



STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA), ODISHA

{ Constituted vide order No. S.O. 1899 (E) Date 17th August, 2012
Ministry of Environment & Forest, Govt. of India, Under Environment Protection Act, 1986.}
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No. 616/SEIAA
From

Dt. 11.04.14

Shri S.B. Samant, IFS
Member Secretary,
State Environment Impact Assessment Authority, (SEIAA) Odisha,
Bhubaneswar

To

M/s Kalinga Calciner Ltd.
At-Udayabata, Tahasil-Kujanga
Dist-Jagatsinghpur, Odisha

Sub: Proposed 2,20,000 TPA calcined petroleum coke project with 75 TPH (15 MVA) WHRB power plant by M/s Kaling Calciner Ltd.- environmental clearance regarding.

Sir,

The proposal of proposed 2,20,000 TPA calcined petroleum coke project with 75 TPH (15 MVA) WHRB power plant of M/s Kalinga Calciner Ltd. at Udayabata, Tahasil-Kujanga in the district of Jagatsinghpur was considered for Environmental Clearance by the State Environment Impact Assessment Authority (SEIAA) in its 107th meeting held on 5th April, 2014, as per Order of the Hon'ble National Green Tribunal, New Delhi.

The SEAC, Odisha have earlier given their recommendation of the proposal in its meeting held on 15th March, 2014 and 19th March 2014, taking into consideration the complaint received from applicant of M.A. No. 700 of 2013 before the Hon'ble National Green Tribunal (NGT) regarding gross violation of Environment (Protection) Rules, 1986 by M.s Kalinga Calciner Ltd. by starting construction of the plant at the above location without obtaining prior environmental clearance.

In the above backdrop, SEAC, Odisha vide their letter no. 244/SEAC-misc-02 dated 26.03.2014 addressed to the Member Secretary, SEIAA Odisha in the matter of Environmental Clearance to M/s Kalinga Calciner Ltd, SEAC have made necessary examination and have submitted its recommendation taking into consideration the observations made by the Hon'ble National Green Tribunal (NGT), New Delhi.

The Hon'ble National Green Tribunal (NGT) in their Order dated 26.02.2014 have granted liberty to the applicant in M.A. No. 700 of 2013 to file objections if any within one

week before SEIAA, Odisha which may in turn consider the same before passing final order in accordance with law.

In their order dated 26.02.2014, the Hon'ble National Green Tribunal (NGT) have observed that

- i) The project proponent admittedly established the project without obtaining the environmental clearance, though with the consent of the State Pollution Control Board, and
- ii) Directed SEIAA to consider
 - a) As to what compensation the Project Proponent should be directed to pay for having established the unit without prior environmental clearance and
 - b) What stringent conditions should be imposed for future purpose.
- iii) The payment of compensation so determined shall be a condition precedent to grant of environmental clearance.

In the light of the above observations /directions contained in the said order of the Hon'ble NGT, the SEAC in its meeting held on 15th March, 2014 & 19th March, 2014 have discussed and communicated to SEIAA that,

a) **Representation submitted by the applicants in MA. No 700 of 2013** is only reiteration of all the issues / concerns raised earlier and all aspects raised in the representation have already been addressed while recommending the case for grant of Environmental Clearance on 24.01.2014.

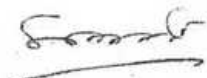
b) Determination of compensation

As per order of the Hon'ble NGT and the recommendation of SEAC, the points of reference to consider was,

- 1) "As to what compensation that the project proponent should be directed to pay for having established the unit without obtaining prior environmental clearance".
- 2) The payment of compensation so determined shall be a condition precedent to grant of EC.

In view of the recommendation received from SEAC, Odisha and considering the magnitudes of environmental cost laid down by U.S. Manufacturing Industries, the SEIAA, Odisha have decided that the project proponent be charged 1% of the total project cost as a penal compensation for having established the unit without obtaining the requisite environmental clearance. This works out to Rs.1.2 crores. This compensation payable by the project proponent is just appropriate and stringent to act as a deterrent.

c) **Stringent conditions should be imposed for future purposes.**



While recommending the proposal for grant of Environmental Clearance for a period of 5 years, the SEAC, Odisha have stipulated 47 specific conditions and 19 general conditions.

Hence, based on the information /documents provided by the project proponent and on recommendation of SEAC, the SEIAA, Odisha hereby accords Environmental Clearance in favour of the project for a period of 5 (five) years under the provisions of EIA Notification, 2006 & 2009 and subsequent amendments thereto under various MoEF, Govt. of India circulars thereunder subject to prior payment of compensation of Rupees 1.2 crores as determined by SEIAA, Odisha in accordance with the order of Hon'ble NGT dated 26.02.2014. The project proponent is required to give a written commitment to implement all the conditions (both specific and general) stipulated below with all seriousness in letter and spirit.

A. SPECIFIC CONDITIONS

1. The proponent shall provide WHRB to generate power utilizing waste heat gas from Rotary kilns.
2. The construction material which has potential to be air borne, shall be transported in covered trucks.
3. The height of the stack attached to the D G sets shall conform to the following.
 $H = h + 0.2 \text{ KVA}$
where

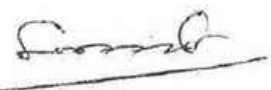
h = Height of the building where it is installed in meter

KVA = Capacity of D.G Set

H = Height of the stack in meter above ground level
4. The particulate emission from all vents / stacks connected to the bag filters shall not exceed 50 mg/Nm^3 . Height of the stacks/ vents shall not be less than 20 mtrs. The unit shall provide port hole and platform at suitable location on the stack with safe approach to conduct emission monitoring.
5. The unit shall install ESP followed by scrubber in the stack attached to rotary kilns such that particulate matter emission shall not exceed 50 mg/Nm^3 . They should make provision for one spare field during the design of ESP. If more than one field of ESP fails, the plant should trip automatically through an interlocking system.
6. The connectivity of pipeline between rotary kiln (combustion chamber) and chimney should be removed. The exhaust gas should be sent to the chimney through ESP and scrubber.
7. Additional scrubber is to be installed for standby purpose to take care of SO_x , NO_x absorption and other gases.



9. Ploymyer based chemical is to be added in water for dust suppression.
10. SO₂ Scrubber should be operated with soda ash solution.
11. Conveyor should be replaced with pipe type closed conveying system.
12. The proponent shall store the raw petroleum coke, as well as calcined petroleum coke under covered shed to prevent dust getting wind borne.
13. The proponent shall ensure transportation of raw petroleum coke from port to plant site under covered truck to prevent dust getting wind borne.
14. Storage of raw material shall not be more than 20days consumption.
15. Both Dust suppression (dry fog) and extraction (bag filter) system shall be provided at all dust generating source such as crushing, screening & material transfer points etc.
16. The suction points of dust extraction system shall be provided at primary crusher discharge Chute, screen, all transfer points and any other dust generating sources.
17. Work zone area including roads inside the plant premises shall be black topped/concreted. Permanent high pressure water sprinkling system shall be installed for regular spraying of water on roads to minimize fugitive dust emission.
18. The proponent shall install continuous on line ambient air quality and stack monitoring system with display facilities at gate.
19. High boundary wall shall be provided around the factory premises which will act as dust barrier.
20. All Pollution control equipment may be provided with separate electricity meter for continuous recording of power consumption: Non-functioning of Pollution control equipment should be recorded in the same logbook along with reasons for not running the Pollution Control equipment.
21. Good housekeeping practices shall be followed to improve the work environment.
22. All roads and shop floors shall be cleaned regularly.
23. Waste water generated from raw water treatment system shall be properly treated and reused for dust suppression.
24. Effluent generated from Soft water plant regeneration shall be properly treated and reused for dust suppression.
25. Cooling water shall be completely recycled with make-up water.



- Effluent generated from cooler discharge shall be treated in settling tank and recycled with make-up water.
26. Effluent generated from ventury scrubber shall be treated in settling tank and recycled with make-up water. For effective cooling of scrubber effluent shall be ensured.
 27. The storm water drain should be so designed that the industrial effluent does not have any access to it under any circumstances.
 28. The solid waste generated in form of carbon sludge from Ventury scrubber and dust from bag filters shall be properly disposed of without causing any public nuisance or environmental contamination.
 29. Sludge generated from raw water treatment plant shall be used for land filling and gardening.
 30. The proponent should provide full fledged environmental management cell and Head of environmental management cell should report to the unit head.
 31. Air compressor, DG set and other noise generating sources should be acoustically designed and should be housed in appropriate acoustic enclosures so that the noise level outside it shall conform to the prescribed norms.
 32. A green belt of adequate width and density preferably with local species (multi row tree plantation with well developed crown cover along the periphery of the plant) shall be raised so as to provide protection against particulates and noise. It must be at along side road, buildings / vacant spaces. It must be ensured that at least 33% of the total land area shall be under permanent green cover. It is advised that they may engage landscape designing professionals having experience / expertise in designing layouts in industrial plants for creation and maintenance of the green belt. The proponent shall ensure the maintenance of green belt throughout the year and for all time to come. An action plan for this purpose shall be prepared and shall be submitted accordingly.
 33. Stack monitoring facilities for all the major stacks and adequate air pollution control systems viz. dust extraction system, bag filters etc. to control particulate emissions within the prescribed limits shall be provided. Carbon mono-oxide (CO) shall also be monitored along with other parameters and standards notified under Environment (Protection) Act, 1986 shall be followed. The reports shall be submitted to the Ministry's Regional Office at the Bhubaneswar, SEIAA, Odisha, CPCB and SPCB.
 34. Measures shall be taken to prevent leakages from the Calcined Petroleum Coke

Plant.

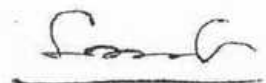
35. In-plant control measures like bag filters, de-dusting and dust suppression system shall be provided to control fugitive emissions from all the vulnerable sources. Dust extraction and suppression system shall be provided at all the transfer points. Bag filters shall be provided to hoods and dust collectors to coal and coke handling to control dust emissions. Water sprinkling system shall be provided to control secondary fugitive dust emissions generated during screening, loading, unloading, handling and storage of raw materials etc.
36. Secondary fugitive emissions shall be controlled within the prescribed limits, regularly monitored and records maintained. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed.
37. Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product. Efforts shall also be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials shall be transported in covered trucks only and shall not be overloaded. Vehicular emissions shall be regularly monitored and records kept.
38. Total requirement of the water shall not exceed 65 m³/hr. Necessary permission from the concerned authority for water drawal shall be obtained. All the treated wastewater shall be recycled for dust suppression and green belt development. Domestic wastewater shall be treated in septic tank followed by soak pit. Zero effluent discharge shall be strictly followed and no wastewater shall be discharged outside the plant premises.
39. Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.
40. Coke fines shall be recycled and reused in the process. The waste oil shall be properly disposed of as per the Hazardous Waste (Management, Handling and Trans boundary Movement) Rules, 2008.
41. Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB within 3 months of issue of environment clearance letter.
42. All the commitments made during the Public Hearing / Public Consultation

meeting held on 29.9.2013 shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar.

43. At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on public hearing issues and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner.
44. An amount of Rs.465 lakhs has been earmarked for Pollution Control Measures which is less than 4% of the project cost. In view of the pollution-prone nature of the industry this has to be enhanced. Procurement of the latest control equipments/ adoption of the state-of-the-art technology should be ensured. In addition, standby/spare of the control equipments may be provided in strategic locations to ensure utmost control.
45. Regular health check-ups shall be practiced for the residents of the peripheral villages at regular intervals in view of the apprehension expressed by them relating to health problems that may likely to crop up after starting of the industry.
46. The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
47. The plant shall only be allowed to operate after implementation of pollution control measures as stipulated above.

B. GENERAL CONDITIONS:

1. The proponent shall obtain the statutory approval if required under law from Paradeep Development Authority before commencement of its operation permission
2. The project authorities must strictly adhere to the stipulations made by the Odisha Pollution Control Board and the State Government.
3. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, Odisha.



The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.

5. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM₁₀, SO₂ and NO_x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to the Ministry including its Regional Office at Bhubaneswar, SEIAA, Odisha and the SPCB/CPCB once in six months.
6. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night time).
7. Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.
8. The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
9. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.
10. Requisite amount shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhubaneswar and SEIAA, Odisha. The funds so provided shall not be diverted for any other purpose.
11. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban Local Body and the

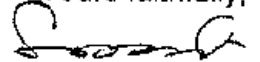
- local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.
12. The project proponent shall upload the status of compliance of the stipulated environment clearance 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 the MOEF at Bhubaneswar, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
 13. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar, CPCB/SPCB shall monitor the stipulated conditions.
 14. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF at Bhubaneswar by e-mail.
 15. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA, Odisha and copies of the clearance letter are available with the SPCB. This shall be advertised 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 and a copy of the same should be forwarded to the SEIAA, Odisha.
 16. Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.
 17. The SEIAA, Odisha may revoke or suspend the environmental clearance, if



implementation of any of the above conditions is not satisfactory.

18. The SEIAA, Odisha reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
19. The above conditions shall 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, Hazardous Wastes (Management, Handling and Trans boundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.

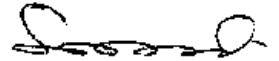
Yours faithfully,



Member Secretary

Memo No 617/SEIAA Dt. 11.04.14
Copy to

1. Ministry of Environment & Forests, Govt. of India, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi for kind information.
2. Principal Secretary, Forests & Environment Dept., Government of Orissa for kind information.
3. Chairman, State Pollution Control Board, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-8, Bhubaneswar for kind information.
4. Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment & Forests, A-31, Chandrasekharapur, Bhubaneswar for kind information.
5. Chairman, Central Pollution Control Board, CBD-cum-office Complex, East Arjun Nagar, New Delhi-110032 for kind information.
6. Collector & District Magistrate, Jagatsinghpur for kind information and necessary action.
7. Chairman/Member/Member Secretary, SEIAA for kind information.
8. Chairman, SEAC/Secretary, SEAC, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar for kind information.
9. Guard file for record.



Member Secretary