



State Level Environment Impact Assessment Authority (SEIAA)
Andhra Pradesh
Government of India
Ministry of Environment & Forests
A-3, Industrial Estate, Sanathnagar, Hyderabad- 500 018.

REGD.POST WITH ACK.DUE

Order No. SEIAA/AP/VZM-31/2010- 1279

Dt: 03-08-2011.

Sub: SEIAA, A.P. – M/s. Carbon Resources (P) Ltd., Plot No.1A & 1B, APIIC Growth Center, Bobbili (M), Vizianagram District -Environmental Clearance - Issued - Reg.

- I. This has reference to your letters dt. 25.05.2010, 25.05.2011 and 17.06.2011 seeking Environmental Clearance for the proposed **Calcined Petroleum Coke Plant** in the name of **M/s. Carbon Resources (P) Ltd., Plot No.1A & 1B, APIIC Growth Center, Bobbili (M), Vizianagram District**. The proposal has been examined and processed in accordance with EIA Notification, 2006 and its amendments thereof. The nearest human habitation viz., Burjalasa (V) exists at a distance of 1.0 km from the site. River Vegavati flows at a distance of about 2.0km from the site. The total area of the site is Ac.8.50. The total cost of the project is 50.0 Crores. It is noted that the production capacity of the project, for which Environmental clearance has been considered are as follows:

Calcined Petroleum Coke – 1,00,000 TPA
Carbon electrode Paste - 24,000 TPA
Electricity – 8 MW (Waste Heat Recovery Boiler).

- II. The State Level Expert Appraisal Committee (SEAC) examined the application in its meetings held on 25.06.2010 & 24.06.2011. The Committee considered the project proposal, and recommended for issue of Environmental Clearance. Project is exempted from the process of public hearing as it is proposed in a notified Industrial Estate. The State Level Environment Impact Assessment Authority (SEIAA), in its meeting held on 16.07.2011 examined the proposal and the recommendations of SEAC. It was decided to issue Environmental Clearance to the project. The SEIAA, A.P **hereby accords Environmental Clearance to the project** as mentioned at Para no. I under the provisions of the EIA Notification 2006 and its subsequent amendments issued under Environment (Protection) Act, 1986 subject to implementation of the following conditions/safeguards:

A. Specific Conditions:

a) Air pollution:

- i The fuel used in the Rotary Kiln is LDO (20 LPD). The hot gases emitted from the Kiln shall be routed through the WHRB to generate electricity. The waste gases are released into the atmosphere through stack of height 30 m. The particulate emissions from the stack shall not exceed 50 mg/Nm³, as committed during the presentation.
- ii In the calcination process, the material present in Raw Petroleum Coke is retained in the Calcined Petroleum Coke, except moisture and volatiles. Volatiles evolved during the process are introduced to the flue for complete combustion with the pre-heated air without any external fuel. The heat energy from the calciners is recovered through Waste Heat Recovery Boilers (WHRBs). The steam generated in WHRBs is used for generation of electricity. Thus, no process emissions are envisaged.
- iii On line monitoring devices with continuous recording facility shall be provided to monitor the stack emissions and ambient air quality. Energy meters shall be installed for all pollution control systems.
- iv The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, rotary cooler, bagging sections etc.,

- v Storage of raw material shall be under sheds. Appropriate dust suppression system shall be provided all around the stockpiles and conveyor system. All the roads in the plant area shall be asphalted / concreted and water shall be sprinkled to suppress the dust.
- vi In-plant control measures for checking fugitive emissions from all the vulnerable sources like spillage/raw materials handlings etc. shall be provided. Fugitive emissions shall be regularly monitored and records maintained.
- vii All the belt conveyors shall be covered with G.I. sheets.
- viii Ambient air quality including ambient noise levels must not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with APPCB and report submitted to the Board and to the Ministry's Regional Office at Bangalore half yearly.

b) Water Pollution:

- i It is reported in page no.26 of EIA report that the water will be supplied by APIIC. The total water requirement shall not exceed 800 KLD. Out of that 710 KLD is used for cooling purpose; 10 KLD for DM plant regeneration, 40 KLD for Steam generation in boiler and 20 KLD for development of green belt; 20 KLD for Domestic purposes.

Total waste water generation is 130 KLD. Out of that, 100 KLD from cooling bleed of; 10 KLD from DM plant regeneration, 10 KLD from boiler blow down; 10 KLD from Domestic section. No effluent shall be discharged outside the factory premises and 'zero' discharge shall be adopted. The treated waste water shall conform to on land for irrigation standards prescribed by the MoE&F,GOI. The treated industrial waste water is to be used for cooling purposes, development of greenbelt and floor washings. The domestic waste water shall be disposed into the septic tank followed by soak pit.
- ii The company must harvest the rainwater from the rooftops and storm water drains to recharge the ground water.
- iii Green belt in an area of 2.80 acres (33% of the site) shall be developed along the boundary in consultation with the local DFO.

Solid Waste :

- i It is reported that no solid waste is envisaged from the plant. Waste oils, used oils, hazardous waste generated from the industry shall be disposed as per the Hazardous Wastes (Management, Handling, and Transboundary movement) Rules, 2008 and its amendments thereof to the recyclers authorized by APPCB.

B. General Conditions:

- i. This order is valid for a period of 5 years.
- ii. "Consent for Establishment" shall be obtained from Andhra Pradesh Pollution Control Board under Air and Water Act before the start of any activity / construction work at site.
- iii. Provision shall be made for the housing of the construction labour within the site with all necessary infrastructure and facilities such as safe drinking water, fuel for cooking, mobile toilets, mobile STP, medical health care, crèche etc., The housing may be in the form of temporary structures to be removed after the completion of the project. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.
- iv. No change in the process technology and scope of working should be made without prior approval of the SEIAA, A.P.

- v. The proponent shall submit half-yearly compliance reports in respect of the terms and conditions stipulated in this order & monitoring reports in hard and soft copies to the SEIAA and Ministry's Regional office, Bangalore on 1st June and 1st December of each calendar year.
- vi. Officials from the Regional Office of MoE&F, Bangalore who would be monitoring the implementation of environmental safeguards should be given full co-operation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents shall be submitted to the CCF, Regional Office, MoE&F, Bangalore.
- vii. Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.
- viii. Data on ambient air quality should be regularly submitted to the Ministry including its Regional Office located at Bangalore and the State Pollution Control Board/ Central Pollution Control Board once in six months.
- ix. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
- x. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
- xi. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- xii. The funds earmarked for environmental protection measures (Capital cost of Rs. 1.50 crores and Recurring cost Rs. 30 lakhs per annum) should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the SEIAA and Ministry's Regional Office located at Bangalore.
- xiii. A copy of clearance letter shall be marked to concerned Panchayat/local NGO, if any, from whom suggestion / representation has been received while processing the proposal.
- xiv. State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Center and Collector's Office /Tehsildar's Office for 30 days.
- xv. The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and SEIAA, A.P. This order shall be displayed in the website of the project proponent.
- xvi. The SEIAA or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- xvii. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.
- xviii. Any appeal against this Environmental Clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.
- xix. The company shall undertake eco-development measures including community welfare measures in the project area.
- xx. The proponent shall obtain all other mandatory clearances from respective departments.

- xxi. Concealing the factual data or 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.
- xxii The SEIAA may revoke or suspend the order, if implementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- xxiii The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

Sd/-
MEMBER SECRETARY
SEIAA, A.P.

Sd/-
MEMBER
SEIAA, A.P.

Sd/-
CHAIRMAN,
SEIAA, A.P.

To

Mr. Abinav Jalan, Director,
M/s. Carbon Resources (P) Ltd., (unit at Bobbili)
Narayani Niwas, New Barganda,
Giridih, Jharkand - 815 301.

//T.C.F.B.O//


JOINT CHIEF ENVIRONMENTAL ENGINEER (CFE)