

# State Level Environment Impact Assessment Authority, Rajasthan

4, Institutional Area, Jhalana Doongri, Jaipur-302004

Phone: 0141-2705633, 2711329 Ext. 361

No: F 1(4)SEIAA/SEAC\_Raj/Sectt./Project/Cat(1(d)(B1)(158)/08-09 Jaipur, Dated: 10 JUL 2009

To,  
M/s Indeen Biopower Ltd.,  
268, Masjid Moth,  
Near Uday Park,  
New-Delhi-110049

Sub: EC for 8MW Biomass based Power Project at Village-Saroli, Distt. Tonk. (18.7 ha) by  
M/s Indeen Biopower Ltd., 268, Masjid Moth, Near Uday Park, New-Delhi-110049.

Sir,

This has reference to your application No. Nil dt. 10.7.2008 & No. Nil dt. 1.6.07, 16.04.09 seeking environmental clearance for the above project under EIA Notification 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification 2006 on the basis of the mandatory documents enclosed with the application viz. the questionnaire, EIA, EMP and additional clarifications furnished in response to the observation of the State Level Expert Committee Rajasthan, in its meeting held 24-4-2009.

2. It is interalia noted that the project is Category "B-1" & Item No.(in the Schedule) 1 (d) Plot Area is 18.7 ha., Expected cost of project is Rs 42.00 cr. Production Capacity is 8 MW biomass based Thermal Power Plant. Water Requirement & Source are 91.00 M<sup>3</sup>/day and bore well.

3. The SEAC Rajasthan after due considerations of the relevant documents submitted by the project proponent and additional clarifications/documents furnished to it have recommended for Environmental Clearance with certain stipulations. The SEIAA Rajasthan after considering the proposal and recommendations of the SEAC Rajasthan hereby accord Environmental Clearance to the project as per the provisions of Environmental Impact Assessment Notification 2006 and its subsequent amendments, subject to strict compliance of the terms and conditions as follows:

- i. Management shall obtain prior Consents to Establish under Water (Prevention and Control of Pollution) Act' 74 and Air (Prevention and Control of Pollution) Act, 1981.
- ii. A conical stack of 65 meters height with exit velocity at 6.8 m/sec of gases shall be provided with continuous on-line monitoring system. Data collected shall be analyzed and submitted regularly to RPCB and the Regional office of MoEF at Lucknow.



- iii. The management should submit justification on why it is not installing air cooled condenser in the project as specified by the MOEF TOR dated 10.09.08 as that would reduce water consumption of the project to a large amount.
- iv. Continuous stack monitoring facilities to monitor gaseous emissions from all the stacks shall be provided to control emissions within limits by installing adequate air pollution control system like bag filters, dust collectors, ESP etc. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.
- v. Water requirement shall not exceed **91 m<sup>3</sup>/day** out of which fresh water abstracted from under ground reserves shall be limited to as permitted by the CGWA New Delhi and the balance shall be the treated water.
- vi. Industrial wastewater generated shall be treated in ETP, whereas the domestic wastewater shall be treated in STP. Treated effluents shall be used to meet daily needs and the balance volume shall be used for dust suppression, sprinkling in ash handling and green belt development. No discharge of effluents directly or indirectly shall be done outside the plant boundary.
- vii. As proposed, an ESP shall be installed connected with the ash handling system.
- viii. Only one DG set of capacity 250 KVA (with stack height as per the standards put in force by RPCB) shall be installed to take care of power failure and other emergencies.
- ix. Closed circuit cooling with cooling towers shall be provided.
- x. The PP shall ensure one-year storage of biomass at/around the site. At bio-mass storage yard, adequate and effective arrangements shall be made for the proper circulation of air to prevent "Methane Generation", which would otherwise result into fire/other hazard.
- xi. Ash generated 50 TPD (from boiler, economizer, air pre-heater and ESP) shall be collected in dry form, handled as proposed and disposed in a phased manner as per provisions of the notification on Fly Ash Utilization issued by the Ministry in September, 1999 (amendment till date) or in other environment-friendly manner such as use as fertilizer, compost supply to farmers or fuel/filler by brick manufacturers.
- xii. Electrostatic Precipitators (ESP) with 99.9% efficiency shall be installed to limit particulate emission up to 100 mg/Nm<sup>3</sup>. In the event of non-functioning of ESP, the power plant should be shut down.
- xiii. Fugitive dust emissions shall be controlled as per CPCB guidelines on Fugitive Dust Emissions.
- xiv. The power shall be generated at 11 KV level and stepped up to 33 KV. The synchronization shall be done with 132 KV bus bar systems available at 132/33/11 KV sub station at 6 km. distance however, ensuring minimum losses.
- xv. The hazardous waste generated shall be disposed in accordance with provisions under the "Hazardous Wastes (Management, Handling and Transboundary Movement) Rules 2008.
- xvi. The power purchase agreement to be signed between the PP and any other larger group (second party) shall incorporate the condition that, the second party shall sell the power, purchased from the first party, within Rajasthan only.



- xvii. Plantation shall be carried out on an area of 76,260 M<sup>2</sup>. The peripheral plantation shall have a width measuring 20 meters. Total number of trees grown in 5 years shall be at least 7,626. Every year due care shall be taken to replace the casualties.
- xviii. The management shall provide an effective rainwater harvesting system and optimise the cost of conservation. Central Groundwater Authority/Board shall be consulted for finalization of appropriate water harvesting scheme/structures within a period of three months from the date of clearance.
- xix. Infrastructure facilities including sewage treatment and its sanitary disposal, first aid and shall be made for the project personnel/contract labour and drivers during construction phase.
- xx. Regular monitoring of ground water in and around the ash disposal area shall be carried out, records maintained.
- xxi. Regular monitoring of the air quality shall be carried out in and around the power plant and records be maintained. All air, water and other monitoring shall be carried out through a MOEF/ NABL/CPCB/ Govt approved laboratories. Six monthly reports shall be submitted to the RPCB and the Regional Office of this Ministry at Lucknow.
- xxii. Leq of noise level shall be limited to 75 dB (A) and regular maintenance of equipment is undertaken. For people working in the high noise area, earplug shall be provided.
- xxiii. Regular monitoring of the air quality shall be carried out in and around the power plant and records be maintained. Six monthly reports shall be submitted to the RPCB and the MoEF, Regional Office of Lucknow.
- xxiv. For controlling fugitive dust, regular sprinkling of water in lignite storage area and other vulnerable areas of the plant should be ensured.
- xxv. Effective fire fighting system should be provided and mock drills be carried out as per fire & safety rules.
- xxvi. The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which should be in the vernacular language of the locality concerned, informing that the project has been accorded environmental clearance and copies of clearance letters are available with the SEIAA, Rajasthan and RPCB.
- xxvii. A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.
- xxviii. Educational and Skill mapping shall be carried out by the PP on the basis of secondary data and submitted to RPCB/CPCB and the MoEF, Regional Office at Lucknow.
- xxix. Post project monitoring shall be carried out as proposed and half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to the RPCB/CPCB and the MoEF, Regional Office at Lucknow.
- xxx. RPCB and the Regional Office of the Ministry of Environment & Forests located at Lucknow shall monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact assessment. Report and Management Plan shall be forwarded to the Member



Secretary, RPCB and Regional Officer of the MoEF at Lucknow for use during monitoring.

xxxi. Full cooperation should be extended to the Officers of RPCB/ CPCB/ MoEF Regional Office at Lucknow/who would be monitoring the compliance of environmental status.

xxxii. The environmental clearance is subject to any litigation pending before any courts of law in the State/Country, if any.

4 The SEIAA, Rajasthan reserves the right to add new, annul/modify existing stipulated conditions, and/or revoke the clearance if these conditions are not implemented to its satisfaction, in the interest of environment protection.

5 The environmental clearance accorded shall be valid for a period of 5 years to the start of production operation by the power plant.

6 In case of any deviation or alteration in the proposed project from that submitted for clearance, a fresh reference should be made to the SEIAA, Rajasthan to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

7 Necessary permission should be obtained from the Chief Controller of Explosives and Factory Inspectorate for the Storage of lignite.

8 The above stipulations shall be enforced along with others as 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, The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989, Hazardous Wastes (Management and Handling) Rules, 2008, the Public Liability Insurance Act, 1991 and rules there under.

9 Document to be provided at the time of applying to RPCB for Consent to Establish/Operate:

- A Traffic census and Traffic Management Plan to be provided. This is required in view of the fact that the biomass is available in limited month of the year and that biomass collection during peak season shall require large number of vehicles to move in the area.
- Fire Fighting Plan.
- Resubmit Water demand and water balance taking into account the committee observation.
- Plan for the kind of Trees to be grown along the periphery.
- Source and period of Socio Economic data used in the report to be provided.
- Source of data and date of collection to be as per the TOR.
- The project proponent should submit a commitment to take up the project for CDM and design the project to meet such intent.



- A Voluntary commitment of the Social responsibility activities to be undertaken by the project proponent and the budgeted amount proposed for such activity.

**Yours faithfully,**

*Sd~*  
**(Sankatha Prasad)**  
**Member Secretary**  
**SEIAA Rajasthan**

**Copy to following for information and necessary action:**

1. Secretary, Ministry of Environment and Forest, Govt. of India, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi.
2. Principal Secretary Environment Department, Rajasthan, Jaipur .
3. Shri S.C. Derashri, Chairman, SEIAA Rajasthan, 90, Geejgarh Vihar, Hawa Sarak, Jaipur.
4. Shri R.S. Bhandari, Member, SEIAA Rajasthan, 2- Museum Road, Ram Niwas Bagh, Jaipur.
5. Member Secretary, Rajasthan State Pollution Control Board, Jaipur.
- ✓ 6. Member Secretary, SEAC Rajasthan.
7. The CCF, Regional Office. Ministry of Environment & Forests, RO(CZ), Kendriya Bhawan, 5<sup>th</sup> Floor, Sector 'H', Aliganj, Lucknow-226 020.
8. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.

*ty*  
**M.S. SEIAA (Rajasthan)**