



**STATE EXPERT APPRAISAL COMMITTEE, PUNJAB**  
**Ministry of Environment and Forests, Government of India**

O/O Punjab Pollution Control Board,  
Vatavaran Bhawan, Nabha Road,  
Patiala – 147 001  
Telefax:- 0175-2216980

No. SEAC/\_\_\_/\_\_\_\_\_

Dated \_\_\_\_\_

**Registered**

To

The General Manager-cum-Mining Officer,  
District Industries Centre,  
Miller Ganj, Ludhiana.

**Subject: Application for obtaining environmental clearance under EIA notification dated 14.09.2006 for mining of minor minerals (sand) in the revenue estate of Village Khaira Bet-1, Tehsil Ludhiana (West), District Ludhiana of Mining Officer, Department of Industries and Commerce, Industrial Estate, Ludhiana.**

This has reference to your application for obtaining environmental clearance under EIA notification dated 14.09.2006 for mining of minor minerals (sand) in the revenue estate of Village Khaira Bet-1, Tehsil Ludhiana (West), District Ludhiana in an area measuring as 12.98 hectares in H.B. no. 127, Khasra no. 88//23,24,25, 102//12,13,14, 102//15, 103//17, 18, 19, 20, 24/1, 114//11, 12, 13, 14, 15, 16, 17, 18, 19, 20,21/1, 22, 23, 24, 25, 18//1,2,9, 18//10,11,12, 01//8/2,9,10, 101//6,7,8/1, 101//12,13,14, 15, 79//7, 14/1,14/2, 52//16,17.

The case of the project proponent was considered by the SEAC in its 51<sup>st</sup> meeting held on 07.09.011 and observed that the project pertains to category **1 (a)** of the Schedule appended to the EIA Notification dated 14.9.2006 and categorized the project as category '**B-1**' of the said notification. The Committee further observed that the project proponent is required to issue **Terms of Reference** for preparation of draft Rapid EIA study report.

After detailed deliberations in the matter, it was decided to finalize following "Terms of Reference" and to convey the same to the project proponent for preparation of draft Rapid EIA report:

1. All documents including approved mine plan (eco friendly mine plan), EIA report and public hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management and mining technology and should be in the name of the lessee.

2. A copy of the lease deed executed by the Competent Authority of the State with the contractor should be submitted.
3. The terms and conditions imposed, if any, by the Competent Authority in the State Government while granting mining lease/permit/contract should be built into the mine plan (eco friendly mine plan) as well as the EIA report. It may inter-alia include; area of working (length and breadth of the river stretch), mode of working, working shift, transportation of mineral, restriction, if any imposed for working etc.
4. Involvement of forestland, if any, in the project and status of forestry clearance should be given.
5. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc should be for the life of the mine / lease period.
6. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary and national park, migratory routes of fauna, water bodies, human settlements and other ecological features.
7. Land use plan of the mine lease area should be prepared to encompass pre-operational, operational and post operational phases.
8. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly detailed mitigation measures required should be worked out with cost implications.
9. The vegetation in the reserved forest/protected forest in the study area, if any, should be indicated.
10. A study shall be got done to ascertain the impact of the mining project on wildlife of the area including aquatic life.
11. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves (existing as well as proposed) within 10 km of the mine lease should be clearly indicated supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance from the Chief Wildlife Warden for operating the mine within 10 km of the National Park / Sanctuary, if any, should also be obtained and furnished.
12. A detailed biological study for the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] including the aquatic fauna in the riverine system shall be carried out. Details of flora and fauna, duly authenticated, separately for core and buffer zone should be furnished based on field survey clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
13. Impact of the project on land use including change of river course, if any should be given.
14. Impact on topography, drainage, agricultural fields, cattle fields, wildlife, water logging leading to water borne diseases, if any. It may also be shown whether it will lead to change of watercourse of the river. Modelling

- exercise should also be carried out through an expert agency to show the change in river flow dynamics, if any.
15. Collection of one season (non-monsoon) primary baseline data on ambient air quality ( $PM_{2.5}$ ,  $PM_{10}$ ,  $SO_2$  and  $NO_x$ ), water quality, noise level, soil and flora and fauna, site-specific meteorological data should also be collected. The location of the monitoring stations should be justified. Date wise collected baseline AAQ data should form part of EIA and EMP report. The mineralogical composition of  $PM_{10}$  particularly for free silica should be given. There should be at least one AAQ monitoring station within 500 m of the mine lease in the pre-dominant downwind direction.
  16. Air quality modelling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modelling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map. The water requirement for the project, its availability and source to be furnished. A detailed water balance should also be provided. Fresh water requirement for the project should also be indicated.
  17. Necessary clearance from the Competent Authority for withdrawal of requisite quantity of water for the project should be provided.
  18. Impact of the project on the water quality should be assessed and necessary safeguard measures, if any required should be provided.
  19. Information on site elevation, working depth, groundwater table should be provided both in AMSL and BGL. A schematic diagram may also be provided for the same.
  20. Quantity of solid waste generation, if any, should be estimated and details for its disposal and management should be provided.
  21. Impact on local transport infrastructure due to the project should be evaluated. Projected increase in truck traffic as a result of the project in the present road network (including those outside the project area) and whether it is capable of handling the increased load should be estimated. Arrangement for improving the infrastructure, if contemplated including action to be taken by other agencies such as State Government, if any, should be covered.
  22. Details of the infrastructure facilities to be provided for the mine workers should be furnished.
  23. Phase-wise plan of greenbelt development, plantation and compensatory afforestation clearly indicating the area to be covered under plantation and the species to be planted should be provided.
  24. Occupational health impacts of the project activity should be anticipated and reported and proposed preventive measures indicated. These alongwith details of pre-placement medical examination and periodical medical examination schedules and medical facilities proposed to be provided should be incorporated in the EMP

25. Measures of socio economic influence to the local community, proposed to be provided by project proponent should be spelt out. As far as possible, quantitative dimensions should be given.
26. Detailed environmental management plan to mitigate the environmental impacts. Specific safeguard measures to control PM<sub>10</sub> as well as pollution due to transportation should be given.
27. Public hearing points raised and commitment of the project proponent on the same along with time bound action plan to implement the same should be provided.
28. Details of litigation pending against the project, if any, with direction order passed by any Court of Law against the project should be given.
29. The cost of the project (capital cost and recurring cost) as well as the cost towards implementation of EMP should clearly be spelt out.
30. The prescribed TORs would be valid for a period of two years for submission of the EIA/EMP reports, as per the O.M. No. J-II/OI3/4112006-IA.II(I) dated 22.3.2010.
31. Other details as indicated in Appendix III of EIA Notification 2006 and the manual titled as "EIA guidance Manual" published by the Ministry of Environment & Forests, New Delhi for mining projects, should also be attended.

The project proponent should prepare draft rapid EIA / EMP Report for its project based on above Terms of Reference and apply to the Member Secretary, Punjab Pollution Control Board for conducting public hearing as per the provisions of EIA Notification, 2006 as amended from time to time on submitting EIA / EMP / Executive Summary Report prepared by the project proponent as per TORs.

After completing the process of public hearing / public consultation, the industry shall submit final EIA / EMP to the State Expert Appraisal Committee after incorporating all the issues raised during public hearing / public consultation for Appraisal of its project.

The project proponent shall submit following documents alongwith rapid EIA report to the Committee:

1. Site plan of the project showing the following
  - i) Location of STP ;
  - ii) Solid waste storage area.
  - iii) Green belt
  - iv) Parking space
  - v) Fire fighting equipment layout
  - vi) First aid room
  - vii) Location of Tubewells
2. Affidavits for ;
  - a) Constitution of Environment Monitoring Cell
  - b) To provide Fire Fighting System
  - c) To provide adequate safety measures for the workers deployed for mining process

Besides the above, the following general points will also be taken

into account:

- a) All documents to be properly referenced with index, page numbers and continuous page numbering.
- b) Where data are presented in the report especially in tables, the period in which the data were collected and the sources should be indicated.
- c) Where the documents provided in a language other than English, an English translation should be provided.
- d) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
- e) Approved mine plan along with copy of the approval letter for the proposed capacity should also be submitted.
- f) The EIA report should also include surface plan of the area indicating contours of main topographic features, drainage and mining area.

**Secretary (SEAC)**

**Endst. No.** \_\_\_\_\_

**Dated** \_\_\_\_\_

A copy of the above is forwarded to the following for information and necessary action :-

1. The Secretary to Govt. of India, Ministry of Environment & Forests, Govt. of India, CGO Complex, Lodhi Road, New Delhi.
2. The Director, Northern Regional Office, Ministry of Environment & Forests, Bays No. 24-25, Sector 31-A, Dakshin Marg, Chandigarh.
  - a) Name of the applicant General Manager-cum-Mining Officer
  - b) Fax Number 0161-2532052, FAX No. 0161-2534558
  - c) E-mail [gmludhiana@punjabmailgov.in](mailto:gmludhiana@punjabmailgov.in)
3. The Member Secretary, State Environment Impact Assessment Authority, O/o Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala.
4. The Member Secretary, Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala.
5. The System Analyst (Computer), Punjab Pollution Control Board, Head Office, Patiala. He is requested to display the approved Terms of Reference given to the project proponent on the website of State Environment Impact Assessment Authority

**Secretary (SEAC)**