

State Environment Impact Assessment Authority,
2nd Floor, Beltron Bhawan, Shastri Nagar, Jawhar Lal Nehru Marg, Patna- 800023

Ref. No.

To,

Mr. Gopal Krishna Gupta
Krishna Hydrocarbons Pvt Ltd.,
Krishna Kutir, Mungeriganj,
Begusarai, Bihar

Sub:- Environmental Clearance for the proposed Calcined Petroleum Coke.

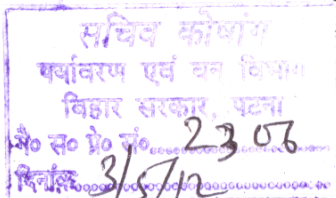
Sir,

This has reference to your application No.-0 dated 15/6/2011 and subsequent communications for Environmental Clearance for the proposed Calcined Petroleum Coke at 57(P) & 77 (P), Tehsil, Tirath, at Industrial Area Barauni, Begusarai.

The proposal has been examined and processed in accordance with the EIA Notification of 2006. It is noted that the proposed proposal is setting up of Calcined Petroleum Coke at 39, Barauni Industrial Area, Begusarai.

It is also noted that the salient features of the project for which Environmental Clearance has been considered are as follows.

1. Name of the Project: Calcined Petroleum Coke Project
2. Project Location: Barauni Industrial Area near Barauni Refinery
57(P) & 77(P), Tehsil: Tirlath
District: Begusarai (Bihar)
3. Land Area: 1.895 Acres (Industrial land)
4. Water Requirement: 10m³/hr from the ground water source (3m³/hr circulating type + 7m³/hr consumable)
5. Power Requirement: 120 KVA through Bihar State Electricity Board's nearby substation
Alternative Power Supply: 100% captive D.G. power generating sets
6. Raw materials: Raw Petroleum Coke (CPC) from nearby Barauni Refinery; Annual Requirement: 26, 520 tons/year
7. Emission Sources: Emission of particulate matter from stack (Expected emission 110-120mg/m³) due to dust generated within rotary kiln during pyro-processing.



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8. Total Cost of the Project: 620.53 Lakhs

M/s Krishna Hydrocarbons Pvt. Ltd. proposes to manufacture Calcined petroleum coke with the production capacity of 19, 500 MT/annum. As the Unit is located in Barauni Industrial Area and, the decision was taken in the SEAC meeting held on 26.11.2011 to exempt the project proposal from EIA and Public Hearing. In this unit, the pollution is due to the emission of particulate matters from the stack due to dust generated within the rotary kiln during Pyro-processing.

The calcination of petroleum coke involves heating upto 1275°C resulting in drying, pyrolysis and chemical changes. The moisture and volatile matters are removed from the raw petroleum coke which passes through an expansion and contraction phase prior to attainment of the final density and well defined electrical conductivity and mechanical characteristics. The exhaust gases from the kiln shall contain CO₂, NO_x, SO₂, CO, H₂ and C as particulate matter. These gases are incinerated as a pollution control measure prior to dedusting. For this cooled gases are treated in high efficiency cyclones thus achieving norm of particulate matter within 120 mg/m³. Additional Air is used in combustion chamber. No solid waste will be generated by the proposed activities. Ambient Noise Level is proposed to be maintained in the range of 65-75 db(A) within the factory premises.

CONDITIONS FOR ENVIRONMENTAL CLEARANCE FOR THE PROPOSED PROJECT OF KRISHNA HYDROCARBON PVT. LTD., Tilrath, Barauni, Bihar.

• **SPECIFIC CONDITIONS:**

1. The gaseous emissions from various process units should conform to the load/mass based standards prescribed by the Ministry of Environment & Forests and the State Pollution Control Board from time to time. The emission level should not exceed the prescribed limit.
2. The stack emission from kiln shall not exceed the CPCB norms and crushing section shall be under closed shed.
3. Regular monitoring of the air quality shall be carried out in the plant and record shall be maintained for verification by SPCB.
4. Regular water sprinkling should be done on the roads inside the plant and other high dust potential areas.
5. Groundwater shall not be abstracted without prior permission of competent authority i.e. Central Ground Water Board.
6. No effluent shall be discharged – Zero discharge should be maintained. Cooling water shall be recycled in the process.
7. All transfer points in material flow routes shall be provided with suction device & dedusting system to take care of fugitive dusts.
8. Solid waste viz. dust generated shall be properly recycled and reutilized in the process.
9. Transportation of Raw Petroleum Coke to the Plant should be brought through covered trucks to storage yard without air pollution at transfer points.
10. Generators, if any, must be housed in acoustic enclosure and should meet the CPCB norms.

11. Occupational Health and safety of workers should be ensured. Workers should be provided with adequate personnel protective equipment and sanitation facilities. Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
12. Adequate measures to be adopted to ensure industrial safety. Provide fire fighting system in the plant area as per factory Act/Rules.
13. All internal roads should be concrete/pitched. Proper lighting and proper pathway inside the factory premises should be constructed to ensure safe vehicular movements.
14. Green belt shall be developed within and around the plant premises for around 33% of leased area. Selection of appropriate species for the plantation programme may be done in consultation with the Environment & Forest Deptt., Bihar.
15. Ambient noise level should not exceed the permissible limit. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silence, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB(A) (daytime) and 65 dB(A) (nighttime)
16. Stack height of the D.G. set shall be as prescribed by CPCB.

• **GENERAL CONDITIONS:**

- i. The Project proponent shall comply with all the environment protection measures and safeguards recommended.
- ii. All the conditions, liabilities and legal provisions contained in the EC shall be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other entity.
- iii. All the labourers to be engaged for construction works should be screened for health and adequately treated before issue of work permits.
- iv. The project proponent should make financial provision in the total budget of the project for implementation of the environmental safeguards. The project authorizes will provide requisite funds both recurring and non-recurring to implement the conditions stipulated by the SEIAA along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.
- v. No further expansion or modifications in the plant should be carried out without prior approval of the State Environmental Impact Assessment Authority.
- vi. The Bihar State Pollution Control Board, who would be monitoring the implementation of environmental safeguards, should be given full cooperation, facilities and documents/data by

the project proponents during their inspection. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to the BSPCB regularly. A complete set of all the documents should also be forwarded to the State Environmental Impact Assessment Authority. This report shall also be put on the website of the Company and also be updated regularly.

- vii. In the case of any change(s) in the scope of the Project, the project would require a fresh appraisal by SEIAA.
- viii. The State Level Environment Impact Assessment Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1989, to ensure effective implementation of the suggested safeguard measures in a time-bound satisfactory manner.
- ix. The Project Proponent should inform the public that the project has been accorded environmental clearance by the SEIAA and copies of the clearance letter are available with the SEIAA Secretariat and may also be seen at Website. This should be advertised by the project proponent within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned.
- x. Prior Consent-to-Establish (NOC) for the proposed project must be obtained from BSPCB before commencement of construction. All other statutory clearances should be obtained by project proponent from the competent authorities.
- xi. The environmental clearance accorded shall be valid for a period of 5 years for the proposed project. The above stipulations would be enforced along with those under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1989, the Hazardous Wastes (Management and Handling) Rules, the Public Liability Insurance Act, 1991, the Environment Impact Assessment Notification, 2006 and their amendments as applicable.

Yours faithfully,

Sd/-

(S.K. Karn)
Member Secretary,
SEIAA, Bihar

Memo No. :-

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Patna, 24.4.12

Copy forwarded to : The Principal Secretary, Environment & Forests Department, Vikash Bhawan, Patna/
The Chairman, Bihar State Pollution Control Board, Beltron Bhawan, IInd Floor, LBS Nagar, Jawahar Lal
Nehru Marg, Shastrinagar, Patna- 800023/Chairman, SEAC, Bihar/Chairman, Central Pollution Control
Board, Parivesh Bhawan, East Arjun Nagar, Delhi-23/ Chief Conservator of Forest (C), Ministry of
Environment & Forests, Regional Office (EZ), A/3, Chandrasekharapur, P.O. Rail Vihar, Bhubaneswar -
751023/, Advisor (EIA), Paryavaran Bhawan, Ministry of Environment & Forests, CGO Complex, Lodhi
Road, New Delhi- 110003/ Gurad File.



(S.K. Karn)
Member Secretary
SEIAA, Bihar