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch Comm	COD	Syn. Comm	COD		
Private Sector									
	Thamminapatnam TPP Ph-II (M/s Meenakshi Energy Pvt.Ltd.), Thamminapatnam Distt.: SPSR Nellore, AP	3	350	01/12 05/12 03/12 08/12	06/12 09/12	04/17 08/17 12/17 02/18	09/17 03/18	Unit-3: Boiler: erection started on 16/11/11. Drum lifted in 16/05/14. Hangers & Headers erection almost completed. Panel and coil erection in progress. Roof, LHS, RHS, Burner Panel erection completed. Rear nose panel erection in progress. Final SH and HTRH coils erection completed. Primary SH coil erection in progress. HT done on 31/10/15. BLU expected in 02/17. ESP: Ash hopper erection & mini ash hopper erection in progress in all passes. TG: TG deck casting completed. Condenser erection started in 15/03/15 & TG erection started in 04/07/15. Stator placed on foundation. LP & HIP rotor & upper casting alignment work is in progress. U-3 & 4: STG building EOT crane Tandem load test completed on 02/12/15. Individual overload test also completed for both the cranes. Unit-4: Boiler: erection started in 22/09/14. Drum lifted on 31/07/15. Pile capping in mill area is in progress. HT done in 15/09/16. BLU expected in 09/17. ESP: Pass A, B, C casing panel erection completed & collecting electrode frame erection is in progress. TG: TG deck casting completed in 04/15. Condenser erection started 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. Condenser module 1-4 erection completed. Chimney: Shell concreting completed (270 m) Floor beams, Flue cans fabrication completed & erection above compensator completed. 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 in progress. Fabrication & erection of TPs & conveyer galleries are in progress. AHP: Awarded to EDAC Engineering Ltd., Chennai on 18/06/10. BAH-1&2 civil work completed, fabrication work & structural work is in progress. 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 70,000 sq.m completed. IDCT: Awarded to EDAC Engineering Ltd., Chennai on 18/06/10. IDCT-1 FRP Structural erection completed, wall cladding sheet, E motor and gear box erection in progress. IDCT-2 hydraulic test completed. Sluice gate fixing in progress. FPS: ordering of main hydrant pumps completed. Pipe line supply in progress. PTP: Clariflocculator-1&2 civil works (58%) completed. 1400 NB GRP inlet pipe erection inside the tank completed for 31 m. 250 NB sludge pit pipe erection completed inside of the tank for approximately 30 m. 100NB GRP pipe laying works completed. DM Plant: DM storage tank civil foundation completed. Tank shell erection in progress and root erection almost completed. RO building equipment erection progress. CW System: Detailed Engineering work in progress. CW, ACW, RW Pumps and Motors arrived and new pump erection in progress. FO System: Shell erection of HFO-1 & 2 tank is completed. Hydraulic test for LDO 1 & 2 is completed. SW Yard: Control room RCC footings and columns up to plinth level completed.	
	Original Estd. Cost	:Rs 312000 lakh							
	Latest Est. Cost	:Rs 500500 lakh							
	Expenditure during 2008-09	:Rs -NIL-							
	Expenditure during 2009-10	:Rs 1157.00 Lakh							
	Expenditure during 2010-11	:Rs 42362.00 Lakh							
	Expenditure during 2011-12	:Rs 53379.46 Lakh							
	Expenditure during 2012-13	:Rs 21802.67 Lakh							
	Expenditure during 2013-14	:Rs 47833.82 Lakh							
	Expenditure during 2014-15	:Rs 81656.43 Lakh							
	Expenditure during 2015-16	:Rs. 98832.77 Lakh							
	Expenditure during 2016-17	:Rs. 53120.07 Lakh (up to 09/16)							
	Total Expenditure	: Rs 4952.98 Crores (up to 09/16)							
	Bank disbursement	: Rs 1000.00 Crores							
	Approval date:								
	Zero date:								
	Financial closure	: 01/10/2010 Loan agreement signed with REC, IBDI & other Banks, REC as lead lender							
	Main Plant Order	: 10/12/2009 Boiler –Cethar Vessels Ltd, Trichy, Tamil Nadu, India TG – China National Automotive International Corporation, China (Harbin)							
	BOP Package								
	Type of fuel								
	PPA	: PPA signed with M/s PTC on 25/02/2010 for 600 MW.							
	Power Evacuation system	: 400 KV MEPL – Manubolu (PGCIL) 27 km line is completed by M/s Sujana Towers Hyderabad and charged.							
	Land: 563.90 Acres of land acquired for entire 1000 MW. MOE&F: Clearance obtained on 03/06/2009 & 19/10/09. Further extended up to 18/10/19 on 25/10/13. SPCB: Clearance obtained in May, 2011 from APPCB. Civil Aviation: NOC obtained on 28/02/11from AAI for 281 m height of chimney. Water:100 Cusec/day sea water from Kandaleru Creek accorded by Principal Secy (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	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch Comm	COD	Syn. Comm	COD		
Private Sector									
	Bhavanapadu TPP Ph-I (M/s East Coast Energy Pvt. Ltd.) Distt.: Srikakulam	1	660	08/13	12/13	04/17	07/17	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 is 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	06/17	12/17		
	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		:Rs 3785. 60 Crores (till 01/16)						
	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 Coloney) Acres is acquired. • MoEF: 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

BROAD STATUS OF THERMAL POWER PROJECTS IN TELANGANA										
Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status		
				Original		Actual(A)/ As Expected				
				Synch Comm	COD	Syn. Comm	COD			
State Sector										
	Singareni TPP Distt. Adilabad, AP (M/s SCCL)	1	600	05/14 12/14	02/15	13/03/16 13/03/16	25/09/16	Unit-1 Boiler: erection started on 14/02/13. Drum lifted on 12/09/13. HT done on 12/09/14. BLU done on 04/07/15. SBO completed on 05/01/16. Chemical cleaning completed. ESP: Pass A, B, C, D vacuum system commissioned up to buffer hoppers and have been charged from flue gas side and electrically. De-ashing from buffer hoppers is being done with contingency arrangement. TG: Condenser erection started on 30/10/14. TG deck casting completed. & TG erection started in 27/10/14 and boxed up in 15/10/15. TG put on barring gear on 28/12/15. Unit synchronized & commissioned on 13/03/16. COD w.e.f 25/09/16. Unit-2 Boiler: Boiler erection started on 29/05/13. Drum lifted on 14/12/13. HT done on 26/10/14. BLU done on 06/08/15. SBO & Chemical cleaning completed on 26/03/16. ESP: Pass A, B ash intake valves erection is in progress. 6/8 vacuum pumps placed on foundation. However, sinking observed in foundations. Same needs to be rectified. TG: Condenser erection started on 14/08/14. TG Deck casting completed & TG erection started on 29/12/14 & boxed up in 03/11/15. Oil flushing completed and TG put on barring gear on 30/04/16. Unit synchronized on 01/06/2016. BoP's: - Chimney: Shell concreting completed. Flue cane erection completed and commissioned for both the units. CHP: Erection works of one stream of conveyor structure and paddle feeder under track hopper is completed. In Conveyors-1,2,3,4,14 structure and rollers erection completed, Belt laying is in progress. Pulley's Motors and Chute erection in Crusher house, TP-1, TP-2 is in progress. Stacker/Reclaimer civil and erection works are in progress. AHP: Civil works for BA hoppers, Fly ash silo's, HCSD silo's, AWP, ASPH are completed and TAC, Hydro bins works are in progress. Structural erections of BA hoppers, ASPH, AWP are completed. Hydro bins, Silo's mixing tanks works are in progress. Pumps and motors erection in ASPH and motors erection in ASPH, AWP, and HCSD PH is in progress. Ash Dyke work is in progress. Raw water Supply System There are two sources of raw water intake system. One is from Godavari river, 9 km from project site for 1 TMC. The intake point is at Shedpally in Godavari river and is completed in all respects including reservoir – 1. The second source is from Pranahita river for 2 TMC which is 43 km from site. The intake point is at Dewalwade village. In this source 23km pipeline laid and the rest is in progress including pump house and reservoir -2. PT Plant: Excavation & other civil works in DM PT system are completed. Civil works of clarifiers, other CW PT system are in final stage. DM Plant: All the three streams of DM water commissioned. CWS: All the 5 Nos CW pumps and 4 nos motor s erected and 2nos pumps have been commissioned. IDCT: IDCT 1A,1B commissioned and in 2A, 05/11 cells and in 2B 08/11 cells are completed up to fan stack slabs. Erection works are in progress. FOPH: Excavation, PCC, Raft works completed. Structural fabrication & erection works of LDO, HFO tanks completed. Fuel oil distribution system completed. Switchyard: Completed in all respects.		
		2	600	09/14 04/15	06/15	01/06/16 12/16	12/16			
	Original Estd. Cost		:Rs 5044.801 crores							
	Latest Est. Cost		: Rs. 7573.00 Crs.							
	Expenditure during 2008-09		:Rs 170 lakhs							
	Expenditure during 2009-10		:Rs 4212 lakhs							
	Expenditure during 2010-11		:Rs 1121 lakhs							
	Expenditure during 2011-12		:Rs 38993 lakhs							
	Expenditure during 2012-13		:Rs 76148 lakhs							
	Expenditure during 2013-14		:Rs 183804 lakhs							
	Expenditure during 2014-15		:Rs 230752 lakhs							
	Expenditure during 2015-16		:Rs 164203 lakhs							
	Expenditure during 2015-16		:Rs 90100 lakhs (up to 08/16)							
	Total Expenditure		:Rs 759300 lakhs (up to 08/16)							
	Approval date:									
	Zero date:		: 11/11/2011							
	Financial closure		: Achieved							
	Main Plant Order		: 11/11/2011							
	BOP Package		BTG order placed BHEL Order for BOP's placed on M/s Mc Nally Bharat SCCL Scope of works: Raw water reservoir works, Water supply scheme, Railway siding, Startup power and evacuation works.							
	Type of fuel									
	PPA		: Signed with APDISCOMS for sale of 1050 MW of power after meeting the self-requirement of 150 MW.							
	Power Evacuation system		: 400 KV Quad DC line from Project site to Gajwel 400 KV station (length: 162.46 KM). This work is awarded by APTRANSCO.							
		Land: 100% land is under physical possession. MOE&F: clearance issued on 27/12/2010. Civil Aviation: AAI issued NOC on 25/08/2008. Water: GOAP accorded permission for 2 TMC of water on 19/07/2010 from Pranahitha River. Coal linkage: Application for long-term coal linkage submitted to Ministry of Coal on 07/12/2013. BPTA: Zero date is 06/02/13								
Critical issues		Readiness of Railway siding, CHP, AHP-fly ash handling system, HCSD silo, Pump house, Cooling Tower etc.								
Reasons for Delay		Delay in award of BoP packages and subsequent delay in completion of this packages.								

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch Comm	COD	Syn. Comm	COD	
State Sector								
	Kakatiya ST- II TPP (APGENCO) Distt. Warangal	2	600	05/12 07/12	08/12	22/10/15 31/12/15	03/16	Boiler: Erection started on 05/05/11. Drum lifted on 07/04/12. HT conducted on 24/06/2013 & BLU done on 31/ 05/15. SBO completed on 30/08/15. ESP: ‘A’ and ‘B’ passes are ready for BLU activity. ‘C’ and ‘D’ pass Field alignment completed. TG: Condenser erection started in 02/13 and TG erection started in 05/13 & boxed up on 30/04/15. MDBFP. TDBFP completed. CEP completed. Synchronized on 22/10/15. Unit commissioned on 31/12/15. COD declared in 03/16. BoPs: Order placed on M/s.Techpro/VA Tech on 25/11/10. Chimney: Order placed on 25/11/12 to VA-Tech/Gammon Shell concreting (275 M) completed. External platforms and all 27 corbels completed. Painting is completed. CHP: Coal handling plant ready in all respect. AHP: Ash handling plant is completed in all respect. PTP: Chemical house and filter water reservoir PCC completed. Reservoir completed. WTP: Filter water pump house completed. Back wash sump and sludge pit RCC completed. Chemical building and clarifier water tank completed. CWS: Fore bay raft & channels completed. CW pipes erection & Pump house raft completed. CWPH: CWPH, pipeline & fore bay etc works and pipe laying works completed. NDCT: NDCT completed in all respect. FOS: HFO tank RCC and bottom PCC work completed. Switchyard: Foundations for SAT, UAT and ST completed.
Original Estd. Cost		: Rs. 296864 lakhs						
Latest Est. Cost		: Rs. 365251 lakhs						
Expenditure during 2003-09		: Rs. 11780 lakhs						
Expenditure during 2009-10		: Rs. 16840 lakhs						
Expenditure during 2010-11		: Rs. 26225 lakhs						
Expenditure during 2011-12		: Rs. 52937 lakh						
Expenditure during 2012-13		: Rs. 52034 lakhs						
Expenditure during 2013-14		: Rs. 63313 lakhs						
Expenditure during 2014-15		: Rs. 59255 lakhs						
Expenditure during 2015-16		: Rs. 40041 lakhs (up to 09/15)						
Total Expenditure		:Rs 310545 lakhs						
Zero date:		21/01/2009						
Financial closure		Tied up with REC on 23/02/09						
Main Plant Order		13/102008 (BTG on M/s BHEL)						
BOP Package		LOI issued on M/s Tecpro Systems Ltd, Chennai on 30/10/2010. Purchase order issued on 25/11/2010						
Type of fuel		Coal						
PPA								
Power Evacuation system								
- MOEF clearance obtained on 05/02/09 - REC has sanctioned a loan of Rs. 2170 Crores. - M/s Desein Pvt Ltd is Consultant for Engineering Services - Supply of material is under progress by M/s BHEL								
Critical issues								
Reasons for Delay		Delay in placement of order for BoP’. Delay in award of erection agency by BHEL. Delay in finalization of Raw water reservoir location. Delay in handing over of civil fronts by Techpro. Delay in BoP’s works and change of BoP contractor consortium Leader from Techpro to VA Tech.						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch Comm	COD	Syn. Comm	COD	
State Sector								
	Kothagudem TPS –VII (TSGENCO) Distt. Kammam		800	09/17 11/17	12/17	NA		Boiler: Civil work started on 12/06/15 and erection commenced on 24/01/2016, work is in progress. (9884 MT erected till 07/16) TG Deck: TG civil work started in 23/08/15. CHP: Civil work awarded to M/s. SNC on 12/02/16. 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 and crusher, vibrating feeder/peddle feeder yet to be awarded. Cooling Tower: Awarded to M/s. Paharpur cooling towers ltd. on 04/03/16 and work started on 12/07/16. Chimney: Awarded to M/s. BIL on 16/05/15 and 40% work completed.
Original Estd. Cost		: Rs. 554844lakhs						
Latest Est. Cost								
Expenditure during 2015-16		: Rs. 351.74 crores. (Up to 01/16)						
Total Expenditure								
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								
		- 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	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch Comm	COD	Syn. Comm	COD		
State Sector									
	Bhadradri 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 21/03/2015. Soil/ Geotechnical investigations are in progress. Boiler erection yet to be started. *Work held up due to order from Green Tribunal.	
		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									

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.	Yermarus TPP (2X800 MW) Distt. Raichur (M/s KPCL)	1	800	01/14 04/14	2014	09.02.16 29.03.16	11/16	- Boiler: erection started on 29-10-12. HT conducted on 10-09-14. BLU completed on 10-08-15. SBO completed on 14-01-16. Flue gas ducting from BOF to ESP completed with insulation and cladding. - ESP: Mechanical erection is completed. Erection of insulation and cladding completed. Hot gas ducting is completed along with insulation and cladding. Control room construction completed. - TG: TG erection started on 14.01.14. Oil flushing completed in 04.09.15. Final box up completed on 20-11-15. Unit synchronized on 09-02-2016. Full load achieved on 29.03.2016. - Boiler: Erection started on 03-12-12. HT conducted on 30-12-14 /23-02-16. BLU on 25-02-16. Erection of mills, PA, FD & ID fan completed. SBO completed on 03.06.2016. - ESP: Ready for use. - TG: TG erection started on 31.05.2014. TG oil flushing completed on 12.02.16 and final box up done on 25.06.16. Erection of all TG auxiliaries completed. Turbine shaft put on BG on 31.03.16. units synchronized on 21.07.16. Full load expected in 12/16. BoPs: - Chimney: Order placed on M/s Gannon Dunkerly & Co. Ltd on 26-04-12. Shell concreting completed. Chimney is ready for both units. - IDCT: Order placed on L&T on 15-05-13. CTs are ready for both units. Hot water riser pipes erected for both units. Fans and motors erected and testing completed. CTs are ready for both units. - CHP: Order placed on M/s BHEL on 21-03-12. Structural erection of junction towers and trestles is in progress before stacker cum recalimer area. CHP is ready for supplying coal from ERH1 to U-1. Links and Bunker galleries for U-2 are under progress. - AHP: Order placed on M/s BHEL on 21-03-12. BAH erected for U1 along with wet ash system. Civil works completed in ASPH. Erection of ASP for U-1is completed and that for U-2 is in progress. - RWPH: Jack well construction is completed. RW pumps erected. Pipe line from RWPH to project completed. Supply of water started. - CWPH: Fore bay, CW channel, CW pipe lines completed. CWPH building completed and pumps erected. CW system for both units is ready and is operational. - RO/DM: All system is ready and DM water is being produced. - FOPH: Erection of LDO & HFO tanks, pumps and MCC room completed. - FPS: Fire water pump house and MCC room completed. Fire hydrant line laying works in progress in some areas of U-2. - SWYRD: Structural and equipment erection completed. Testing and commissioning is completed. It is ready and operational for U-I.		
		2	800	07/14 10/15	2014	21.07.16 12/16	01/17			
	Original Estd. Cost		:Rs 9015.00 Crs							
	Latest Est. Cost		: Rs. 12770.00 Crs							
	Expenditure during 2009-10		:Rs 885 lakhs							
	Expenditure during 2010-11		:Rs 42080 lakhs							
	Expenditure during 2011-12		:Rs 14706 lakhs							
	Expenditure during 2012-13		:Rs 117100 lakhs							
	Expenditure during 2013-14		:Rs 463262 lakhs							
	Expenditure during 2014-15		:Rs 262839 lakhs							
	Expenditure during 2015-16		:Rs 179130 lakhs							
	Expenditure during 2016-17		:Rs 69225.00 lakhs (up to 09/16)							
	Total Expenditure		:Rs 11492.03 Cr							
	Approval date:		03.01.2009							
	Zero date:		09.04.2010							
	Financial closure		Achieved on 09.11.2011							
	Main Plant Order		09.04.2010							
	BOP Package		BTG order placed on BHEL Boiler-Alstom/BHEL, TG-Siemens/BHEL Civil works awarded to M/s Prasad & Co. and M/s Coastal Project Ltd. For U-I and U-II respectively.							
	Type of fuel		Coal							
PPA		: Discussions initiated with ESCOMS of Karnataka on 18-12-2010.								
Power Evacuation system										
		- Land: About 826 acres of land is already in possession. Acquisition of 320 acres of land for Rly siding etc is under process. - MOE&F: clearances obtained on 17-09-09 - SPCBC: Consent of Board issued on 26-05-10. - Coal Linkage: MOC has allocated Deocha Pachami Coal Blocks in WB for KPCL on 06-09-2013. - Civil Aviation: Obtained on 23-02-09. - Water: 3.6 TMC of water allotted by Gok from Krishna River for Yermarus (2x800 MW) and Edlapur (1x800 MW) projects								
Critical issues		1.Completion of CHP and AHP for U-2.								
Reasons for Delay		1.Slow progress of civil works due to rocky land 2. Change in foundation drawing of main plant. 3.Acquisition of land for raw water pipe line from Krishna river to power project. 4. All civil works stopped from 31.05.16 to 19.07.16 due to labor strike & further no activity due to shortage of manpower. No concreting activity since 25.06.16								

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch Comm	COD	Syn. Comm	COD	
State Sector								
2.	Yelahanka Combined Cycle Power plant.	1	370 GT ST	10/17 03/18		10/17 03/18		- HRSG: HRSG foundation work is under progress. Foundation works of STG building is in progress. Supplies: Structural steel: 1680 MT Reinforcement steel: 2177 MT HRSG components: 731 MT - Electrical work: Construction power supply work has been completed & the system is commissioned. - BoPs: Chimney: Foundation work of chimney is in progress. Pre-assembly work of chimney shells in progress. CT: Engineering and site enabling work is in progress. CW system: Engineering and site enabling work is in progress. DM Plant: Engineering and site enabling work is in progress. Switch Yard: Engineering and site enabling work is in progress. Civil Work: BHEL store yard, fabrication yard, closed store, office building etc. site clearing/tree cutting and erection work is in progress.
Original Estd. Cost		:Rs 1571.18 Crs						
Latest Est. Cost		: Rs. 1571.18 Crs						
Expenditure during 2016-17		:Rs 129.95 Cr						
Total Expenditure		:Rs 129.95 Cr (up to 09/16)						
Approval date:								
Zero date:		: 09.11.2015						
Financial closure		:						
Main Plant Order		: M/s BHEL						
HRSG Civil Work		M/s BHEL						
Type of fuel		Gas						
PPA		: PPA agreement is under review.						
Power Evacuation system		KPTCL 220KV 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								

BROAD STATUS OF THERMAL POWER PROJECTS IN TAMIL NADU

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch Comm	COD	Syn. Comm	COD	
State Sector								
	Ennore SEZ SCTPP TANGEDCO (Distt. Thiruvallur)	1	660	01/18	03/18	09/18		• Boiler (M/s BHEL): Design & Engineering work, site leveling and site office work are in progress.
		2	660	01/18	05/18	09/18		
				03/18		02/19		
				03/18		03/19		
	Original Estd. Cost	:: Rs. 980000 Lakh						
	Latest Est. Cost							
	Expenditure during 2014-15							
	Expenditure during 2015-16							
	Total Expenditure							
	Approval date:	: 12/12/2005						
	Zero date:							
	Financial closure							
	Main Plant Order	: Order placed on M/s. BHEL(EPC) on 27/09/14.						
	BOP Package							
	Type of fuel	: COAL(Mahanadi coal fields)						
	PPA							
	Power Evacuation system							
	• Letter of Acceptance for Main Plant Order (EPC) issued to M/s BHEL on 27/09/14.							
Critical issues								
Reasons for Delay								

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch Comm	COD	<u>Syn.</u> Comm	COD		
State Sector									
	Uppur SCTPP TANGEDCO (Distt. Ramnad), T.N.	1	800	NA	NA	NA	NA	● BTG & allied civil work related to BTG as one EPC package, order placed on BHEL on 27.02.16. Award for BOP packages and sea water intake & out fall system as separate packages are under process. Tenders for both the packages called and bid opening expected by 11/16.	
		2	800						
	Original Estd. Cost		Rs. 5580 Crs. (BTG cost)						
	Latest Est. Cost		NA						
	Expenditure during 2016-17		NA						
	Total Expenditure								
	Approval date:								
	Zero date:								
	Financial closure								
	Main Plant Order		: Order placed on M/s. BHEL(BTG) on 27/02/16.						
	BOP Package		Under process						
	Type of fuel		: COAL						
	PPA								
	Power Evacuation system								
	●								
Critical issues									
Reasons for Delay									

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch Comm	COD	Syn. Comm	COD	
State Sector								
	North Chennai TPP St-III by TANGEDCO (Distt. Thiruvallur)	1	800	10/17 01/18	01/18	08/18 09/18	-	•Geological investigation, Topographical survey, tree cutting and jungle clearing are in progress.
	Original Estd. Cost	: Rs. 637600 Lakh						
	Latest Est. Cost							
	Expenditure during 2014-15 Expd. during 2015-16 (up to 03/ 2016)	: Rs. 1.00 Crs.						
	Total Expenditure	: Rs. 1.00 Crs						
	Approval date:							
	Zero date:	: 29/01/2016						
	Financial closure							
	Main Plant Order	: 29/01/16 (EPC) on M/s. BHEL.						
	BOP Package							
	Type of fuel	: 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 TANTRANSCO scope.						
	- Letter of Acceptance for Main Plant Order (EPC) issued to M/s BHEL on 29/01/16 - 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	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch Comm	COD	Syn. Comm	COD	
State Sector								
	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. TG & Condenser: Civil work commenced on 18/06/15. • Chimney: Awarded to LITL, Gurgooan Chimney raft casting commenced on 22/07/2015 and all 8 nos. completed. Shell casting completed on 3/2/16 & shell concreting work started on 29/02/16, reached a height of 21.3 m. • 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. LITL remitted the Lease rent & refundable caution deposit to PWD on 26/11/15. The CE / PWD recommended the proposal for the waiver of track rent to Government on 18/11/2015 and orders from GoTN is pending. • PT/DM plant: Awarded to M/s Tech Universal U.K and M/s Pennor Enviro Ltd – Hyderabad on 27/10/15. Piling work under progress. • 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		: Rs. 5421.38 Lakh (03/2016)						
Expenditure during 2014-15		: Rs - 23970 Lakh						
Expd. during 2015-16 (up to 03/ 2016)		: Rs - 21401 Lakh						
Total Expenditure (up to 03/2016)		: Rs- 45371 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 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. LANCO in turn placed order on Dong Fang Electric Corp., 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	Capacity (MW)	Commissioning Schedule				Broad Status	
				Original		Actual(A)/ As Expected			
				Synch Comm	COD	Syn. Comm	COD		
Private Sector									
	Mutiarra TPP (Coastal Energen) (Distt. Tuticorin) T.N.	1	600	12/11 02/12	02/12	9/14(A) 12/14(A)	23/12/14	Unit-I Boiler: Erection started in 12/10 and drum lifted on 07/07/11. HT conducted on 02/06/12 & 08/05/13. BLU conducted on 25/03/14. SBO completed in 07/14 ESP: Erection & testing completed and commissioned. TG: Condenser erection started in 08/11 and TG erection started in 10/11. TG boxed-up on 15/06/14. Unit synchronized on 07/09/14. Full load achieved on 02/12/14. COD declared on 23/12/14. Unit-II Boiler: Erection started in 01/11 & drum lifted on 10/10/11. Erection of pressure parts, PA/FA/ID fans and bunkers completed. HT done on 15/07/13. BLU done in 08/15, SBO: completed in 11/15 ESP: erection of ESP completed. Cladding and sheeting is completed. Testing done. TG: Condenser erection started in 11/11 and TG erection started in 12/11. Generator stator lifted and positioned. Boxed up in 10/15. Oil flushing completed in 12/15. Unit synchronized on 26/12/15 (180MW) and commissioned on 02/01/2016. COD declared on 15/01/16. Chimney: Work awarded to M/s Gammon India on 12/11/09. Shell and Flue-cans erected. Bitumen coat works completed. Chimney completed in all respect. CHP: Order placed on M/s TKIIL on 18/03/10. All works completed for unit-1 and unit-2. AHP: Order placed on 09/09/10. All fly ash silos completed. Ash bund is ready. RWPH: RW PH completed and pumps & motors erected. PT Plant: Clariflocculator civil work completed. Equipment erected DM Plant: RO/ DM plant is completed and is in use. CW system: Order placed on 11/10/10. CW system is ready and is in operation for U-1& U-2. IDCTs: Both the cooling towers are ready. FO system: System is ready and is in operation for U-1&U-2. Fire Protection: Pipe erection completed. Erection of Hydrant system, Sprinkler system for transformer yard etc. have been completed. Switchyard: Switchyard is ready in all respect for use.	
		2	600	02/12 03/12	03/12	26/12/15 02/01/16	15/01/16		
	Original Estd. Cost		: Rs. 480000 Lakh / 515800 Lakh						
	Latest Est. Cost		: Rs. 787000 Lakh						
	Expenditure during 2007-08		: Rs. 957 Lakh						
	Expenditure during 2008-09		: Rs. 16689 Lakh						
	Expenditure during 2009-10		: Rs. 50886 Lakh						
	Expenditure during 2010-11		: Rs. 118638 Lakh						
	Expenditure during 2011-12		: Rs. 145130 Lakh						
	Expenditure during 2012-13		: Rs. 147469 Lakh						
	Expenditure during 2013-14		: Rs. 39422 Lakh						
	Expenditure during 2014-15		: Rs. 83000 Lakh						
	Expenditure during 2015-16		: Rs. 59109 Lakh (Up to 10/15)						
	Total Expenditure		: Rs. 7013.00 Crores (Up to 10/15)						
	Approval date:		: 10/09/2007						
	Zero date:		: 06/08/2009						
	Financial closure		: Achieved on 02/07/2009 with SBI as the lead bank						
	Main Plant Order		25/02/2009 (BTG) on M/s Harbin Power Engg. Co. Ltd. China.						
	BOP Package								
	Type of fuel		Coal						
	PPA		: PPA signed for 700 MW power with Tata Power Trading Company Ltd on 28/11/08. PPA signed with TANGEDCO for 558 MW on 14/11/13. BPTA signed on 24/02/10						
	Power Evacuation system		: LILO of 1 Ckt of 400 KV Madurai, -Tutucorin (JV) D/C line at Energen's Power Plant to draw start-up Power and Evacuate Power until the complete Transmission system is established.						
		Land: Entire land of 875 Acres is in possession for the project. MOEF clearance obtained on 05/05/2009. - Civil Aviation clearance obtained on 16/05/08 SPCB clearance obtained on 03/03/2009 BPTA signed with PGCIL on 24/02/2010. CRZ clearance obtained on 10/08/09. FUEL LINKAGE The Company has entered into Fuel Supply Agreement (FSA) with M/s Coal & Oil, Dubai for Supply of Entire Coal requirement for the Project, on 26/06/2008. Domestic Coal Linkage has also been sought from the Ministry of Coal, GOI.							
Reasons for Delay		1.	Unseasonal heavy rainfall affected the progress. Reduction in work force in April/May 2011						
		2.	due to elections in the State						
		3.	Civil work affected due to non-availability of sand for concreting as policy was regulated						
		4.	Availability of construction water effected due to ban on ground water extraction in the						
		5.	project locality						
			Supply of BTG equipment was delayed by M/s Harbin Power Engineering Company, China						
			Disbursement of additional term loan due to problems in power sector						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch Comm	COD	Syn. Comm	COD	
Private Sector								
	IL&FS TPP at Cuddalore Distt., in Tamil Nadu	1	600	03/14	05/14	01/09/15	29/09/15	• Boiler-1 (M/s SEPCO-III) Erection commenced on 28/12/12. Boiler drum lifted on 22/07/13. HT done on 17/10/14 & BLU done on 01/08/15. SBO completed on 05/08/15. • TG & Condenser-1: Condenser erection started on 05/08/13 and TG erection started on 01/03/14. TG boxed up on 28/15 & Oil Flushing completed on 07/07/15. • Unit was synchronized on 01/09/15 and achieved full load on 19/09/15. COD declared w.e.f. 29/09/15. • Boiler-2 (M/s SEPCO-III) Erection commenced on 01/02/2013. Boiler drum lifted on 19/08/2013. HT done on 26/09/2015 & BLU done on 29/02/16. SBO completed in 03/16. • TG & Condenser: Condenser erection started on 05/10/13 and TG erection started on 06/06/15. TG boxed up on 20/12/15. Synchronized on 13/04/16 & achieved full load on 18/04/16. COD declared from 30/04/2016. • Chimney: Awarded to L&T and work completed in all respect. • FGD plant erection is in progress. • CHP: Awarded to L&T and work completed in all respect. • AHS- Awarded to L&T and work completed in all respect. • PT/DM plant /CW System & Cooling Towers: Awarded to L&T / Simplex. PT / DM Plant common for U-1 & 2 and are complete in all respects. CW / CT work completed. • FO System: Awarded to L&T and work completed in all respect. • Switchyard: Awarded to L&T and work completed in all respect.
	Original Estd. Cost	2	600	03/14 07/14	09/14	19/09/15 13/04/16	30/04/16	
	: Rs.1060000 Lakh (Inclusive of cost of captive mine at Indonesia, FGD plant as per MoE&F stipulation Land cost of phase-I & II, common coal stock yard facilities dedicated port & dedicated transmission line (47km))							
	Latest Est. Cost							
	Expenditure during 2010-11	: Rs. 32543 Lakh						
	Expenditure during 2011-12	: Rs.110074 Lakh						
	Expenditure during 2012-13	: Rs. 93706 Lakh						
	Expenditure during 2013-14	: Rs.260816 Lakh						
	Expenditure during 2014-15	: Rs.272014 Lakh						
	Expenditure during 2015-16	: Rs.103596 Lakh (up to 09/ 2015)						
	Total Expenditure	: Rs.872749 Lakh (up to 09/2015)						
	Approval date:							
	Zero date:	: 15/02/11.						
	Financial closure							
	Main Plant Order	: 22/10/2010 (EPC) on M/s SEPCO-III, China						
	BOP Package							
	Type of fuel	: COAL Long term FSA for imported coal from Indonesia.						
PPA								
Power Evacuation system								
• Letter of Acceptance for Main Plant Order (EPC) issued to M/s Shandong Tiejun Electric Power Engg. Co. Ltd. (SEPCO-III) on 22/12/10. • CPCB & MOE&F Clearances obtained. • Civil Aviation: clearance obtained for 275 meters’ chimney height.								
Critical issues								
Reasons for Delay		Work held up at site due to suspension of MoE&F clearance obtained on 31/05/10. Revised MoE&F clearance received on 14/08/12 and work restarted						

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch Comm	COD	Syn. Comm	COD	
Private Sector								
	TuticorinTPP St-IV/ M/s SEPC Power Pvt.Ltd. (Distt. Tuticorin), TN	1	525	07/18 09/18	10/18	NA		• 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. • AHP-Awarded to M/s Macwalber Beckay and engineering activities started.
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 39390 Lakh						
Expenditure during 2016-17		Rs. 101 Lakh (up to 06/ 2016)						
Total Expenditure		Rs . 48235 Lakh (up to 06/ 2016)						
Approval date:								
Zero date:		30/10/2015						
Financial closure								
Main Plant Order		18/01/2014 (EPC) on M/s MEIL & in turn BHEL for BTG.						
BOP Package								
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 upto18/12/16.						
Critical issues		Inter-connection & Transmission facilities are by TANGEDCO which is yet to be awarded.						
Reasons for Delay								

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status
				Original		Actual(A)/ As Expected		
				Synch Comm	COD	Syn. Comm	COD	
Private Sector								
	Tuticorin TPP (Ind. Barath Power Limited) Tamil Nadu	1	660	<u>03/12</u> 05/12	05/12	06/17 10/17	12/17	Unit-I • Boiler: All civil foundation completed. Structural fabrication started. HT expected in 10/16. BLU expected in 02/17 SBO expected in 07/17. • ESP: All civil foundation work completed. Structural fabrication started. Erection started. • TG: All civil foundation completed. Condenser erection to start in 08/16. TG erection works yet to start. Oil flushing is expected in 02/17. Box up expected in 02/17. • 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 (Up to 05/2015)						
Total Expenditure		: 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.						
BOP Package								
Type of fuel		: COAL						
PPA		: Participating in the Bids						
Power Evacuation system		: BPTA signed with PGCIL on 24/02/2010. LTOA signed with PGCIL on 12/06/2013.						
• Land: Total land of 880 acre acquired • Water: Agreement between IBPML and South Ganga was signed on 03/04/10. • MOEF: clearance obtained on 12/07/2010. • SPCB: Consent obtained on 17/10/2013. • Civil Aviation: clearance obtained on 24/08/10 • PPA: To be executed through case –I bidding. • BPTA: signed with PGCIL on 24/02/2010								
Critical issues								
Reasons for Delay								

Eastern Region

BROAD STATUS OF THERMAL POWER PROJECTS IN BIHAR

Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status		
				Original		Actual(A)/ As Expected				
				Synch Comm	COD	Syn. Comm	COD			
State Sector										
1.	Barauni Extn TPS P.O.: Barauni, Dist: Begusarai Bihar -742237 (BSPGCL)	8	250	02/14 05/14		03/17 03/17	05/17	Unit-8 Boiler: Boiler erection started on 10.12.12. Drum lifted on 05/06/13. 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 in 11/16. 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 15/06/14 and 20/07/14 respectively. TG Boxed up on 31/12/15. TG oil flushing in progress. Erection of condenser, BFP, CEP, Heaters and deaerator completed. MS Piping work under progress. Unit-9 Boiler: Erection started on 21.01.13, Drum lifted on 15.09.13. HT done on 21.09.14. Erection of pressure parts, APH, ID/FD/PA fans, Coal piping completed. Erection of mills under progress. Insulation and cladding of boiler and flue gas ducts is under progress. ESP: Mechanical erection completed. Other works are in progress. TG: Condenser & TG erection started on 12/08/14 and 07/08/14 respectively. TG Boxed up on 30/06/16. 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 is in progress for IDCT of both the units. CW System: EOT crane erected. Erection of equipments yet to be done. CHP: Wagon Tippler raft is completed. Heavy water percolation is observed in WT pit. Piling of crusher house completed and structural erection is under progress. Erection of rail track for SCR is completed. Structural erection of TP2 is completed and TP3 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. DM tank erection completed. Erection of vessels has started. 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. 220kVswitchyard charged on 01.03.16. Gravel spreading and fencing to be done.		
		9	250	04/14 07/14		09/17 12/17	12/17			
	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 12498.00 lakhs							
	Expenditure during 2011-12		Rs 25953.00 lakhs							
	Expenditure during 2012-13		Rs 68055.00 lakhs							
	Expenditure during 2013-14		Rs 152967.00 lakhs							
	Expenditure during 2014-15		Rs 78391.00 lakhs							
	Expenditure during 2015-16		Rs 79945.00 lakhs							
	Expenditure during 2016-17		Rs 23567.00 lakhs (up to 09/16)							
	Total Expenditure		Rs 4414.01 Cr							
	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. 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								
Critical issues		1. Construction of Ash dyke, Railway siding, Readiness of CHP, Intake Water System, DM & PT Plant								
Reasons for Delay		- Acquisition of land for laying water pipeline from river Ganga to power plant and Ash Dyke area - Drainage facility for seepage water from Wagon Tippler area - 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 JHAKHAND

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	<u>03/12</u> 04/12	05/12	Uncertain	Phase-I Unit-1: Boiler: Erection started on 05/10/10. Boiler drum lifted on 31/03/11. HT done on 28/12/11. Erection of 3/6 bunker completed. ESP: ESP is ready TG: condenser erection started on 25/05/11, Turbine erection started 15/6/11. TG boxed up in 10/12. Unit-2: Boiler: Erection started on 19/12/10. Boiler drum lifted on 19/07/11. HT completed on 10/12. ESP: ESP is ready TG: condenser erection started on 24/08/11, Tube insertion is under progress Turbine erection started 13/10/11. HPT & IPT placed on the deck. Phase-II Unit-3: Boiler: Erection started on 06/11. Boiler drum lifted on 12/11 ESP TG: TG erection started in 10/12. Unit-4: Boiler: Erection started on 07/11. Boiler drum lifted on 04/12 ESP: TG: TG deck is ready. BoPs: Chimney: Completed in all respect CHP- 98% structure erection completed AHP- FA silo completed. Erection of Bottom Ash Hopper completed. - Station transformer & Unit Transformers and associated systems is in ready. Generator Transformer is placed on foundation. ATS balance work is to be taken up after stage – II Forests clearance is obtained. - PT plant, DM plant, CW system, Fire protection system Fuel oil system & Switch yard completed.		
		2	270	<u>04/12</u> 05/12	06/12	Uncertain			
		3	270	<u>09/12</u> 10/12	10/12	Uncertain			
		4	270	<u>12/12</u> 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 to 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									
1.	Tori TPP Essar Power (Jharkhand) Ltd. Distt. Angarha Latehar Jharkhand	Ph-I 1	600	05/12 07/12	07/12	Uncertain		Phase-I Unit-1: Boiler: Boiler erection started in 04/12. ESP: Foundation work completed. TG Civil work started in 15.12.11; hall foundation completed. TG building structural fabrication completed. Unit-2 Boiler: Erection started in 15/12/13 ESP: Foundation work completed. TG: TG civil work started on 15/12/13. Phase-II Unit-3 –Work not yet started. BoPs: Chimney: Order placed on M/s Essar Projects India Ltd.. Windshield work completed. Flue can fabrication 60% completed. CHP: Order placed on M/s Elecon engg & McNally Bharat Engg.Co AHP: Basic engineering completed. CT: Order placed on M/s SPIG Cooling Tower India Pvt. Ltd. PT & DM Plant: 40% material received. FPS: Order placed on M/s Brijbasi Hi-tech Udyog Ltd on 15.11.10. Switchyard: Order placed on M/s Alstom T&D on 22/12/10 Presently no work is in progress due to financial constraints	
Original Estd. Cost		: Rs.570000 Lakh		Rs. 250000 Lakh					
Latest Est. Cost		:							
Expenditure during 2009-10		Phase-I		Phase-II					
Expenditure during 2010-11		: Rs. 10641 Lakh		Rs. Nil					
Expenditure during 2011-12		: Rs. 42437 Lakh		Rs. 2825 Lakh					
Expenditure during 2012-13		: Rs.162489 Lakh		Rs. 13845 Lakh					
Expenditure during 2013-14		: Rs. 32446 Lakh		Rs. 3172 Lakh					
Expenditure during 2014-15		: Rs. 96502 Lakh		Rs. 4760 Lakh					
Expenditure during 2015-16		: Rs. 43838 Lakh		Rs. 63 Lakh					
Total Expenditure		Ph-I: Rs.3883.53 Cr. (till 6/15) with ICICI 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 1&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 of 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

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)	1	660	08/17		09/17	10/17	Unit-3: Boiler: Erection started on 20.1.2015. Boiler structural erection completed (9250 MT).1720 Nos. of Pressure parts joints completed. Foundation for Bunker structure, ID fan and Mills completed and erection in progress. HT expected in 04/17. ESP:.3745 MT Structural erection completed. All pass erection in progress. Civil work for ESP control room is underway for unit-3. TG: Deck casting completed. TG erection started on 30.07.2016 Pedestal chipping work in progress. Condenser erection started on 30.03.16. EOT and TDBFP erection are in progress. Unit-4: Boiler: erection started on 29.05.2015. Boiler structural erection completed (9307 MT). 552 Nos. of Pressure welding joints completed. HT expected in 05/17. ESP: ESP foundation work completed. Structural erection completed 3118 MT (Pass A, B& C in progress). TG: Deck casting completed. PHB structural erection (3230 MT) in progress. Condenser and TG erection yet to start. BoPs: Chimney: Shell concreting completed up to 269m, Fabrication of flue cans in progress. CHP: Foundation of JTs, Crusher house completed and that of ERH, stacker reclaimers, Tresles & Track hopper is in progress. Structural erection of Crusher house, TPs and Galleries are in progress. Track laying in progress in stacker recalimer area. AHP: Civil works of surge hoppers, Silos, Ash water & slurry PH, Ash route pipe civil work are 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. CW System: CW pipe laying in progress. CWP, fore-bay & channel civil works in progress. Fire Protection System: Pump house: Civil work completed, pumps erection done, piping work in progress. One fire water storage tank completed and 2nd tank erection in progress. Fire hydrant 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 civil work is in progress. Fills erection started. IDCT 4: RCC columns, beams up to deck level and deck slab in progress. Switchyard: All major civil work and erection of gantry completed.			
		2	660	12/17		12/17	02/18				
	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 65972 lakhs (up to 08/16)								
	Total Expenditure		:Rs 3002.08 Cr								
	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		---								
	Reasons for Delay		---								

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 12/16 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. Oil flushing completed, TG on barring gear expected in 12/16. 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 11/16 and F/A system completion expected in 12/16. 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 being used for evacuation of power from U-I.		
		2	350	10/11 12/11	12/11	03/17 03/17	04/17			
	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 1900 lakhs (up to 09/16)							
	Total Expenditure		:Rs 4249.00 Cr							
	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							
	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.								

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	11/17 02/18	03//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 started. All mills foundations completed. ESP: 51% 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 erected.TG erection started in 11/15. HPT, IPT & LPT are not received at site. 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: Column upto deck bottom completed, MDBFP#2 foundation completed. CEP & CW Pit #2 raft completed and wall reinforcement in progress. BoPs: • Chimney: 252/270m shell construction completed. Preparation for balance chimney shell construction in progress. Flue can fabrication is in progress. • CT (IDCT): FRP Cooling tower awarded to Paharpur. IDCT#1 civil work completed upto ground level. 303/454 raft footing work completed. Excavation upto 45% completed for IDCT#2 and raft footing work is in progress. • CHP: Track hopper raft completed, both side walls completed. 100% RCC for raft completed. Crusher house civil work completed. Stacker reclaiming raft completed Column and beams casting work are in progress. JTs foundation work completed. • AHP: Raft footing completed and All 1 st lift completed for ash water pump house. Ash silo raft#1 completed. • PT/DM plant: Foundation work completed. DM building structure erection completed. Equipment erection in progress. Clarifloculator ring wall in progress.DM tank 1&2 foundation completed. DM Tank-1 erection completed. • FO system: 2LDO + 2HFO fuel oil tanks erection completed. LDO-2 water fill and vacuum test completed. • Switch yard: Structure erection in switchyard is in progress. Control room foundation completed and columns/wall raising is in progress. Work almost held up due to financial constraint presently	
		2	660	06/13 08/13	09/13	05/18 08/18	09/18		
	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	28100 lakhs (up to 07/16)					
	Total Expenditure		:Rs	7005.00 Cr					
	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.							
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							

BROAD STATUS OF THERMAL POWER PROJECTS IN WEST BENGAL

BROAD STATUS OF THERMAL POWER PROJECTS IN WEST BENGAL										
Sl. No.	Project Details	Unit	Capacity (MW)	Commissioning Schedule				Broad Status		
				Original		Actual(A)/ As Expected				
				Synch Comm	COD	Syn. Comm	COD			
State Sector										
1.	Sagardighi TPP Ext. At & Post - Manigram, PS: Sagardighi, Murshidabad,(WB) Distt- Pin-742237 (WBPDCCL)	3	500	03/14 09/14	11/14	31.03.15 14.12.15	07/16	U-3 Boiler: erection started on 16.03.12. BLU done on 30.01.15. SBO completed on 11.03.15. ESP: ESP is completed. TG: Erection started on 15.07.13 and boxed up in 07/14. Oil flushing completed on 03.03.15. TG put on barring gear on 16.03.15. Unit synchronised on 31.03.15 and re-synchronised on 7.11.15. Full load achieved on 14.12.15 and COD declared on 01.07.2016 U-4 Boiler: Erection started on 16.03.12. HT done on 21.03.14. HT (ND) done on 30.01.2016. BLU done on 19.02.16. SBO completed on 30.06.16. Oil synchronization done on 15.10.16. Full load expected in 12/16. ESP: One stream is completed in all respect. Insulation and cladding for 2nd stream is in progress. TG: Condensor and TG Erection started on 27.08.13 and 10-10-13. TG boxed up and oil flushing completed on 10.08.16. TG is put on baring gear. BoPs: Chimney: Awarded to M/s Gammon India on 12-04-12. Completed in all respect. NDCT: Order placed on M/s Paharpur Cooling Tower on 24-08-12. Both CT completed in all respect. CW System: Erection of all 4 CW pumps of unit#4 completed and commissioning of 3/4 pump is completed. ACW system completed CHP: Order placed on M/s McNally Bharat on 12-04-12. One stream of Track Hopper is operational. Work of second stream from wagon tippler is in progress. Stack Reclaimer erection is in progress. Tripper erection on RHS and LHS of boiler is completed. C&I work is under progress. AHP: Order placed on M/s Indure Pvt Ltd on 28-11-14 after terminating contract of M/s Techpro Systems Ltd.. U#4 BAH mechanical erection & refractory casting completed. Compressor house brick work in progress. Compressor erection is in progress. AWP civil work and HP pump and motor erection completed and LP pump erection completed. ASPH civil works is in progress and foundation of 2/4 slurry pump is ready. Contingent wet ash system is expected to be ready by 11/16. Water System: Intake Water System: MCC building slab casting completed. Equipment erection is in progress. Raw Water System: MCC building completed. Erection of all 4 pumps and electrical panel are completed. Panel commissioning is in progress PT Plant: chemical house building completed. 2 nos clarifloculator bridge erection completed. Equipment erection has commenced. DM Plant: DM storage tank erection completed, DM building completed. DM water equipment erection is in progress. FOS: FOPH civil work completed. 2nos LDO pump and 3nos HFO pumps commissioned. Ready for use. FPS: Hydrant pumps and fire pumps for U#3 are ready. Erection & commissioning of all pumps of U#4 completed. PLCC panel not installed. SWYRD: Switch yard already in use.		
		4	500	06/14 10/14	02/15	11/16 12/16	01/17			
		Original Estd. Cost		: Rs. 534038.00 Lakhs						
		Estimated cost		: Rs. 534038.00 Lakhs						
		Exp. During 2011-12		: Rs 51864.00 Lakhs						
		Exp. During 2012-13		: Rs 99453.00 Lakhs						
		Exp. During 2013-14		: Rs 112907.00Lakhs						
		Exp. During 2014-15		: Rs 71095.00 Lakhs						
		Exp. During 2015-16		: Rs 40000.00 Lakhs						
		Exp. During 2016-17		: Rs 31000.00 Lakhs (up to 09/16)						
		Total Expenditure		Rs. 4063.19 Cr.						
		Approval date:								
		Zero date:		22.02.2011						
		Financial closure		• Achieved. Tied up with PFC (Debt Equity ratio is 70:30)						
Main Plant Order		• Placed on BHEL on 22.02.2011								
BOP Package		Order for BOP's placed on • M/s Mc Nally Bharat for CHP on 12.04.12 • M/s Indure Pvt. Ltd. for AHP on 28.11.14 • M/s Gammon India for Chimney on 12.04.12 • M/s Paharpur Cooling tower for NDCT on 24.08.12								
Type of fuel		Coal								
PPA		Executed on 31.12.2010 with WBSEDCL								
Power Evacuation system		400 kV Sagardighi TPS – Gokarna D/C line 400 kV Sagardighi – Parulia D/C line LILO of 400 kV Farakha-Jeerat- Subhashgram S/C line at Sagardighi D/C line								
		• Land: Adequate land was acquired during implementation of Phase-I project units (2x300MW). • MoE&F Clearance: obtained on 18.05.2011. NOC for “Consent to Establish” obtained. • Civil Aviation Clearance: Received on 01.07.2009 from AAI. • Water Allocation: NOC received for withdrawal of 60 cusec water from Bhagirathi bu I&W dept. GoWB. • SPCB Clearance: Received NOC for consent to operate								
Critical issues		Readiness of AHP, civil works of Vacuum Pump House, Compressor House and Slurry Pump House not yet completed and are still in progress. Water package: Readiness of Intake water system, Equipment erection of DM plant								
Reasons for Delay		1. AHP due to change of contractor from M/s Techpro Systems Ltd to M/s Indure Pvt Ltd. 2. CHP delayed due to non-availability of material								

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.	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	12/16 01/17	02/17	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. Erection of 4/5 Coal Mill completed. Erection of bunker, feeder and feeder pipe in progress. ID/FD/PA fan erection completed. ESP: Structural erection 2017MT/2158MT completed. All bottom hopper erected & Air leak test done for all passes. TG: TG erection started on 16.08.15 Box up completed on 20/05/16. TG oil flushing completed on 14.10.16.	
		2	150	01/16 2/16		09/17 10/17	11/17		
		3	150	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 during 2013-14		:Rs 111630 lakhs						
	Expenditure during 2014-15		:Rs 46764 lakhs						
	Expenditure during 2015-16		:Rs 86973 lakhs						
	Expenditure during 2016-17		:Rs 42742 lakhs (upto 09/16)						
	Total Expenditure		Rs 2881.19 Cr.						
	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							
1.	Namrup Replacement Power Project Distt: Dibrugarh (Assam) APGCL	98.40					• 30 Acres of land required for the project is available. • Work of total 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 started in 05.05.14. • GT&GTG: Gas Turbine and Generator placed on foundation. GT put on barring gear on 01.03.2016 and cranking completed on 05.08.16. GT commissioning is expected in 11/16 (open cycle). • ST: HRSG work started in 01/12 and insulation work nearing completion. TG erection started in October'16. ST commissioning is expected in by 10/17 (Combined cycle).	Delay in start of civil work by 7 months and delay in civil work by another 7 months. Termination of civil & BoP contracts due to poor performance and re-awarded to new contractors by BHEL. <u>Critical Issue</u> - Replace-ment of SFC and Power Module cards - readiness of GBC. -Completion of balance civil works by new civil agency.
	GT	62.25	08/11 09/11	01/12	11/16 12/16			
	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 (09/16)		Rs 2680 Lakhs					
	Cumulative exp up to (09/16)		Rs 48460 Lakhs					
	Date of Main Plant Order (LOI)		: 31.12.2008 (EPC) on M/s BHEL					
	Zero date of the project		: 09.02.2009					
	Type of fuel		Natural Gas					
	Fuel Source		Gas supply agreement made with Oil India Limited for 0.66 MMSCMD of natural gas. Gas Transportation agreement with Assam Gas Company Ltd. through existing Gas supply line to NTPS.					
	Power Evacuation		A LILO of about 1 km will be constructed to connect with the existing Namrup – Tinsukia 220 kV D/C line.					