	COMPLIANCE TO CONDITIONS OF MOEF CLEARENCE FOR 30 MW POWER PROJECT							
SI.No.	CONDITION	COMPLIANCE STATUS						
I)	No additional land shall be acquired for any activity relating to the proposed expansion project	The plant is being constructed within the available land ,adjacent to existing 108 MW power plant, as per the layout finalised for the 30MW expansion project which is under the ownership of IMFA. The relevant documents in this regard has already been submitted to OPCB. Refer Note below.						
ii)	Sulphur content of in coal and middlings to be used as fuel shall not exceed 0.6%	Copies of the analysis report of coal and coal middlings indicating, sulphur content in coal to be used in proposed 30 MW power project has already been submitted Refer Note below.						
iii)	condition that SO2 emission will be kept below	Construction of Stack of 45.6 m height is completed. Installation of .continuous on- line monitoring system for SO2 emission is completed. The level of emission is found within the norm during intermittent trial operation. The data will be collected and submitted as required in the next report.						
iv)	High efficiency Electrostatic Precipitators (ESPs) shall be installed to limit particulate emission to 100mg/Nm3	ESP having 4 nos of fields with 99.92 % efficiency has been installed and commissioned. During trial and intermittent operation, PM emission was found to be < 100mg/Nm3. Tech. details and write up has already been submitted. Refer Note below.						
V)	Low NOx burners shall be provided.	The CFBC boiler of 30MW does not have coal burners. However for efficien combustion of coal the state of the art technology,viz. Fluidized bed combustion wil be employed. This boiler will have the added advantage of limiting NO _x emission due to its inherent low temperature(800-900 deg.C) combustion.						
vi)		Using CFBC technology and lime injection, SO_2 removal will be more than 92%. Detail calculation sheet has already submitted. Refer note below.						
vii)	Dust extraction and dust suppression system and	In proposed 30 MW project dust extraction system for CHP, coal bunker & ash sild has been installed and commissioned. Water sprinklers are provided at ground hopper, coal storage area and along road side.						

SI.No.	CONDITION	COMPLIANCE STATUS
viii)	Water requirement shall not exceed 3460 m ³ /day which will be met from river Birupa. Necessary permission for drawl of requisite quantity of water shall be obtained from competent authority.	Requirement of water for proposed project will be kept within 3460 m ³ /day. No further permission is required, because we are already having permission for drawe of 14000 m ³ /day from river Birupa and above requirement will be met after supplying water to existing 108 MW power plant. In this regard water consumption data for las five year and a copy of the permission obtained from Govt authority, to draw water from river Birupa has already been submitted. Refer Note below.
ix)	Closed circuit cooling system with cooling towers shall be installed.	Close circuit cooling system with cooling tower has been installed and commissioned. Raw water is being used in the cooling system and the make up to the system is supplied from the existing 108 MW power plant. The system is envisaged to operate at 4 to 4.5 COC.
x)	standards shall be recirculated and reused within	In the 30 MW power plant no effluent will be generated, as treated water from existing 108 MW power plant will be used as make up to the aux. cooling tower Reuse of boiler blow down water has been envisaged like we have in the existing 108MW plant. The scheme for utilization of cooling tower blow down water for bottom & fly ash handling system, green belt development,dust suppression system and sprinklers for fugitive dust emission are under progress.
xi)	Rain water harvesting shall be practiced. A deta scheme for rain water harvesting to recharge the ground water aquifer shall be prepared in consultation with Central Ground Water Authority State Ground water Board and a copy of the same shall be submitted within three months to the ministry.	Report submitted. Please refer our letter no. EVP(O)/ENV/09/1598 dt. 24.09.2009 in this regard.
xii)		
xiii)	Dry ash collection system shall be provided. 100% ash utilisation shall be ensured from day one of the commissioning of the plant.	Dry ash collection system has been provided. Dry ash is now being collected and utilized completely.

SI.No.	CONDITION	COMPLIANCE STATUS
xiv)		Plantation will be carried out in 1 Ac = 0.4 hect area. After completion of the project 100 nos of saplings has been planted. About 200 saplings are proposed to be planted during this year monsoon.
xv)	First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase	
xvi)	Regular monitoring of ambient air quality shall be carried out in and around the power plant and records maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation of with the State Pollution Control Board. Periodic reports shall be submitted to the regional office of this Ministry a Bhubaneswar.	
xvii)	The project proponent shall advertise in at lease two local news papers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Contro Board / Committee and may also be seen a website of Ministry of Environment and forests a http: //envfor.nic.in	
xviii)		Existing environment management cell of 108 MW power plant is now looking into the implementation of the stipulated environmental safeguards. Name of the personnels and their responsibilities has been defined and has already submitted Refer Note below.
xix)	Half yearly report on the status of implementation of the stipulated conditions and environmenta safeguards shall be submitted to this Ministry, the Regional office and the CPCB/SPCB.	a la

SI.No.	CONDITION	COMPLIANCE STATUS
xx)	Regional office of the Ministry of Environment & Forests located at Bhubaneswar will monitor the implementation of the stipulated conditions Complete set of Environment Impact Assessmen Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring.	
xxi)	Separate funds shall be allocated fo implementation of environmental protection measures along with item wise break up. The cos shall be included as part of the project cost. The	
xxii)	Full cooperation shall be extended to the Scientists / Officers from the Ministry/ Regiona office of the Ministry at Bhubaneswar / CPCB SPCB who would be monitoring the compliance or environmental status.	

Note : Reports , write up etc. stated above have been submitted to your good office on 04.11.08 (Please refer our letter no EVP(O)/ENV/2006 dt 04.11.08)

monitoring data

	AMBIENT AIR QUALITY DATA OF UNIT-1 & STACK OF B6 (OCTOBER 2012 - MARCH 2013)															
plant Near gate no.6									(30MW)	(30MW) control ro			m	6.		
Month/week	PM10	SO2	NO2	PM10	SO2	NO2	PM10	SO2	NO2	PM10	SO2	NO2	PM10	SO2	NO2	
Oct 1 st week	89	7.3	15.9	98	7.9	14.3	92	6.9	14.8	86	7.2	15.8	93	6.9	16.3	92
2 nd week	102	7.1	15.1	95	8.1	15.6	86	7.2	14.7	81	7.3	15.7	96	6.6	16.5	
3 rd week	103	8.3	17.1	89	7.3	15.1	83	6.6	14.3	97	7.8	16.1	89	6.6	15.8	
4 th week	102	7.3	15.8	91	6.9	16.3	86	7.2	15.9	94	7.9	16.3	96	8.1	17.3	83
Nov 1 st week	93	6.7	16	87	7.2	15.3	97	7.7	14.8	88	6.8	16.6	81	5.5	15	
2 nd week	99	6.8	15.4	87	7.9	14.9	102	6.8	15.5	95	7.1	17.5	91	6.6	16.4	89
3 rd week	105	8.1	14.8	97	7.5	15.1	92	6.6	14.5	111	7.8	15.5	106	6.9	16.7	
4 th week	98	7.9	15.3	90	7.1	14.2	96	7.5	15.1	106	7.1	15	97	6	14.4	97
Dec 1 st week	104	7.6	15.5	97	6.8	14.9	102	7.1	14.4	95	7.9	15.3	89	8.1	16.3	
2 nd week	97	6.9	15.2	93	6.5	15.8	105	7.5	15.5	94	7.5	17.1	86	8.4	16.9	90
3 rd week	96	8.1	14.1	91	7.4	15.2	102	6.9	14.5	111	8.8	15.2	104	7.3	16	
4 th week	107	7.9	13.9	98	8	14.5	93	6.8	14.2	95	6.9	14.1	93	7.3	15.8	81
Jan 1 st week	108	7.8	16.5	94	7.2	15.6	101	6.6	14.7	111	7.8	15.9	107	6.2	14	94
2 nd week	95	7.5	15.1	98	7.1	14.9	93	7.6	14.2	104	6.7	14.3	96	5.5	16.2	
3 rd week	105	6.7	14.5	90	7.3	15	92	7.7	14.8	117	8.4	17	111	7	15.1	
4 th week	97	6.9	15.6	103	8.1	15.3	96	7.9	15.6	89	7.3	15	96	6.4	16.1	85
5 th week										85	5.5	14.3	92	8.2	17.4	
Feb 1 st week	104	6.5	14.5	91	6.8	15.1	93	7.3	14.7	81	7.9	15	87	6.2	13.8	80
2 nd week	101	7.1	15	97	7.3	14.6	91	6.9	15.1	94	7	15.8	83	7.7	14.3	
3 rd week	98	7.6	14.9	90	6.8	14.4	97	7.4	15.4	105	6.8	16.4	116	6.8	15.9	75
4 th week	95	6.8	14.2	92	7.1	13.9	96	7.6	14.9	90	8.8	16.3	106	8	15.8	
Mar 1 st week	105	6.8	15.1	92	6.6	14.5	97	7.2	13.8	85	5.6	13.2	88	5	14.7	
2 nd week	123	6.9	15.5	116	6.4	14.7	112	7.1	14.3	91	6.1	12.5	96	7.2	13.6	S/D
3 rd week	130	7.4	13.8	118	6.7	14.3	125	7.7	15	79	5	15.1	89	6.9	14.7	3/0
4 th week	119	7.1	15.4	126	6.4	14	118	6.9	14.9	92	7.3	15.5	99	7.9	14	

AMBIENT AIR QUALITY DATA OF UNIT-1 & STACK OF B6 (OCTOBER' 2012 – MARCH '2013)

Env expndtr, CSR, Plantation

Period	Expenditure incurred on	Plantation, green belt	CSR activities undertaken
	environmental management	development	
	Operation – Rs.1972920/- Maintenance – Rs.1431240/- Total – Rs.3404160/-		Construction of 3 nos bore well at nearby locality. Infrastructure development in school. Community center development in housing board colony. Opening of skill development center (tailoring training). Free medical consultancy center.