

INLAND POWER LIMITED
COMPLIANCE OF ENVIRONMENTAL CLEARANCE

Period of Compliance Report	1st Oct'17 to 31st Mar'18		
EC No. & Date	J-13012/115/2008-IA-II(T)	20.12.2011	-
1st CTO	B-1132	31.03.2014	
Commercial Operation Date		21.05.2014	
Current CTO & Validity	JSPCB/HO/RNC/CTO-1057300/2017/140	14.02.2017	31.12.2018

SI	CONDITION	COMPLIANCE
A.	SPECIFIC CONDITIONS:	
i)	In case source of fuel supply or ratio is to be changed at a later stage (now proposed as mixture of coal, washery rejects and dolachar in the ratio 50:20:30) the project proponent shall intimate the Ministry well in advance along with necessary requisite documents for its concurrence for allowing the change. In such a case the necessity for re-conducting public hearing may be decided by the Ministry in consultation with the Expert Appraisal Committee.	In such case Ministry will be intimated well in advance for the needful.
ii)	Scheme for implementation for harnessing solar power within the premises of the plant particularly at available roof tops shall be formulated and status of implementation shall be submitted to the Regional Office of the Ministry.	We have installed 9x 300 LPD Solar water heaters System and planned to install solar panel on the rest of the buildings. <i>(Photograph Attached)</i>
iii)	Fly ash shall not be used for mine void filling without carrying geo-hydrological study.	Fly ash has been utilizing in the Brick Manufacturing, Highway Construction, Supplied to Cement manufacturing units. For mine void filling in C.C.L Rajrappa Area. Detailed geo-hydrological study has been carried out and report submitted to the C.C.L & JSPCB.
iv)	In case fly ash is to be supplied to brick manufacturing units it shall be ensured that a detailed study on chemical composition particularly heavy metal and radio activity contents shall be first carried out through a reputed institute and report shall be submitted to Regional Office of the Ministry. Only after ascertaining its radioactive level shall be utilized for brick manufacturing or supplied to brick manufacturers,	<i>Fly ash Test Report attached.</i>

v)	The project proponent shall undertake measures and ensure that no fugitive fly ash emissions take place at any point of time.	Fugitive emissions will be regularly monitored as per norms. The emissions from the plant are controlled within the latest permissible limits. High efficiency bag filters are installed, and closed system is implemented. All transfer points are fitted with DE and/or DF system.
vi)	Stack of 95 m height with flue gas velocity not less than 22 m/s shall be installed and provided with continuous online monitoring equipment for SO _x , NO _x and PM 2.5 & PM ₁₀ . Mercury emissions from stack may also be monitored on periodic basis.	Online monitoring equipment is installed as per the guideline of CPCB. (Photographs attached)
vii)	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/ Nm ³ .	ESP to meet emission norms of 50 mg/Nm ³ is installed in the plant. (Photographs attached)
Viii)	Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Bag filter are installed, all transfer points fitted with DE and DF system. Water Sprinklers are installed also utilizing water tankers for cleaning of roads in plant area and surrounding area. (Photographs of Water Tanker is attached)
ix)	Utilisation of 100% Fly Ash generated shall be made from 4 th year of operation. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	Noted and is being complied. Fly ash is being utilized in bricks manufacturing, Cement manufacturing and Road\ Highway Construction. IPL has facility of in house brick manufacturing plant installed in the plant premises and supplied to other bricks & cement manufacturing plants also. (Ash Utilization Details is attached herewith)
x)	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry form. Mercury and other heavy metals (As, Hg, Cr, Pb etc.] will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.	Fly ash is collected in dry form and storage facility, as silos, is provided. (Photographs Of Silos are attached)
xi)	Ash pond shall be lined with HDP/LDPE lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.	No ash pond proposed, if any it will be lined with HDPE as per norms. Fly ash will be collected in dry form to be extent possible.
xii)	Existence de-generated water bodies (if any) within the 5.0 Km area shall be regenerated at the project proponent's expenses in consultation with the State Govt.	complied. (Photographs, Certificate & details of Expenses of Re- generated pond is attached herewith)
Xiii)	Source of water for meeting the requirement during lean season shall be specified and submitted to the Regional Office of the Ministry.	We are meeting our water requirement from Senegarha Nala as the permission granted by WRD, GOJ with adequate size weir and storage tank.

Xiv)	No ground water shall be extracted for use in operation of the power plant even in lean season.	Ground water use will be limited to drinking and domestic purpose only.
xv)	No water bodies (including natural drainage system) in the area shall be disturbed due to activities associated with the setting up / operation of the power plant.	Plant layout finalized after detailed contour survey and natural drainage. Existing plantation and drainage in the area maintained. (Copy of the Plant Layout is attached)
Xvi)	Minimum required environmental Flow suggested by the Competent Authority of the State Govt. shall be maintained in the Channel Rivers (as applicable) even in lean season.	Water extraction will be limited to the quantity of permission obtained from WRD, GOJ.
Xvii)	COC of 5.0 shall be adopted.	Is being complied with and COC of 5.0 is adopted.
Xviii)	Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg, Cr, As, Pb) and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.	Is being complied, monitoring for the post-monsoon has been carried out. (Water analysis report attached) No ash pond proposed. All collection is in dry form.
xix)	Monitoring surface water quality in the area shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.	Is being complied, (Reports are enclosed) .
xx)	Waste water generated from the plant shall be treated before discharge to comply limits prescribed by the SPCB.	Noted. No waste water discharge
xxi)	A well-designed rainwater harvesting shall be put in place before commissioning of the plant. Central Groundwater Authority / Board shall be consulted for finalization of appropriate rainwater harvesting technology / design and details shall be furnished to the Regional Office of the Ministry. The design of rain water harvesting shall comprise of rain water collection from the built up and open area in the plant premises. Action plan and road map for implementation shall be submitted to the Ministry within six months.	Action plan prepared, and approval obtained from GWD is attached along with . As per the approved plan harvesting system has been Implemented. Existing wells in the premises are being used for RWH.
xxii)	Additional soil for levelling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	Complied. No external filling required.

xxiii)	Green Belt consisting of 3 tiers of plantations of native species around plant and 50m width shall be raised. The density of trees shall not less than 2500 per ha with survival rate not less than 80 %.	Plantation of Sesame, Amla, Aakashmani, Kadam, Teak, Palas, Raintree etc. has been done and maintained as per norms. Rs 1,73,563/- has been spent from 1 st Apr 17 to Mar'18 for the plantation. <i>(Photographs Attached)</i>
xxiv)	The project proponent shall also adequately contribute in the development of the neighbouring villages. Special package with implementation schedule for providing potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	Drinking water facility being provided to nearby villagers. <i>(Photographs attached)</i>
xxv)	CSR scheme shall be undertaken based on need based assessment in and around the villages within 10.0 km of the site and in constant consultation with the village Panchayat and the District Administration. As part of CSR activity, the company shall impart training to the local youth in the area.	Company already started the CSR activities. From 1 st Apr'17 to 31 st Mar'18 Rs 36,14,935/- has been spent on CSR for the Medical, Education, Drinking water, Games, Training etc...
xxvi)	It shall be ensured that an in-built monitoring mechanism for the CSR schemes identified is in place and annual social audit shall be got done from the nearest preferably government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time. The achievements should be put on company's website.	We are monitoring CSR Schemes by own employed professionals in this field. They are visiting nearby surrounding villages, study their urgent needs to be account for our CSR activities.
xxvii)	An amount of Rs 3.50 Crores shall be earmarked as one-time capital cost for CSR programme as committed by the project proponent. Subsequently a recurring expenditure of Rs 1.50 Crores per annum till the life of the plant shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within six month a long with road map for implementation.	CSR activities being done in consultation with the state government authorities.
xxvii i)	An Environmental Cell shall be created at. the project site itself and shall be headed by an officer of appropriate superiority and qualification. It shall be ensured that the head of the Cell shall directly report to the Head of the Organization.	We have created the environmental cell as directed.
B.	GENERAL CONDITIONS	
i)	The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. Arrangements shall be made that effluents and storm water do not get mixed.	No discharge of effluent.
ii)	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation.	NA and sewage water is being utilized for plantation.

iii)	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.	Onsite/ off site emergency management plan has been prepared and approved by the Chief Inspector of factories as per the approved plan, safety measures has been taken in the plant area.
iv)	Storage facilities for auxiliary liquid fuel such as LDO/ HFO/LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	1 tank of capacity 20KL is installed with the proper approval. (Photographs & approval certificate of Diesel Storage is attached herewith)
v)	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	First aid center started at site. 14 no toilets, 1 canteen.
vi)	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 85 dBA from source. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to none noisy/less noisy areas.	Turbine is enclosed in a casing with MS steel cover Other noise polluting equipment are fitted with canopy and silencers to lowering the noise level. ambient noise level test has been carried out and found within prescribed limit. Reports are attached herewith. (Photographs is attached)
vii)	Regular monitoring of ambient air ground level concentration of SO ₂ , NO _x , PM 2.5 & PM10 and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	Monitoring of ambient air has been carried out regularly. Reports are attached herewith.
viii)	Provision shall be made for the housing of construction labour (as applicable) within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Construction workers are locals from nearby villages. Provision for toilets, drinking water, medical health care etc. done at site.
ix)	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within	Complied Information to the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are

	seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at <i>http://envfor.nic.in</i> .	available with the SPCB and may also be seen at Website of the Ministry has been published in news papers Hindustan Times(English).& Prabhat Khabar (Hindi) dated 11.01.2012.
x)	A copy of the clearance letter shall be sent by the proponent to concern Panchayat, Zila Parisad / Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions/representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Complied. Submitted to the local bodies. No representation of NGO.
xi)	The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF', the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM (PM2.5 & PM10), SO2, NO, (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.	Information are available on the web-site of the company. All monitoring as prescribed will be followed. Reports are being regularly submitted to concerned authorities Information displayed at Main gate
xii)	The environment statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	Plant has started the Commercial production from 21.05.2014. Environmental statement for financial year ending 31 st March 2017 in Form-V has been submitted and uploaded on website.
xiii)	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.	Six monthly compliance reports as directed submitted to the concerned authority in the month of June (for the period October – March) and in December (for the period April – September) every year.

xiv)	Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental 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. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six monthly basis. Criteria pollutants levels including NO _x (from stack & ambient air) shall be displayed at the main gate of the power plant.	All monitoring as prescribed will be followed. Reports regularly submitted to concerned authorities Information are displayed at Main gate
xv)	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These costs shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.	Complied. From 1 st Apr'17 to 31 st Mar'18 Rs. 4.59 crores have been spent for EMP implementation. (<i>Item wise breakup is attached herewith.</i>)
xvi)	The project authorities shall inform the Regional Office as well as the Ministry at New Delhi regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.	The source of funds finalized. Term Loan for the Project has been sanctioned by consortium of banks SBI, Bank of Baroda, State Bank Of Bikaner & Jaipur and State Bank Of Patiala. Loan agreement executed on 12th August 2011.
xvii)	Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry/ CPCB/ SPCB who would be monitoring the compliance of environmental status	Noted. Full co-operation will be extended to visiting officers

Enclosures:

1. Photographs.....Annexure 1
2. Water Reports.....Annexure 2
3. Stack Air Report.....Annexure 3
4. Ambient Air Quality Report..... Annexure 4
5. Fly & Bottom ash Report.....Annexure 5
6. Ash Utilisation Details.....Annexure 6
7. Noise Monitoring Report.....Annexure 7
8. Rain Water Harvesting Approval Letter.....Annexure 8
9. Explosive approval letter for Diesel Storage Tank.....Annexure 9
10. Details of Re- generated Pond.....Annexure 10
11. Copy of Plant LayoutAnnexure 11
12. EMP Expenditure Details.....Annexure 12