

**Government of Maharashtra**

No. SEAC -2010/CR-463/TC-2

Environment department  
Room No. 217, 2nd floor,  
Mantralaya Annexe,  
Mumbai- 400 032.  
Dated: 7<sup>th</sup> February, 2011

To,  
M/s. Shri Karvir Nivasini Mahalaxmi Ispat Pvt Ltd.  
A-6 MIDC, Gokul Shirgaon,  
Kolhapur 416234  
Maharashtra

**Sub: Expansion of the steel plant at Shirgaon, Taluka Karveer, District Kolhapur by M/s. Shri Karvir Nivasini Mahalaxmi Ispat Pvt Ltd. - Environmental clearance regarding.**

Sir,

This has reference to your communication dated 8<sup>th</sup> January, 2010 on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee, Maharashtra in its 29<sup>th</sup> meeting and decided to recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 31<sup>st</sup> meeting held on 26<sup>th</sup> November, 2010. Authority noted your clarification dated 17<sup>th</sup> January, 2011 that the production unit is non toxic secondary metallurgical processing industry.

2. It is noted that the proposal is for grant of Environmental Clearance for Expansion of the steel plant at Shirgaon, Taluka Karveer, District Kolhapur by M/s. Shri Karvir Nivasini Mahalaxmi Ispat Pvt Ltd. The project considered by SEAC under EIA Notification 2006, screening category is 3 (a). Project proponent has submitted Environment Management Plan.

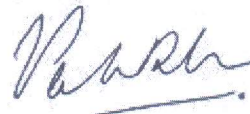
**Project information from submitted & considered documents is summarized as below-**

|                               |  |
|-------------------------------|--|
| Name of the Project           | : Expansion of the steel plant   |
| Type of Project               | : Industrial project   |
| Project Proponent             | : M/s. Shri Karvir Nivasini Mahalaxmi Ispat Pvt Ltd.   |
| Location of the project       | : Plot No.: A-6, Gokul Shirgaon MIDC, Tal.: Karveer,<br>Dist.: Kolhapur - 416 234<br>• Latitude 16° 42' N<br>• Longitude 74° 16' E |
| Total plot area               | : 19,970 Sq. M.  |
| Project area                  | : 5,635.78 sq.m.   |
| Estimated cost of the project | : ₹ 7.62 Crores  |

**Production capacity:**

**Existing:**

1. MS casting: 1100 MT / Month
2. MS Roll bar: 2500 MT/ Month



**Proposed Expansion:**

1. M.S. Castings (ingots) -1400 Mt / Month
2. M.S. Rolled bars -1500 Mt /Month

**Water Requirement:** 7 M<sup>3</sup> / Day; Source: MIDC

**Rain water harvesting:**

- Land and Roof top harvesting method adopted.
- Ground Water Authority shall be consulted for finalization of appropriate rainwater harvesting technology.

**Domestic Effluent:** 1.5 M<sup>3</sup> / Day; Domestic Effluent generated would be treated in the septic tank followed by soak pit & the same would be further utilized for gardening in own factory premises.

**Industrial Effluent:** Nil.

**Raw material:**

| List of raw materials to be used | Physical & Chemical nature of raw material | Quantity (tonnes / month) full production capacity | Source of materials                            | Means of Transportation (Source to storage site) with justification |
|----------------------------------|--|--|--|---|
| Turning                          | Solid                                      | 154 MT / M   | Near by area / outside supplier Through Trucks | Stored on Yard proper handling system                               |
| C.I.                             | Solid                                      | 154 MT / M   |  |   |
| Sponge Iron                      | Solid                                      | 616 MT / M   |  |   |
| M.S. Scrap                       | Solid                                      | 616 MT / M   | From own plant & outside, suppliers            |   |
| M.S. Ingots                      | Solid                                      | 1575 MT / M  |  |   |

**Solid Waste Management:**

| Waste                     | Source Qty (TPM) |
|---------------------------|------------------|
| Process Dust (Burnt Slag) | 40 MT/ Day       |
| Other (Coal Ash)          | 2 MT / Day       |
| Tar                       | 1.55 MT / Day    |

**Disposal:**

1. From existing activities, solid waste is generated in the form of iron oxide @ 10 MT / M and same is sold to authorized reprocessor
2. Hazardous Waste generated under Cat. No.: 5.1 i.e. Used Oil @ 0.5 MT / Year would be generated and same would be sold to authorized reprocessor
3. Burnt Slag generated would be taken away for secondary use such as filling of low lying areas. Coal Ash generated would be disposed off by sale to the brick manufactures as well as Tar generated would be Secondary Sale as Fuel Additive

**Air pollution control:**

- The existing Oil Fired Furnace for Rolling Bars & Electrical Induction Furnace for M. S. Ingots would be used.
- The Electric Induction Furnace is provided with Fume Extraction System as APC followed by a Dust Collector and stack height of 15.0 M.



- Coal/Oil Fired Furnace has been provided with stack height of 31.0 M.

**Stack Details:**

| Plant section & units      | Stack No. | Height from ground level (m) | Internal Diameter (Top)(m) | Temp. of Exhaust Gases |
|----------------------------|-----------|------------------------------|----------------------------|------------------------|
| Oil Fired Furnaces         | 1st       | 31 M                         | 0.6 M                      | 319.3°C                |
| Electric Induction Furnace | 2nd       | 15 M                         | 0.4 M                      | 378.3°C                |

**Green belt development plan:** 2650.00 Sq. M.; Existing Nos. of Trees: 600 Nos. + 1300 M2 Lawn; About 200 Nos. of trees will be planted.

**Power Requirement:** 6700 KVA; Source: MSEB.

**Noise pollution control:**

- In the existing as well as proposed capacity utilization activities the source of noise would be the Roughing Mill Section, Bar Cutting Section, Melting Bay and Pouring Section & Moulding Section.
- The workers entering the work zone area of Roughing Mill Section, Bar Cutting Section, Melting Bay, Pouring Section & Moulding Section is provided with ear muffs & other Personal Protective Equipment (PPE) which gives the reduction within the limit.

**Socio Economic Environment:**

- The Steel Plant unit undertakes a number of activities related with social welfare such as Distribution of Education Materials among economically deprived students. Also, the unit donates various equipments and machineries to the 'Chetana Institute, Kolhapur', a school for mentally retired children.
- Providing ambulance facility in emergency cases to Nearby Residents.
- The industry has established "Shri Babeshwar Seva Dham" OPD (Out Patient Department) in Gokul Shirgaon MIDC area, which provides free treatment for industrial worker and people located in that area.
- The Industry arranges Blood Donation Camps every year.
- The Industry is providing direct or indirect employment opportunities to local people.
- Donating funds for noble causes such as Earthquake and Flood Relief operations.

**Environmental Management Plan:** Operation Phase: Total capital cost for EMP shall be ₹ 47 Lakhs and O & M for EMP shall be ₹ 3.25 lakhs.

3. The proposal has been considered by SEIAA in its 31<sup>st</sup> meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions :
  - (i) The project proponent clarified that the production unit is non toxic secondary metallurgical processing industry. MPCB should ensure this while granting consent to establishment & operate. MPCB also ensure that raw material which will be used in this unit, particularly metal scrap, should be non hazardous & nontoxic. Project proponent should submit the copy of Consent to establishment & operate obtained accordingly to this department.
  - (ii) This environmental clearance is issued subject to land use verification. Local authority / planning authority should ensure this. This environmental clearance issued with

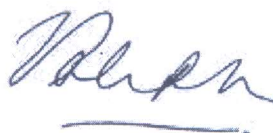


respect to the environmental consideration and it does not mean that State Level Impact Assessment Authority (SEIAA) approved the proposed land use.


- (iii) No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.
- (iv) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
- (v) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.
- (vi) Regular monitoring of the air quality, including SPM & SO<sub>2</sub> levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.
- (vii) Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.
- (viii) Proper House keeping programmes shall be implemented.
- (ix) In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.
- (x) A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set.(If applicable)
- (xi) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
- (xii) Arrangement shall be made that effluent and storm water do not get mixed.
- (xiii) Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
- (xiv) Leq of Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.
- (xv) The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
- (xvi) Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
- (xvii) Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.
- (xviii) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
- (xix) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
- (xx) The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.
- (xxi) The company shall undertake following Waste Minimization Measures :
  - Metering of quantities of active ingredients to minimize waste.
  - Reuse of by- products from the process as raw materials or as raw material substitutes in other process.



- Maximizing Recoveries.
  - Use of automated material transfer system to minimize spillage.
  - Use of "Closed Feed" system into batch reactors.
- (xxii) Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
- (xxiii) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xxiv) Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.
- (xxv) Separate silos will be provided for collecting and storing bottom ash and fly ash.
- (xxvi) Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department
- (xxvii) The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <http://envis.maharashtra.gov.in>
- (xxviii) Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1<sup>st</sup> June & 1<sup>st</sup> December of each calendar year.
- (xxix) A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation 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 website of the Company by the proponent.
- (xxx) The proponent shall upload the status of compliance of the stipulated EC 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 MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- (xxxi) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
- (xxxii) The environmental statement for each financial year ending 31<sup>st</sup> 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 EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.
- (xxxiii) The environmental clearance is being issued without prejudice to the court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him.



4. The Environment department reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.
5. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 5 years to start of production operations.
6. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.
7. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.
8. Any appeal against this environmental clearance shall lie with the National Environmental Appellate Authority, if preferred, within 30 days as prescribed under Section 11 of the National Environmental Appellate Act, 1997.

  
(Valsa R Nair Singh)  
Secretary, Environment  
department & MS, SEIAA

Copy to:

1. Shri. Ashok Basak, IAS (Retd.), Chairman, SEIAA, 502, Charleville, 'A' Road, Churchgate, Mumbai- 400 020, Maharashtra.
2. Shri. P.M.A Hakeem, IAS (Retd.), Chairman, SEAC, 'Jugnu' Kottaram Road, Calicut- 673 006 Kerla.
3. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
4. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).
5. Regional Office, MPCB, Kolhapur.
6. Collector, Kolhapur.