



**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/36262

Dated 7.9.2011

**Registered**

To

Sh. Sohan Lal Maine, Vice President,  
M/s Mahindra & Mahindra (P) Ltd.,  
(Swaraj Division Foundry unit)  
Village Majri, Tehsil Kharar, District Mohali

**Subject: Application for obtaining environmental clearance under EIA Notification dated 14.09.2006 for increase in the production capacity of differential, rear cover, gear box, trumpet & other tractor parts from 35,000 TPA to 60,000 TPA in the existing Swaraj Division Foundry unit located in the revenue estate of Village Majri, Tehsil Kharar, District SAS Nagar by M/s Mahindra & Mahindra (P) Ltd.,**

This has reference to your application for obtaining environmental clearance for increase in the production capacity of differential, rear cover, gear box, trumpet & other tractor parts from 35,000 TPA to 60,000 TPA in the existing Swaraj Division Foundry unit located in the revenue estate of Village Majri, Tehsil Kharar, District SAS Nagar.

The case of the project proponent was considered in the 50<sup>th</sup> meeting of SEAC held on 12.08.2011 and observed that the case pertains to category 'B' of the Schedule appended to the EIA Notification dated 14.9.2006 and such type of projects are to be appraised as category **3 (a)**. The Committee further observed that the project proponent is required to issue **Terms of Reference** for preparation of detailed draft Rapid EIA 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. Executive summary of the project.
2. Photographs of the existing and proposed plant area.

3. Compliance to the conditions of the environmental clearance granted for the existing unit by the Ministry of Environment & Forests under EIA Notificaton.
4. A line diagram/flow sheet for the process and EMP
5. Present land use should be prepared based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc. for the 10Km radius area from proposed site. The same should be used for land used/land-cover mapping of the area.
6. Location of national parks / wildlife sanctuary / reserve forests within 10 km. radius should specifically be mentioned. A map showing landuse/landcover, reserved forests, wildlife sanctuaries, national parks, tiger reserve etc in 10 km of the project site.
7. A list of industries within 10 km radius of the plant area.
8. Details and designation of total land (identified and acquired) as per the Local Authority should be included.
9. Project site layout plan showing raw materials and other storage plans, bore well or water storage, aquifers (within 1 km.), waste storage, waste disposal, green areas, water bodies, rivers/drainage passing through the project site should be included.
10. List of raw material required and source along with mode of transportation should be included. All the trucks for raw material and finished product transportation must be 'Environmentally Compliant'
11. Quantification & Characterization of solid /hazardous waste & its action plan for management should be included.
12. Mass balance for the raw material and products should be included.
13. Site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall is necessary.
14. Ambient air quality at 8 locations within the study area of 10 km., aerial coverage from project site with one AAQMS in downwind direction should be carried out.
15. The suspended particulate matter present in the ambient air must be analyzed for the presence of poly-aromatic hydrocarbons (PAH), i.e. Benzene soluble fraction. Chemical characterization of RSPM and incorporating of RSPM data.

16. Determination of atmospheric inversion level at the project site and assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features.
17. Ambient air quality as per National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November, 2009 should be included.
18. Air Quality Impact Prediction Modelling based on ISCST-3 or the latest models.
19. Impact of the transport of the raw materials and end products on the surrounding environment should be assessed and provided.
20. An action plan to control and monitor secondary fugitive emissions from all the sources as per the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30<sup>th</sup> May, 2008.
21. Presence of aquifer/aquifers within 1 km of the project boundaries and management plan for recharging the aquifer should be included.
22. Permission for abstraction of groundwater shall be obtained from CGWA and water balance data must be provided.
23. Action plan for rainwater harvesting measures.
24. Surface water quality of nearby River/choe (60 m upstream and downstream) and other surface drains at eight locations must be ascertained.
25. If the site is within 10 km radius of any major river, Flood Hazard Zonation Mapping is required at 1:5000 to 1:10,000 scale indicating the peak and lean river discharge as well as flood occurrence frequency.
26. Pretreatment of raw water, treatment plant for waste water should be described in detail. Design specifications may be included.
27. Ground water monitoring minimum at 8 locations and near solid waste dump zone, Geological features and Geo-hydrological status of the study area are essential as also. Ecological status (Terrestrial and Aquatic) is vital.
28. Action plan for solid/hazardous waste generation, storage, utilization and disposal particularly slag from all the sources should also be included.
29. End use of solid waste and its composition should be covered. Toxic metal content in the waste material and its composition should also be incorporated particularly of slag.

30. Action plan for the green belt development plan in 33 % area should be included.
31. Detailed description of the flora and fauna (terrestrial and aquatic) should be given with special reference to rare, endemic and endangered species.
32. Disaster Management Plan including risk assessment and damage control needs to be addressed and included.
33. Occupational health Plan should be included.
34. At least 5 % of the total cost of the project should be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan should be included. Socio-economic development activities need to be elaborated upon.
35. Total capital cost and recurring cost/annum for environmental pollution control measures should also be included.
36. Any litigation pending against the project and / or any direction / order passed by any Court of Law against the project, if so, details thereof.
37. Impact of metallic contamination in environment i.e. existing and likely to increase after commissioning of project is to be provided.
38. The spent sand and spent liner material of the foundry should be tested as per the protocol for Toxicity Characteristics Leaching Procedure (TCLP) as per ASTM-D5233-90 from an Institute of a repute, so as to ascertain as to whether these are hazardous in nature or not, to finalize their route of disposal.
39. The industry shall identify all the hazardous wastes being generated by it, which are covered under the provisions of Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008.

The industry 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 industry 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 proposal.

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

1. Permission for change of land use issued by the Competent Authority.
2. Building plan got approved by the Competent Authority
3. Permission of CGWA for abstraction of groundwater.
4. Designation of the area as per the Local area plan of the Local Authority, if any.

Sd/-

**Secretary (SEAC)**

**Endst. No. 36263-67**

**Dated 7.9.2011**

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 Sh. Sohan Lal Maini, Vice President
  - b) Fax Number 0160-2643025
  - c) E-mail [mail@swarajenterprise.com](mailto:mail@swarajenterprise.com)
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

Sd/-

**Secretary (SEAC)**