



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:- 0175-2215802

No. SEAC/224/13136

Dated 17/3/2010

Speed Post

To

Sh. H.S. Marwaha,
State Geologist,
Deptt. of Industries & Commerce, Punjab,
17, Bays Building, Sector-17,
Chandigarh.

Sub: Applications for grant of environmental clearance to the projects of mining of minor minerals in Distt. Moga submitted by the Deptt. of Industries & Commerce, Punjab.

This has reference to your applications for obtaining grant of environmental clearance for the following two projects of District Moga for mining of minor minerals. The projects are covered at Sr. No. 1(a), Category 'B' of the Schedule attached to EIA notification dated 14.9.2006 and general condition shall apply to these projects :-

S.N	Location of Project	Type of Project	Area (in acres)	Cost	Quantity
1.	H.B. No. 312, talwandi Nau Bahar, Sub Tehsil Dharamkot, Distt. Moga	Sand Mining	19.706	30 lacs	35470 M.T.
2.	H.B. No. 272, Kot Mohammad Khan, Sub- Tehsil Dharmkot, Distt. Moga	Sand Mining	30	35 lacs	54000 M.T.

The cases were considered by the Committee in its 37th meeting held on 27/2/2010. The meeting was attended by Sh. A.K. Yeluri, State Geologist, Deptt. of Industries & Commerce and Sh. Satbir Singh, G.M., Moga and presented the case before the State Expert Appraisal Committee. They submitted duly filled columns in basic information of amended Form-I as notified vide notification no. SO 3067(E) dated 1/12/2009. During meeting, they informed that no further cases will be applied in these stretches and there is no continuous mining of the quarries for which the Deptt. of Industries and Commerce, Punjab has applied.

The Committee has categorized the above said projects into Category B-1. The Committee decided to fix the following TORs for the above said projects and simultaneously requested the officials from Deptt. of Industries & Commerce to submit the map duly marked on the each quarry with Khasra No. procured from the Deptt. of Revenue indicating the boundary of each quarry to ensure that the boundary is not touching with

the boundary of another quarry, otherwise the Deptt. of Industries & Commerce is liable to submit fresh proposal for each such stretch to Ministry of Environment & Forests, Govt. of India, for appraisal in case the total mining area of any stretch exceeds 50 ha. The map shall be sent to the Committee before submitting the EIA report to State Expert Appraisal Committee.

1. These are mining proposals for minor mineral mining in the Distt. Moga.
2. Maps (1:25,000) from interpretation of Satellite imagery procured from NRSA have to be submitted depicting the following:
 - Recent land use features in the region.
 - Other proposed or working mines in the region.
 - Map Depictions: Coloured maps depicting land-use of the region showing sensitive / fragile features and detailed lay-out of the site clearly showing green-belt (existing & planned).
 - Location with khasra no. is also to be shown in Tehsil map procured from revenue department.
3. Based on the information contained in the documents submitted and the discussion with the State Expert Appraisal Committee (SEAC) in its meeting held on February, 27th, 2010, the following TORs are prescribed for including in the EIA and EMP report:-
 - I. The EIA should be prepared based on model TOR for appraisal of mining projects issued by MoEF, Delhi.
 - II. Data in the EIA should be given for the entire mine life.
 - III. Location of National Parks, Sanctuaries, biosphere Reserves, Wildlife corridors, Tiger/Elephant reserves (existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated. A location map duly authenticated by Chief Wildlife Warden should also be provided in this regard. Necessary clearance, if any, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above should be obtained from the State Wildlife Department/ Chief Wildlife Warden under the Wildlife (Protection) Act, 1972 and copy furnished.
 - IV. Details of transportation of sand and its impact have to be evaluated and presented.
 - V. Details with justification for adopting the proposed mining technology and mining equipment deployment including mine geometry also to be provided.
 - VI. One season (non-monsoon) primary baseline data on ambient air quality should be collected as per notification no. GSR.826(E) dated 16/11/2009 issued by Ministry of Environment & Forests. Site specific meteorological data should also be collected. The location of the monitoring stations should be justified. For air monitoring, it

may be kept in view that there is at least one monitoring station in the unwind direction and one in pre-dominant downwind direction, where maximum GLCs are likely to occur. Other aspects like habitation and sensitive receptors may also be kept in view. The monitoring stations should be shown on the location map super imposed with windrows.

- VII. Transportation route with precaution to prevent dispersion of particles during transportation have to be detailed out.
 - VIII. Prediction of impacts on air quality of the region due to mining has to be prepared & presented using appropriate models as prescribed by CPCB.
 - IX. Impact on River / Water bodies due to sand mining should also be presented.
 - X. Public hearing points raised and commitment of the project proponent on the same alongwith financial allocation and time bound action plan to implement. Summary of specific points raised and their responses / commitment to be presented in a tabular form.
 - XI. Any litigation pending against the project and /or any direction /order passed by any Court of Law against the project, if so, details thereof.
 - XII. NOC from concerned DFO has to be furnished with EIA.
 - XIII. Water and shelter for the workers at mining site has to be ensured.
4. Besides the above, the following general points have also to be followed:-
- I. All documents to be properly referenced with index, page numbers and continuous page numbering.
 - II. Where data are presented in the report especially in tables, the period in which the data were collected and the sources should be indicated.
 - III. The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
 - IV. Approved mine plan along with copy of the approval letter for the proposed capacity should also be submitted.
5. Additional points as discussed in the meeting to be incorporated in the EIA/EMP:
- Incorporate the list of aquatic animals (fauna) found in the water body, where the sand mining is proposed.
 - Incorporate the list of aquatic animals (fauna) found to visit the water bodies located within 2 Km around the mining site.
 - EMP should address the steps planned to avoid any disturbance in the routine activities of aquatic animal which may be caused due to mining.

- Mining should be planned at least 50-100 meters away from the main stream of the water body. Accordingly, drawing of demarked mining area should be furnished.
- Measures planned or taken to check the soil erosion due to transportation have to be detailed out.
- Sand-loading spot should be at least 100 meters away from the main stream of the water body, location to be shown on a map.
- Sand should be transported in covered vehicles to avoid dispersion of particles in air.
- Mining or loading/ unloading should be avoided at junctions or turning points of the water body (river).
- Safe distances from Railway and Road bridges should be maintained, these distances have to be reported in the report.
- Safe distance from monuments of Local or Archeological importance and the fragile areas such as National Parks, Wild Life Sanctuaries, Protected Forests etc. should be maintained in accordance to the rules and guidelines laid down by the concerned departments.
- Permissions / clearances and NOCs' from various departments such as Forest, Gram Panchayat and Local Bodies etc. have to be furnished with report.
- The depth of the quarry pit should be 2 to 3 m below the existing river bed level and it should not be more than 3 m below the existing bed level and 11 m in case of agricultural fields. The datum be fixed for first time mining and the total depth of mine should not be more than 3 m from datum after the subsequent minings at the same site in the next years to come.
- Minimum safe distances upstream and downstream distance of mining from High Level Bridge, other bridges, railway line, reservoir tank, public roads and buildings or inhabited sites be given.
- Regular sprinkling of water be carried out to ensure that suspended particulate matter level does not exceed the ambient air quality standards within the entire mine leased area and the path ways leading to the mining site.
- The minimum distance from the active edge of embankment of either side of river bed should be given.
- No mining operation from the reserved area or any area under forest will be allowed.
- Mine working will not intersect ground water table.
- Conceptual post mine land use and Reclamation and Rehabilitation of mined out area (with plans and with adequate number of sections).
- 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. The details of plantation already done should be given.

- While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by Ministry of Environment & Forests vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of the Ministry should also be followed.

The authorities concerned should prepare draft rapid EIA / EMP Report for the said projects 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 on submitting EIA / EMP / Executive Summary Report prepared by the authorities concerned as per TORs.

After completing the process of public hearing / public consultation, the authorities concerned should submit final EIA / EMP to the State Expert Appraisal Committee after incorporating all the issues raised during public hearing / public consultation for Appraisal of their projects.

(Malvinder Singh)
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.
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 Senior Environmental Engineer (Computer), Punjab Pollution Control Board, Head Office, Patiala. He is requested to display the approved Terms of Reference given to the industry on the website of State Environment Impact Assessment Authority.

(Malvinder Singh)
Secretary (SEAC)