Annex – 2

(Tables)

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

Sl. No.	Particular	Units	Unit 5	Unit 6	Unit 7
01	Unit installed capacity	MW	200	210	210
02	Unit de-rated Capacity (present)	MW	-	-	-
03	Gross over unit efficiency	%	35.88	35.88	35.88
04	Unit design heat rate	kcal/kWh	2397	2397	2397
05	Station capacity (present study)	MW	620		
06	Station heat rate	kcal/kWh	2397		

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-5	200	15-Jul-1978	BHEL	BHEL	33
Unit-6	210	30-Mar-1982	BHEL	BHEL	29
Unit-7	210	13-Jan-1983	BHEL	BHEL	28

Table 3: Performance against MERC targets.

Year	**Generation** (MUs)		
	Petitioned	MERC Approved	Achieved (Stage II)
2008-2009	6650	7288	3853.313
2009-2010	5341	6736	3478.662
2010-2011	4139	4806	3098.641
2011-2012	3677		2577.445

Year	**A V F** (%)			
	Petitioned	MERC Approved	Achieved (Stage II) as per	
			MERC	CEA
2008-2009	70.23	73.94	71.44	90.57
2009-2010	58.63	73.94	65.39	89.86
2010-2011	63.39	73.94	60.36	83.50
2011-2012	71.54		67.60	87.30

Year	**P L F** (%)			
	Petitioned	MERC Approved	Achieved (Stage II) as per	
			MERC	CEA
2008-2009	70.23	80.00	71.55	70.95
2009-2010	58.63	73.94	65.41	64.05
2010-2011	63.39	73.94	60.33	57.05
2011-2012	71.48		67.44	62.99

Year	**Auxiliary Consumption** (%)		
	Petitioned	MERC Approved	Achieved (Stage II)
2008-2009	10.75	9.80	10.64
2009-2010	12.50	10.74	11.85
2010-2011	12.96	10.70	12.75
2011-2012	11.86		12.09

Year	**Heat Rate** (kcal / kWh)		
	Petitioned	MERC Approved	Achieved (Stage II)
2008-2009	3280	2803	3079

2009-2010	3364	2775	3245
2010-2011	3340	2755	3126
2011-2012	2834		2848

Year	**Sp. Oil Consumption** (ml / kWh)		
	Petitioned	MERC Approved	Achieved (Stage II)
2008-2009	3.73	2.81	4.215
2009-2010	9.84	2.81	8.755
2010-2011	3.00	2.81	8.301
2011-2012	4.71		6.665

Year	**Transit Loss** in **Coal** (%)		
	Petitioned	MERC Approved	Achieved (Stage II)
2008-2009	1.00	0.80	0.89
2009-2010	0.85	0.80	0.87
2010-2011	3.93	0.80	1.40
2011-2012			3.70

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: Koradi TPS status of CPRI recommendations.

CPRI Recommendations	Total Nos.	Implemented	Deferred	Balance
Immediate term - having no financial implications (NFI)	56	53	1	2
Immediate term - having financial implications (FI)	59	15	16	28
Medium term measures	45	8	11	26
Long term measures	33	10	7	16
Not indicated	30	25	0	5
Total	223	111	35	77