Annex – 2

(Tables)

Table 1: Design rating of the Chandrapur TPS (100 % MCR)

Sl. No.	Particular	Units	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7
01	Unit installed capacity	MW	210	210	210	210	500	500	500
02	Unit de-rated Capacity (present)	MW	-	-	-	-	-	-	-
03	Gross over unit efficiency	%	36.39	36.39	36.39	36.39	38.42	38.42	38.85
04	Unit design heat rate	kcal/kWh	2363	2363	2363	2363	2238	2238	2214
05	Station capacity (present)	MW	**2340**						
06	Station heat rate	kcal/kWh	**2277.9**						

Table 2: Capacity and age of units

No of Units	Unit Capacity (MW)	Date of commissioning	Make		Age (years)
			Boiler	Turbine	
1	2	3	4	5	6
Unit-1	210	15-Aug-1983	ABL	BHEL	28
Unit-2	210	11-Jul-1984	ABL	BHEL	27
Unit-3	210	3-May-1985	BHEL	BHEL	26
Unit-4	210	8-Mar-1986	BHEL	BHEL	25
Unit-5	500	22-Mar-1991	BHEL	BHEL	20
Unit-6	500	11-Mar-1992	BHEL	BHEL	19
Unit-7	500	1-Oct-1997	BHEL	BHEL	14

Table 3: Performance against MERC targets.

Year	**Heat Rate** (Kcal / Kwh)			
	CSTPS Petitioned	MERC Approved	CSTPS Achieved (Till Nov-11)	
2007-08	2600	2545	2598	
2008-09	2713	2759	2705	
2009-10	3030	2664.4	2760	
2010-11	3051	2617	2764	
2011-12	2759	2626	2669	
Year	**Auxiliary Consumption** (%)			
	CSTPS Petitioned	MERC Approved	CSTPS Achieved (Till Nov-11)	
2007-08	8.50	7.80	7.40	
2008-09	7.81	8.04	8.04	
2009-10	8.52	8.18	8.47	
2010-11	8.50	9.15	10.03	
2011-12	9.15	8.18	10.28	
Year	**Sp. Oil Consumption** (ml / kwh)			
	CSTPS Petitioned	MERC Approved	CSTPS Achieved (Till Nov-11)	
2007-08	1.28	2.00	0.826	
2008-09	1.85	2.00	1.573	
2009-10	1.95	2.00	1.325	
2010-11	2.00	2.00	4.535	
2011-12	2.00	2.00	2.299	
Year	**P L F** (%)			
	CSTPS Petitioned	MERC Approved	CSTPS Achieved (Till Nov-11)	
			MERC	CEA
2007-08	80.00	80.00	76.98	77.17
2008-09	74.16	80.00	76.05	73.20
2009-10	72.51	80.00	76.31	71.34
2010-11	74.86	80.00	56.75	52.84
2011-12	78.00	80.00	62.10	60.11
Year	**Transit Loss** in **Coal** (%)			
	CSTPS Petitioned	MERC Approved	CSTPS Achieved (Till Nov-11)	

2007-08	0.98	0.80	-0.155
2008-09	0.80	0.80	0.301
2009-10	0.36	0.80	0.478
2010-11	0.36	0.80	0.025
2011-12	0.80	0.80	-0.010

Table 4: Classification of measures for convenience of project management.

Project Code	Project Name
P-1	To measure , monitor coal consumption and reduce coal loss
P-2	To measure , monitor water consumption and reduce water loss
P-3	To measure and monitor coal quality
P-4	To measure , monitor fuel oil consumption and reduce fuel oil loss
P-5	Improvement in monitoring of heat rate & auxiliary consumption
P-6	Improvement in condition monitoring system
P-7	Improvement in purchase and procurement procedure
P-8	Improvement in maintenance procedures and decisions
P-9	Improvement in ABT and GCR
P-10	Improvement in operation procedures and decisions
P-11	Improvement in HRD training and quality circle
P-12	Upgradation & technology interventions in the system
P-13	Improvement of heat rate & auxiliary consumption
P-14	Improvement in workplace area

Table 5: Chandrapur TPS status of CPRI recommendations.

CPRI Recommendations	Total Nos.	Implemented	Implementation in progress	Differed	To be Implemented
Immediate term - having no financial implications (NFI)	**96**	80	5	7	4
Immediate term - Having financial implication (FI)	**147**	39	42	11	55
Medium term measures	**45**	13	18	3	11
Long term measures	**14**	3	4	3	4
Not indicated	**0**	0	0	0	0
Total	**302**	**135**	**69**	**24**	**74**

Table 6: Status of CPRI recommendation.

Status	NFI	O&M	Capital	HO	Total	R&M (Unit-1&2)
Completed	89	12	7	23	131	0
Already in practice	3	0	0	1	4	0
Deferred	9	2	11	2	24	0
Implementation in Progress	5	6	51	7	69	0
To be Implemented	5	5	21	39	70	4
Total	111	25	90	72	298	4
						302