



CTPP


Chhabra Thermal Power Project is located near village Chowki Motipura in Tehsil Chhabra, Distt. Baran (Rajasthan) which is 22 Km from Chhabra Town ,10 Km from inter state border of Madhya Pradesh, 147 Km from Kota. Plant site is well connected to State Highway-51 & located on Bina-Kota line of West Central Railway.





STAGE-I (Phase 1 & 2)

Unit #1 (250MW) and Unit#2 (250 MW) of this project constructed under Stage-I (Phase-I) started commercial operation w.e.f. 11.06.2010 and 15.10.2011 respectively. Further Unit#3 (250 MW) constructed under under stage-I (Phase-II) started commercial operation operation w.e.f. 19.12.2013. Unit# 4(250 MW) is Commissioned on 30.06.14 and its commercial operation achieved on 30/12/14



Project Highlights:

(1)	Installed Capacity	2X250 MW - I, Phase- I Government of Rajasthan RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LTD 
		2X250 MW - I, Phase- II
(2)	Estimated Cost	2820 Crores (Phase- I)
		3033 Crores (Phase- II)
(3)	Land Acquired	526 Hectares (Stage-I)
(4)	Height of chimney	220 Meter each for Phase-I & II
(5)	ESP Efficiency	99.89%
(6)	Coal Requirement and Linkage	5.0 Million Tons per year
		Unit-1&2- SECL, Kobra (C.G.) through washery circuit.
		Unit-3&4- Parsa East & Kante Basen Coal Blocks through Parsa & Kante Collieries Ltd., Ambikapur (C.G.)
(7)	Water Requirement	800 MCFT/ Year (38500 M3/ day)(For Phase I&II from nearby Parvati, Bethali & Hinglot Dam.
(8)	Power Evacuation	400KV /220 kv Switchyard with Inter-connecting Transformers (ICT) through 400KV Bhilwara, 400KV Hindaun, 400KV Adani and 220 KV Jhalawar & 200 KV Kawai-Dahara feeders.
(9)	Date of COD	Phase -I & II
		Unit #1- COD achieved on 11.06.2010
		Unit #2- COD achieved on 15.10.2011
		Unit #3- COD achieved on 19.12.2013
		Unit #4-COD achieved on 30.12.2014
(10)	Environmental Features	Zero discharge concept adopted
		ETP & STP established. Re-cycled water utilization for green belt development.
		100% (Approx.) Fly Ash Utilization by cement & near-by bricks industries.

OPERATIONAL PARAMETERS

Year	Gen(MU)	 Government of Rajasthan RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LTD	SPCC COAL	SPCC OIL	 CONSUMPTION	SHR	Availability Factor(%)
			CONSUMPTION	CONSUMPTION			
			(Kg/Kwh)	(ml/Kwh)		Kcal/Kwh	
2010-2011	971.36	55.07	0.64	5.38	11.37	2996	64.99
2011-2012	2260.96	70.50	0.66	3.15	11.60	2840	81.58
2012-2013	2924.17	66.76	0.64	1.65	10.69	2708	74.60
2013-2014	3158.449	63.22	0.66	2.54	10.63	2669	76.74
2014-2015	4583.56	64.69	10.70	2.15	10.68	2743	75.49
2015-2016	4473.89	50.93	.65	3.84	10.45	2872	60.33
2016-17	634.89	85.33	0.60	0.38	9.68	2445.07	95.80
2017-18 upto Nov- 17	3933.70	67.17	0.60	0.87	10.26	2539.26	76.98
2017-18 upto Dec- 17	4494.94	68.11	0.60	0.70	10.18	2557.61	77.44

SALIENT FEATURES OF 2X660 MW SUPERCRITICAL UNIT # 5 & 6 STAGE-II, PHASE-III

(1)	Location	At Chowki Motipura about 22 Km from Chhabra Town in Baran District of Rajasthan. The site lies between North Latitude 24 degree 24 inches and East Longitude 77 Degree 15 minutes.  
(2)	Nearest Railway Station	Motipura Chowki (Between Beena- Kota Section)
(3)	Installed Capacity	2X660 MW Stage-II, Phase- III
(4)	Estimated Cost	7920 Crores Rs.
(5)	Land Acquired	total = 2802.06 Bigha in which 2361.02(382.35hq) private land and 441.05 Bigha (71.42hq) government land, Total land-453.99hq
(6)	Height of Chimney	275 Meter (Twin Flue)
(7)	ESP Efficiency	99.89%
(8)	Fuel Requirement	Coa I- 6.5 MTPA
		Unit # 5 - Parsa East & Kante Basan Coal Block
		Unit # 6 - Kante Basan Extension Coal Block.
		HSD/FO - 11563 KL/Year (for both units)
(9)	Water Requirement	1570 MCFT/ YEAR
		Lhasi Irrigation Project- 300MCFT
		Parvan Irrigation Project- 1270 MCFT

Webpage Last Updated on : Jul 23, 2018

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