	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 online 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 efficient combustion of coal the state of the art technology,viz. Fluidized bed combustion will be employed. This boiler will have the added advantage of limiting NO_{χ} 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)										

SI.No.	CONDITION	COMPLIANCE STATUS
viii)	Water requirement shall not exceed 3460 m³/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 m³/day. No further permission is required, because we are already having permission for drawel of 14000 m³/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 last 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.
SI.No.	CONDITION	COMPLIANCE STATUS
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 detail 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)	Leq of noise level shall be limited to 75 dBA and regular maintenance of equipments should be undertaken. For people working in high noise areas, personal protection devices should be provided.	
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 futilized completely.

SI.No.	CONDITION	COMPLIANCE STATUS
xiv)	A green belt shall be developed around the plant boundary with tree density of around 2500 trees per ha covering 1/3 of the total project area.	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 100 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 at Bhubaneswar.	
xvii)		
SI.No.	CONDITION	COMPLIANCE STATUS
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.

SI.No.	CONDITION	COMPLIANCE STATUS
xix)	Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to this Ministry, the Regional office and the CPCB/SPCB.	
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 Assessment 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)	implementation of environmental protection measures along with item wise break up. The cost	
xxii)	Full cooperation shall be extended to the Scientists / Officers from the Ministry/ Regional office of the Ministry at Bhubaneswar / CPCB / SPCB who would be monitoring the compliance of 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)

AMBIENT AIR QUALITY (APRIL' 2013 – SEPTEMBER '2013)

	At coal handling plant			Near gate no.6				At filter house			Near 33 KV switch gear room (30MW)				Near 30 MW CHP control room				P.M. of Blr 6.		
Month/week	PM ₁₀	SO2	NO2	PM2.5	PM10	SO2	NO2	PM2.5	PM10	SO2	NO2	PM2.5	PM10	SO2	NO2	PM2.5	PM10	SO2	NO2	PM _{2.5}	
Apl 1st week	121	7.1	14.7	72	110	6.9	15.3		108	7.6	14.8		84	5.4	13.2	50	91	6	14.4		80
2 nd week	127	6.6	15		115	6.2	15.6	68	123	7.2	14.7	75	89	7.3	12		97	6.8	15.9		
3 rd week	114	6.7	13.8		110	7.5	15.6		96	6.8	14.5		80	7	14.4		106	8.1	13.8		75
4 th week	107	7.8	15		116	6.9	14.8		108	7.3	13.9		90	7.7	15.9		85	8.1	14	43	83
5 th week													107	6.9	16.8		118	7	15.2		
May 1 st week	113	6.9	13.2	69	109	7.1	14.4		118	6.6	13.5		111	7.7	16.3		140	5.4	17.9		92
2 nd week	125	7.7	15.8		107	7.3	13.6	74	116	7.7	14.5		125	8.1	14.8		131	7.3	15		
3 rd week	109	6.6	15		114	7.2	14.7		106	6.7	14.3	70	101	6.9	16.6	64	122	4.7	14.1		
4 th week	127	7	15.1		116	6.6	14.2		107	7.7	15.2		96	8.8	14.7		110	5.1	17.7	71	105
Jun 1 st week	108	6.8	15	68	113	7.6	14.1		106	6.2	13.8		106	7.2	15.9	41	113	6.2	16.1		111
2 nd week	98	7.1	15.7		90	6.8	14.3	52	96	6.5	15		75	5.3	13.8		85	6.9	15	27	
3 rd week	107	7.8	14.9		89	7.9	14.8		84	8.1	13.3	49	87	4.8	14.5		93	5.9	15.7		
4 th week	92	6.5	14		97	8	14.6		86	6.5	12.9		90	6.8	16.9		97	7.7	15		82
July 1st week	94	6.8	15.1	56	87	7.2	14.4		91	7.9	15.4		85	9.3	12.8	38	98	6	16.2		
2 nd week	97	7.1	14.8		84	7.6	15.6	63	82	6.9	16.1		62	7.8	13.4		79	8.2	15	45	90
3 rd week	88	7.4	14.7		96	6.2	15		89	7.6	15.4	50	93	5.5	14.1		103	8.8	16.7		
4 th week	91	7.3	14		82	6.4	16.2		83	7	15.4		55	7.9	16.2		68	8.5	14.9		116
Aug 1 st week	108	7.5	15.6	52	91	6.2	14.7		88	6.9	15.2		70	8.6	15.1		84	5.9	16		
2 nd week	94	7.8	14.5		82	8.1	14.1	59	96	7.5	15.2		97	7.7	14.2		112	6.8	15.5		84
3 rd week	90	8	14.8		97	6.9	15.7		87	7.9	14.5	47	66	7.4	16.8	55	59	6.4	17		
4 th week	103	8.2	13.7		92	8.4	15.4		98	7.4	14.6		108	6.4	17.1		92	7.9	15.5	41	91
Sept 1st week	95	6.9	15.3	56	86	7.4	15.9		89	6.7	15.1		90	7.2	15.4	40	97	6.3	16		97
2 nd week	108	7.9	14.6		98	7.2	16.2	50	83	6.9	15.4		83	7.9	15.1		107	6.1	14.2	62	
3 rd week	92	7.7	15.2		96	7	15.8		89	6.7	15.1	44	50	8.7	13.3		74	5.5	13.9		
4 th week	107	7.8	16.2		94	7.5	15.3		83	6.9	15.1		121	7.7	16.2		101	6.2	15.1		85

Period	Expenditure incurred on	Plantation, green be	CSR activities undertaken					
	environmental management	development						
April'13 to	Operation – Rs./-2051712	April Nil	May Prefabricated desk and bench 40 pairs donated to					
September'13	Maintenance – Rs.9410000/-	- Nil J	une Swarasati Sisu Mandir, Agrahat. Community center at					
		- 90 Ju	ly Sankarpur village constructed. Office of Mahila Samity at					
	Total – Rs./-11461712	- Nil Au						
		2400 Sept	, , ,					
		Nil	Municipilaty has been done. Six nos water purifier (Aqua					
			Guard) donated in different school of Choudwar area.					
			Three nos ceiling fan donated to Paikaraypur Primary					
			School, Choudwar.					