



**COMPLIANCE REPORT TOWARDS ENVIRONMENTAL  
CLEARANCE**

**Prepared *for***

**Expansion of Co-Generation Power Plant from 40 MW to 62 MW**

**at**

**Mudhol Taluk, Bagalkot District, Karnataka.**

Compliance to the conditions laid in the Environmental Clearance obtained from MoEF for *Expansion of Co-Generation Power Plant from 40 MW to 62 MW at Sy No. 166, Kulali Cross, Jamakhandi Road, Mudhol Taluk, Bagalkot Distt., Karnataka.*

**Environmental Clearance vide letter No. J13012/97/2009-IA.II(T) dated December 27, 2010**

**A. Specific Conditions:**

SLNO	CONDITIONS	COMPLIANCE
1	No change in fuel mix shall be permitted and no woody biomass shall be used at any point of time. Inventory of fuel used and stock pile duly verified by head of the plant shall be maintained for verification by concerned authority.	No change in the fuel mix and only bagasse will be used as fuel. Coal will be used as auxillary fuel not more than 15%. Detail of fuel used monthly statement <b>Refer Chapter No:42</b>
2	In case fuel for running the power plant is proposed to be changed from Bio-Mass (Bagasse) to other fuel (liquid or solid) the project proponent shall apply for such a change in environmental clearance along with necessary documents as required under EIA notification, 2006 (and its amendments). In such a case the necessity for holding public hearing again or otherwise will be determined by the Ministry in consultation with the Expert Appraisal Committee (Thermal Power).	Agreed.
3	Electrostatic precipitators shall be installed to control particulate emissions from the Bio-Mass fired Boilers.	Electrostatic precipitators have been installed to control particulate emissions from bagasse fired boiler. Details of ESP installed & photo copies enclosed <b>Refer Chapter No:12, Chapter No:23, Chapter No: 43, Chapter No:44&amp;Chapter No:45</b>
4	Stacks of 70 m shall be installed. Exit velocity of flue gases shall not be less than 22 m/sec.	Stack height of 82 mts is provided. For details please <b>Refer Chapter No:23</b>
5	100 % fly ash disposal shall be ensured from 4 <sup>th</sup> year of operation of the plant. Reconciliation statement on	Fly ash generated is mixed with pressmud in the required proportions and used/ sold as manure. Red

	fly ash utilization shall be submitted to the Ministry within six months of operation of the plant.	briksmanufacture practiced using fly ash generated from co-gen plant for brix manufacturing maximum quantity of ash is sold to brix manufacture for details please <b>Refer Chapter No:25,Chapter No:26&amp;Chapter No: 29.</b>
6	COC of 5.0 shall be adopted	We are adopting COC of 5.0 in cooling tower. <b>Refer Chapter No:54.</b>
7	No ground water shall be extracted for the project work at any stage.	We have permission to draw the water from Gataprabha river the approval copy from Karnataka Niravari Nigam is enclosed please <b>Refer Chapter No: 27</b>
8	It shall be ensured that the area drainage is not disturbed due to the proposed expansion. Additional soil for leveling of the sites should be generated within the site in a way that natural drainage system of the area is protected and improved.	Area drainage not disturbed by the construction activity. Excavation soil used for levelling of the areaand plantation purpose.
9	Source of water for meeting the requirement during lean season shall be specified and submitted to the Regional Office of the Ministry within three months.	Provided.
10	Monitoring of ground and surface water quality (if any nearby) shall 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.	Ground and surface water quality is regularly monitored. The reports of the same is submitted to KSPCB monthly. <b>Refer Chapter No:17</b> testing of heavy metal in ground water done and copy enclosed.
11	A well designed rainwater harvesting shall be put in place. Central Groundwater Authority/ Board shall	Rainwater recharge pits are constructed to increase the ground watertable of the area. Rain & storm

	be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date issue of clearance and details shall be furnished. Status of implementation shall be submitted to the Regional Office of the Ministry.	water collection and ground recharge system adopted please <b>Refer Chapter No:18</b> for details.
12	The treated effluents conforming to the prescribed standards only shall be reused to the extent possible and excess discharged. Arrangements shall be made that effluents and storm water do not get mixed.	RO/DM plant reject is sent to ETP for treatment and treated water is used for green belt and irrigation.
13	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation. Continuous monitoring of effluent discharge shall be undertaken and it shall be ensured that when discharge enters the natural drain the temperature of effluent shall be at ambient.	Domestic wastewater generated disposed to septic tank and soak pit
14	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires 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.	Safety measures are provided in the plant and sufficient no of fire extinguishers are provided. The detail of fire extinguish& hydrant system installed is enclosed please <b>Refer Chapter No:32</b> .
15	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA at 1m from the source of noise. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be	During stage of procurement of turbine & other power plant access it is taken care that the noise level of individual unit should not cross 75dBA measure long distance from source. The regular noise monitoring recording done please <b>Refer Chapter No: 17 &amp;23</b> test reports enclosed.

	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 non noisy/less noisy areas.	
16	Regular monitoring of ground level concentration of SO <sub>2</sub> , NO <sub>x</sub> , RSPM (PM <sub>10</sub> & PM <sub>2.5</sub> ) etc. 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.	Regular monitoring of ambient air quality for PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>2</sub> and reports of the same is submitted to KSPCB regularly.
17	Time bound action plan for implementation of issues raised in public hearing shall be submitted to the Ministry within three months	Action taken for issue raised in public hear is enclosed <b>Refer Chapter No:51.</b>
18	An amount of Rs 0.34 Crores shall be earmarked as one time capital cost for CSR programme. Subsequently a recurring expenditure of Rs 0.06 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within one month along with road map for implementation.	Social activities such as medical camps / awareness programmes, farmers education programmes and Culture / sports programmes are regularly conducted. The expenditure done during last financial year & current year is enclosed please <b>Refer Chapter No:14.</b>
19	As part of CSR programme the company shall conduct need based assessment for the nearby villages to study economic measures with action plan which can help in upliftment of	As a part of CSR programme trainings will be carried out to the nearby farmers and employment is given to the local people. Detail CSR activity carried along with photos are

	poor section of society. Income generating projects consistent with the traditional skills of the people besides development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. This will be in addition to vocational training for individuals imparted to take up self employment and jobs.	attached at <b>Refer Chapter No: 14.</b>
20	It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.	Will be adhered accordingly
21	Green Belt consisting of 3 tiers of plantations around the plant of 50 m width and adequate tree density not less than 2500 per ha with survival rate not less than 75 % shall be developed. In areas where 50 m width is not possible adequate justification shall be submitted to the regional Office of the Ministry	We have already planted 6730 plants and planning to plant another 5000 saplings towards green belt development in 24.5 Acres of land. The green belt area developed and proposed area details shown in plant layout drawing & photo copy of green belt area attached please <b>Refer Chapter No:15.</b>

#### **B. General Conditions:**

1	Storage facilities for auxiliary liquid fuel such as LDO and/ HFO/LSHS (if any) 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	Statute clearance obtained from various department like: Chief Controller of explosive, fire department details attached please <b>Refer Chapter No:50.</b>
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	case of an accident taking place due to storage of oil.	
2	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Facilities like Urinals, Toilets, Bathrooms, First aid etc were provided for the construction labourer.
3	Provision shall be made for the housing of construction labourers 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.	Temporary labour camps were provided with all necessary facilities to the construction labourers
4	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 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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> .	Paper ad was given after receiving EC. The same was submitted to RO, MoEF. Copy of advertisement attached please <b>Refer Chapter No:38</b> .
5	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, ZilaParisad / 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.	We have sent clearance copy to local authorises and copy is uploaded in our website <a href="http://www.niranigroups.com">www.niranigroups.com</a>
6	An Environmental Cell shall be created at the project site itself and shall be headed by an officer of appropriate	Environmental cell constituted. The member list and minutes of monthly meeting is attached please <b>Refer</b>

	seniority and qualification. It shall be ensured that the head of the Cell shall directly report to the head of the organization.	<b>Chapter No:16</b>
7	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.	Regularly monthly monitoring results uploaded in to website & reports were sent to regional office.
8	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well by e- mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.	Attached the six monthly reports on the status of compliance include monitory results please <b>Refer Chapter No: 13</b>
9	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.	Attached six monthly reports is attached please <b>Refer Chapter No:13.</b>
10	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	Six month compliance status is uploaded in website and at main gate pollutants levels including non displayed copy of same is attached please <b>Refer Chapter No: 13.</b>



	additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will upload 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 <sub>x</sub> (from stack & ambient air) shall be displayed at the main gate of the power plant and in public domain.	
11	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost 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.	Details of expenditure made for implementation of environment protection measures is enclosed please <b>Refer Chapter No:52.</b>
12	The project authorities shall inform the Regional Office as well as the Ministry 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.	Details are attached at <b>Refer Chapter No:49.</b>
13	Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Bangalore / CPCB/ SPCB who would be monitoring the compliance of environmental status.	During monitoring the compliance by authority factory provided full co-operation.
14	The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry. The Ministry may also impose additional environmental conditions or modify the existing ones, if necessary.	Accepted
15	The environmental clearance accorded <b>shall be valid for a period of</b>	Plant already started.

	<b>five years</b> to start operations by the power plant.	
16	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted
17	In case of any deviation or alteration in the project proposed including coal transportation system from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(s) imposed and to add additional environmental protection measures required, if any.	Change in the scope of the project is informed to SEIAA, Karnataka
18	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and its amendments (as may be issued), the Public Liability Insurance Act, 1991 and its amendments	Agreed