

State Level Environment Impact Assessment Authority, Rajasthan
4, Institutional Area, Jhalana Doongri, Jaipur-302004
Phone: 0141-2705633, 2711329 Ext. 361

No: FI(4)/SEIAA/SEAC-Raj/Sectt/Project/Cat.1(d)B1.(260)/10-11

Jaipur, Dated:

120 JUL 2010

To,
M/s Banswara Syntex Limited,
Industrial area, Dohad Road,
Banswara-327001

Sub: EC for setting up of a 15 MW Coal based Captive Power Plant at Banswara

Sir,

This has reference to your application no. BSL:VPE-10/3183 dated 02.02.10 seeking environmental clearances 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 on 26/27.5.10.

2. Brief details of the Project:

- 1. Category / Item no. (in Schedule): 1 (d), B-1
- 2. Location of Industry/Project:- Khasra No. 825, village-Bapaur, Tehsil & District- Banswara, Located in the existing premises of M/s Banswara Syntex Ltd., RIICO Industrial Area, Dohad Road, Banswara.
- 3. Plot Area:- Total plot area of the factory premises is not indicated, Area required for proposed plant is 7.5 ha, including 2.5 ha. for green belt development. This land is part of total area of the existing premises.
- 4. Capacity:- 15 MW Coal Based Captive Thermal Power Plant.
- 5. Expected Cost:- Total Rs. 46.52 Crores. (Including Rs. 3.0 crores Environmental Management Cost)
- 6. Water Requirement & Source:-

Domestic water demand	-	1.00	m ³ /day
Industrial water demand	-	1,536.00	m ³ /day
Total water demand	-	1,537.00	m ³ /day

Source: (1) Surface water from Kagdi pick up weir reservoir.
(2) Permission for maximum supply of 64.65 M.c.ft. water/annum granted by Mahi Dam Division (Water Resources Deptt., GoR) vide agreement dt. 31.10.2006.
- 7. Fuel & Energy:-

(1) Use of 100% imported coal having GCV of 6000 Kcal/kg.	=	200 MT/day
OR		
Use of 70 % lignite & 30 % imported coal having GCV of 4000 Kcal/kg & 6000 Kcal/kg. respectively	=	326 M.T./day
(2) For construction, power to be consumed for 6 months	=	70 units/hour
(3) For operation, power to be consumed	=	10% of total generation
- 8. Environment Management Plan:- Proposal indicates a provision of Rs. 3.0 crores towards Environment Management Cost.


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. This EC is granted for 15 MW (1*15 MW) Coal Based Captive Thermal Power Plant.
- ii. The Proponent shall obtain prior Consent to Establish and Consent to Operate from Rajasthan State Pollution Control Board under Water (Prevention and Control of Pollution) Act' 74 and Air (Prevention and Control of Pollution) Act, 1981. All the condition stipulated by Rajasthan State Pollution Control Board shall be strictly implemented.
- iii. No additional land in excess of the existing premises of 7.5 ha, shall be acquired for any activity of the project.
- iv. Imported coal with ash content not exceeding 10% and sulphur content not exceeding 0.8% shall be used.

- v. The proponent may explore the feasibility of cleaning or desulphurising of coal or adopting application of technologies such as carbon capturing and storage
- vi. A stack of 73 m height with exit velocity of not less than 20 m/sec shall be provided with continuous On-line monitoring system. Data collected shall be analyzed and submitted regularly to the Regional office of the MoEF at Lucknow and R.O., RPCB, Udaipur.
- vii. High efficiency Electrostatic Precipitator (ESPs) shall be installed so as to ensure that particulate emissions do not exceed 100 mg/Nm³ or as prescribed by RPCB. The ESP will be interlocked with the boiler so that, in the event of non-functioning of ESP, the power plant shuts down instantly. The ESP shall be connected with the ash handling system.
- viii. Circulating Fluidized Bed Combustion (CFBC) boilers with lime injection shall be installed.
- ix. Fly ash shall be collected in dry form and 100% fly ash utilization shall be ensured from day one and sent to brick manufacturers and cement industry or disposed of in environment-friendly manner as per provisions of the notification on Fly Ash Utilization issued by the Ministry in September, 1999 (amendment till date). The project proponent shall enter into long term contracts with brick manufactures / cement manufacturers prior to start of the work. Ash disposal would be done through high concentration slurry disposal system on the lined pond. Fly ash utilization plan shall be submitted to the RPCB within six months. Ash generated shall be used in a phased manner in line the provisions under Fly Ash Notification 1999 (amended till date).
- x. Regular analysis of ash may be carried out for mercury content. The mercury content shall be less than 25 ppm
- xi. Water requirement shall not exceed 1,537 m³ /day. As envisaged, the water will be sourced from Kagdi pickup weir reservoir. The PP shall not abstract groundwater without prior clearance from Central Ground Water Authority (CGWA).
- xii. Closed circuit cooling towers shall be installed.
- xiii. Waste water generated shall be recycled and reused in the plant premises, for ash quenching, dust suppression, horticulture etc. The PP shall provide disinfection on domestic waste water treatment line. There shall be no discharge of waste water outside the plant boundary.
- xiv. Regular monitoring of ground water quality including heavy metals shall be undertaken in the project area to ascertain the change, if any, in the water quality.
- xv. The PP shall provide pollution control system right from handling of coal; fugitive emissions at all identified points. Dust suppression system and water sprinklers shall be provided for controlling fugitive dust during transportation, in coal storage area and other vulnerable areas of the plant.
- xvi. Rainwater harvesting shall be practiced. A detailed scheme for rain water harvesting to recharge the ground water aquifer shall be prepared in consultation with Central Ground Water Authority/ Central Ground Water Board and a copy of the same shall be submitted within three months to the RPCB.
- xvii. 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.
- xviii. A greenbelt shall be developed around the plant boundary with tree density of around 1800 tree per ha. The area under greenbelt shall be at least 33% of the total project area.
- xix. Infrastructure facilities including first aid and sanitation arrangement shall be made for the project personnel, contract labour, drivers etc. working during construction phase.
- xx. Regular monitoring of the ambient air quality shall be carried out in and around the power plant (mostly in the down wind directions) and records maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with the Rajasthan Pollution Control Board. Periodic, six monthly reports shall be submitted to the Regional Office of MoEF at Lucknow and RPCB. The PP shall make concrete efforts to reduce CO₂ emission to the atmosphere (calculated at the rate of 997 gm. of CO₂/kWh of power generated).
- xxi. Effective fire fighting system shall be provided and mock drills be carried out as per fire & safety rules.
- xxii. Separate funds amounting to Rs. 3.00 crores shall be allocated and earmarked for implementation of environmental protection measure along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measure shall not be diverted for other purposes and year-wise expenditure shall be reported to the RPCB and Regional Office of MoEF at Lucknow.
- xxiii. The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project within seven days of issue of the this letter, one of which shall be in the vernacular language of the locality concerned, informing that the project has been accorded environment clearance and copies of clearance letter are available with the SEIAA, Rajasthan and RPCB.
- xxiv. A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environment safeguards.
- xxv. 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 Regional Office of MoEF at Lucknow.

- xxvi. RPCB and Regional Office of the Ministry of Environment & Forests located at Lucknow 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 by the PP to these organizations for their use during monitoring.
- xxvii. Full cooperation shall be extended to the Scientists /Officers from the RPCB/ CPCB / Regional Office of the MoEF at Lucknow, who would be monitoring the compliance of environmental status.
- xxviii. The environmental clearance is subject to any litigation pending before any courts of law/tribunal/legal body in the State/Country, if any.
- xxix. 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.
- xxx. The environmental clearance accorded shall be valid for a period of 5 years to the start of production operations by the power plant.
- xxxi. In case of any deviation or alteration in the project proposed from those submitted to the SEIAA, Rajasthan 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.
- xxxii. Necessary permission shall be obtained, if required, from the Chief Controller of Explosives and Factory Inspectorate for the storage of coal based.
- xxxiii. The above stipulations shall be enforced along with 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, 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.
- xxxiv. A voluntary commitment of the Social responsibility activities to be undertaken by the project proponent and the budgeted amount proposed for such activity, shall be submitted by the PP to RPCB at the time of applying for CTE/ CTO.

Yours faithfully,


 (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, Gejgarh Vihar, Hawa Sarak, Jaipur.
4. Shri R.S. Bhandari, Member, SEIAA Rajasthan, 2- Museum Road, Ram Niwas Bagh, Jaipur.
5. Member Secretary, Rajasthan S.P. Pollution Control Board, Jaipur.
6. Secretary, SEAC Rajasthan.
7. The CCF, Regional Office, Ministry of Environment & Forests, RO(CZ), Kendriya Bhawan, 5th Floor, Sector 'H', Aliganj, Lucknow-226 020.
8. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.


 M.S. SEIAA (Rajasthan)