

Government of Maharashtra

No.: SEAC-2010/CR.639/TC.2
Environment department,
Room No. 217, 2nd floor,
Mantralaya Annexe,
Mumbai 400 032
Date: 8th June, 2011

To,
M/s. POSCO Maharashtra Steel Pvt. Ltd.
407-09, 4th floor, Sky Lark, Plot No. 63,
sector - 11, CBD- Belapur, Navi Mumbai.

Subject: Industrial Manufacturing facility to produce galvanized coil at Vile Bhagat, MIDC, District, Raigad. M/s. POSCO Maharashtra Steel Pvt. Ltd. - Environmental clearance regarding.

Sir,

This has reference to your communication dated 15th 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 31st & 33rd meetings 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 34th meeting held on 7th March, 2011.

2. It is noted that the proposal is for grant of Environmental Clearance for Industrial Manufacturing facility to produce galvanized coil at Vile Bhagat, MIDC, District, Raigad. M/s. POSCO Maharashtra Steel Pvt. Ltd. The project considered by SEAC under screening category 3(a) & 8(a) of EIA Notification 2006.

Project information from documents submitted by you & considered by SEAC & SEIAA is summarized as below-

Name of the Project	:	Propose to construct an Industrial Manufacturing facility.
Type of Project	:	Industrial Estate
Project Proponent	:	M/s. POSCO Maharashtra Steel Pvt. Ltd.
Location of the project	:	Vile-Bhagad , MIDC, District- Raigad
Land	:	6,02,780 sq. mt
Built up area	:	92,000 sq. mt.
Estimated cost of the project	:	₹ 854 Crores

Production capacity:

Name	Existing	Proposed (New /Modernization / renovation /rehabilitation/ others)
Main-Product:	Galvanized Coil	450,000 Tons/Year
By-product:	Zinc Dross	600 Tons/Year
	Scrap	18,750 Tons/Year



Raw material used:

S.N	Material	Consumption Unit (Month)	Physical & Chemical Nature of Material
Process : for Production			
1.	Full Hard Coil	39,063.0 Ton	Ultra Low Carbon Steel
2.	Zinc	781.0 Ton	99.9% Zinc
3.	NaOH (Alkali solution)	71.4 Ton	NaOH 45%
4.	Nano Coating Solution	3,937.5 Liter	NiSO ₄ .6H ₂ O 10%, Ni(NH ₂ SO ₃) ₂ .4H ₂ O 40%
5.	Cr Solution	0.8 Ton	Total Cro ₃ 23% ~ 28%
6.	Cr Free Solution	38.1 Ton	Resin 15%
7.	Phosphate Solution	2.1 Ton	Hypophosphorous Acid 6-8%, Ethanol 3-5%
8.	Wt Oil for Skin Pass Mill	37.8 Ton	Total Alkali 50-60%, pH 8-10
9.	Anti Rust Oil	7.9 Ton	Specific Gravity 0.1, Ignition Point 150°C
10.	Natural Gas	2,488,800.0 Nm ³	Sourced from GAIL India Ltd.
Process : for Utilities			
11.	Polymer for waste water	0.1 Ton	Polymer 100%
12.	Heavy metal treatment chemical	0.5 Ton	Chelate
13.	H ₃ PO ₄	0.5 Ton	H ₃ PO ₄ 100%
14.	NaOH (Alkali Solution) for Demi water	30.0 Ton	NaOH 45%
15.	HCl for Demi water	31.1 Ton	HCl 35%
16.	Cooling water Inhibitor	1.1 m ³	NaOCl 12%
17.	Biocide	3.0 m ³	Polymer 100%
18.	Water Tanks for fire fighting	1,00,000 lit - 4 nos.	Underground

Raw material storage and transportation facility:

- Raw material is storage area enmarked with full safety features including fire fighting facility.
- Raw material transported through the closed lines from storage area to the production facilities.
- Major hazardous raw material is Hydrochloric acid which will be stored separately and transported through the closed pipe lines from storage area to the production facility area.

Water Requirement:

- During Construction – 300 m³ per day
- During Production – 1,640 m³ per day.
- Source: MIDC, Vile-Bhagad.

Effluent generated:

- The domestic effluent generated will be 150.00 m³ per day.
- Total industrial effluent generation will be 962.00 m³ per day.

Capacity of ETP: 1200 m³/day

- The treated water shall be stored at effluent tank and pumped to reuse points such as planting water, washing water, etc.
- Sludge from floatation basin, Sedimentation basin and biological treatment are collected in sludge storage basin.

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- Sludge will be treated by dehydrator. Cake will be disposed at common treatment facility at Taloja
- Wet oil wastewater is collected in a basin. and then, it will be disposed through the MPCB approved agencies
- Phosphate wastewater, Cr wastewater, Cr-free wastewater is collected in a separate drums and then, it will be disposed to common treatment facility at Taloja

Power requirement:

Sr. No	load details	Remarks (KVA)
1.	Construction approved load	2900
2.	Operation Load	37000
	Transformer for Construction	1). 2 nos. of 300 kVA 2). 5 nos. of 500 kVA
3.	Transformer for Operation	1). 2 nos. of 30,000 kVA (ONAF Type)

Energy conservation:

1. Solar energy will be used for street lighting and common areas only.
2. Their will be solar lamps posts to be erected in the common area
3. About 4-5 % of non conventional energy viz. solar will be used in this project.

Solid Waste Management:

S.N	Process	Material	Treatment	Generation (Ton/Month)
1.	Alkali Cleaning	NaOH (alkali Solution)	Alkali Sludge (Sell/dispose to authorized waste treatment agency)	45.00
2.	Nano Coating	Nano Coating Solution		
3.	Post treatment	Cr Solution Cr Free Solution Phosphate Solution	Sell/dispose to authorized waste treatment agency	0.38 7.62 0.41
4.	Oiling	Anti rust oil	Sell/dispose to authorized waste treatment agency	0.50
5.	Cleaning By Cotton Rags	Cotton Rags Waste	Sell/dispose to authorized waste treatment agency	1.00

Hazardous Waste Management:

Collection	Storage	Transport	Disposal
Waste collection in pits & drums	Collected waste will be stored at identified separate yard	Through the transport authorized by MPCB	On the site of authorized waste manage facility CHW-TSDF at Taloja for safe and secure disposal of Hazardous Waste.

Air pollution control measures:

- Effective chimney of adequate height during operation phase
- Green belt area will be developed for trapping fugitive emissions
- Sprinkling system to suppress dust emission during construction phase
- There will be No gaseous emissions from the proposed project activity.

Noise Pollution Control System :

Author:

- Personal Protective Equipments (PPE) will be provided to workers in the vicinity of noise generating areas

Green belt development: It is proposed to develop more than 3,00,000 sq.mt area as green belt ; total 2500 nos. of trees will be planted.

Environmental Management Plan:

SR. No	Items	Cost (INR) during Construction	Cost (INR) during Operation
1	Air Environment	3,25,000	7,50,000
2	Water Environment	2,50,000	5,75,000
3	Noise Environment	2,25,000	2,00,000
4	Green Belt	12,50,000	8,00,000
5	Miscellaneous	10,00,000	5,00,000
	Total EMP Cost	30,50,000	28,25,000

Capital costs:

- Sewage Treatment Plant - ₹ 110 lacs
- Effluent Treatment Plant - ₹ 230 lacs
- Water Management System - ₹ 125 lacs
- Green Belt - ₹ 50lacs

3. The proposal has been considered by SEIAA in its 34th meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subj. to implementation of the following terms and conditions :-

- This environmental clearance is issued subject to land use verification. Local authority / planning authority should ensure this with request to Rules, Regulations, Notifications, Government Resolutions, Circulars, etc. issued if any. 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.
- "Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.
- No land development / construction work preliminary or otherwise relating to the project shall be taken up without obtaining due clearance from respective authorities.
- No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
- For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.
- Regular monitoring of the air quality, including SPM & SO₂ 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 consultatio., with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.
- A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
- Arrangement shall be made that waste water and storm water do not get mixed.
- 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.



- (x) 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.
- (xi) 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.
- (xii) 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.
- (xiii) 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.
- (xiv) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
- (xv) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
- (xvi) 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.
- (xvii) 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.
- (xviii) 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.
- (xix) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xx) Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.
- (xxi) 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
- (xxii) 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://envjs.maharashtra.gov.in>
- (xxiii) 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 1st June & 1st December of each calendar year.
- (xxiv) 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.

- (xxv) 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, SO₂, NO_x (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.
 - (xxvi) 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.
 - (xxvii) 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 EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.
 - (xxviii) 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.
 1. 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.



2. 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 Kerala.
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, Raigad
6. District Collector, Raigad.
7. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.
8. Director(TC-1), Dy. Secretary(TC-2), Scientist-1, Environment department
9. Select file (TC-3).