# 149th Meeting of State Expert Appraisal Committee (SEAC-1)

**SEAC Meeting number:** 149th Day-4 **Meeting Date** April 5, 2018

**Subject:** Environment Clearance for Establishment of Cement Blending Plant and Captive Jetty at Village Shahbaj, Tehsil Alibag in District Raigad, Maharashtra

**Is a Violation Case:** No

| | |
|---|---|
| **1.Name of Project** | Raigad Cement Blending Plant and Captive Jetty |
| **2.Type of institution** | Private |
| **3.Name of Project Proponent** | Adani Cementation Limited |
| **4.Name of Consultant** | M/s INDOMER COASTAL HYDRAULICS PVT. LTD. |
| **5.Type of project** | Industry |
| **6.New project/expansion in existing project/modernization/diversification in existing project** | New Project |
| **7.If expansion/diversification, whether environmental clearance has been obtained for existing project** | NA |
| **8.Location of the project** | Survey No.: 333, 334, 335/A, 335/B, 335/K, 336, 337, 338, 339, 340, 341,342, 343, 344, 346.<br>Village: Shahbaj, Near Amba River |
| **9.Taluka** | Alibag |
| **10.Village** | Shahbaj |
| **Correspondence Name:** | Adani Cementation Limited |
| **Room Number:** | Block - A |
| **Floor:** | 10 |
| **Building Name:** | Sambhav Building |
| **Road/Street Name:** | Judges Bungalow Road |
| **Locality:** | Bodakdev |
| **City:** | Ahmedabad |
| **11.Area of the project** | Other Area (Rural) |
| **12.IOD/IOA/Concession/Plan Approval Number** | NA |
| | **IOD/IOA/Concession/Plan Approval Number:** NA |
| | **Approved Built-up Area:** |
| **13.Note on the initiated work (If applicable)** | NA |
| **14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)** | NA |
| **15.Total Plot Area (sq. m.)** | 19.11 Ha. (Plant Area:12.47 Ha. + Conveyor & Jetty Area: 6.64 ) |
| **16.Deductions** | NA |
| **17.Net Plot area** | 19.11 Ha. (Plant Area:12.47 Ha. + Conveyor & Jetty Area: 6.64 ) |
| **18 (a).Proposed Built-up Area (FSI & Non-FSI)** | **a) FSI area (sq. m.):** NA |
| | **b) Non FSI area (sq. m.):** NA |
| | **c) Total BUA area (sq. m.):** 191100 |
| **18 (b).Approved Built up area as per DCR** | **Approved FSI area (sq. m.):** |
| | **Approved Non FSI area (sq. m.):** |
| | **Date of Approval:** |
| **19.Total ground coverage (m2)** | NA |
| **20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)** | NA |
| **21.Estimated cost of the project** | 3468400000 |

## 22.Number of buildings & its configuration

| Serial number | Building Name & number | Number of floors | Height of the building (Mtrs) |
|---|---|---|---|
| 1 | NA | NA | NA |
| 2 | NA | NA | NA |

| | |
|---|---|
| **23.Number of tenants and shops** | NA |
| **24.Number of expected residents / users** | NA |
| **25.Tenant density per hectare** | NA |
| **26.Height of the building(s)** | |
| **27.Right of way (Width of the road from the nearest fire station to the proposed building(s)** | The CRZ area will be used only for (a) the right of way of conveyor between water front and blending unit (b) Road access to the plant from the Zila Parishad road |
| **28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation** | As per applicable norms |
| **29.Existing structure (s) if any** | NA |
| **30.Details of the demolition with disposal (If applicable)** | NA |

## 31.Production Details

| Serial Number | Product | Existing (MT/M) | Proposed (MT/M) | Total (MT/M) |
|---|---|---|---|---|
| 1 | Cement (PPC, OPC, PSC & PSC) | 0 | 167000 | 167000 |

## 32.Total Water Requirement

| | | |
|---|---|---|
| Dry season: | **Source of water** | Through Tankers from near by suppliers |
| | **Fresh water (CMD):** | 10 |
| | **Recycled water - Flushing (CMD):** | NA |
| | **Recycled water - Gardening (CMD):** | 8 |
| | **Swimming pool make up (Cum):** | NA |
| | **Total Water Requirement (CMD) :** | 10 |
| | **Fire fighting - Underground water tank(CMD):** | 10 (Intermittent) |
| | **Fire fighting - Overhead water tank(CMD):** | NA |
| | **Excess treated water** | NA |
| Wet season: | **Source of water** | Through Tankers from near by suppliers |
| | **Fresh water (CMD):** | 10 |
| | **Recycled water - Flushing (CMD):** | NA |
| | **Recycled water - Gardening (CMD):** | 8 |
| | **Swimming pool make up (Cum):** | NA |
| | **Total Water Requirement (CMD) :** | 10 |
| | **Fire fighting - Underground water tank(CMD):** | 10 (Intermittent) |
| | **Fire fighting - Overhead water tank(CMD):** | NA |
| | **Excess treated water** | NA |
| **Details of Swimming pool (If any)** | Not applicable | |

## 33.Details of Total water consumed

| Particulars | Consumption (CMD) | | | Loss (CMD) | | | Effluent (CMD) | | |
|---|---|---|---|---|---|---|---|---|---|
| Water Requirement | Existing | Proposed | Total | Existing | Proposed | Total | Existing | Proposed | Total |
| Domestic | 0 | 10 | 10 | 0 | 2 | 2 | 0 | 8 | 8 |

| | | |
|---|---|---|
| **34.Rain Water Harvesting (RWH)** | **Level of the Ground water table:** | 2.0m bgl (Average) |
| | **Size and no of RWH tank(s) and Quantity:** | NA |
| | **Location of the RWH tank(s):** | NA |
| | **Quantity of recharge pits:** | Nil |
| | **Size of recharge pits :** | Nil |
| | **Budgetary allocation (Capital cost) :** | Nil |
| | **Budgetary allocation (O & M cost) :** | Nil |
| | **Details of UGT tanks if any :** | Potable Water - Domestic: 20KLD (~2 Days Storage) |
| | | |
| **35.Storm water drainage** | **Natural water drainage pattern:** | Not Applicable, Plot area is flat adjoining to the intertidal zone. No natural dranaige system crossing through proposed plot area. |
| | **Quantity of storm water:** | 13 KLD (Considering @100mm per hour peak rainfall) |
| | **Size of SWD:** | Drain Size Width 0.6 X Depth 0.3 (at Start ) with 1:300 slope |
| | | |
| **Sewage and Waste water** | **Sewage generation in KLD:** | 8 |
| | **STP technology:** | SBR |
| | **Capacity of STP (CMD):** | No. of STP: 1, Capacity of STP: 10KLD |
| | **Location & area of the STP:** | Location of STP: Above Ground Within Plant Premises, Area of STP: 400Sq Mt. |
| | **Budgetary allocation (Capital cost):** | Rs. 20 Lac |
| | **Budgetary allocation (O & M cost):** | Rs. 1 Lac |

## 36.Solid waste Management

| | | |
|---|---|---|
| **Waste generation in the Pre Construction and Construction phase:** | **Waste generation:** | 0.5MTPD (Max.) |
| | **Disposal of the construction waste debris:** | Construction debris like brick,blocks,PCC waste,concrete waste will be used for site filling,tiles,glass,metals waste will be sent to local recyclers/vendors.Pint cans will be sold to local vendors. |
| **Waste generation in the operation Phase:** | **Dry waste:** | 10 KG/Day |
| | **Wet waste:** | 5.0 KG/Day |
| | **Hazardous waste:** | O.5 KG/Day from Equipment Maintenance |
| | **Biomedical waste (If applicable):** | Nil |
| | **STP Sludge (Dry sludge):** | 8 KG/Day |
| | **Others if any:** | e-waste .05 T / Year |

| | | |
|---|---|---|
| **Mode of Disposal of waste:** | **Dry waste:** | Recyclables like plastic, paper, glass and metal will be handled over to local recyclers. |
| | **Wet waste:** | Composting through Organic Waste Composter /treated in Mobi Trash & used at site/as manure |
| | **Hazardous waste:** | Collection & Disposal by Authorized Vendor |
| | **Biomedical waste (If applicable):** | NA |
| | **STP Sludge (Dry sludge):** | Used as manure within the premises for plants. Excess shall be sold / handover to outside parties or gardens. |
| | **Others if any:** | Nil |
| **Area requirement:** | **Location(s):** | Area: 19.11 Ha. in Village: Shahbaj; Taluka: Alibaug; District: Raigad (Maharashtra) |
| | **Area for the storage of waste & other material:** | 100 sq mt. |
| | **Area for machinery:** | 50000 Sq. mt. |
| **Budgetary allocation (Capital cost and O&M cost):** | **Capital cost:** | Rs. 20,00,000 |
| | **O & M cost:** | Rs. 2,00,000 |

## 37.Effluent Charecterestics

| Serial Number | Parameters | Unit | Inlet Effluent Charecterestics | Outlet Effluent Charecterestics | Effluent discharge standards (MPCB) |
|---|---|---|---|---|---|
| 1 | NA | NA | NA | NA | NA |

| | |
|---|---|
| Amount of effluent generation (CMD): | Nil |
| Capacity of the ETP: | Nil |
| Amount of treated effluent recycled : | Nil |
| Amount of water send to the CETP: | Nil |
| Membership of CETP (if require): | NA |
| Note on ETP technology to be used | NA |
| Disposal of the ETP sludge | NA |

## 38.Hazardous Waste Details

| Serial Number | Description | Cat | UOM | Existing | Proposed | Total | Method of Disposal |
|---|---|---|---|---|---|---|---|
| 1 | Wastes or residues containing oil | 5.2 | kg | NA | 0.5 KG Per Day | 0.5 KG Per Day | Through Authorised TSDF |

## 39.Stacks emission Details

| Serial Number | Section & units | Fuel Used with Quantity | Stack No. | Height from ground level (m) | Internal diameter (m) | Temp. of Exhaust Gases |
|---|---|---|---|---|---|---|
| 1 | NA | NA | NA | NA | NA | NA |

## 40.Details of Fuel to be used

| Serial Number | Type of Fuel | Existing | Proposed | Total |
|---|---|---|---|---|
| 1 | NA | NA | NA | NA |

| | |
|---|---|
| 41.Source of Fuel | NA |
| 42.Mode of Transportation of fuel to site | NA |

| | | |
|---|---|---|
| **43.Green Belt Development** | **Total RG area :** | 6.3 Ha. |
| | **No of trees to be cut :** | 0 |
| | **Number of trees to be planted :** | 6300 |
| | **List of proposed native trees :** | As per suggested name from competent authority |
| | **Timeline for completion of plantation :** | Within 1st 3 years of operation |

## 44.Number and list of trees species to be planted in the ground

| Serial Number | Name of the plant | Common Name | Quantity | Characteristics & ecological importance |
|---|---|---|---|---|
| 1 | Azadirachta indica | Neem/Bevu | 2000 | Controlling Suspended Particulate Matter (SPM), S02, NOx and Noise |
| 2 | Ficus religiosa | Peepal | 200 | Controlling Suspended Particulate Matter (SPM), S02, NOx and Noise |
| 3 | Pongamia pinnata | Karanj/ Indian Beech Tree | 500 | Controlling Suspended Particulate Matter (SPM), S02, NOx and Noise |
| 4 | Tectona grandis | Teak | 1000 | Controlling Suspended Particulate Matter (SPM), S02, NOx and Noise |
| 5 | Aegle marmelos | Bel | 300 | Controlling Suspended Particulate Matter (SPM), S02, NOx and Noise |
| 6 | Grevellia robusta | Silver Oak | 500 | Controlling Suspended Particulate Matter (SPM), S02, NOx and Noise |
| 7 | Casuarina equisetifolia | Jhau | 1000 | Controlling Suspended Particulate Matter (SPM), S02, NOx and Noise |
| **45.Total quantity of plants on ground** | | | | |

## 46.Number and list of shrubs and bushes species to be planted in the podium RG:

| Serial Number | Name | C/C Distance | Area m2 |
|---|---|---|---|
| 1 | NA | NA | NA |

## 47.Energy

| | | |
|---|---|---|
| **Power requirement:** | **Source of power supply :** | Nearest Sub Station at Penn/Alibag |
| | **During Construction Phase: (Demand Load)** | 1000 KW |
| | **DG set as Power back-up during construction phase** | 250 KW |
| | **During Operation phase (Connected load):** | 3000 KW |
| | **During Operation phase (Demand load):** | 2500 KW |
| | **Transformer:** | Not Required |
| | **DG set as Power back-up during operation phase:** | Not Required |
| | **Fuel used:** | Not Required |
| | **Details of high tension line passing through the plot if any:** | None |

## 48.Energy saving by non-conventional method:

1. Explore the possibility of Solar Lighting along road and common facility area of the proposed project
2. Illumination by LED

## 49.Detail calculations & % of saving:

| Serial Number | Energy Conservation Measures | Saving % |
|---|---|---|
| 1 | Explore the possibility of solar lighting along road and common area within the plant premises | 10 KW |

## 50.Details of pollution control Systems

| Source | Existing pollution control system | Proposed to be installed |
|---|---|---|
| Silo | Not Applicable | Dust Extraction System & Bag Filter |
| Sewage | Not Applicable | Sewage Treatment Plant |

| | | |
|---|---|---|
| **Budgetary allocation (Capital cost and O&M cost):** | **Capital cost:** | Rs. 2 Crore (Approx.) |
| | **O & M cost:** | Rs. 10 Lakhs/Year (Approx.) |

## 51.Environmental Management plan Budgetary Allocation

### a) Construction phase (with Break-up):

| Serial Number | Attributes | Parameter | Total Cost per annum (Rs. In Lacs) |
|---|---|---|---|
| 1 | Ambient Air Quality & Noise Level Monitoring | PM10, PM2.5, SO2, NO2, Noise Level | Rs. 2 .0 (Approx.) |
| 2 | Water Quality Monitoring | As per drinking water standard and Inland Surface Water Quality Standard | Rs. 2 .0 (Approx.) |

| | | | |
|---|---|---|---|
| 3 | Dust Suppression | Major noise generating sources 24 hr | Rs. 2 .5 (Approx.) |
| 4 | Green Belt Development | 100 Trees | Rs. 0.5 (Approx.) |
| 5 | Workers Health & Welfare | Health & Sanitation, Education, etc. | Rs. 3.0(Approx.) |
| 6 | Maintenance of internal temporary road & drainage | Road & Drainage | Rs. 5.0 (Approx.) |

## b) Operation Phase (with Break-up):

| Serial Number | Component | Description | Capital cost Rs. In Lacs | Operational and Maintenance cost (Rs. in Lacs/yr) |
|---|---|---|---|---|
| 1 | Air Pollution Control System | Bag Filters | 200 | 10 |
| 2 | Water Pollution Control System | Sewage Treatment and Water Quality Monitoring | 25 | 5 |
| 3 | Occupational Health & Safety | Workers | 30 | 3 |
| 4 | Green Belt Development | 6000 Trees and Green Carpet Area | 30 | 10 |
| 5 | Environment Monitoring | PM10, PM2.5, SO2, NO2, Noise Level | 30 | 10 |

## 51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

| Description | Status | Location | Storage Capacity in MT | Maximum Quantity of Storage at any point of time in MT | Consumption / Month in MT | Source of Supply | Means of transportation |
|---|---|---|---|---|---|---|---|
| NA | NA | NA | NA | NA | NA | NA | NA |

## 52.Any Other Information

No Information Available

## 53.Traffic Management

| | | |
|---|---|---|
| | **Nos. of the junction to the main road & design of confluence:** | 1 |

| | | |
|---|---|---|
| **Parking details:** | **Number and area of basement:** | Nil |
| | **Number and area of podia:** | Nil |
| | **Total Parking area:** | 10000 Sq. Mt. |
| | **Area per car:** | 20 Sq. Mt. |
| | **Area per car:** | 20 Sq. Mt. |
| | **Number of 2-Wheelers as approved by competent authority:** | 20 |
| | **Number of 4-Wheelers as approved by competent authority:** | 10 |
| | **Public Transport:** | Nil |
| | **Width of all Internal roads (m):** | 15 mt. |
| | **CRZ/ RRZ clearance obtain, if any:** | To be applied |
| | **Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries** | There is no protected area (National Park, Wildlife Sanctuary, Conservation Reserve, Community Reserve) within 15km radius from the project area |
| | **Category as per schedule of EIA Notification sheet** | 3(b) |
| | **Court cases pending if any** | None |
| | **Other Relevant Informations** | Nil |
| | **Have you previously submitted Application online on MOEF Website.** | No |
| | **Date of online submission** | - |

## SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

| | |
|---|---|
| **Environmental Impacts of the project** | Not Applicable |
| **Water Budget** | Not Applicable |
| **Waste Water Treatment** | Not Applicable |
| **Drainage pattern of the project** | Not Applicable |
| **Ground water parameters** | Not Applicable |
| **Solid Waste Management** | Not Applicable |

| | |
|---|---|
| **Air Quality & Noise Level issues** | Not Applicable |
| **Energy Management** | Not Applicable |
| **Traffic circulation system and risk assessment** | Not Applicable |
| **Landscape Plan** | Not Applicable |
| **Disaster management system and risk assessment** | Not Applicable |
| **Socioeconomic impact assessment** | Not Applicable |
| **Environmental Management Plan** | Not Applicable |
| **Any other issues related to environmental sustainability** | Not Applicable |

## Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 3(b)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

## DECISION OF SEAC

During deliberations with the PP and their accridited consultant, it is obsrved that the total plot area is19.11 Ha out of which part area is affetced by CRZ Regulations. PP is not able to explain about the exact area affected by CRZ Regulations. PP informed that they have not yet applied for CRZ clearance to the MCZMA for proposed development.

PP submitted their proposal for the Cement Blending Palnt under category 3(b) but during presentation it is revealed that PP wants Environmental Clearance for integrated proposal for Cement Blending Plant and development of Jeety under category 7(e) for which PP has not applied.

In view of above facts, SEAC is of the opinion that, PP should first obtain CRZ clearance from MCZMA and then apply for integrated proposal of Cement Blending under category 3(b) and Jetty Construction under category 7 (e) for prior Environmental Clearance.

Hence, deferred.

**Specific Conditions by SEAC:**

## FINAL RECOMMENDATION

SEAC-I decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

**Subject:** Environment Clearance for M/s. GRESS INDUSTRIES

**Is a Violation Case:** No

| | |
|---|---|
| **1.Name of Project** | Proposed 300 MTD of Cement Grinding Unit |
| **2.Type of institution** | Private |
| **3.Name of Project Proponent** | Mr. Dineshbhai Bhanderi |
| **4.Name of Consultant** | Green Circle, Inc. |
| **5.Type of project** | Not applicable |
| **6.New project/expansion in existing project/modernization/diversification in existing project** | New project |
| **7.If expansion/diversification, whether environmental clearance has been obtained for existing project** | NA |
| **8.Location of the project** | Gat No. 1101, Village:Pargaon, Taluka Khandala, Dist: Satara, Maharashtra. |
| **9.Taluka** | Khandala |
| **10.Village** | Pargaon |
| **Correspondence Name:** | Mr. Dineshbhai Bhanderi |
| **Room Number:** | Tanti Park -1, 150ft Ring Road, Rajkot |
| **Floor:** | NA |
| **Building Name:** | M/s. GRESS INDUSTRIES |
| **Road/Street Name:** | NA |
| **Locality:** | Village:Pargaon |
| **City:** | Khandala |
| **11.Area of the project** | Other Area |
| **12.IOD/IOA/Concession/Plan Approval Number** | Not applicable |
| | **IOD/IOA/Concession/Plan Approval Number:** Not applicable |
| | **Approved Built-up Area:** 2500 |
| **13.Note on the initiated work (If applicable)** | Not applicable |
| **14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)** | Not applicable |
| **15.Total Plot Area (sq. m.)** | 3717.47 |
| **16.Deductions** | Not Applicable |
| **17.Net Plot area** | 3717.47 |
| **18 (a).Proposed Built-up Area (FSI & Non-FSI)** | **a) FSI area (sq. m.):** 2041.758 |
| | **b) Non FSI area (sq. m.):** 458.24 |
| | **c) Total BUA area (sq. m.):** 2500 |
| **18 (b).Approved Built up area as per DCR** | **Approved FSI area (sq. m.):** |
| | **Approved Non FSI area (sq. m.):** |
| | **Date of Approval:** |
| **19.Total ground coverage (m2)** | 1134.31 |
| **20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)** | 30.51 |
| **21.Estimated cost of the project** | 8000000 |

## 22.Number of buildings & its configuration

| Serial number | Building Name & number | Number of floors | Height of the building (Mtrs) |
|---|---|---|---|

| | | | |
|---|---|---|---|
| 1 | Not applicable | Not applicable | Not applicable |

| | |
|---|---|
| **23.Number of tenants and shops** | Not applicable |
| **24.Number of expected residents / users** | Not applicable |
| **25.Tenant density per hectare** | Not applicable |
| **26.Height of the building(s)** | |
| **27.Right of way (Width of the road from the nearest fire station to the proposed building(s)** | 9 m |
| **28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation** | 9 m |
| **29.Existing structure (s) if any** | Not applicable |
| **30.Details of the demolition with disposal (If applicable)** | Not applicable |

## 31.Production Details

| Serial Number | Product | Existing (MT/M) | Proposed (MT/M) | Total (MT/M) |
|---|---|---|---|---|
| 1 | Cement | Not applicable | 9000 | 9000 |

## 32.Total Water Requirement

| | | |
|---|---|---|
| **Dry season:** | **Source of water** | Borewell |
| | **Fresh water (CMD):** | Not applicable |
| | **Recycled water - Flushing (CMD):** | Not applicable |
| | **Recycled water - Gardening (CMD):** | Not applicable |
| | **Swimming pool make up (Cum):** | Not applicable |
| | **Total Water Requirement (CMD) :** | Not applicable |
| | **Fire fighting - Underground water tank(CMD):** | Not applicable |
| | **Fire fighting - Overhead water tank(CMD):** | Not applicable |
| | **Excess treated water** | Not applicable |

| | | |
|---|---|---|
| **Wet season:** | **Source of water** | Borewell |
| | **Fresh water (CMD):** | Not applicable |
| | **Recycled water - Flushing (CMD):** | Not applicable |
| | **Recycled water - Gardening (CMD):** | Not applicable |
| | **Swimming pool make up (Cum):** | Not applicable |
| | **Total Water Requirement (CMD) :** | Not applicable |
| | **Fire fighting - Underground water tank(CMD):** | Not applicable |
| | **Fire fighting - Overhead water tank(CMD):** | Not applicable |
| | **Excess treated water** | Not applicable |
| **Details of Swimming pool (If any)** | Not applicable | |

## 33.Details of Total water consumed

| Particulars | Consumption (CMD) | | | Loss (CMD) | | | Effluent (CMD) | | |
|---|---|---|---|---|---|---|---|---|---|
| **Water Requirement** | **Existing** | **Proposed** | **Total** | **Existing** | **Proposed** | **Total** | **Existing** | **Proposed** | **Total** |
| Domestic | NA | 1.4 | 1.4 | NA | 0.2 | 0.2 | NA | 1.2 | 1.2 |
| Gardening | NA | 1.6 | 1.6 | NA | 1.6 | 1.6 | NA | NA | NA |

| | | |
|---|---|---|
| **34.Rain Water Harvesting (RWH)** | **Level of the Ground water table:** | 5.0 to 6.0 m bgl |
| | **Size and no of RWH tank(s) and Quantity:** | 1 tank x 300 m3 |
| | **Location of the RWH tank(s):** | UG |
| | **Quantity of recharge pits:** | NA |
| | **Size of recharge pits :** | NA |
| | **Budgetary allocation (Capital cost) :** | NA |
| | **Budgetary allocation (O & M cost) :** | NA |
| | **Details of UGT tanks if any :** | Water storage: 1 No. x 300 m3 firewater tank and 1 No. x 300 m3 water tank |

| | | |
|---|---|---|
| **35.Storm water drainage** | **Natural water drainage pattern:** | Towards North |
| | **Quantity of storm water:** | 0.148 m3/sec |
| | **Size of SWD:** | 2.5 m x 1.5 m |
| | | |
| **Sewage and Waste water** | **Sewage generation in KLD:** | 1.2 |
| | **STP technology:** | Domestic waste water will be disposed off through septic tank/ soak pit. |
| | **Capacity of STP (CMD):** | Not applicable |
| | **Location & area of the STP:** | Not applicable |
| | **Budgetary allocation (Capital cost):** | Not applicable |
| | **Budgetary allocation (O & M cost):** | Not applicable |

## 36.Solid waste Management

| | | |
|---|---|---|
| **Waste generation in the Pre Construction and Construction phase:** | **Waste generation:** | Construction debris, Waste concrete, metallic waste, plastics, broken bricks etc. |
| | **Disposal of the construction waste debris:** | Construction debris, Waste concrete and broken bricks will be utilized in low-land leveling, secondary concrete, below roads. Some quantity of Excavation soil will be use for back-filling and remaining will be hand over to authorized vendor. |
| **Waste generation in the operation Phase:** | **Dry waste:** | Discarded barrels / containers / bags / liners |
| | **Wet waste:** | Not applicable |
| | **Hazardous waste:** | Used/spent oil |
| | **Biomedical waste (If applicable):** | Not applicable |
| | **STP Sludge (Dry sludge):** | Not applicable |
| | **Others if any:** | Not applicable |
| **Mode of Disposal of waste:** | **Dry waste:** | Returned to raw material supplier |
| | **Wet waste:** | Not applicable |
| | **Hazardous waste:** | Sold to registered processor |
| | **Biomedical waste (If applicable):** | Not applicable |
| | **STP Sludge (Dry sludge):** | Not applicable |
| | **Others if any:** | Not applicable |
| **Area requirement:** | **Location(s):** | Not applicable |
| | **Area for the storage of waste & other material:** | Not applicable |
| | **Area for machinery:** | Not applicable |
| **Budgetary allocation (Capital cost and O&M cost):** | **Capital cost:** | Not applicable |
| | **O & M cost:** | Not applicable |

## 37.Effluent Charecterestics

| Serial Number | Parameters | Unit | Inlet Effluent Charecterestics | Outlet Effluent Charecterestics | Effluent discharge standards (MPCB) |
|---|---|---|---|---|---|
| 1 | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| Amount of effluent generation (CMD): | | Not applicable | | | |
| Capacity of the ETP: | | Not applicable | | | |
| Amount of treated effluent recycled : | | Not applicable | | | |
| Amount of water send to the CETP: | | Not applicable | | | |
| Membership of CETP (if require): | | Not applicable | | | |
| Note on ETP technology to be used | | Not applicable | | | |
| Disposal of the ETP sludge | | Not applicable | | | |

## 38.Hazardous Waste Details

| Serial Number | Description | Cat | UOM | Existing | Proposed | Total | Method of Disposal |
|---|---|---|---|---|---|---|---|
| 1 | Used/spent oil | 5.1 | Litres/Month | NA | 1.5 | 1.5 | Sold to registered processor |

## 39.Stacks emission Details

| Serial Number | Section & units | Fuel Used with Quantity | Stack No. | Height from ground level (m) | Internal diameter (m) | Temp. of Exhaust Gases |
|---|---|---|---|---|---|---|
| 1 | D G set 1 no. x 185 KVA | Diesel - 38 L/hr | 1 | 5 | 150 | 70 to 80 |

## 40.Details of Fuel to be used

| Serial Number | Type of Fuel | Existing | Proposed | Total |
|---|---|---|---|---|
| 1 | Diesel | NA | 38 L/hr | 38 L/hr |
| 41.Source of Fuel | | Local Market | | |
| 42.Mode of Transportation of fuel to site | | Road Transport | | |

| | | |
|---|---|---|
| **43.Green Belt Development** | **Total RG area :** | 1336 |
| | **No of trees to be cut :** | Not Apllicable |
| | **Number of trees to be planted :** | 80 |
| | **List of proposed native trees :** | Kadamb, Ashok, Bakul, Bahava etc. |
| | **Timeline for completion of plantation :** | 1 Years |

## 44.Number and list of trees species to be planted in the ground

| Serial Number | Name of the plant | Common Name | Quantity | Characteristics & ecological importance |
|---|---|---|---|---|
| 1 | Saraca asoka | Ashok | 10 | Shady tree with red-yellow flowers |
| 2 | Azadirachta indica | Neem | 10 | Semi-evergreen tree with medicinal value |

| | | | | |
|---|---|---|---|---|
| 3 | Mangifera indica | Mango | 10 | Fruit Tree Evergreen & bird attracting tree |
| 4 | Anthocephallus | Kadamb | 10 | Shady, large deciduous tree, fastgrowing graceful tre |
| 5 | Mimusops elengi | Bakul | 10 | Shady tree, small white fragrant flowers |
| 6 | Cassia fistula | Bahava | 10 | Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant |
| 7 | Bauhinia racemosa | Apta | 5 | Small tree with small white flowers, Butterfly host plant |
| 8 | Bombax ceiba | Kate sawar | 5 | Large deciduous tree. Flowers attract many birds. |
| 9 | Albizia lebbeck | Shirish | 10 | Medicinal for Skin, Fragrant flowers, To control soil erosion, Bird attracting species ( Para kids eat seeds ) |
| **45.Total quantity of plants on ground** | | | | |

## 46.Number and list of shrubs and bushes species to be planted in the podium RG:

| Serial Number | Name | C/C Distance | Area m2 |
|---|---|---|---|
| 1 | Not Apllicable | Not Apllicable | Not Apllicable |

## 47.Energy

| | | |
|---|---|---|
| **Power requirement:** | **Source of power supply :** | MSEDCL |
| | **During Construction Phase: (Demand Load)** | 5 hp |
| | **DG set as Power back-up during construction phase** | Not Applicable |
| | **During Operation phase (Connected load):** | 200 hp |
| | **During Operation phase (Demand load):** | 200 hp |
| | **Transformer:** | Not Applicable |
| | **DG set as Power back-up during operation phase:** | 185 KVA |
| | **Fuel used:** | Diesel |
| | **Details of high tension line passing through the plot if any:** | Not Applicable |

## 48.Energy saving by non-conventional method:

Purchase of energy efficient appliances.
Constant monitoring of energy consumption and defining targets for energy conservation.
Adjusting the settings and illumination levels to ensure minimum energy used for desired comfort levels.
Proper temperature controls will be provided to reduce load on heating systems.
Proper load factor will be maintained by the company
Company will adopt good maintenance practices and will maintain good housekeeping which will help in better illumination levels with least number of fixtures
LED lamps will be provided, wherever applicable.
To the extent possible and technically feasible, energy efficient equipment will be selected.

## 49.Detail calculations & % of saving:

| Serial Number | Energy Conservation Measures | Saving % |
|---|---|---|
| 1 | Not Applicable | Not Applicable |

## 50.Details of pollution control Systems

| Source | Existing pollution control system | Proposed to be installed |
|---|---|---|
| Air Emission | NA | Adequate Stack Height will be provided for Flue gas |
| Solid Waste | NA | Sold to registered processor |
| Wastewater - Domestic use | NA | Sewage will be disposed off into Septic tank/soakpit |
| Noise - Process area | NA | The workers would be provided with proper personal protective equipment (PPE) such as ear plugs, ear muffs etc. The DG sets would be enclosed in canopy as well as silencer. |

| | | |
|---|---|---|
| **Budgetary allocation (Capital cost and O&M cost):** | **Capital cost:** | Not Applicable |
| | **O & M cost:** | Not Applicable |

## 51.Environmental Management plan Budgetary Allocation

### a) Construction phase (with Break-up):

| Serial Number | Attributes | Parameter | Total Cost per annum (Rs. In Lacs) |
|---|---|---|---|
| 1 | Dust suppression | Water sprinkling, dust mask | 0.5 |
| 2 | Green Belt development | Tree plantation | 0.25 |
| 3 | Solid waste management facility | Solid waste collection and disposal facility | 0.25 |
| 4 | Environment Monitoring | Monitoring charges of Air, water, noise | 0.35 |
| 5 | Occupational Health | Health check-up, PPEs | 0.65 |

### b) Operation Phase (with Break-up):

| Serial Number | Component | Description | Capital cost Rs. In Lacs | Operational and Maintenance cost (Rs. in Lacs/yr) |
|---|---|---|---|---|
| 1 | Air Pollution Control | Stacks for Boiler, Thermic fluid heater | 4 | 0.5 |
| 2 | Environment Monitoring and Management | Environmental Monitoring of Air, water, noise | 0.65 | 0.3 |

| | | | | |
|---|---|---|---|---|
| 3 | Occupational Health | Health Check-up of workers, Provision of First-aid medical facility, Provision of PPEs to workers | 1.5 | 0.5 |
| 4 | Occupational Health | Health Check-up of workers, Provision of First-aid medical facility, Provision of PPEs to workers | 1.5 | 0.5 |
| 5 | Green Belt | Development of trees, Green area | 1.0 | 0.5 |

## 51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

| Description | Status | Location | Storage Capacity in MT | Maximum Quantity of Storage at any point of time in MT | Consumption / Month in MT | Source of Supply | Means of transportation |
|---|---|---|---|---|---|---|---|
| Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |

## 52.Any Other Information

No Information Available

## 53.Traffic Management

| | | |
|---|---|---|
| | **Nos. of the junction to the main road & design of confluence:** | Two nos. |
| **Parking details:** | **Number and area of basement:** | Not Applicable |
| | **Number and area of podia:** | Not Applicable |
| | **Total Parking area:** | 225 |
| | **Area per car:** | Not Applicable |
| | **Area per car:** | Not Applicable |
| | **Number of 2-Wheelers as approved by competent authority:** | Not Applicable |
| | **Number of 4-Wheelers as approved by competent authority:** | Not Applicable |
| | **Public Transport:** | Auto Rickshaw from 500 m of plant boundary |
| | **Width of all Internal roads (m):** | 9 m, 7.5 m & 6 m |
| | **CRZ/ RRZ clearance obtain, if any:** | Not Applicable |

| | | |
|---|---|---|
| | **Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries** | Not Applicable |
| | **Category as per schedule of EIA Notification sheet** | 'B' Category, schedule 3(b) |
| | **Court cases pending if any** | Not Applicable |
| | **Other Relevant Informations** | Not Applicable |
| | **Have you previously submitted Application online on MOEF Website.** | No |
| | **Date of online submission** | - |

## SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

| | |
|---|---|
| **Environmental Impacts of the project** | Not Applicable |
| **Water Budget** | Not Applicable |
| **Waste Water Treatment** | Not Applicable |
| **Drainage pattern of the project** | Not Applicable |
| **Ground water parameters** | Not Applicable |
| **Solid Waste Management** | Not Applicable |
| **Air Quality & Noise Level issues** | Not Applicable |
| **Energy Management** | Not Applicable |
| **Traffic circulation system and risk assessment** | Not Applicable |
| **Landscape Plan** | Not Applicable |
| **Disaster management system and risk assessment** | Not Applicable |
| **Socioeconomic impact assessment** | Not Applicable |
| **Environmental Management Plan** | Not Applicable |
| **Any other issues related to environmental sustainability** | Not Applicable |

## Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 3(b)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

Public Hearing is applicable.

PP to collect base line data as per Office Memorandum issued by MoEF&CC dated 27.08.2017.

## DECISION OF SEAC

Based on the presentation made by PP; committee decided to approve the TOR for the preparation of EIA/EMP report as per standard TOR and additional TOR points mentioned below.

**Specific Conditions by SEAC:**

**1)** PP to submit certificate of incorporation of the company, list of Board of Directors, memorandum of articles and memorandum of association.
**2)** PP to submit lay out plan showing entry and exit gates , minimum internal road width of six meters and turning radius of nine meters, location of pollution control equipment, parking areas, 33% green belt within the plot area, solid and hazardous waste storage areas ,rain water harvesting etc
**3)** PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc.
**4)** PP to submit remarks from the town planning department whether industrial development is permissible on proposed plot as per Regional Plan.
**5)** PP to obtain permission from competent authority for drawing ground water.
**6)** PP to submit drawing showing access road to the proposed site with road width and turning radius.
**7)** PP to include details of transport of raw material to the site along with its impact on the environment and mitigation measures proposed in the EIA report.
**8)** PP to submit details on the procurement of clinkers, fly ash, metal slag and Gypsum along with their technical specifications to ensure the quality of product. PP also to submit technical specifications of the final product against relevant standards.
**9)** PP to submit CSR plan to be prepared in consultation with the District Authorities along with its implementation Schedule. PP to maintain separate account for CSR funds.
**10)** PP to carry out Risk Assessment and submit Disaster Management Plan.
**11)** PP to submit detailed water balance calcualtions. No soak pit shall be provided in stead PP to provide STP for the treatment of domestic sewage and recycle treated sewage shall be used for sprinkling to control dust emissions.
**12)** PP to submit details of the maximum storage of raw material against the production quantity and make changes in the product manufacturing quantity if storage is found inadequate in the site.
**13)** PP to include use of non conventional energy in the EIA report.
**14)** PP to provide lightening arrestor.

## FINAL RECOMMENDATION

The Committee decided to Grant ToR subject to the above observations,PP requested to prepare and submit EIA report as per EIA Notification, 2006 and amendments thereof.

**Subject:** Environment Clearance for Environmental Clearance for Industrial Project for Manufacturing Molten Steel, Ingots and Billets, 130000 MT/A

**Is a Violation Case:** No

| | |
|---|---|
| **1.Name of Project** | M/s Jaideep Metallics & Alloys Private Limited |
| **2.Type of institution** | Private |
| **3.Name of Project Proponent** | Manohar Lal Singhania |
| **4.Name of Consultant** | Creative Enviro Services |
| **5.Type of project** | Not applicable |
| **6.New project/expansion in existing project/modernization/diversification in existing project** | New |
| **7.If expansion/diversification, whether environmental clearance has been obtained for existing project** | NA |
| **8.Location of the project** | Gut No. - 78(P) & Gut No. 79 , Village Lakhmapur, |
| **9.Taluka** | Wada |
| **10.Village** | Lakhmapur |
| **Correspondence Name:** | Mr. Ajay Kumar Lalgarhia, M/s Jaideep Metallics & Alloys Private Limited |
| **Room Number:** | 108 |
| **Floor:** | 1st floor |
| **Building Name:** | Neha Industrial Estate , Behind CCI Ltd. |
| **Road/Street Name:** | Off. Dattapada Road |
| **Locality:** | Borivali (East) |
| **City:** | Mumbai |
| **11.Area of the project** | Group Grampanchayat Jamghar-Lakhmapur |
| **12.IOD/IOA/Concession/Plan Approval Number** | NA |
| | **IOD/IOA/Concession/Plan Approval Number:** NA |
| | **Approved Built-up Area:** 1755.85 |
| **13.Note on the initiated work (If applicable)** | Construction of factory shed has been stared, as Consent for Establishment of the industry for production capacity 28500 MT/A has been obtained from MPCB. |
| **14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)** | NA |
| **15.Total Plot Area (sq. m.)** | 6000 sqm |
| **16.Deductions** | 2097.79 sqm |
| **17.Net Plot area** | 3902.21 sqm |
| **18 (a).Proposed Built-up Area (FSI & Non-FSI)** | **a) FSI area (sq. m.):** NA |
| | **b) Non FSI area (sq. m.):** NA |
| | **c) Total BUA area (sq. m.):** 1755.85 |
| **18 (b).Approved Built up area as per DCR** | **Approved FSI area (sq. m.):** |
| | **Approved Non FSI area (sq. m.):** |
| | **Date of Approval:** |
| **19.Total ground coverage (m2)** | NA |
| **20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)** | NA |
| **21.Estimated cost of the project** | 300000000 |

## 22.Number of buildings & its configuration

| Serial number | Building Name & number | Number of floors | Height of the building (Mtrs) |
|---|---|---|---|
| 1 | FACTORY SHED | 121 | 21 |

| | |
|---|---|
| **23.Number of tenants and shops** | NA |
| **24.Number of expected residents / users** | 150 |
| **25.Tenant density per hectare** | NA |
| **26.Height of the building(s)** | |
| **27.Right of way (Width of the road from the nearest fire station to the proposed building(s)** | 20 Mtrs |
| **28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation** | Not applicable |
| **29.Existing structure (s) if any** | Not applicable |
| **30.Details of the demolition with disposal (If applicable)** | Not applicable |

## 31.Production Details

| Serial Number | Product | Existing (MT/M) | Proposed (MT/M) | Total (MT/M) |
|---|---|---|---|---|
| 1 | Molten Steel , Ingots , Billets | - | 130000 MT/A | 130000 MT/A |

## 32.Total Water Requirement

| | | |
|---|---|---|
| Dry season: | **Source of water** | Ground water and from Private Tankers, RWH Pit |
| | **Fresh water (CMD):** | 80 |
| | **Recycled water - Flushing (CMD):** | 5 |
| | **Recycled water - Gardening (CMD):** | 6 |
| | **Swimming pool make up (Cum):** | NA |
| | **Total Water Requirement (CMD) :** | 120 CMD |
| | **Fire fighting - Underground water tank(CMD):** | NA |
| | **Fire fighting - Overhead water tank(CMD):** | 10 CMD |
| | **Excess treated water** | 0 |
| Wet season: | **Source of water** | Ground water , RWH Pit |
| | **Fresh water (CMD):** | 80 |
| | **Recycled water - Flushing (CMD):** | 5 |
| | **Recycled water - Gardening (CMD):** | 0 |
| | **Swimming pool make up (Cum):** | NA |
| | **Total Water Requirement (CMD) :** | 114 CMD |
| | **Fire fighting - Underground water tank(CMD):** | NA |
| | **Fire fighting - Overhead water tank(CMD):** | 10 CMD |
| | **Excess treated water** | 0 |
| **Details of Swimming pool (If any)** | NA | |

## 33.Details of Total water consumed

| Particulars | Consumption (CMD) | | | Loss (CMD) | | | Effluent (CMD) | | |
|---|---|---|---|---|---|---|---|---|---|
| **Water Requirement** | **Existing** | **Proposed** | **Total** | **Existing** | **Proposed** | **Total** | **Existing** | **Proposed** | **Total** |
| Domestic | - | 10 | 10 | - | 1.5 | 1.5 | - | 8.5 | 8.5 |
| Industrial Process | - | 24 | 24 | - | 6 | 6 | - | 18 | 18 |
| Cooling tower & thermopack | - | 80 | 80 | - | - | 80 | - | 0 | 0 |
| Gardening | - | 6 | 6 | - | 6 | 6 | - | 0 | 0 |

| | | |
|---|---|---|
| **34.Rain Water Harvesting (RWH)** | **Level of the Ground water table:** | 200 Mtrs |
| | **Size and no of RWH tank(s) and Quantity:** | 10m x 10mx 10m - 1 Nos. |
| | **Location of the RWH tank(s):** | Near Factory gate |
| | **Quantity of recharge pits:** | 2 Nos. |
| | **Size of recharge pits :** | 3m x 3m x 3m |
| | **Budgetary allocation (Capital cost) :** | 200000/- |
| | **Budgetary allocation (O & M cost) :** | 10000/- |
| | **Details of UGT tanks if any :** | NA |
| | | |
| **35.Storm water drainage** | **Natural water drainage pattern:** | Strome water drains will be constructed as per level of plot. |
| | **Quantity of storm water:** | Will be elaborated in EIA report |
| | **Size of SWD:** | Will be elaborated in EIA report |
| | | |
| **Sewage and Waste water** | **Sewage generation in KLD:** | 8.5 |
| | **STP technology:** | Extended aeration system |
| | **Capacity of STP (CMD):** | STP - 1 No., Capacity - 10 KLD |
| | **Location & area of the STP:** | Near HT Switch Yard, area - 20 sqm |
| | **Budgetary allocation (Capital cost):** | 25.0 Lakhs |
| | **Budgetary allocation (O & M cost):** | 3.0 Lakhs |
| **36.Solid waste Management** | | |
| **Waste generation in the Pre Construction and Construction phase:** | **Waste generation:** | Construction waste debris |
| | **Disposal of the construction waste debris:** | re used at site |
| **Waste generation in the operation Phase:** | **Dry waste:** | 80 kd/day |
| | **Wet waste:** | 50 kg/day |
| | **Hazardous waste:** | Used oil - 20 Lit/ M |
| | **Biomedical waste (If applicable):** | NA |
| | **STP Sludge (Dry sludge):** | 2.0 kg/day |
| | **Others if any:** | Slag - 30 TPD |

| | | |
|---|---|---|
| **Mode of Disposal of waste:** | **Dry waste:** | Handed over to Authorized vendors |
| | **Wet waste:** | making vermi compost |
| | **Hazardous waste:** | Authorized Recyeler |
| | **Biomedical waste (If applicable):** | NA |
| | **STP Sludge (Dry sludge):** | Used as Manure |
| | **Others if any:** | Slag shall be used for road construction. |
| **Area requirement:** | **Location(s):** | Within Plant |
| | **Area for the storage of waste & other material:** | 100 sqm |
| | **Area for machinery:** | NA |
| **Budgetary allocation (Capital cost and O&M cost):** | **Capital cost:** | 15.0 Lakh |
| | **O & M cost:** | 100000 Lakh |

## 37.Effluent Charecterestics

| Serial Number | Parameters | Unit | Inlet Effluent Charecterestics | Outlet Effluent Charecterestics | Effluent discharge standards (MPCB) |
|---|---|---|---|---|---|
| 1 | NA ` | NA | NA | NA | NA |

| | |
|---|---|
| Amount of effluent generation (CMD): | NA |
| Capacity of the ETP: | NA |
| Amount of treated effluent recycled : | NA |
| Amount of water send to the CETP: | NA |
| Membership of CETP (if require): | NA |
| Note on ETP technology to be used | NA |
| Disposal of the ETP sludge | NA |

## 38.Hazardous Waste Details

| Serial Number | Description | Cat | UOM | Existing | Proposed | Total | Method of Disposal |
|---|---|---|---|---|---|---|---|
| 1 | Used Oil | 5.1 | Liters | - | 20 | 20 | Authorized Recycler |

## 39.Stacks emission Details

| Serial Number | Section & units | Fuel Used with Quantity | Stack No. | Height from ground level (m) | Internal diameter (m) | Temp. of Exhaust Gases |
|---|---|---|---|---|---|---|
| 1 | Induction Furnace | Electricity | 1 | 30 | 1.6 | 92 degree Centigrade |

## 40.Details of Fuel to be used

| Serial Number | Type of Fuel | Existing | Proposed | Total |
|---|---|---|---|---|
| 1 | Electricity | - | 14000 KVA | 14000 KVA |

| | |
|---|---|
| 41.Source of Fuel | MSEDCL |
| 42.Mode of Transportation of fuel to site | by HT line |

| | | |
|---|---|---|
| **43.Green Belt Development** | **Total RG area :** | 33% of total plot area |
| | **No of trees to be cut :** | 0 |
| | **Number of trees to be planted :** | 400 |
| | **List of proposed native trees :** | Ashoka, Kadamb, Mango, Neem, and other native species |
| | **Timeline for completion of plantation :** | within 2 years |

## 44.Number and list of trees species to be planted in the ground

| Serial Number | Name of the plant | Common Name | Quantity | Characteristics & ecological importance |
|---|---|---|---|---|
| 1 | Saraca asoca | Ashok | 100 | Deciduous |
| 2 | Neolamarkia Cadamba | Kadamb | 100 | Tropical fruit tree, bird attracting |
| 3 | Mangifera indica | Mango | 100 | Semi Deciduous |
| 4 | Azadirachta indica | Neem | 100 | Deciduous |
| **45.Total quantity of plants on ground** | | | | |

## 46.Number and list of shrubs and bushes species to be planted in the podium RG:

| Serial Number | Name | C/C Distance | Area m2 |
|---|---|---|---|
| 1 | NA | NA | NA |

## 47.Energy

| | | |
|---|---|---|
| **Power requirement:** | **Source of power supply :** | MSEDCL |
| | **During Construction Phase: (Demand Load)** | 150 KVA |
| | **DG set as Power back-up during construction phase** | NA |
| | **During Operation phase (Connected load):** | 14000 KVA |
| | **During Operation phase (Demand load):** | 15000 KVA |
| | **Transformer:** | Yes |
| | **DG set as Power back-up during operation phase:** | 1 Nos. x 500 KVA |
| | **Fuel used:** | Diesel |
| | **Details of high tension line passing through the plot if any:** | NA |

## 48.Energy saving by non-conventional method:

NA

## 49.Detail calculations & % of saving:

| Serial Number | Energy Conservation Measures | Saving % |
|---|---|---|
| 1 | NA | NA |

## 50.Details of pollution control Systems

| Source | Existing pollution control system | Proposed to be installed |
|---|---|---|
| Induction Furnace | - | Fume Extraction System, Bag Filter & Stack |

| | | |
|---|---|---|
| **Budgetary allocation (Capital cost and O&M cost):** | **Capital cost:** | NA |
| | **O & M cost:** | NA |

## 51.Environmental Management plan Budgetary Allocation

### a) Construction phase (with Break-up):

| Serial Number | Attributes | Parameter | Total Cost per annum (Rs. In Lacs) |
|---|---|---|---|
| 1 | Air Pollution | PM | Rs. 1.0 Lakh |

### b) Operation Phase (with Break-up):

| Serial Number | Component | Description | Capital cost Rs. In Lacs | Operational and Maintenance cost (Rs. in Lacs/yr) |
|---|---|---|---|---|
| 1 | Air Pollution Control | FES, Bag filter | 100.0 | 3.0 |
| 2 | Water Pollution Control | STP | 25.0 | 3.0 |
| 3 | Solid Waste Management | Handling and disposal | 15.0 | 1.0 |
| 4 | Green Belt | Plantation | 2.0 | 0.5 |
| 5 | Environmental Monitoring | Air Quality, Stack Monitoring, Waste water quality , Noise level , soil quality | - | 3.0 |

## 51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

| Description | Status | Location | Storage Capacity in MT | Maximum Quantity of Storage at any point of time in MT | Consumption / Month in MT | Source of Supply | Means of transportation |
|---|---|---|---|---|---|---|---|
| NA | NA | NA | NA | NA | NA | NA | NA |

## 52.Any Other Information

No Information Available

## 53.Traffic Management

| | | |
|---|---|---|
| | **Nos. of the junction to the main road & design of confluence:** | one Junction at Wada Road |

| | | |
|---|---|---|
| **Parking details:** | **Number and area of basement:** | NA |
| | **Number and area of podia:** | NA |
| | **Total Parking area:** | 150 sqm |
| | **Area per car:** | 12.5 |
| | **Area per car:** | 12.5 |
| | **Number of 2-Wheelers as approved by competent authority:** | NA |
| | **Number of 4-Wheelers as approved by competent authority:** | NA |
| | **Public Transport:** | 10-12 trucks per day will be operated during operation phase. |
| | **Width of all Internal roads (m):** | 12 Mtrs |
| | **CRZ/ RRZ clearance obtain, if any:** | NA |
| | **Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries** | NA |
| | **Category as per schedule of EIA Notification sheet** | 3(a) |
| | **Court cases pending if any** | No |
| | **Other Relevant Informations** | The unit has obtained Consent to establish from MPCB for production capacity of 28500 MT/A, and construction work for installation of one induction furnace is under process. Here we are submitting the application for approval of TOR for production capacity of 130000 MT/A to produce Molter Steel , Ingots & Billets. The cost of the project for would be Rs. 30.0 Crores. |
| | **Have you previously submitted Application online on MOEF Website.** | No |
| | **Date of online submission** | - |



## SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

| | |
|---|---|
| **Environmental Impacts of the project** | Not Applicable |
| **Water Budget** | Not Applicable |
| **Waste Water Treatment** | Not Applicable |
| **Drainage pattern of the project** | Not Applicable |

| | |
|---|---|
| **Ground water parameters** | Not Applicable |
| **Solid Waste Management** | Not Applicable |
| **Air Quality & Noise Level issues** | Not Applicable |
| **Energy Management** | Not Applicable |
| **Traffic circulation system and risk assessment** | Not Applicable |
| **Landscape Plan** | Not Applicable |
| **Disaster management system and risk assessment** | Not Applicable |
| **Socioeconomic impact assessment** | Not Applicable |
| **Environmental Management Plan** | Not Applicable |
| **Any other issues related to environmental sustainability** | Not Applicable |

## Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 3(a)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

Public Hearing is applicable.

## DECISION OF SEAC

Based on the presentation made by PP; committee decided to approve the TOR for the preparation of EIA/EMP report as per standard TOR and additional TOR points mentioned below.

PP to collect base line data as per Office Memorandum issued by MoEF&CC dated 27.08.2017.

**Specific Conditions by SEAC:**

**1)** PP to submit certificate of incorporation of the company, list of directors and memorandum of articles and memorandum of association.
**2)** PP to submit lay out plan showing entry/exit gates, internal road of minimum width six meters and turning radius of nine meters, location of all pollution control equipment, solid waste storage areas, parking areas, 33% green belt, rain water harvesting etc.
**3)** PP to carry out life cycle analysis of the activities proposed on site with respect to the sustainability index, green house and ozone depletion potential, mass energy balance calculation etc.
**4)** PP to include details of generation of solid waste like slag, ash etc., its storage and disposal mechanism in the EIA report.
**5)** PP to carry out Risk Assessment and submit Disaster Management Plan.
**6)** PP to submit details of CSR plan prepared in consultation with district authorities along with its time bound implementation schedule. PP to maintain separate account for CSR funds.
**7)** PP to obtain permission from competent authority for using ground water.
**8)** PP to include details of use of non conventional energy in the EIA report.
**9)** PP to submit detailed calculation for rain water harvesting.
**10)** PP to provide lightening arrestor.

## FINAL RECOMMENDATION

The Committee decided to Grant ToR subject to the above observations,PP requested to prepare and submit EIA report as per EIA Notification, 2006 and amendments thereof.

**Subject:** Environment Clearance for Environment Clearance for M/s. Raj Chemicals at Plot No.W-43, MIDC Taloja, Taluka: Panvel, District: Raigad, Maharashtra, India

**Is a Violation Case:** No

| | |
|---|---|
| **1.Name of Project** | Manufacturing of Basic Drugs, Fine Chemicals & Intermediates |
| **2.Type of institution** | Private |
| **3.Name of Project Proponent** | Mr. Nikhil J. Shah |
| **4.Name of Consultant** | Green Circle, Inc. |
| **5.Type of project** | Not applicable |
| **6.New project/expansion in existing project/modernization/diversification in existing project** | Modernization & expansion |
| **7.If expansion/diversification, whether environmental clearance has been obtained for existing project** | Renewal Consent to Operate , Consent order no. Formate 1.0/AST/RO-NM/EIC no. NM - 5633-15/R/CC-07208 |
| **8.Location of the project** | Plot No.W-43, MIDC Taloja, Taluka: Panvel, District: Raigad, Maharashtra, India |
| **9.Taluka** | Panvel |
| **10.Village** | Taloja |
| **Correspondence Name:** | Mr. Nikhil J. Shah |
| **Room Number:** | Not Applicable |
| **Floor:** | Not Applicable |
| **Building Name:** | 20, Nagin Mahal, 82 Veer Nariman Road |
| **Road/Street Name:** | 82 Veer Nariman Road |
| **Locality:** | Churchgate |
| **City:** | Mumbai-400020 |
| **11.Area of the project** | Maharashtra Industrial Development Corporation (MIDC), Taloja |
| **12.IOD/IOA/Concession/Plan Approval Number** | MIDC PLAN approval no A57773 dated 27/02/2016 |
| | **IOD/IOA/Concession/Plan Approval Number:** A57773 |
| | **Approved Built-up Area:** 678.19 |
| **13.Note on the initiated work (If applicable)** | Not Applicable |
| **14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)** | Not applicable |
| **15.Total Plot Area (sq. m.)** | 720 sq. m |
| **16.Deductions** | Not applicable |
| **17.Net Plot area** | 720 sq. m |
| **18 (a).Proposed Built-up Area (FSI & Non-FSI)** | **a) FSI area (sq. m.):** 678.19 |
| | **b) Non FSI area (sq. m.):** NA |
| | **c) Total BUA area (sq. m.):** 678.19 |
| **18 (b).Approved Built up area as per DCR** | **Approved FSI area (sq. m.):** |
| | **Approved Non FSI area (sq. m.):** |
| | **Date of Approval:** |
| **19.Total ground coverage (m2)** | 231.30 |
| **20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)** | 0.32 |
| **21.Estimated cost of the project** | 45000000 |

## 22.Number of buildings & its configuration

| Serial number | Building Name & number | Number of floors | Height of the building (Mtrs) |
|---|---|---|---|
| 1 | Building | G + 3 | 13.78 m |

| | |
|---|---|
| **23.Number of tenants and shops** | Not applicable |
| **24.Number of expected residents / users** | Not applicable |
| **25.Tenant density per hectare** | Not applicable |
| **26.Height of the building(s)** | |
| **27.Right of way (Width of the road from the nearest fire station to the proposed building(s)** | 9 meter |
| **28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation** | Two sides MIDC road is available as plot is at corner. Fire tender can easily accessible in our plot. |
| **29.Existing structure (s) if any** | G + 2 |
| **30.Details of the demolition with disposal (If applicable)** | Out of two buildings, old structure is demolished. |

## 31.Production Details

| Serial Number | Product | Existing (MT/M) | Proposed (MT/M) | Total (MT/M) |
|---|---|---|---|---|
| 1 | Isometamedium Chloride HCL (Vet) (i.e. Amidino Phenyl DiazoDiamino Phenyl Ethyl Phenanthridinium Chloride HCL) & its Intermediates & family | 1.5 Kg/day | 2 Kg/day | 2 Kg/day |
| 2 | Homidium Chloride (vet) Alcohol/DNA(i.e. Phenyl Diamino Ethyl Phenanthridinium Chloride) & its Intermediates & family | 3.5 Kg/day | 2 Kg/day | 2 Kg/day |
| 3 | Homidium Bromide BP-vet-C (i.e. Phenyl Diamino Ethyl Phenanthridinium Bromide) & its Intermediates & family | 2 Kg/day | 0.5 Kg/day | 0.5 Kg/day |
| 4 | Dimidium Bromide (i.e. Phenyl Diamino Methyl Phenanthridinium Bromide) & its Intermediates & family | 2 Kg/day | 0.02 Kg/day | 0.02 Kg/day |
| 5 | Dimethyl Ethyl Hexanaphthalene Methyl Hydroxy Dihydro Diketo Napthalene (i.e.Buparvaquone) & its Intermediates & family | 0 Kg/day | 6 Kg/day | 6 Kg/day |
| 6 | Hydroxy Hexanaphthene Naphthalenedione (i.e.Parvaquone) & its Intermediates & family | 0 Kg/day | 3 Kg/day | 3 Kg/day |
| 7 | Etodolac & its Intermediates & family | 0 Kg/day | 2 Kg/day | 2 Kg/day |
| 8 | Chloro Methyl Carbazole Acetic Acid (i.e.Carprofen) & its Intermediates & family | 0 Kg/day | 2 Kg/day | 2 Kg/day |
| 9 | N-benzyl acrylamide & its Intermediates & family | 0 Kg/day | 20 Kg/day | 20 Kg/day |
| 10 | 6-Methyl Nicotinic Acid-NI & its Intermediates & family | 0 Kg/day | 1.5 Kg/day | 1.5 Kg/day |

| | | | | |
|---|---|---|---|---|
| 11 | Dinitro Biphenyl Dimethanol-DD & its Intermediates & family | 0 Kg/day | 2 Kg/day | 2 Kg/day |
| 12 | Ractopamine HCL & its Intermediates & family | 0 Kg/day | 3 Kg/day | 3 Kg/day |
| 13 | Imidocarb Diproprionate & its Intermediates & family | 0 Kg/day | 3 Kg/day | 3 Kg/day |
| 14 | Bithionol Sulfoxide & its Intermediates & family | 0 Kg/day | 1.5 Kg/day | 1.5 Kg/day |
| 15 | Nitroxynil & its Intermediates & family | 0 Kg/day | 1 Kg/day | 1 Kg/day |
| 16 | Chloro Fluoropyrimidine & its Intermediates & family | 0 Kg/day | 0.1 Kg/day | 0.1 Kg/day |
| 17 | Eprinomectin & its Intermediates & family | 0 Kg/day | 0.5 Kg/day | 0.5 Kg/day |
| 18 | Bis-Amidino Phenyl Triazene bis-acetyl glycinate (i.e.Diminazene diaceturate/aceturate) & its Intermediates & family | 0 Kg/day | 30 Kg/day | 30 Kg/day |
| 19 | Trichloro Vinyl Disulfamyl Aniline (i.e.Clorsulon) & its Intermediates & family | 0 Kg/day | 10 Kg/day | 10 Kg/day |
| 20 | Bromo Chloro Beta Gama Hydroxy Piperidyl Oxopropyl Propyl Oxobenzodiazone (i.e. Halofuginone) & its Intermediates & family | 0 Kg/day | 1 Kg/day | 1 Kg/day |
| 21 | (4-Amino-2, 6-dicholorophenyl)(4-chlorophenyl) Acetonitrile (i.e.Diclazuril) & its Intermediates & family | 0 Kg/day | 10.005 Kg/day | 10.005 Kg/day |
| 22 | 3,4-Dihydroxy ethyl benzonate & its Intermediates & family | 0 Kg/day | 13 Kg/day | 13 Kg/day |
| 23 | 4-chloro-3, 4-dihydroxy Benzophenone& its Intermediates & family | 0 Kg/day | 1 Kg/day | 1 Kg/day |
| 24 | 3, 4-dihydroxy Benzophenone& its Intermediates & family | 0 Kg/day | 10 Kg/day | 10 Kg/day |
| 25 | 3, 4-dihydroxy Benzonitrile& its Intermediates & family | 0 Kg/day | 60 Kg/day | 60 Kg/day |
| 26 | 6,7-bis-methoxy-ethoxy Quinazoline (Cebrazolone-2) & its Intermediates & family | 0 Kg/day | 1.5 Kg/day | 1.5 Kg/day |
| 27 | 6,7-bis-methoxy-ethoxy Quinazoline (Cebrazolone-1) & its Intermediates & family | 0 Kg/day | 0.5 Kg/day | 0.5 Kg/day |
| 28 | Amyl Meta cresol & its Intermediates & family | 0 Kg/day | 0.5 Kg/day | 0.5 Kg/day |
| 29 | Agomelatine& its Intermediates & family | 0 Kg/day | 0.1 Kg/day | 0.1 Kg/day |
| 30 | Atovaquone & its Intermediates & family | 0 Kg/day | 6 Kg/day | 6 Kg/day |
| 31 | Nitazoxanide& its Intermediates & family | 0 Kg/day | 0.1 Kg/day | 0.1 Kg/day |
| 32 | Nitroscanate& its Intermediates & family | 0 Kg/day | 0.5 Kg/day | 0.5 Kg/day |
| 33 | Trimethylquinoxaline& its Intermediates & family | 0 Kg/day | 2.5 Kg/day | 2.5 Kg/day |
| 34 | EthoxyNitrophenyl Vinyl Methyl Benzopyridine Methyl Sulphate& its Intermediates & family | 0 Kg/day | 0.1 Kg/day | 0.1 Kg/day |
| 35 | Dichlorophenyldigunido hexane (Chlorhexidine) & its Intermediates & family | 0 Kg/day | 8.07 Kg/day | 8.07 Kg/day |
| 36 | Methyl nitro diazocyclopentadiene methanol urethane (i.e. Ronidazole) & its Intermediates & family | 0 Kg/day | 5.75 Kg/day | 5.75 Kg/day |
| 37 | Methyl chlorobenzoxazole& its Intermediates & family | 0 Kg/day | 3 Kg/day | 3 Kg/day |
| 38 | Benzyl (Nitro Imidazol-1-yl) acetamide& its Intermediates & family | 0 Kg/day | 2 Kg/day | 2 Kg/day |
| 39 | Ethopabate USP/BP & its Intermediates & family | 0 Kg/day | 5 Kg/day | 5 Kg/day |
| 40 | Trifluoromethylmethanesulfonamide& its Intermediates & family | 0 Kg/day | 1 Kg/day | 1 Kg/day |
| 41 | Dithranol&itsintermdiates | 0 Kg/day | 2 Kg/day | 2 Kg/day |
| 42 | Hydralazine & its Intermediates & family | 0 Kg/day | 1 Kg/day | 1 Kg/day |

| | | | | |
|---|---|---|---|---|
| 43 | Trypan Red & its Intermediates & family | 0 Kg/day | 1 Kg/day | 1 Kg/day |
| 44 | Piperquone phosphate & its Intermediates & family | 0 Kg/day | 1 Kg/day | 1 Kg/day |
| 45 | Azopyridine& its Intermediates & family | 0 Kg/day | 0.5 Kg/day | 0.5 Kg/day |
| 46 | Detomidine& its Intermediates & family | 0 Kg/day | 0.5 Kg/day | 0.5 Kg/day |
| 47 | Fomepizole& its Intermediates & family | 0 Kg/day | 0.01 Kg/day | 0.01 Kg/day |
| 48 | 9-Aminoacridine & its Intermediates & family | 0 Kg/day | 0.5 Kg/day | 0.5 Kg/day |
| 49 | Hexylresorcinol & its Intermediates & family | 0 Kg/day | 2 Kg/day | 2 Kg/day |
| 50 | Carbazochrome salicylate & its Intermediates & family | 0 Kg/day | 0.5 Kg/day | 0.5 Kg/day |
| 51 | PhenazopyridineHCl& its Intermediates & family | 0 Kg/day | 1 Kg/day | 1 Kg/day |
| 52 | Ranolazine& its Intermediates & family | 0 Kg/day | 2 Kg/day | 2 Kg/day |
| 53 | Isotretinoin& its Intermediates & family | 0 Kg/day | 1 Kg/day | 1 Kg/day |
| 54 | Netobimin& its Intermediates & family | 0 Kg/day | 0.5 Kg/day | 0.5 Kg/day |
| 55 | Praziquantel& its Intermediates & family | 0 Kg/day | 1 Kg/day | 1 Kg/day |
| 56 | Product G & its Intermediates & family | 0 Kg/day | 3 Kg/day | 3 Kg/day |
| 57 | Flunixinmeglumin& its Intermediates & family | 0 Kg/day | 3 Kg/day | 3 Kg/day |
| 58 | PyrviniumPamoate& its Intermediates & family | 0 Kg/day | 0.5 Kg/day | 0.5 Kg/day |
| 59 | Meclizine & its Intermediates & family | 0 Kg/day | 0.5 Kg/day | 0.5 Kg/day |
| 60 | Marbofloxacin& its Intermediates & family | 0 Kg/day | 2 Kg/day | 2 Kg/day |
| 61 | Fexinidazole& its Intermediates & family | 0 Kg/day | 3.8 Kg/day | 3.8 Kg/day |
| 62 | Febuxostat& its Intermediates & family | 0 Kg/day | 2 Kg/day | 2 Kg/day |
| 63 | 2, 4-DinitroPhenyl ethyl Alcohol & its Intermediates & family | 0 Kg/day | 0.5 Kg/day | 0.5 Kg/day |
| 64 | Sodium [(dimethyl amino) methyl phenyl] phosphoniumdiolate (Toldimfos) & its Intermediates & family | 0 Kg/day | 0.5 Kg/day | 0.5 Kg/day |
| 65 | Calone& its Intermediates & family | 0 Kg/day | 0.5 Kg/day | 0.5 Kg/day |
| 66 | Quinfamide& its Intermediates & family | 0 Kg/day | 3.5 Kg/day | 3.5 Kg/day |
| 67 | Quinapyramine& its Intermediates & family | 0 Kg/day | 5 Kg/day | 5 Kg/day |
| 68 | Closantel& its Intermediates & family | 0 Kg/day | 2 Kg/day | 2 Kg/day |
| 69 | Folpet and its intermediates family | 0 Kg/day | 7 Kg/day | 7 Kg/day |
| 70 | Trichlormethiazide and its intermediates family | 0 Kg/day | 6 Kg/day | 6 Kg/day |
| 71 | 6-chloro,7-Bromo Quinazolinone (Cebrazolone) | 0 Kg/day | 6 Kg/day | 6 Kg/day |
| 72 | 3-hydroxy,2-methyl pyridine | 0 Kg/day | 3 Kg/day | 3 Kg/day |
| 73 | 3-methoxy,2-methyl pyridine | 0 Kg/day | 3 Kg/day | 3 Kg/day |
| 74 | 3-hydroxy,2-(3-Bromo oxopropyl)Piperidine | 0 Kg/day | 3.5 Kg/day | 3.5 Kg/day |
| 75 | 3-(2,2,1 TrichloroVinyl) Aniline HCl | 0 Kg/day | 18 Kg/day | 18 Kg/day |
| 76 | 5-chloro,2-methyl Benzoxazole | 0 Kg/day | 1 Kg/day | 1 Kg/day |
| 77 | Benzoxazole derivative | 0 Kg/day | 1 Kg/day | 1 Kg/day |
| 78 | 4-amino,2-chloro, 6-7 dimethoxyQuinazoline | 0 Kg/day | 17 Kg/day | 17 Kg/day |
| 79 | 4-chloro,6-7 bis (2-methoxy ethoxy) Quinazoline | 0 Kg/day | 2 Kg/day | 2 Kg/day |
| 80 | Quinazoline Derivative | 0 Kg/day | 1 Kg/day | 1 Kg/day |
| 81 | 1-Bromonaphthalene | 0 Kg/day | 26 Kg/day | 26 Kg/day |
| 82 | Octopamine Hydrochloride | 0 Kg/day | 16 Kg/day | 16 Kg/day |
| 83 | Methyl-2-Methoxy-5-(methylsulfonyl)benzoate | 0 Kg/day | 20 Kg/day | 20 Kg/day |
| 84 | Methyl-2-Methoxy-5-sulfamoylbenzoate | 0 Kg/day | 20 Kg/day | 20 Kg/day |

## 32.Total Water Requirement

| | | |
|---|---|---|
| Dry season: | **Source of water** | MIDC Water Supply |
| | **Fresh water (CMD):** | 28.73 |
| | **Recycled water - Flushing (CMD):** | Not applicable |
| | **Recycled water - Gardening (CMD):** | Not applicable |
| | **Swimming pool make up (Cum):** | Not applicable |
| | **Total Water Requirement (CMD) :** | 28.73 |
| | **Fire fighting - Underground water tank(CMD):** | 50 KL |
| | **Fire fighting - Overhead water tank(CMD):** | 10 KL |
| | **Excess treated water** | Not applicable |
| Wet season: | **Source of water** | MIDC Water Supply |
| | **Fresh water (CMD):** | 28.73 |
| | **Recycled water - Flushing (CMD):** | Not applicable |
| | **Recycled water - Gardening (CMD):** | Not applicable |
| | **Swimming pool make up (Cum):** | Not applicable |
| | **Total Water Requirement (CMD) :** | 28.73 |
| | **Fire fighting - Underground water tank(CMD):** | 50 KL |
| | **Fire fighting - Overhead water tank(CMD):** | 10 KL |
| | **Excess treated water** | Not applicable |
| **Details of Swimming pool (If any)** | Not applicable | |

## 33.Details of Total water consumed

| Particulars | Consumption (CMD) | | | Loss (CMD) | | | Effluent (CMD) | | |
|---|---|---|---|---|---|---|---|---|---|
| **Water Requirement** | **Existing** | **Proposed** | **Total** | **Existing** | **Proposed** | **Total** | **Existing** | **Proposed** | **Total** |
| Domestic | 1 | 3.17 | 4.17 | 0.2 | 0.64 | 0.87 | 0.8 | 2.53 | 3.3 |
| Industrial Process | 6 | 6.66 | 6.66 | 4.5 | - | - | 1.5 | 12.26 | 12.26 |
| Cooling tower & thermopack | 2 | 15.9 | 17.9 | 1.92 | 14.32 | 16.24 | 0.08 | 1.58 | 1.66 |

| | | |
|---|---|---|
| **34.Rain Water Harvesting (RWH)** | **Level of the Ground water table:** | Pre-monsoon: 0.95 to 7.70 m bgl & Post-monsoon: 1.10 to 4.05 m bgl |
| | **Size and no of RWH tank(s) and Quantity:** | NA |
| | **Location of the RWH tank(s):** | NA |
| | **Quantity of recharge pits:** | NA |
| | **Size of recharge pits :** | NA |
| | **Budgetary allocation (Capital cost) :** | NA |
| | **Budgetary allocation (O & M cost) :** | NA |
| | **Details of UGT tanks if any :** | MIDC water storage tank and Emergency water storage tank for Fire Hydrant system, Both the tanks are underground. |
| | | |
| **35.Storm water drainage** | **Natural water drainage pattern:** | Pumped to MIDC drainage line. |
| | **Quantity of storm water:** | 113.8 m3 |
| | **Size of SWD:** | 1 feet width and 1 feet height. |
| | | |
| **Sewage and Waste water** | **Sewage generation in KLD:** | 3.3 KLD |
| | **STP technology:** | Domestic waste water will be disposed off into soak pit |
| | **Capacity of STP (CMD):** | Not applicable |
| | **Location & area of the STP:** | Not applicable |
| | **Budgetary allocation (Capital cost):** | Not applicable |
| | **Budgetary allocation (O & M cost):** | Not applicable |
| **36.Solid waste Management** | | |
| **Waste generation in the Pre Construction and Construction phase:** | **Waste generation:** | Construction debris, Waste concrete, metallic waste, plastics, broken bricks etc. |
| | **Disposal of the construction waste debris:** | Construction debris, Waste concrete and broken bricks will be utilized in low-land leveling, secondary concrete, below roads. Some quantity of Excavation soil will be use for back-filling and remaining will be hand over to authorized vendor. |
| **Waste generation in the operation Phase:** | **Dry waste:** | Discarded bags, Paper waste, |
| | **Wet waste:** | Ferric oxide, Carbon/ charcoal, Hyflo superseal |
| | **Hazardous waste:** | ETP Sludge, Process residue/ Distilled residue, Discarded containers/barrels/liners, Used/spent oil, MEE salt |
| | **Biomedical waste (If applicable):** | Not Applicable |
| | **STP Sludge (Dry sludge):** | Not Applicable |
| | **Others if any:** | Not Applicable |

| | | |
|---|---|---|
| **Mode of Disposal of waste:** | **Dry waste:** | Handed over to authorized vendor for disposal |
| | **Wet waste:** | Handed over to authorized vendor for disposal, Reuse in the process, Consumed, Decomposed and handed over to authorized vendor for disposal |
| | **Hazardous waste:** | Collection, Storage, Transportation, Disposal at TSDF site, Sold to authorized vendor, Sold to authorized reprocessor |
| | **Biomedical waste (If applicable):** | Not Applicable |
| | **STP Sludge (Dry sludge):** | Not Applicable |
| | **Others if any:** | Not Applicable |
| **Area requirement:** | **Location(s):** | Not Applicable |
| | **Area for the storage of waste & other material:** | Not Applicable |
| | **Area for machinery:** | Not Applicable |
| **Budgetary allocation (Capital cost and O&M cost):** | **Capital cost:** | Not Applicable |
| | **O & M cost:** | Not Applicable |

## 37.Effluent Charecterestics

| Serial Number | Parameters | Unit | Inlet Effluent Charecterestics | Outlet Effluent Charecterestics | Effluent discharge standards (MPCB) |
|---|---|---|---|---|---|
| 1 | pH | - | 1 to 5 | 6.5 to 8 | 5.5 to 8.5 |
| 2 | TSS | mg/l | 2000 to 4000 | 50 to 100 | 100 |
| 3 | COD | mg/l | 10,000 to 50,000 | 100 to 250 | 250 |
| 4 | BOD | mg/l | 1,000 to 5,000 | 50 to 100 | 100 |
| 5 | TDS | mg/l | 5000 | 1000 to 2000 | 2100 |

| | |
|---|---|
| Amount of effluent generation (CMD): | 13.92 KLD |
| Capacity of the ETP: | 15 KLD |
| Amount of treated effluent recycled : | Not Applicable |
| Amount of water send to the CETP: | approximately 13.92 KLD |
| Membership of CETP (if require): | Raj Chemicals is permanent member of CETP from 31.01.2003 |
| Note on ETP technology to be used | Primary treatment , Tertiary & MEE, Condensate from MEE will be send to CETP for further treatment. |
| Disposal of the ETP sludge | Collection, Storage, Transportation, Disposal at TSDF site. |

## 38.Hazardous Waste Details

| Serial Number | Description | Cat | UOM | Existing | Proposed | Total | Method of Disposal |
|---|---|---|---|---|---|---|---|
| 1 | ETP Sludge | 34.3 | MT/M | 1.0 | 3.2 | 4.2 | Collection, Storage, Transportation, Disposal at TSDF site. |
| 2 | Process residue/ Distilled residue | 28.1 | MT/D | 0.006 | 0.679 | 0.679 | CHWTSDF |
| 3 | Discarded containers/barrels/liners | 33.3 | Nos./Day | - | 40 | 40 | Sold to authorized vendor |
| 4 | Used/spent oil | 5.1 | L/yr | - | 20 | 20 | Sold to authorized reprocessor |
| 5 | MEE salt | 37.3 | Kg/day | - | approximately 500 | approximately 500 | CHWTSDF |

## 39.Stacks emission Details

| Serial Number | Section & units | Fuel Used with Quantity | Stack No. | Height from ground level (m) | Internal diameter (m) | Temp. of Exhaust Gases |
|---|---|---|---|---|---|---|
| 1 | Boiler (2x800 Kg/ hr) | LDO- 2x200 LPD | 1 | 17 | 400 | 110-120 |
| 2 | Thermopack (1x 2 Lakh Kcal.) | LDO - 10 LPD | Combined for boiler & thermopack | 17 | 400 | 110-120 |
| 3 | DG set (7.5 KVA) | Diesel - 1.6 LPH | 1 | 12 | 150 | 90-95 |
| 4 | DG set (250 KVA) | Diesel - 62.50 LPH | combined stack for both the D.G set | 12 | 150 | 90-95 |

## 40.Details of Fuel to be used

| Serial Number | Type of Fuel | Existing | Proposed | Total |
|---|---|---|---|---|
| 1 | LDO | 230 L/day | 220 L/day | 450 L/day |
| 2 | Diesel | 3.2 Liters/hr | 62.5 Liters/hr | 65.7 Liters/hr |
| 41.Source of Fuel | | Local Market | | |
| 42.Mode of Transportation of fuel to site | | By Road | | |

| | | |
|---|---|---|
| **43.Green Belt Development** | **Total RG area :** | 0 |
| | **No of trees to be cut :** | None |
| | **Number of trees to be planted :** | 250 nos. (MPCB designated area in and around MIDC) |
| | **List of proposed native trees :** | none |
| | **Timeline for completion of plantation :** | within timeline prescribed by MPCB |

## 44.Number and list of trees species to be planted in the ground

| Serial Number | Name of the plant | Common Name | Quantity | Characteristics & ecological importance |
|---|---|---|---|---|
| 1 | Azadirachta indica | Neem | - | Semi-evergreen tree with medicinal value |
| 2 | Cassia fistula | Bahava | - | Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant |
| 3 | Mimusops elengi | Bakul | - | Shady tree, small white fragrant flowers |
| 4 | Murraya paniculata | Kunti | - | Small tree, Fragrant white flowers, Butterfly host plant |
| 5 | Saraca asoka | Sita Ashok | - | Shady tree with red-yellow flowers |
| 6 | Gmelina arborea | Shivan | - | Fast growing tree with beautiful yellow flowers |
| 7 | Bombax ceiba | Kate sawar | - | Large deciduous tree. Flowers attract many birds. |

| | | | | |
|---|---|---|---|---|
| 8 | Michelia champaca | Son chafa | - | Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant |
| **45.Total quantity of plants on ground** | | | | |

## 46.Number and list of shrubs and bushes species to be planted in the podium RG:

| Serial Number | Name | C/C Distance | Area m2 |
|---|---|---|---|
| 1 | NA | NA | NA |

## 47.Energy

| | | |
|---|---|---|
| **Power requirement:** | **Source of power supply :** | MSEDCL |
| | **During Construction Phase: (Demand Load)** | 67 KW |
| | **DG set as Power back-up during construction phase** | 7.5 KVA |
| | **During Operation phase (Connected load):** | 250 KVA |
| | **During Operation phase (Demand load):** | 200 HP |
| | **Transformer:** | 315 KVA |
| | **DG set as Power back-up during operation phase:** | 1 X 7.5 KVA (Existing) & 250 KVA (Proposed) |
| | **Fuel used:** | Diesel |
| | **Details of high tension line passing through the plot if any:** | Not Applicable |

## 48.Energy saving by non-conventional method:

1. The project will provide enough day light factors in the building to permit maximum day light to interior to minimize overall energy consump
2. Focusing on the high performance energy efficient U & R values can bring down the building energy consumption i.e. the operational cost for the any commercial buildings.
3. To the extent possible and technically feasible, energy efficient equipment will be selected.
4. Maximize the use of natural lighting through design
5. Gravity flow will be preferred wherever possible to save pumping energy.
6. Proper temperature controls will be provided to reduce load on heating systems

## 49.Detail calculations & % of saving:

| Serial Number | Energy Conservation Measures | Saving % |
|---|---|---|
| 1 | Not Applicable | Not Applicable |

## 50.Details of pollution control Systems

| Source | Existing pollution control system | Proposed to be installed |
|---|---|---|

| | | |
|---|---|---|
| Wastewater - Domestic use, process, boiler blowdown, cooling tower blowdown, washing | - | ETP, MEE & Soak Pit |
| Noise - Process area, Utility area, ETP area | - | The Boiler would be kept in an isolated area with proper acoustic treatment to have the ambient noise level as per CPCB standards. The workers would be provided with proper personal protective equipment (PPE) such as ear plugs,ear muffs etc. The DG sets would be enclosed in canopy as well as silencer. |
| Solid Waste | - | Sale to authorized vendor/ Recycle/ Reuse/ disposal to CHWTSDF |

| | | |
|---|---|---|
| **Budgetary allocation (Capital cost and O&M cost):** | **Capital cost:** | Not Applicable |
| | **O & M cost:** | Not Applicable |

## 51.Environmental Management plan Budgetary Allocation

### a) Construction phase (with Break-up):

| Serial Number | Attributes | Parameter | Total Cost per annum (Rs. In Lacs) |
|---|---|---|---|
| 1 | Air | Dust suppression | 1.0 |
| 2 | Solid waste | Solid waste management facility | 0.5 |
| 3 | Air, water, noise | Environment Monitoring | 1.5 |
| 4 | Health & safety | Occupational Health | 1.0 |

### b) Operation Phase (with Break-up):

| Serial Number | Component | Description | Capital cost Rs. In Lacs | Operational and Maintenance cost (Rs. in Lacs/yr) |
|---|---|---|---|---|
| 1 | Air emission | Provision for stack & APCM | 12 | 6.0 |
| 2 | Air emission | Provision for stack & APCM | 12 | 6.0 |
| 3 | Wastewater | ETP & MEE | 15 | 6.0 |
| 4 | Solid /Hazardous waste | Solid waste management | 10 | 5.0 |

## 51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

| Description | Status | Location | Storage Capacity in MT | Maximum Quantity of Storage at any point of time in MT | Consumption / Month in MT | Source of Supply | Means of transportation |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acetone | Campaign basis . Will be purchased as on when required. | Drums storage yard | 2 | 1 | 0.15 | Maharashtra and Gujrat state | Road |
| Methanol | Campaign basis . Will be purchased as on when required. | Drums storage yard | 6 | 3 | 0.45 | Maharashtra and Gujrat state | Road |
| Toluene | Campaign basis . Will be purchased as on when required. | Drums storage yard | 2 | 1 | 0.15 | Maharashtra and Gujrat state | Road |
| EDC | Campaign basis . Will be purchased as on when required. | Drums storage yard | 2 | 1 | 0.15 | Maharashtra and Gujrat state | Road |
| MDC | Campaign basis . Will be purchased as on when required. | Drums storage yard | 2 | 1 | 0.15 | Maharashtra and Gujrat state | Road |
| DMF | Campaign basis . Will be purchased as on when required. | Drums storage yard | 1 | 0.5 | 0.075 | Maharashtra and Gujrat state | Road |
| IPA | Campaign basis . Will be purchased as on when required. | Drums storage yard | 1 | 0.5 | 0.075 | Maharashtra and Gujrat state | Road |
| N-Butanol | Campaign basis . Will be purchased as on when required. | Drums storage yard | 1 | 0.5 | 0.075 | Maharashtra and Gujrat state | Road |
| DNA | Campaign basis . Will be purchased as on when required. | Drums storage yard | 2 | 1 | 0.15 | Maharashtra and Gujrat state | Road |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Xylene | Campaign basis . Will be purchased as on when required. | Drums storage yard | 1 | 0.5 | 0.075 | Maharashtra and Gujrat state | Road |
| Pet Ether 60-80 | Campaign basis . Will be purchased as on when required. | Drums storage yard | 1 | 0.5 | 0.075 | Maharashtra and Gujrat state | Road |
| Chlorobenzene | Campaign basis . Will be purchased as on when required. | Drums storage yard | 1 | 0.5 | 0.075 | Maharashtra and Gujrat state | Road |
| Benzene | Campaign basis . Will be purchased as on when required. | Drums storage yard | 1 | 0.5 | 0.075 | Maharashtra and Gujrat state | Road |
| Ethyl Acetate | Campaign basis . Will be purchased as on when required. | Drums storage yard | 1 | 0.5 | 0.075 | Maharashtra and Gujrat state | Road |
| Acetonitrile | Campaign basis . Will be purchased as on when required. | Drums storage yard | 1 | 0.5 | 0.075 | Maharashtra and Gujrat state | Road |
| Nitrobenzene | Campaign basis . Will be purchased as on when required. | Drums storage yard | 1 | 0.5 | 0.075 | Maharashtra and Gujrat state | Road |
| THF | Campaign basis . Will be purchased as on when required. | Drums storage yard | 1 | 0.5 | 0.075 | Maharashtra and Gujrat state | Road |
| Ethylene Glycol | Campaign basis . Will be purchased as on when required. | Drums storage yard | 1 | 0.5 | 0.075 | Maharashtra and Gujrat state | Road |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Methyl-t-Butyl ether | Campaign basis . Will be purchased as on when required. | Drums storage yard | 1 | 0.5 | 0.075 | Maharashtra and Gujrat state | Road |

## 52.Any Other Information

No Information Available

## 53.Traffic Management

| | | |
|---|---|---|
| | **Nos. of the junction to the main road & design of confluence:** | one |
| **Parking details:** | **Number and area of basement:** | Nil |
| | **Number and area of podia:** | Nil |
| | **Total Parking area:** | 112.99 |
| | **Area per car:** | 22.6 |
| | **Area per car:** | 22.6 |
| | **Number of 2-Wheelers as approved by competent authority:** | 10 |
| | **Number of 4-Wheelers as approved by competent authority:** | 5 |
| | **Public Transport:** | Auto Rickshaw from 200 m the plant boundary |
| | **Width of all Internal roads (m):** | 5 meter |
| | **CRZ/ RRZ clearance obtain, if any:** | Not Applicable |
| | **Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries** | Not Applicable |
| | **Category as per schedule of EIA Notification sheet** | B |
| | **Court cases pending if any** | Not Applicable |
| | **Other Relevant Informations** | Not applicable |
| | **Have you previously submitted Application online on MOEF Website.** | No |
| | **Date of online submission** | - |

## SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

| | |
|---|---|
| **Environmental Impacts of the project** | Not Applicable |
| **Water Budget** | Not Applicable |
| **Waste Water Treatment** | Not Applicable |
| **Drainage pattern of the project** | Not Applicable |
| **Ground water parameters** | Not Applicable |
| **Solid Waste Management** | Not Applicable |
| **Air Quality & Noise Level issues** | Not Applicable |
| **Energy Management** | Not Applicable |
| **Traffic circulation system and risk assessment** | Not Applicable |
| **Landscape Plan** | No adequate space for landscape. |
| **Disaster management system and risk assessment** | Inadequate space for movement of fire tender. |
| **Socioeconomic impact assessment** | Not Applicable |
| **Environmental Management Plan** | Not Applicable |
| **Any other issues related to environmental sustainability** | Not Applicable |

## Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 5(f)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

## DECISION OF SEAC

During deliberations with the PP and his accredited consultant, it is revealed that the area of the plot for proposed expansion is only 720 Sq.m. and there is no adequate space for the movement of an emergency vehicle, polllution control equipment, development of requisite green belt etc. The issues discussed at length with the PP and his team and PP agreed to the concerns shown by SEAC with respect to the proposed hazardous activity on site and the safety of people.

In view of above space constraint on the site to carry out expansion in safe and environment friendly manner SEAC decided to reject the proposal.

**Specific Conditions by SEAC:**

## FINAL RECOMMENDATION

SEAC-I have decided to recommend the proposal for rejection subject to above reasons.

**Subject:** Environment Clearance for Common Biomedical Waste Treatment Facility

**Is a Violation Case:** No

| | |
|---|---|
| **1.Name of Project** | Integrated Common Biomedical Waste Treatment Facility for PCMC and adjoining area |
| **2.Type of institution** | Private |
| **3.Name of Project Proponent** | Pimpri Chinchwad Municipal Corporation |
| **4.Name of Consultant** | Aditya Environmental Services Pvt. Ltd., Mumbai |
| **5.Type of project** | Common Biomedical Waste Treatment Facility |
| **6.New project/expansion in existing project/modernization/diversification in existing project** | New project |
| **7.If expansion/diversification, whether environmental clearance has been obtained for existing project** | New project |
| **8.Location of the project** | Gut no 458/460/461 |
| **9.Taluka** | Haveli |
| **10.Village** | Moshi |
| **Correspondence Name:** | Sanjay kulkarni |
| **Room Number:** | -- |
| **Floor:** | -- |
| **Building Name:** | Pimpri chinchwad Municipal Corporation |
| **Road/Street Name:** | Mumbai Pune highway |
| **Locality:** | -- |
| **City:** | Pune |
| **11.Area of the project** | Pimpri Chinchwad Muncipal Corporation |
| **12.IOD/IOA/Concession/Plan Approval Number** | Lease deed executed on 15.06.2012 between PCMC (Leaser) and PESPL (Lessee) |
| | **IOD/IOA/Concession/Plan Approval Number:** NA |
| | **Approved Built-up Area:** 00 |
| **13.Note on the initiated work (If applicable)** | No work has started at site |
| **14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)** | CIN- U 33129 PN 2005 PTC 020340 |
| **15.Total Plot Area (sq. m.)** | 4000 sq.m |
| **16.Deductions** | NA |
| **17.Net Plot area** | 4000 sq.m |
| **18 (a).Proposed Built-up Area (FSI & Non-FSI)** | **a) FSI area (sq. m.):** NA |
| | **b) Non FSI area (sq. m.):** NA |
| | **c) Total BUA area (sq. m.):** 00 |
| **18 (b).Approved Built up area as per DCR** | **Approved FSI area (sq. m.):** |
| | **Approved Non FSI area (sq. m.):** |
| | **Date of Approval:** |
| **19.Total ground coverage (m2)** | NA |
| **20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)** | NA |
| **21.Estimated cost of the project** | 20000000 |

## 22.Number of buildings & its configuration

| Serial number | Building Name & number | Number of floors | Height of the building (Mtrs) |
|---|---|---|---|

| | | | |
|---|---|---|---|
| 1 | 1 | G+1 | 10 |

| | |
|---|---|
| **23.Number of tenants and shops** | Not a commercial project |
| **24.Number of expected residents / users** | Approx. 25 employees |
| **25.Tenant density per hectare** | Not a residential project |
| **26.Height of the building(s)** | |
| **27.Right of way (Width of the road from the nearest fire station to the proposed building(s)** | 30 m |
| **28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation** | Peripheral road will be provided with access to all parts of the facility; two gates will be provided |
| **29.Existing structure (s) if any** | None |
| **30.Details of the demolition with disposal (If applicable)** | No demolition is envisaged |

## 31.Production Details

| Serial Number | Product | Existing (MT/M) | Proposed (MT/M) | Total (MT/M) |
|---|---|---|---|---|
| 1 | Waste for incineration | NA | 82.125 | 82.125 |
| 2 | Waste for autoclaving | NA | 54.75 | 54.75 |
| 3 | -- | NA | NA | NA |

## 32.Total Water Requirement

| | | |
|---|---|---|
| Dry season: | **Source of water** | PCMC |
| | **Fresh water (CMD):** | 21 |
| | **Recycled water - Flushing (CMD):** | 0 |
| | **Recycled water - Gardening (CMD):** | 0 |
| | **Swimming pool make up (Cum):** | NA |
| | **Total Water Requirement (CMD) :** | 31 |
| | **Fire fighting - Underground water tank(CMD):** | NA |
| | **Fire fighting - Overhead water tank(CMD):** | NA |
| | **Excess treated water** | NA |
| Wet season: | **Source of water** | PCMC |
| | **Fresh water (CMD):** | 18 |
| | **Recycled water - Flushing (CMD):** | 0 |
| | **Recycled water - Gardening (CMD):** | 0 |
| | **Swimming pool make up (Cum):** | NA |
| | **Total Water Requirement (CMD) :** | 28 |
| | **Fire fighting - Underground water tank(CMD):** | NA |
| | **Fire fighting - Overhead water tank(CMD):** | NA |
| | **Excess treated water** | NA |
| **Details of Swimming pool (If any)** | NA | |

## 33.Details of Total water consumed

| Particulars | Consumption (CMD) | | | Loss (CMD) | | | Effluent (CMD) | | |
|---|---|---|---|---|---|---|---|---|---|
| Water Requirement | Existing | Proposed | Total | Existing | Proposed | Total | Existing | Proposed | Total |
| Domestic | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 1.8 | 1.8 |
| Industrial Process | 0 | 26 | 26 | 0 | 16 | 16 | 0 | 0 | 0 |
| Gardening | 0 | 3 | 3 | 0 | 3 | 3 | 0 | 0 | 0 |

| | | |
|---|---|---|
| **34.Rain Water Harvesting (RWH)** | **Level of the Ground water table:** | ~110 m |
| | **Size and no of RWH tank(s) and Quantity:** | Since it is a biomedical waste management site, rain water harvesting at site is not proposed. |
| | **Location of the RWH tank(s):** | NA |
| | **Quantity of recharge pits:** | NA |
| | **Size of recharge pits :** | NA |
| | **Budgetary allocation (Capital cost) :** | NA |
| | **Budgetary allocation (O & M cost) :** | NA |
| | **Details of UGT tanks if any :** | one tank of 60 cu.m |
| | | |
| **35.Storm water drainage** | **Natural water drainage pattern:** | Towards Indrayani river on the north east |
| | **Quantity of storm water:** | ~1018 cum/day |
| | **Size of SWD:** | trapezoidal section RCC drain, 0.35 m bottom width x 0.3 m depth + 0.12 m FB |
| | | |
| **Sewage and Waste water** | **Sewage generation in KLD:** | 1.8 |
| | **STP technology:** | Sewage will be let out into the UGD of PCMC |
| | **Capacity of STP (CMD):** | NA |
| | **Location & area of the STP:** | NA |
| | **Budgetary allocation (Capital cost):** | NA |
| | **Budgetary allocation (O & M cost):** | NA |
| **36.Solid waste Management** | | |
| **Waste generation in the Pre Construction and Construction phase:** | **Waste generation:** | From foundation excavation |
| | **Disposal of the construction waste debris:** | Soil from foundation excavation will be used for backfilling and site grading. No offsite disposal of construction debris is envisaged. |
| **Waste generation in the operation Phase:** | **Dry waste:** | 50 kg/day from office administrative operations |
| | **Wet waste:** | None |
| | **Hazardous waste:** | ETP sludge, incinerator ash - appox. 3 T/month - to be sent to CHWTSDF, Ranjangaon |
| | **Biomedical waste (If applicable):** | treated and disinfected biomedical waste - recycled plastic, approx. 11 T/month, to be sold to authorized recyclers |
| | **STP Sludge (Dry sludge):** | approx. 1000 kg/month |
| | **Others if any:** | NA |

| | | |
|---|---|---|
| **Mode of Disposal of waste:** | **Dry waste:** | PCMC's municipal waste skip |
| | **Wet waste:** | NA |
| | **Hazardous waste:** | Storage and disposal to CHWTSDF site, Ranjangaon |
| | **Biomedical waste (If applicable):** | Incineration, autoclaving, chemical disinfection, incineration ash and ETP sludge, recycled plastic - respective disposal sinks |
| | **STP Sludge (Dry sludge):** | to be sent to CHWTSDF, Ranjangaon |
| | **Others if any:** | NA |
| **Area requirement:** | **Location(s):** | Within the shed |
| | **Area for the storage of waste & other material:** | approx. 350 sq.m |
| | **Area for machinery:** | approx 1500 sq.m |
| **Budgetary allocation (Capital cost and O&M cost):** | **Capital cost:** | Waste storage area is integral of the TSDF. Separate costing has not been arrived at . |
| | **O & M cost:** | Approx. Rs. 1.7 Crores/year |

## 37.Effluent Charecterestics

| Serial Number | Parameters | Unit | Inlet Effluent Charecterestics | Outlet Effluent Charecterestics | Effluent discharge standards (MPCB) |
|---|---|---|---|---|---|
| 1 | pH | - | ~8-10 | 6.5-9.0 | 5.5-9.0 |
| 2 | BOD | mg/l | ~30 | < 30 | 100 |
| 3 | COD | mg/l | ~350 | < 250 | 250 |
| 4 | TSS | mg/l | ~1500 | < 100 | 100 |
| 5 | O & G | mg/l | ~15 | < 10 | 10 |

| | |
|---|---|
| Amount of effluent generation (CMD): | 1.8 |
| Capacity of the ETP: | 10 |
| Amount of treated effluent recycled : | 10 |
| Amount of water send to the CETP: | 0 |
| Membership of CETP (if require): | NA |
| Note on ETP technology to be used | Screen > Seal pit > Reactor cum settling tank (alum dosed and stirred here) > Sludge filtering bags |
| Disposal of the ETP sludge | ETP sludge will be sent to CHWTSDF, Ranjangaon. |

## 38.Hazardous Waste Details

| Serial Number | Description | Cat | UOM | Existing | Proposed | Total | Method of Disposal |
|---|---|---|---|---|---|---|---|
| 1 | ETP Sludge | 34.3 | kg/month | 0 | 1000 | 1000 kg/month | Collection, Storage and Disposal to CHWTSDF site |
| 2 | Incineration Ash | 09 (BMW Rules) | MT/month | 0 | 2 | 2 MT/month | Collection, Storage and Disposal to CHWTSDF site |

## 39.Stacks emission Details

| Serial Number | Section & units | Fuel Used with Quantity | Stack No. | Height from ground level (m) | Internal diameter (m) | Temp. of Exhaust Gases |
|---|---|---|---|---|---|---|
| 1 | Incinerator | HSD | 1 | 30 | 0.35 | 85-110 deg. C |

## 40.Details of Fuel to be used

| Serial Number | Type of Fuel | Existing | Proposed | Total |
|---|---|---|---|---|
| 1 | HSD | 0 | 580 l/day | 580 l/day |
| 41.Source of Fuel | | Local fuel retailer/kerbside fuel pump | | |
| 42.Mode of Transportation of fuel to site | | By road, in 200 l MS drums, loaded on to flat bed mini truck | | |

| | | |
|---|---|---|
| **43.Green Belt Development** | **Total RG area :** | 1300 sq.m |
| | **No of trees to be cut :** | 0 |
| | **Number of trees to be planted :** | approx. 145 large trees and other smaller canopy trees and shrubs |
| | **List of proposed native trees :** | Aegle marmelos, Alstonia scholaris , Anthocephallus cadamba, Azadiracta indica, Barringtonia acutangula, Bauhinia purpurea, Cassia fistula, Dalbergia sissoo, Enterolobium saman, Delonix regia |
| | **Timeline for completion of plantation :** | All trees will be planted within 12 months from beginning of construction, or earlier depending on monsoon |

## 44.Number and list of trees species to be planted in the ground

| Serial Number | Name of the plant | Common Name | Quantity | Characteristics & ecological importance |
|---|---|---|---|---|
| 1 | Aegle marmelos | Beal Tree | 4 | Tree |
| 2 | Alstonia scholaris | Satwin | 8 | "An elegant tall evergreen tree with greyish rough bark. Medicinal plant, bark is used in traditional medicine to treat dysentery and fever" |
| 3 | Anthocephallus cadamba | Kadamb | 5 | "Perrennial Tree up to 45 m tall, without branches for more than 25 m. Native, Medicinal plant,Stembark—febrifugal, antidiuretic, anthelmintic, hypoglycaemic. " |
| 4 | Azadiracta indica | Neem | 8 | " A fast growing, evergreen tree that can reach a height of 15-20 m, rarely to 35-40 m. Used as an insecticide, to manufacture variety of cosmetics" |
| 5 | Barringtonia acutangula | Samudra phool | 2 | "An evergreen tree 5-8 m tall with rough fissured dark grey bark. Medicinal pant has long been used for medicine, timber and as a fish poison." |
| 6 | Bauhinia purpurea | Butterfly Tree | 6 | "A deciduous tree which can reach up to 20 feet tall and have a 25 foot crown. Native tree A good herb for curing Rheumatic pain and swelling" |
| 7 | Cassia fistula | Bahava | 4 | "A tropical ornamental tree with a trunck consisting of hard reddish wood, growing up to 40 feet tall. Medicinal Use- The sweet blackish pulp of the seedpod is used as a mild laxative." |

| | | | | |
|---|---|---|---|---|
| 8 | Dalbergia sissoo | Sheesham | 4 | "A medium to large deciduous tree, native to India, with a light crown. It can grow up to a maximum of 25 m in height and 2 to 3 m in diameter. One of the most important cultivated timber tree. " |
| 9 | Delonix regia | Gulmohar | 3 | "An evergreen tree about 30-40 ft tall, but its elegant wide-spreading umbrella-like canopy can be wider than its height. Ornamental tree" |
| 10 | Enterolobium saman | Rain Tree | 4 | "A wide-canopied tree with a large symmetrical crown. It usually reaches a height of 25 m (82 ft) and a diameter of 40 m. Medicinal Plant" |
| **45.Total quantity of plants on ground** | | | | |

## 46.Number and list of shrubs and bushes species to be planted in the podium RG:

| Serial Number | Name | C/C Distance | Area m2 |
|---|---|---|---|
| 1 | Gardenia jasminoides | 0.3 m | 1 t o 2 |
| 2 | Nyctanthes arbotristis | 1.0 m | 2 to 3 |
| 3 | Lagerstroemia speciosa | 2.0 m | 6 to 8 |

## 47.Energy

| | | |
|---|---|---|
| **Power requirement:** | **Source of power supply :** | MSEDCL |
| | **During Construction Phase: (Demand Load)** | 50 kVA |
| | **DG set as Power back-up during construction phase** | No |
| | **During Operation phase (Connected load):** | 96 kVA |
| | **During Operation phase (Demand load):** | 96 kVA |
| | **Transformer:** | 100 kVA |
| | **DG set as Power back-up during operation phase:** | One DG set of 100 kVA |
| | **Fuel used:** | HSD |
| | **Details of high tension line passing through the plot if any:** | None |

## 48.Energy saving by non-conventional method:

Yard illumination based on solar PV LEDs

## 49.Detail calculations & % of saving:

| Serial Number | Energy Conservation Measures | Saving % |
|---|---|---|
| 1 | Solar PV LEDs | upto 40 % saving on illumination w.r.t. CFL lamps |

## 50.Details of pollution control Systems

| Source | Existing pollution control system | Proposed to be installed |
|---|---|---|
| Air | NA | High pressure drop Venturi Scrubber followed by droplet separator and stack |
| Water | NA | ETP |
| Noise | NA | Acoustic treatment of enclosable machinery, PPE |
| Solid Waste | NA | CHWTSDF |

| | | |
|---|---|---|
| **Budgetary allocation (Capital cost and O&M cost):** | **Capital cost:** | Rs. 4,50,000/annum |
| | **O & M cost:** | Rs. 30,000/annum |

## 51.Environmental Management plan Budgetary Allocation

### a) Construction phase (with Break-up):

| Serial Number | Attributes | Parameter | Total Cost per annum (Rs. In Lacs) |
|---|---|---|---|
| 1 | Air Pollution Control | Water sprinkling | 1.2 |
| 2 | Environment Monitoring | Air, water , noise and soil | 2 |
| 3 | Green Belt Development | Tree plantation | 1 |

### b) Operation Phase (with Break-up):

| Serial Number | Component | Description | Capital cost Rs. In Lacs | Operational and Maintenance cost (Rs. in Lacs/yr) |
|---|---|---|---|---|
| 1 | Air Pollution Control | High pressure drop Venturi Scrubber followed by droplet separator and stack | ~18 | ~8.4 |
| 2 | Water Pollution Control | ETP | ~15 | ~8 |
| 3 | Environment Monitoring | Air, water , noise and soil | ~7.5 | ~8 |
| 4 | Hazardous waste & Solid waste management | Storage yard and disposal | ~2 | ~30 |
| 5 | Green Belt Development | Tree plantation and landscaping | ~5 | ~1.5 |
| 6 | Occupational Health & Safety | Medical check up | ~2.5 | ~7.2 |
| 7 | Others | EHS training | ~5 | ~3 |

## 51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

| Description | Status | Location | Storage Capacity in MT | Maximum Quantity of Storage at any point of time in MT | Consumption / Month in MT | Source of Supply | Means of transportation |
|---|---|---|---|---|---|---|---|
| HSD | fuel | Within site | 200 l drum | 2 drums of 200 l | 15 | Local | By road |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Disinfection chemical (Sodium hypochlorite) | BMW | Within site | 35 l carboys | 175 l carboys | ~ 0.2 | Local industrial chemical supplier | By road |
| Scrubbing medium (Caustic Lye) | chemical | Within site | 35 l carboys | 15 no. of carboys | ~ 1 | Local industrial chemical supplier | By road |
| Alum | chemical | Within site | 100 kg bag | 5 no. of 100 kg bags | ~0.1 | Local industrial chemical supplier | By Road |

## 52.Any Other Information

No Information Available

## 53.Traffic Management

| | | |
|---|---|---|
| | **Nos. of the junction to the main road & design of confluence:** | 1, gated T exit to the main road with gentle radius |
| **Parking details:** | **Number and area of basement:** | 0 |
| | **Number and area of podia:** | 0 |
| | **Total Parking area:** | 250 sq.m |
| | **Area per car:** | NA |
| | **Area per car:** | NA |
| | **Number of 2-Wheelers as approved by competent authority:** | NA |
| | **Number of 4-Wheelers as approved by competent authority:** | NA |
| | **Public Transport:** | NA |
| | **Width of all Internal roads (m):** | approx. 8 m (with variations as per operational requirement) |
| | **CRZ/ RRZ clearance obtain, if any:** | NA |
| | **Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries** | No protected area within 15 km radius |
| | **Category as per schedule of EIA Notification sheet** | 7(da) |
| | **Court cases pending if any** | No |

| | | |
|---|---|---|
| | **Other Relevant Informations** | Service Industry for Bio-medical waste management by Pimpri Chinchwad Municipal Corporation<br>Waste management capacity - 985.5 MT per year for incineration and 657 MT per year for autoclaving<br>• One incinerator of 150 kg/hr<br>• One autoclaves of 110 kg/hr<br>• One shredder of 100 kg/hr<br>• Chemical Treatment facility<br>• ETP of 10 m3/day capacity<br>• Associated utilities and amenities |
| | **Have you previously submitted Application online on MOEF Website.** | No |
| | **Date of online submission** | - |

## SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

| | |
|---|---|
| **Environmental Impacts of the project** | Not Applicable |
| **Water Budget** | Not Applicable |
| **Waste Water Treatment** | Not Applicable |
| **Drainage pattern of the project** | Not Applicable |
| **Ground water parameters** | Not Applicable |
| **Solid Waste Management** | Not Applicable |
| **Air Quality & Noise Level issues** | Not Applicable |
| **Energy Management** | Not Applicable |
| **Traffic circulation system and risk assessment** | Not Applicable |
| **Landscape Plan** | Not Applicable |
| **Disaster management system and risk assessment** | Not Applicable |
| **Socioeconomic impact assessment** | Not Applicable |
| **Environmental Management Plan** | Not Applicable |
| **Any other issues related to environmental sustainability** | Not Applicable |

## Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 7(da)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015 in the 127th meeting of SEAC-I held on 12th and 13th May,2016.

The proposal is only for common biomedical waste treatment facility at Gut No. 458/460/461 in the PimpriChinchwad Municipal Corporation area.

The proposal was considered in 145th meeting and decided as below,

After detailed deliberations it was observed that PP (PCMC) has not conducted Public Hearing as per EIA NOtification, 2006 for the propsoed project. Committee felt as it is a mandatory requriement PP shall conduct Public Hearing and upload final EIA/EMP reprot for further appraisal.

In view of above, SEAC-I decided to defer the proposla till PP submits Public Haring Reprot and final EIA/EMP report.

## DECISION OF SEAC

PP remained absent.

**Specific Conditions by SEAC:**

## FINAL RECOMMENDATION

SEAC-I decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

## 149th Meeting of State Expert Appraisal Committee (SEAC-1)

**SEAC Meeting number:** 149th Day-4 **Meeting Date** April 5, 2018

**Subject:** Environment Clearance for Synthetic Chemical /API /Intermidiates Manufacturing Industry

**Is a Violation Case:** No

| | |
|---|---|
| **1.Name of Project** | M/s Shakti Industries |
| **2.Type of institution** | Private |
| **3.Name of Project Proponent** | Mr Milind Patel |
| **4.Name of Consultant** | M/s S G M Corporate Consultant Pvt Ltd |
| **5.Type of project** | Not applicable |
| **6.New project/expansion in existing project/modernization/diversification in existing project** | Change in Product Mix |
| **7.If expansion/diversification, whether environmental clearance has been obtained for existing project** | Change in Product Mix |
| **8.Location of the project** | Plot No. K-2, MIDC area, Tarapur, Palghar |
| **9.Taluka** | Palghar |
| **10.Village** | Tarapur |
| **11.Area of the project** | MIDC Tarapur |
| **12.IOD/IOA/Concession/Plan Approval Number** | NA |
| | **IOD/IOA/Concession/Plan Approval Number:** NA |
| | **Approved Built-up Area:** 2205 |
| **13.Note on the initiated work (If applicable)** | NA |
| **14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)** | NA |
| **15.Total Plot Area (sq. m.)** | 1644.00 |
| **16.Deductions** | Not applicable |
| **17.Net Plot area** | Not applicable |
| **18 (a).Proposed Built-up Area (FSI & Non-FSI)** | **a) FSI area (sq. m.):** Not applicable |
| | **b) Non FSI area (sq. m.):** Not applicable |
| | **c) Total BUA area (sq. m.):** 2205 |
| **18 (b).Approved Built up area as per DCR** | **Approved FSI area (sq. m.):** |
| | **Approved Non FSI area (sq. m.):** |
| | **Date of Approval:** |
| **19.Total ground coverage (m2)** | Not applicable |
| **20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)** | Not applicable |
| **21.Estimated cost of the project** | 55000000 |

## 22.Number of buildings & its configuration

| Serial number | Building Name & number | Number of floors | Height of the building (Mtrs) |
|---|---|---|---|
| 1 | Not applicable | Not applicable | Not applicable |

| | |
|---|---|
| **23.Number of tenants and shops** | Not applicable |
| **24.Number of expected residents / users** | Not applicable |

| | |
|---|---|
| **25.Tenant density per hectare** | Not applicable |
| **26.Height of the building(s)** | |
| **27.Right of way (Width of the road from the nearest fire station to the proposed building(s)** | 30 m |
| **28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation** | Not applicable |
| **29.Existing structure (s) if any** | Not applicable |
| **30.Details of the demolition with disposal (If applicable)** | Not applicable |

## 31.Production Details

| Serial Number | Product | Existing (MT/M) | Proposed (MT/M) | Total (MT/M) |
|---|---|---|---|---|
| 1 | Methyl Testosterone, Dydrogesterone | 00 | 0.050 | 0.050 |
| 2 | Testosterone its derviatives | 00 | 0.450 | 0.450 |
| 3 | Nandrolone its derviatives | 00 | 0.150 | 0.150 |
| 4 | Tibolone | 00 | 0.005 | 0.005 |
| 5 | Norethisterone , Progesterone | 00 | 0.05 | 0.05 |
| 6 | Estradiol its derviatives | 00 | 0.025 | 0.025 |
| 7 | Levonorgestrel, Nandrolone Decanoate | 00 | 0.005 | 0.005 |
| 8 | Ethylene Estradiol | 00 | 0.005 | 0.005 |
| 9 | Dinosterol , Dutasteride | 00 | 0.01 | 0.01 |
| 10 | Fluticasone Propionate, Fluticasone Fuorate, Fluticasone Base, Flurocortisone Acetate | 00 | 0.015 | 0.015 |
| 11 | Budesonide, BeclomethasoneDipropionate | 00 | 0.010 | 0.010 |
| 12 | Mometasone furoate, Flunisolide | 00 | 0.025 | 0.025 |
| 13 | Finasteride , Triamcinolone, | 00 | 0.025 | 0.025 |
| 14 | Prednisolone sodium phosphate | 00 | 0.100 | 0.100 |
| 15 | Prednisolone acetate | 00 | 0.025 | 0.025 |

## 32.Total Water Requirement

| | | |
|---|---|---|
| Dry season: | **Source of water** | Not applicable |
| | **Fresh water (CMD):** | Not applicable |
| | **Recycled water - Flushing (CMD):** | Not applicable |
| | **Recycled water - Gardening (CMD):** | Not applicable |
| | **Swimming pool make up (Cum):** | Not applicable |
| | **Total Water Requirement (CMD) :** | Not applicable |
| | **Fire fighting - Underground water tank(CMD):** | Not applicable |
| | **Fire fighting - Overhead water tank(CMD):** | Not applicable |
| | **Excess treated water** | Not applicable |
| Wet season: | **Source of water** | Not applicable |
| | **Fresh water (CMD):** | Not applicable |
| | **Recycled water - Flushing (CMD):** | Not applicable |
| | **Recycled water - Gardening (CMD):** | Not applicable |
| | **Swimming pool make up (Cum):** | Not applicable |
| | **Total Water Requirement (CMD) :** | Not applicable |
| | **Fire fighting - Underground water tank(CMD):** | Not applicable |
| | **Fire fighting - Overhead water tank(CMD):** | Not applicable |
| | **Excess treated water** | Not applicable |
| **Details of Swimming pool (If any)** | Not applicable | |

## 33.Details of Total water consumed

| Particulars | Consumption (CMD) | | | Loss (CMD) | | | Effluent (CMD) | | |
|---|---|---|---|---|---|---|---|---|---|
| **Water Requirement** | **Existing** | **Proposed** | **Total** | **Existing** | **Proposed** | **Total** | **Existing** | **Proposed** | **Total** |
| Domestic | 01 | 01 | 02 | 0.2 | 0.2 | 0.4 | 0.8 | 0.8 | 1.6 |
| Industrial Process | 20 | -14 | 06 | 15 | 01 | 01 | 05 | 05 | 05 |
| Cooling tower & thermopack | 01 | 02 | 03 | 0.9 | 1.9 | 2.8 | 0.1 | 0.1 | 0.2 |
| Gardening | 0.5 | 0.5 | 1.0 | 0.5 | 0.5 | 1.0 | 00 | 00 | 00 |

| | | |
|---|---|---|
| **34.Rain Water Harvesting (RWH)** | **Level of the Ground water table:** | 5 to 6.0 m |
| | **Size and no of RWH tank(s) and Quantity:** | 1 x 10 cum |
| | **Location of the RWH tank(s):** | Ground |
| | **Quantity of recharge pits:** | NA |
| | **Size of recharge pits :** | NA |
| | **Budgetary allocation (Capital cost) :** | 0.50 |
| | **Budgetary allocation (O & M cost) :** | 0.10 |
| | **Details of UGT tanks if any :** | 25 CUM |
| | | |
| **35.Storm water drainage** | **Natural water drainage pattern:** | Diverted into MIDC drain |
| | **Quantity of storm water:** | 0.25 cum/sec |
| | **Size of SWD:** | 300 x 400 mm |
| | | |
| **Sewage and Waste water** | **Sewage generation in KLD:** | 1.6 |
| | **STP technology:** | Septic Tank & over flow diverted int ETP. |
| | **Capacity of STP (CMD):** | NA |
| | **Location & area of the STP:** | NA |
| | **Budgetary allocation (Capital cost):** | NA |
| | **Budgetary allocation (O & M cost):** | NAS |
| **36.Solid waste Management** | | |
| **Waste generation in the Pre Construction and Construction phase:** | **Waste generation:** | NA |
| | **Disposal of the construction waste debris:** | NA |
| **Waste generation in the operation Phase:** | **Dry waste:** | 10 Kg |
| | **Wet waste:** | 05 kg |
| | **Hazardous waste:** | List Given below |
| | **Biomedical waste (If applicable):** | NA |
| | **STP Sludge (Dry sludge):** | NA |
| | **Others if any:** | NA |

| | | |
|---|---|---|
| **Mode of Disposal of waste:** | **Dry waste:** | Handed Over to MIDC |
| | **Wet waste:** | Handed Over to MIDC |
| | **Hazardous waste:** | Details given below |
| | **Biomedical waste (If applicable):** | NA |
| | **STP Sludge (Dry sludge):** | NA |
| | **Others if any:** | NA |
| **Area requirement:** | **Location(s):** | NA |
| | **Area for the storage of waste & other material:** | NA |
| | **Area for machinery:** | NA |
| **Budgetary allocation (Capital cost and O&M cost):** | **Capital cost:** | NA |
| | **O & M cost:** | NA |

## 37.Effluent Charecterestics

| Serial Number | Parameters | Unit | Inlet Effluent Charecterestics | Outlet Effluent Charecterestics | Effluent discharge standards (MPCB) |
|---|---|---|---|---|---|
| 1 | pH | NA | 5.5-6.5 | 6.5 -7.5 | 5.5-9.0 |
| 2 | BOD | mg/lit | 3250 -3500 | <100 | 100 |
| 3 | COD | mg/lit | 7220 – 8910 | <250 | 250 |
| 4 | SS | mg/lit | 320-480 | <100 | 100 |
| 5 | Oil & Grease | mg/lit | 30-40 | <10 | 10 |

| | |
|---|---|
| Amount of effluent generation (CMD): | 5.0 |
| Capacity of the ETP: | 10 cum |
| Amount of treated effluent recycled : | 00 |
| Amount of water send to the CETP: | 5.0 |
| Membership of CETP (if require): | Yes |
| Note on ETP technology to be used | Physico-chemical treatment with ME |
| Disposal of the ETP sludge | chwtsdf |

## 38.Hazardous Waste Details

| Serial Number | Description | Cat | UOM | Existing | Proposed | Total | Method of Disposal |
|---|---|---|---|---|---|---|---|
| 1 | 28.2 | Spent Carbon | TPM | 00 | 0.06 | 0.06 | CHWTSDF |
| 2 | 33.3 | Liners, Barrels / Containers | TPM/NO | 00 | 0.02/20 NO. | 0.02/20 NO. | CHWTSDF |
| 3 | 34.3 | Chemical Sludge | TPM | 0.02 | 0.04 | 0.06 | CHWTSDF |
| 4 | 36.4 | Residues | TPM | 00 | 0.100 | 0.100 | CHWTSDF |
| 5 | 20.2 | Spent solvent | TPM | 00 | 0.5 | 0.5 | CHWTSDF /Authorised Vendor |

## 39.Stacks emission Details

| Serial Number | Section & units | Fuel Used with Quantity | Stack No. | Height from ground level (m) | Internal diameter (m) | Temp. of Exhaust Gases |
|---|---|---|---|---|---|---|
| 1 | Boiler | FO 300 KG | 1 | 30 | 0.45 | 120 |
| 2 | Scrubber | na | 1 | 15 | 0.2 | 45 |

## 40.Details of Fuel to be used

| Serial Number | Type of Fuel | Existing | Proposed | Total |
|---|---|---|---|---|
| 1 | furnace oil | 0.30 TPD | 00 | 0.30 TPD |
| 41.Source of Fuel | | Local vendor | | |
| 42.Mode of Transportation of fuel to site | | By road | | |

## 43.Green Belt Development

| | |
|---|---|
| **Total RG area :** | 274.20 sq.m |
| **No of trees to be cut :** | NA |
| **Number of trees to be planted :** | 25 |
| **List of proposed native trees :** | given below |
| **Timeline for completion of plantation :** | Oct 17 |

## 44.Number and list of trees species to be planted in the ground

| Serial Number | Name of the plant | Common Name | Quantity | Characteristics & ecological importance |
|---|---|---|---|---|
| 1 | Azadirachta indica | Neem | 05 | Medicinal plant |
| 2 | Caryota urens | Fish Tail palm | 05 | Nitrogen fixer, ornamental plant |
| 3 | Neolamarkia cadamba | Kadamba tree | 04 | Tropical fruit tree & bird attracting tree |
| 4 | Cassia fistula | Bahava | 02 | Used in pesticide & dye preparation |
| 5 | Mimusopes elengi | Bakul | 04 | Evergreen tree, |
| 6 | Saraca indica | Sita ashok | 05 | Evergreen medicinal plant |
| **45.Total quantity of plants on ground** | | | | |

## 46.Number and list of shrubs and bushes species to be planted in the podium RG:

| Serial Number | Name | C/C Distance | Area m2 |
|---|---|---|---|
| 1 | NA | NA | NA |

## 47.Energy

| | | |
|---|---|---|
| **Power requirement:** | **Source of power supply :** | MSEB |
| | **During Construction Phase: (Demand Load)** | NA |
| | **DG set as Power back-up during construction phase** | NA |
| | **During Operation phase (Connected load):** | 375 |
| | **During Operation phase (Demand load):** | 275 |
| | **Transformer:** | 300 |
| | **DG set as Power back-up during operation phase:** | 250 |
| | **Fuel used:** | HSD |
| | **Details of high tension line passing through the plot if any:** | NA |

## 48.Energy saving by non-conventional method:

Use of LED light in premises.

## 49.Detail calculations & % of saving:

| Serial Number | Energy Conservation Measures | Saving % |
|---|---|---|
| 1 | Use of LED light in premises. | NA |

## 50.Details of pollution control Systems

| Source | Existing pollution control system | Proposed to be installed |
|---|---|---|
| Emissions from Process | Scrubber | Scrubber |
| Effluent generation | ETP | MEE |
| Noise | Acoustic Enclosures | Acoustic Enclosure |
| Hazardous waste | CHWTSDF | CHWTSDF |

| | | |
|---|---|---|
| **Budgetary allocation (Capital cost and O&M cost):** | **Capital cost:** | 1.50 Lac |
| | **O & M cost:** | 0.20 Lac |

## 51.Environmental Management plan Budgetary Allocation

### a) Construction phase (with Break-up):

| Serial Number | Attributes | Parameter | Total Cost per annum (Rs. In Lacs) |
|---|---|---|---|
| 1 | NA | NA | NA |

### b) Operation Phase (with Break-up):

| Serial Number | Component | Description | Capital cost Rs. In Lacs | Operational and Maintenance cost (Rs. in Lacs/yr) |
|---|---|---|---|---|
| 1 | Air Pollution Control | PM-10, PM 2.5, SO2 etc | 15.0 | 0.75 |
| 2 | Water Pollution control | pH, COD, BOD, TSS etc | 55.0 | 6.25 |
| 3 | Noise | Noise | 2.5 | 0.25 |
| 4 | Hazardous waste | Soli Contamination | 2.0 | 3.0 |
| 5 | Rain water Harvesting | Water conservation | 0.50 | 0.10 |
| 6 | Occupational Health & safety | Safety | 8.0 | 1.0 |
| 7 | Green Belt | Plantation | 0.50 | 0.25 |

## 51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

| Description | Status | Location | Storage Capacity in MT | Maximum Quantity of Storage at any point of time in MT | Consumption / Month in MT | Source of Supply | Means of transportation |
|---|---|---|---|---|---|---|---|
| Methanol | Toxic | HDPE Drums | 3.0 | 3.0 | 3.0 | Local vendor | By road |
| Acetone | Toxic | HDPE/MS Drums | 0.50 | 0.50 | 1.0 | Local vendor | By road |
| Hexane | Fire | HDPE/MS Drums | 0.05 | 0.05 | 0.10 | Local vendor | By road |
| Ethyl Acetate | Fire | HDPE Drums | 0.50 | 0.50 | 1.0 | Local vendor | By road |
| Isoproplyl alcohal | Fire | HDPE Drums | 0.01 | 0.01 | 0.02 | Local vendor | By road |
| Methyl chloride | Toxic | HDPE Drums | 1.0 | 1.0 | 1.0 | Local vendor | By road |
| Tetrahydrofuran | Toxic | HDPE Drums | 0.05 | 0.05 | 0.05 | Local vendor | By road |
| Dimethyl sulfoxide | Toxic | HDPE Drums | 0.07 | 0.07 | 0.15 | Local vendor | By road |
| Dimethyl Form amide (DMF) | Toxic | HDPE Drums | 0.05 | 0.05 | 0.10 | Local vendor | By road |
| Sulfuric acid | Corrosive | HDPE Drums | 0.005 | 0.010 | 0.025 | Local vendor | By road |
| Hydrochloric Acid | Corrosive | HDPE Drums | 0.20 | 0.200 | 0.200 | Local vendor | By road |

## 52.Any Other Information

No Information Available

## 53.Traffic Management

| | | |
|---|---|---|
| | **Nos. of the junction to the main road & design of confluence:** | Two |

| | | |
|---|---|---|
| **Parking details:** | **Number and area of basement:** | NA |
| | **Number and area of podia:** | NA |
| | **Total Parking area:** | 198.50 |
| | **Area per car:** | 12.5 |
| | **Area per car:** | 12.5 |
| | **Number of 2-Wheelers as approved by competent authority:** | NA |
| | **Number of 4-Wheelers as approved by competent authority:** | NA |
| | **Public Transport:** | NA |
| | **Width of all Internal roads (m):** | 6.0 |
| | **CRZ/ RRZ clearance obtain, if any:** | NA |
| | **Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries** | NA |
| | **Category as per schedule of EIA Notification sheet** | 5 (f) -B1 |
| | **Court cases pending if any** | NA |
| | **Other Relevant Informations** | This project is recommended for TOR in 135th meeting of SEAC. |
| | **Have you previously submitted Application online on MOEF Website.** | Yes |
| | **Date of online submission** | 12-09-2016 |



## SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

| | |
|---|---|
| **Environmental Impacts of the project** | PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. PP proposes Zero Liquid Discharge for the propped expansion, PP provided scrubber and stack height of 30 meters to control the air pollution. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits. |
| **Water Budget** | PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement. |
| **Waste Water Treatment** | PP proposes Effluent Treatment Plant and Zero Liquid Discharge for proposed expansion. |
| **Drainage pattern of the project** | Not Applicable |

| | |
|---|---|
| **Ground water parameters** | As per data submitted by PP, ground water parameters are within the prescribed limits at project site. |
| **Solid Waste Management** | PP committed to dispose the hazardous waste at Common Hazardous Waste Treatment, Storage, and Disposal Facility and sale to Authorized vendors. Details are given at Sr. No. 38 of the Consolidated Statement. |
| **Air Quality & Noise Level issues** | As per data submitted by PP, Air Quality and Noise parameters are within the prescribed limits at project site. |
| **Energy Management** | The electrical demand for proposed project is375KW, which will be supplied by MSEDCL. PP also proposes to have 250 KW DG set with HSD as a fuel. PP has committed to use LED lights in the premises for energy saving. PP to provide solar energy for street lights and office buildings. |
| **Traffic circulation system and risk assessment** | PP has indicated in the lay out plan that internal roads will be of six meter width along with nine meters of turning radius for smooth circulation of traffic. PP provided parking area of 198.5 Sq.m as per DC Rules of MIDC. |
| **Landscape Plan** | PP to provide 33% green belt within the premises. PP obtained permission from MIDC to develop garden to the adjacent areas of the plot. |
| **Disaster management system and risk assessment** | PP carried out HAZOP and Risk Assessment and submitted DMP. |
| **Socioeconomic impact assessment** | PP has carried out socio economic impact study and included in the EIA report. |
| **Environmental Management Plan** | PP prepared EMP cost of Rs.83.5 Lakh as capital cost and Rs,11.6 Lakh as O & M cost to maintain environmental parameters. |
| **Any other issues related to environmental sustainability** | NA |

## Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 5(f)B1 as per EIA Notification, 2006. The proposal was considered by earlier SEAC-1 in their 135th meeting held on 21st to 23rd September, 2016 where in ToR was granted to the project. Now PP submitted the EIA/EMP reprot for the appraisal in the 140th meeting wherein proposal was deferred till PP submits compliance of below points,

1. PP to submit undertaking for not having any ecological sensitive area with the study area of the project as per EIA Notification, 2006.

2. PP proposes Zero Liquid Discharge and also proposes 2 KLD fresh water for gardening; PP to submit clarification on the same.

3. PP to maintain stack height of 30 meters as suggested by earlier SEAC-1.

4. PP to submit design details of scrubbing system proposed in the project along with calculations and nature of pollutants.

5. PP to submit structural stability certificate of existing buildings.

6. PP to carry out detailed HAZOP and QRA study and submit a report.

7. P to submit lay out plan showing internal roads, location of pollution control equipment, parking areas, 33% green belt, rain water harvesting etc.

8. PP to submit an undertaking for Zero Liquid Discharge and submit design details of pollution Control Equipment proposed for achieving Zero Liquid Discharge.

9. PP to submit copy of on site /off site emergency plan.

10. PP to submit report on chemical compatibility and its storage.

## DECISION OF SEAC

Afetr deliberations with the PP and thri accredited consultant, SEAC decided to recommend the proposal for prior Environemntal Cleaarance subject to compliance of below point.

**Specific Conditions by SEAC:**

**1)** PP to ensure to provide 33% green belt within the plot area of the proposed project.

## FINAL RECOMMENDATION

SEAC-I have decided to recommend the proposal to SEIAA for Prior Environmental clearance subject to above conditions

**Subject:** Environment Clearance for Environment Clearance for Opencast mining project, Area 4.8 Ha; Production Capacity @ 4680 TPA of Manganese at Survey No 32 (P), Village – Pali, Tehsil – Parseoni, District – Nagpur.

**Is a Violation Case:** No

| | |
|---|---|
| **1.Name of Project** | Pali Manganese Ore Deposit |
| **2.Type of institution** | Private |
| **3.Name of Project Proponent** | Anil M. Gupta & Others |
| **4.Name of Consultant** | Srushti Seva Private Limited |
| **5.Type of project** | Mining Project |
| **6.New project/expansion in existing project/modernization/diversification in existing project** | New Project |
| **7.If expansion/diversification, whether environmental clearance has been obtained for existing project** | Not Applicable |
| **8.Location of the project** | Survey No 32 (P) |
| **9.Taluka** | Parseoni |
| **10.Village** | Pali |
| **Correspondence Name:** | Mr. Anil M. Gupta |
| **Room Number:** | . |
| **Floor:** | . |
| **Building Name:** | . |
| **Road/Street Name:** | . |
| **Locality:** | At & Po – Khapa |
| **City:** | Khapa, Dist Nagpur |
| **11.Area of the project** | Grampanchayat area |
| **12.IOD/IOA/Concession/Plan Approval Number** | No |
| | **IOD/IOA/Concession/Plan Approval Number:** Not Applicable |
| | **Approved Built-up Area:** |
| **13.Note on the initiated work (If applicable)** | Not Applicable |
| **14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)** | Not Applicable |
| **15.Total Plot Area (sq. m.)** | Not applicable |
| **16.Deductions** | Not applicable |
| **17.Net Plot area** | Not applicable |
| **18 (a).Proposed Built-up Area (FSI & Non-FSI)** | **a) FSI area (sq. m.):** Not applicable |
| | **b) Non FSI area (sq. m.):** Not applicable |
| | **c) Total BUA area (sq. m.):** |
| **18 (b).Approved Built up area as per DCR** | **Approved FSI area (sq. m.):** |
| | **Approved Non FSI area (sq. m.):** |
| | **Date of Approval:** |
| **19.Total ground coverage (m2)** | Not applicable |
| **20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)** | Not applicable |
| **21.Estimated cost of the project** | 10700000 |

## 22.Number of buildings & its configuration

| Serial number | Building Name & number | Number of floors | Height of the building (Mtrs) |
|---|---|---|---|
| 1 | Not applicable | Not applicable | Not applicable |

| | |
|---|---|
| **23.Number of tenants and shops** | Not applicable |
| **24.Number of expected residents / users** | Not applicable |
| **25.Tenant density per hectare** | Not applicable |
| **26.Height of the building(s)** | |
| **27.Right of way (Width of the road from the nearest fire station to the proposed building(s)** | Not Applicable |
| **28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation** | Not applicable |
| **29.Existing structure (s) if any** | Not applicable |
| **30.Details of the demolition with disposal (If applicable)** | Not applicable |

## 31.Production Details

| Serial Number | Product | Existing (MT/M) | Proposed (MT/M) | Total (MT/M) |
|---|---|---|---|---|
| 1 | Manganese Ore | Nil | 390 | 390 |

## 32.Total Water Requirement

| | | |
|---|---|---|
| **Dry season:** | **Source of water** | Tanker Supply and mine pit |
| | **Fresh water (CMD):** | 6 |
| | **Recycled water - Flushing (CMD):** | Nil |
| | **Recycled water - Gardening (CMD):** | 4 CMD - Dust Supression, 1 CMD - Plantation |
| | **Swimming pool make up (Cum):** | Nil |
| | **Total Water Requirement (CMD) :** | 6 |
| | **Fire fighting - Underground water tank(CMD):** | Nil |
| | **Fire fighting - Overhead water tank(CMD):** | Nil |
| | **Excess treated water** | Nil |

| | | |
|---|---|---|
| **Wet season:** | **Source of water** | Tanker Supply |
| | **Fresh water (CMD):** | 1 |
| | **Recycled water - Flushing (CMD):** | Nil |
| | **Recycled water - Gardening (CMD):** | Nil |
| | **Swimming pool make up (Cum):** | Nil |
| | **Total Water Requirement (CMD) :** | 1 |
| | **Fire fighting - Underground water tank(CMD):** | Nil |
| | **Fire fighting - Overhead water tank(CMD):** | Nil |
| | **Excess treated water** | Nil |
| **Details of Swimming pool (If any)** | Not applicable | |

## 33.Details of Total water consumed

| Particulars | Consumption (CMD) | | | Loss (CMD) | | | Effluent (CMD) | | |
|---|---|---|---|---|---|---|---|---|---|
| **Water Requirement** | **Existing** | **Proposed** | **Total** | **Existing** | **Proposed** | **Total** | **Existing** | **Proposed** | **Total** |
| Domestic | Nil | 1 | 1 | Nil | 1 | Nil | Nil | Nil | Nil |
| Gardening | Nil | 5 | 5 | Nil | 5 | 5 | Nil | Nil | Nil |
| Fresh water requirement | Nil | 6 | 6 | Nil | 6 | 6 | Nil | Nil | Nil |

| | | |
|---|---|---|
| **34.Rain Water Harvesting (RWH)** | **Level of the Ground water table:** | 5 to 12 m bgl |
| | **Size and no of RWH tank(s) and Quantity:** | Garland drain, length 200 m |
| | **Location of the RWH tank(s):** | Around the pit |
| | **Quantity of recharge pits:** | 400 m3 |
| | **Size of recharge pits :** | 200 m Length x 2 m width x 1 m depth |
| | **Budgetary allocation (Capital cost) :** | 1 lakh |
| | **Budgetary allocation (O & M cost) :** | 0.20 lakh |
| | **Details of UGT tanks if any :** | Not Applicable |

| | | |
|---|---|---|
| **35.Storm water drainage** | **Natural water drainage pattern:** | Not Applicable. However, the storm water due to rainfall will be channelized to the natural water courses like gullies through appropriate drainage system with check bunds. |
| | **Quantity of storm water:** | Rainfall runoff |
| | **Size of SWD:** | . |
| | | |
| **Sewage and Waste water** | **Sewage generation in KLD:** | Nil |
| | **STP technology:** | Not Applicable |
| | **Capacity of STP (CMD):** | Not Applicable |
| | **Location & area of the STP:** | Not Applicable |
| | **Budgetary allocation (Capital cost):** | Not Applicable |
| | **Budgetary allocation (O & M cost):** | Not Applicable |
| **36.Solid waste Management** | | |
| **Waste generation in the Pre Construction and Construction phase:** | **Waste generation:** | Not Applicable |
| | **Disposal of the construction waste debris:** | Not Applicable |
| **Waste generation in the operation Phase:** | **Dry waste:** | 25036 m3 |
| | **Wet waste:** | Nil |
| | **Hazardous waste:** | Nil |
| | **Biomedical waste (If applicable):** | Not Applicable |
| | **STP Sludge (Dry sludge):** | Not Applicable |
| | **Others if any:** | Nil |
| **Mode of Disposal of waste:** | **Dry waste:** | Top soil will be used for plantation and waste materials will be dumped on non-mineral area which will be biologically stabilized |
| | **Wet waste:** | Not Applicable |
| | **Hazardous waste:** | Not Applicable |
| | **Biomedical waste (If applicable):** | Not Applicable |
| | **STP Sludge (Dry sludge):** | Not Applicable |
| | **Others if any:** | Not Applicable |
| **Area requirement:** | **Location(s):** | On non mineralized area within the mining lease |
| | **Area for the storage of waste & other material:** | 0.629 Ha |
| | **Area for machinery:** | Not required |
| **Budgetary allocation (Capital cost and O&M cost):** | **Capital cost:** | Not Applicable |
| | **O & M cost:** | Not Applicable |
| **37.Effluent Charecterestics** | | |

| Serial Number | Parameters | Unit | Inlet Effluent Charecterestics | Outlet Effluent Charecterestics | Effluent discharge standards (MPCB) |
|---|---|---|---|---|---|
| 1 | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| Amount of effluent generation (CMD): | | Nil | | | |
| Capacity of the ETP: | | Not Applicable | | | |
| Amount of treated effluent recycled : | | Not Applicable | | | |
| Amount of water send to the CETP: | | Not Applicable | | | |
| Membership of CETP (if require): | | Not Applicable | | | |
| Note on ETP technology to be used | | Not Applicable | | | |
| Disposal of the ETP sludge | | Not Applicable | | | |

## 38.Hazardous Waste Details

| Serial Number | Description | Cat | UOM | Existing | Proposed | Total | Method of Disposal |
|---|---|---|---|---|---|---|---|
| 1 | None | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |

## 39.Stacks emission Details

| Serial Number | Section & units | Fuel Used with Quantity | Stack No. | Height from ground level (m) | Internal diameter (m) | Temp. of Exhaust Gases |
|---|---|---|---|---|---|---|
| 1 | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |

## 40.Details of Fuel to be used

| Serial Number | Type of Fuel | Existing | Proposed | Total |
|---|---|---|---|---|
| 1 | None | Not Applicable | Not Applicable | Not Applicable |
| 41.Source of Fuel | | Not Applicable | | |
| 42.Mode of Transportation of fuel to site | | Not Applicable | | |

| | | |
|---|---|---|
| **43.Green Belt Development** | **Total RG area :** | Not Applicable |
| | **No of trees to be cut :** | None |
| | **Number of trees to be planted :** | 10000 |
| | **List of proposed native trees :** | Awala, Behada, Kadulimb, Moha, Kawath |
| | **Timeline for completion of plantation :** | Upto conceptual period (7 years) |

## 44.Number and list of trees species to be planted in the ground

| Serial Number | Name of the plant | Common Name | Quantity | Characteristics & ecological importance |
|---|---|---|---|---|
| 1 | Azadirachta indica | Kadunimb | 2000 | Created to intercept dust, gaseous pollutants and noise |
| 2 | Cassia fistula | Behada | 1000 | Created to intercept dust, gaseous pollutants and noise |

| | | | | |
|---|---|---|---|---|
| 3 | Madhuca indica | Moha | 1000 | Created to intercept dust, gaseous pollutants and noise and Fruits |
| 4 | Emblica officinalis | Amla | 2000 | Created to intercept dust, gaseous pollutants and noise and Fruits |
| 5 | Tectona grandis | Sag | 2000 | Created to intercept dust, gaseous pollutants and noise to be used for timber |
| 6 | Other local species | - | 2000 | Created to intercept dust, gaseous pollutants and noise and Fruits |
| **45.Total quantity of plants on ground** | | | | |

## 46.Number and list of shrubs and bushes species to be planted in the podium RG:

| Serial Number | Name | C/C Distance | Area m2 |
|---|---|---|---|
| 1 | Not Applicable | Not Applicable | Not Applicable |

## 47.Energy

| | | |
|---|---|---|
| **Power requirement:** | **Source of power supply :** | Maharashtra State Power Distribution Company Limited |
| | **During Construction Phase: (Demand Load)** | Not Applicable |
| | **DG set as Power back-up during construction phase** | Not Applicable |
| | **During Operation phase (Connected load):** | 500 KV |
| | **During Operation phase (Demand load):** | 500 KV |
| | **Transformer:** | 1 Transformer |
| | **DG set as Power back-up during operation phase:** | No |
| | **Fuel used:** | Not Applicable |
| | **Details of high tension line passing through the plot if any:** | None |

## 48.Energy saving by non-conventional method:

It is proposed to install 5 Solar Light poles within mining lease area to saving energy by non-conventional method.

## 49.Detail calculations & % of saving:

| Serial Number | Energy Conservation Measures | Saving % |
|---|---|---|
| 1 | Solar light | 5 lamps |

## 50.Details of pollution control Systems

| Source | Existing pollution control system | Proposed to be installed |
|---|---|---|
| - | - | - |

| | | |
|---|---|---|
| **Budgetary allocation (Capital cost and O&M cost):** | **Capital cost:** | Rs 40000/- |
| | **O & M cost:** | Rs. 5000/- |

## 51.Environmental Management plan Budgetary Allocation

### a) Construction phase (with Break-up):

| Serial Number | Attributes | Parameter | Total Cost per annum (Rs. In Lacs) |
|---|---|---|---|
| 1 | Not Applicable | Not Applicable | Not Applicable |

### b) Operation Phase (with Break-up):

| Serial Number | Component | Description | Capital cost Rs. In Lacs | Operational and Maintenance cost (Rs. in Lacs/yr) |
|---|---|---|---|---|
| 1 | Air Pollution Control | Dust Suppression | Nil | 2 |
| 2 | Water Pollution Control | Desilting Tanks, garland drain, Boulder Check plug, Septic Tanks/Soak Pits, Mine water sedimentation pond & pumps | 3 | Nil |
| 3 | Pollution Monitoring | Hydrogeological monitoring, Air, Water, Noise Vibration Monitoring | Nil | 2 |
| 4 | Conservation of Natural Resources | Solar Lightening arrangement, Rainwater Harvesting ,Soil preservation (biological reclamation) | 2 | Nil |
| 5 | Plantation /Reclamation | Biological reclamation, Plantation, Reclamation (Dump) | 1 | 1 |
| 6 | Occupational Health | Fire Fighting Equipments (portable), Personnel protection equipments (goggles , gloves, helmets, dust mask, safety boots) | 1 | 0.5 |

## 51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

| Description | Status | Location | Storage Capacity in MT | Maximum Quantity of Storage at any point of time in MT | Consumption / Month in MT | Source of Supply | Means of transportation |
|---|---|---|---|---|---|---|---|
| None | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |

## 52.Any Other Information

No Information Available

## 53.Traffic Management

| | | |
|---|---|---|
| | **Nos. of the junction to the main road & design of confluence:** | Not Applicable |
| **Parking details:** | **Number and area of basement:** | Not Applicable |
| | **Number and area of podia:** | Not Applicable |
| | **Total Parking area:** | Not Applicable |
| | **Area per car:** | Not Applicable |
| | **Area per car:** | Not Applicable |
| | **Number of 2-Wheelers as approved by competent authority:** | Not Applicable |
| | **Number of 4-Wheelers as approved by competent authority:** | Not Applicable |
| | **Public Transport:** | Not Applicable |
| | **Width of all Internal roads (m):** | Not Applicable |
| | **CRZ/ RRZ clearance obtain, if any:** | Not Applicable |
| | **Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries** | Not Applicable |
| | **Category as per schedule of EIA Notification sheet** | Not Applicable |
| | **Court cases pending if any** | Not Applicable |
| | **Other Relevant Informations** | Not Applicable |
| | **Have you previously submitted Application online on MOEF Website.** | No |
| | **Date of online submission** | - |

## SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

| | |
|---|---|
| **Environmental Impacts of the project** | PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits at site. |
| **Water Budget** | PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement. |
| **Waste Water Treatment** | Not Applicable |

| | |
|---|---|
| **Drainage pattern of the project** | During rainy season, PP to provide adequate storm water drains to prevent entry of the rain water in the mine pit. |
| **Ground water parameters** | Not ApplicabAs per data submitted by PP ground water parameters are within the prescribed limits at project site.le |
| **Solid Waste Management** | Top soil will be used for plantation and waste materials will be dumped on site in non mineral area which will be biologically stabilized. |
| **Air Quality & Noise Level issues** | As per data submitted by PP Air Quality and noise parameters are within the prescribed limits at project site. |
| **Energy Management** | Solar lights will be used for illumination on site. |
| **Traffic circulation system and risk assessment** | PP provided internal roads of six meters width for smooth circulation of traffic. |
| **Landscape Plan** | The proposed mine area will be converted into green belt after completion of mining activity as per approved closure plan.. |
| **Disaster management system and risk assessment** | PP carried out HAZOP and Risk Assessment and submitted DMP. |
| **Socioeconomic impact assessment** | PP has carried out socio economic impact study and included in the EIA report. |
| **Environmental Management Plan** | PP prepared EMP cost of Rs.7 Lakh as capital cost and Rs.5.5 Lakh as O & M cost to maintain environmental parameters. |
| **Any other issues related to environmental sustainability** | Not Applicable |

## Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 5(f)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

The Public Hearing of the projects was carried out on 08.09.2017, now PP submitted EIA report and Public Hearing Report for appraisal.

The proposed land is situated at a distance of 50 meters from the boundary of Pench Project. PP brough the OM issed by MoEF&CC dated 20.08.2014 to the notice of SEAC, the relevant para of the said OM is reprodcued bleow,

" ***Over a period of time, this Ministry has notified a number of Eco Sensitive Zones (ESZ's) around PAs. Many of development activities are prohibited/ regulated in these ESZs as per the notifications issued for their constitution. It may be noted that, for regulated activities requiring prior ECs within such ESZs prior clearance of the Standing Committee of NBWL will be required in view of aforesaid Supreme Sourt Order dated 04.12.2016, the only difference being that the distance of 10 KM gets substituted by the boundary limits of such ESZs.***"

In view of above OM, SEAC decided to appraise the proposal as category "B".



## DECISION OF SEAC

This EC will be for the mining of 5200MT of Manganese.

After detailed deliberations with the PP and his accredited consultant, SEAC decided to recommend the proposal for prior Environmental Clearance to the SEIAA.

**Specific Conditions by SEAC:**

**1)** PP to obtain permission from the Irrigation Department under Maharashtra Irrigation Act, 1976 for mining on the proposed plot as it is situated within 200 mtrs. from existing irrigation canal.
**2)** PP to ensure to reroute the high voltage transmission line out of the proposed land before taking any effective steps for mining activity.
**3)** PP to utilize CSR funds in consultation with the District Authority. PP to maintain separate account for CSR funds.

## FINAL RECOMMENDATION

SEAC-I have decided to recommend the proposal to SEIAA for Prior Environmental clearance subject to above conditions