Annex – 4
(Immediate measures with financial implication)

S.N.	STATION / UNIT	CPRI Recommendations	Date / Month of Imple-mentation	STATUS AS ON 31-12-2011	Effects / Results / Improvement seen
1	STAGE-II	Installation of belt weighers for all coal conveyors.	Mar-10	Bunkering Belts 7A/7B/7C/7D/7C1 & Stacker Belt 109 Completed. All the important belts have been covered.	Close monitoring of coal feeding on conveyor belts from CHP control room is possible
2	UNIT 5	Replace valve stem by stellited seats, valve plug with Inconel 750	It is in practice	HP Valves are in use with appropriate rating i.e with specified class body,seat & stem material.	Proper control of system
3	UNIT 6	Replace valve stem by stellited seats, valve plug with Inconel 750	It is in practice	HP Valves are in use with appropriate rating i.e with specified class body,seat & stem material.	Proper control of system
4	UNIT 7	Replace valve stem by stellited seats, valve plug with Inconel 750	Implemented	HP Valves are in use with appropriate rating i.e with specified clas body,seat & stem material.	Proper control of system
5	STAGE-II	Clean the cooling tower pond, splitter plates from algae, etc	Implemented	Regular Chlorine gas dosing is carried out to control growth of Algae in GS Cooling Tower. Splitter plate & Spray Nozzle cleaning is regularly carried out of CW cooling Towers	Algae in Cooling Tower minimized
6	UNIT 6	Restoration of the clearance between fan impeller blades & casing during an outage	Implemented	Impeller replacement is done regularly for restoration of the clearance.	Better performance
7	UNIT 7	Restoration of the clearance between fan impeller blades & casing during an outage	Implemented	Impeller replacement is done regularly for restoration of the clearance.	Better performance
8	UNIT 5	Installation of VFD for all RC feeders.	FY 2009	Already implemented in 2009	Auxiliary energy saving
9	UNIT 5	Replacement of AVR (automatic voltage regulator) by digital voltage Regulator (DVR)	IMPLEMENTED	Unit 5 has been implemented	1.Reductiion in trippings during Grid disturbance 2. Fast Response of AVR.
10	UNIT 7	Replacement of AVR (automatic voltage regulator) by digital voltage Regulator (DVR)	IMPLEMENTED	Unit 7 has been implemented	1.Reductiion in trippings during Grid disturbance 2. Fast Response of AVR.
11	UNIT 6	Overhauling of pulse air compressor and motors .	IMPLETED	It is done in annual overhaul	improvement in performance
12	UNIT 6	Reducing the pressure drop in flue gas duct and APH .	IMPLEMENTED	It is practice to repair the ducts in overhaul for the problem of erosion & to Repair /replace the damaged expansion joints & fabric expansion joints. At unit 5 & 6 CFD modelling is not feasible due to bag filter & Unit no 7 errosion problem is nigligible.	Efficiency improvement
13	UNIT 5	Reducing the pressure drop in flue gas duct and APH .	IMPLEMENTED	--,,--	Efficiency improvement
14	UNIT 7	Reducing the pressure drop in flue gas duct and APH .	IMPLEMENTED	--,,--	Efficiency improvement
15	STAGE-II	Implementing fogging dust suppression system at all level from wagon tipling to bunkering. Any other solution than water mixing can also be explored.	Jul-11	At most of the emitting points dust suppression systems have been installed..	For better environment