ENVIRONMENTAL CLEARANCE

PARIVESH

(Pro-Active and Responsive Facilitation by Interactive, and Virtuous Environmental Single-Window Hub)

# Government of India
# Ministry of Environment, Forest and Climate Change
# (Issued by the State Environment Impact Assessment Authority(SEIAA), Maharashtra)

To,

The Director

HENKEL ADHESIVE TECHNOLOGIES INDIA PVT. LTD.

Plot No.D-4/2, MIDC Kurkumbh, Taluka- Daund, District-Pune, Maharashtra -413802

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/MH/IND2/63284/2015 dated 25 Aug 2021. The particulars of the environmental clearance granted to the project are as below.

| | | |
|---|---|---|
| **1.** | **EC Identification No.** | **EC22B021MH157606** |
| **2.** | **File No.** | SIA/MH/IND2/63284/2015 |
| **3.** | **Project Type** | Expansion |
| **4.** | **Category** | B1 |
| **5.** | **Project/Activity including Schedule No.** | 5(f) Synthetic organic chemicals industry (dyes & dye intermediates; bulk |
| **6.** | **Name of Project** | Proposed expansion project for manufacturing of Adhesives, Sealants and surface treatment products at Plot No.: D-4/1 & D-4/2, MIDC Kurkumbh, Dist. Pune, Maharashtra by Henkel Adhesive Technology India Pvt. LTD |
| **7.** | **Name of Company/Organization** | HENKEL ADHESIVE TECHNOLOGIES INDIA PVT. LTD. |
| **8.** | **Location of Project** | Maharashtra |
| **9.** | **TOR Date** | 15 May 2015 |

The project details along with terms and conditions are appended herewith from page no 2 onwards.

**(e-signed)**
**Manisha Patankar Mhaiskar**
**Member Secretary**
**SEIAA - (Maharashtra)**

**Date: 10/02/2022**

*Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH.Please quote identification number in all future correspondence.*

*This is a computer generated cover page.*

**STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY**

No SIA/MH/IND2/63284/2015
Environment & Climate Change Department
Room No. 217, 2nd Floor,
Mantralaya, Mumbai- 400032.

To
M/s. Henkel Adhesive Technology India Pvt. LTD.,
Plot No.: D-4/1 & D-4/2, MIDC Kurkumbh,
Dist. Pune

Subject : Environmental Clearance for Proposed expansion project for manufacturing of Adhesives, Sealants and surface treatment products at Plot No.: D-4/1 & D-4/2, MIDC Kurkumbh, Dist. Pune, Maharashtra by M/s. Henkel Adhesive Technology India Pvt. LTD

Reference : Application no. SIA/MH/IND2/63284/2015

This has reference to your communication on the above mentioned subject. The proposal was considered by the SEAC-1 in its 207th meeting under screening category 5(f) as per EIA Notification, 2006 and recommend to SEIAA. Proposal then considered in 236th (Day-1) meeting of State Level Environment Impact Assessment Authority (SEIAA).

2. Brief Information of the project submitted by you is as below:-

<table>
<tr><th>Sr. No.</th><th>Particulars Required</th><th>Details</th></tr>
<tr><td>1</td><td>Name of the project & Address along with all corner latitude and longitude</td><td>Proposed expansion project for manufacturing of Adhesives, Sealants and surface treatment products by Henkel Adhesive Technologies India Pvt. Ltd. at Plot No.: D-4/1 & D-4/2, MIDC Kurkumbh, Dist. Pune, Maharashtra.
<table>
<tr><th>Corner</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>Centre</td><td>18°24'25.75"N</td><td>74°30'16.24"E</td></tr>
<tr><td>1</td><td>18°24'32.79"N</td><td>74°30'11.60"E</td></tr>
<tr><td>2</td><td>18°24'22.67"N</td><td>74°30'23.96"E</td></tr>
<tr><td>3</td><td>18°24'18.46"N</td><td>74°30'20.11"E</td></tr>
<tr><td>4</td><td>18°24'28.43"N</td><td>74°30'23.71"E</td></tr>
</table></td></tr>
<tr><td>2</td><td>Type of Organization (Private /Government/Semi Government etc.)</td><td>Private</td></tr>
<tr><td>3</td><td>Correspondence Address and contact details of Project Proponent</td><td>Mr. Mahesh Aloni<br>Contact No. 022 71311112</td></tr>
</table>

| | | |
|---|---|---|
| | | Email ID- mahesh.aloni@henkel.com<br>L & T Seawoods, Grand Central, 401, B wing, 4th Floor, Tower 1, Seawoods, Navi Mumbai-400 706., Maharashtra |
| 4 | Type of project (ToR/EC/Amendment in ToR/Amendment in EC/ Revalidation/ Expansion/Process change etc.) | EC (Expansion Project) |
| 5 | Category of project as per EIA Notification 2006 amended from time to time (Pl. mention category A,B,B1,B2 etc. whichever is applicable) | Category B-1 |
| 6 | If earlier ToR is obtained pl. mention details (ToR letter No. & Date, SEAC/EAC Meeting No.) | ToR letter Number SIA/MH/IND3/62182/2021<br>Date of issue of ToR:- 26th March 2021<br>SEAC meeting was not conducted for grant of ToR. Standard ToR was issued by SEIAA. |
| 7 | If earlier EC is obtained pl. mention EC Number & Date | EC Reference No. SEAC-2015/CR-253/TC-2<br>Date of EC granted:- 28th June 2016<br>EC was issued for the establishment of manufacturing facility |
| 8 | Whether the proposal is a violation case (yes/no) | No |
| 9 | Applicability of CRZ clearance (yes /no) | No |
| 10 | Whether General /Specific Conditions are applicable to the project (Yes/No) If yes pl. give details | No |
| 11 | Whether Scrutiny fees paid as per SEIAA guidelines(Yes/No); If yes pl. give payment details | Yes<br>Fees paid- 4.0 Lacs<br>Date: 09.12.2020<br>Reference No. 22207187 |
| 12 | Name of accredited Environmental Consultant & address along with Accreditation No. & Validity | **Goldfinch Engineering Systems Private Limited**<br>Plot No. A-288, Road No. 16Z, Opp. Agricultural Bus Stop, Wagle Industrial Area, Thane West 400604, Maharashtra, NABET/EIA/1922/RA 0145,<br>Valid upto- 8th December 2022. |
| 13 | Name of layout plan approving Authority | MIDC, Kurkumbh |
| 14 | Estimated cost of Project (in Rs. Lakhs) | **Total: 388.03 Crs.**<br>(Existing- 291.02 Cr. & Proposed- 97.01 Cr.). |
| 15 | Area of project (in Sq.m.) | 126427.365 sq. m. |
| 16 | Whether 33% green belt is provided (Yes/No) | Yes<br>As per existing EC (Dated-28.6.2016) green belt area should be 15147.95 sq. m which was 33% of open plot area (i.e.15.14% of total plot area.).<br>For proposed expansion, Henkel has acquired land just adjacent to the existing unit at D-4/2. Henkel has provided 8961.56 sq. m. of land for green belt which is 33.94% of |

| | | | |
|---|---|---|---|
| | | total plot area of D-4/2.<br>Amalgamation of both the plots are done.<br>**Total green belt area:24109.51 (19.06 % of total plot area inside the plot D-4/1 & D-4/2)**.To meet the requirement of 33% of green belt i.e. 41721 sq. m, deficit green belt i.e. 17611.51 sq. m. will be developed outside the premises on MIDC land at plot OS-15 which is located across the MIDC road from project site. Outside green belt will be developed with permission of MIDC. | |
| 17 | Area of Green Belt & No. of trees in the proposed project in Sq.m. (Pl. provide 2000 trees per hectare of green belt area) | **Total: 41721 Sq.m.**<br>Total: 7500 Nos. of trees (Existing 2131 no's of trees already planted & Proposed 1869 no's of trees will be planted inside of the plot & 3500. no's of trees will be planted outside of the plot) | |
| 18 | Width of internal roads and turning radius | More than 6 m wide and 9 m turning radius | |
| 19 | Details of proposed construction | **Total Built-up Area (in Sq.m)** | Total Built up area:- 63805.34 Sq. m. ( Existing 40044.36 + proposed 23760.98) |
| | | **No. of Buildings & its height in mtrs.** | Existing 03 numbers of buildings with 25 to 30 m heights.<br>Additional proposed 03 numbers of buildings with 25 to 30 m heights. |

**List of Raw materials & Storage Details (Pl. add on in the list if necessary)**

| Sr. No | Name of Raw material | Consumption MTA | Maximum Storage Details MT | Hazard category | Proposed precautions to prevent accident | Remarks |
|---|---|---|---|---|---|---|
| 1 | Sodium hydroxide | 11768 | 484 | Corrosive | To prevent any accident, all the materials are appropriately stored in warehouse with proper required detection systems , alarm systems and proper extinguish system. All the materials are stored as per joint storage compatibility. Hazardous and non hazardous material are properly | -- |
| 2 | Acrylic polymer | 11204 | 921 | - | | -- |
| 3 | Calcium Carbonate | 10117 | 832 | - | | -- |
| 4 | Diphenylmethane diisocyanate (MDI), polymeric | 9614 | 790 | Toxic | | -- |
| 5 | Hydrocarbon Resin | 6927 | 569 | Flammable | | -- |
| 6 | Hydrogenated hydrocarbon resin | 6483 | 533 | Flammable | | -- |
| 7 | Petroleum hydrocarbon resin | 5899 | 242 | Flammable | | -- |
| 8 | Ethylene Vinyl Acetate (EVA) Copolymer | 5610 | 231 | Toxic | | -- |
| 9 | Fully Refined Wax | 5290 | 435 | - | | -- |
| 10 | White Mineral Oil | 4165 | 342 | Flammable | | -- |
| 11 | Styrene-Butadiene-Styrene Block Copolymer | 3839 | 158 | Toxic | | -- |
| 12 | Polyester polyol | 3720 | 153 | Toxic | | -- |
| 13 | Propanon *2-Dimethylketon | 3695 | 152 | Flammable | | -- |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 14 | Acetic acid ethyl ester | 3551 | 292 | Flammable | separated by fire rated partitions. | -- |
| | 15 | Methyl ethyl ketone, ethyl methyl ketone. | 3462 | 142 | Flammable | | -- |
| | 16 | Vinyl acetate, ethylene copolymer | 2831 | 233 | Flammable | | -- |
| | 17 | Ethylene-vinyl acetate copolymer emulsion | 2683 | 110 | Toxic | | -- |
| | 18 | Vinyl acetate | 2500 | 103 | Flammable | | -- |
| | 19 | Treated, fumed silica | 2416 | 99 | - | | -- |
| | 20 | Polyurethane | 2305 | 189 | Toxic | | -- |
| | 21 | polymer with chloroethylene | 1849 | 152 | Toxic | | -- |
| | 22 | Gum Rosin | 1837 | 75 | Flammable | | -- |
| | 23 | Styrene butadiene copolymer | 1742 | 143 | Toxic | | -- |
| | 24 | Distillates (petroleum), hydrotreated heavy naphthenic | 1631 | 134 | Flammable | | -- |
| | 25 | Styrene-Isoprene-Styrene block copolymer | 1624 | 133 | Toxic | | -- |
| | 26 | Cyclohexane, methyl-Hexahydrotoluene Cyclohexylmethane | 1621 | 133 | Flammable | | -- |
| | 27 | Cyclohexane,Hexanaphthene | 1600 | 132 | Flammable | | -- |
| | 28 | Isoprene-Styrene Polymer | 1585 | 130 | Toxic | | -- |

21 **Production Details**

| Sr. No | Products Name | Existing Capacity MT/A | Proposed Capacity MT/A | Total Capacity MT/A | Name of product approving authority |
|---|---|---|---|---|---|
| 1 | Adhesives | 50000 | 124250 | 174250 | Not applicable |
| 2 | Surface Treatment Products | 33000 | 12000 | 45000 | |
| 3 | Sealants | 00 | 12000 | 12000 | |
| | **Total** | **83000** | **148250** | **231250** | |

22 Water Consumption & Effluent generation (All units in CMD)

i) Source & Qty. of water requirement (in CMD) :
Existing: 207 CMD,
Additional proposed: 313 CMD
Total: 520 CMD, After recycling 50 CMD treated domestic waste water from STP net fresh water requirement will be 470 CMD. Source: MIDC Kurkumbh

ii) Water supply permission obtained (Yes/No) & approving Authority: Yes, MIDC Kurkumbh.

| Particulars | Consumption (CMD) | | | Loss /gain (CMD) | | | Effluent (CMD) | | |
|---|---|---|---|---|---|---|---|---|---|
| Water Requirement | Existing | Additional | Total | Existing | Additional | Total | Existing | Additional | Total |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Propose d | | | Proposed | | | Proposed | |
| | **Domestic** | 44 | 25 | 69 | 9 | 5 | 14 | 35 | 20 | 55 |
| | **Industrial process** | 37 | 45 | 82 | 15 | 36 | 51 | 22 | 9 | 31 |
| | **Scrubber** | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| | **Floor & vessel washing** | 25 | 6 | 31 | 1 | 0 | 1 | 24 | 6 | 30 |
| | **Fire water** | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 0 | 0 |
| | **Make up water Cooling Tower** | 76 | 59 | 135 | 52 | 53 | 105 | 24 | 6 | 30 |
| | **Make up water Boiler + DM water + Chillar** | 0 | 23 | 23 | 0 | 20 | 20 | 0 | 3 | 3 |
| | **Gardening** | 25 | 149 | 174 | 25 | 149 | 174 | 0 | 0 | 0 |
| | **Total** | **207** | **313** | **520** | **(-)102** | **(-)268** | **(-)370** | **105** | **45** | **150** |

| | | |
|---|---|---|
| 23 | Quantity of sewage generation (in CMD) | 55 CMD |
| 24 | Details of Sewage Treatment and Disposal of treated sewage: | 55 CMD domestic wastewater will be treated in STP of capacity 90 CMD. 50 CMD treated waste water will be reused for the gardening in non-monsoon season and for utilities in monsoon season after disinfection and remaining 5 CMD treated waste water will be sent to CETP as per valid Consent. |
| 25 | **Detail of Effluent Generation (unit CMD)** | |
| 26 | Whether Zero liquid Discharge Effluent Treatment is proposed (Yes/No) | No |
| 27 | Brief Description of Effluent Treatment scheme | Existing Trade effluent 70 CMD along with proposed 25 CMD will be treated in conventional ETP Consisting of Primary, secondary and tertiary Treatment. After treatment it will be sent to CETP Kurkumbh for disposal. The Capacity of existing ETP is 150 CMD & after adequacy study ,it was seen that it is adequate to treat the total effluent of 95 CMD. |
| 28 | Qty. of treated effluent proposed to be sent to CETP (pl. mention Name of CETP and its membership Details) | Treated trade effluent 95 CMD and treated domestic effluent 5 CMD as per existing valid consent will be sent to CETP<br>Name of CETP: Kurkumbh Environment Protection Co- Operative Society Maryadit<br>Membership No: KEPCSM/HATIPL/58/2014 |

| **Particulars** | **Existing** | **Proposed** | **Total** |
|---|---|---|---|
| a) Qty. of Effluent generation: (CMD) | 70 | 25 | 95 |
| b) Qty. of high TDS/COD effluent: (CMD) | -- | -- | -- |
| c) Qty. of low TDS/COD effluent: (CMD) | 70 | 25 | 95 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | Please mention parameters of treated effluent to be achieved as per EP Rule,1986 and or stipulated by the SPCB | | | | | |
| 29. | **Parameter** | **Unit** | **Inlet to Primary Treatment** | **Inlet to Secondary Treatment** | **Inlet to Tertiary treatment** | **Final treated water** |
| | **Flow** | m3/day | 95 | 95 | 95 | 95 |
| | **pH** | --- | 6.5 -8.5 | 7.0 - 8.5 | 7.0-8.5 | 7.0-8.5 |
| | **COD** | mg/l | 900-1300 | 700 - 800 | 200-250 | 150-200 |
| | **BOD3 days $27^0$C** | mg/l | 450-550 | 340 - 450 | <100 | <30 |
| | **TSS** | mg/l | 500-600 | <100 | <100 | <100 |
| | **TDS** | mg/l | 1200-1500 | 1000-1200 | 900-100 | 600-700 |
| 30 | Brief Note on proposed Rainwater harvesting scheme along with budget allocation: | | | Exiting Rain water collection from roof top is 637.2 m3 & from proposed building additional 102.6 $m^3$ will be collected in existing tank of 750 KL capacity. Rain water will be used for utility purpose to reduce fresh water consumption during rainy season. Excess rain water will be drained to natural drain. Capital cost: 24 Lacs, Recurring cost: 1.7 Lacs/A | | |

31. **Solid Waste management**

**Non Hazardous Waste:**

| Sr. No. | Description | Source of Methods | Existing (MTPA) | Proposed (MTPA) | Total (MTPA) | Method of Disposal | Pl. mention plan waste to reduce solid waste generation if any |
|---|---|---|---|---|---|---|---|
| 1. | Pipes, steel structures, valves, pumps | From Process area | 36 | 135 | 171 | Sale to authorized vendor | -- |
| 2. | Engg Wastes (Nut | From | 24 | 40 | 64 | Sale to | -- |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | bolt, fasteners, storage rack bars etc.) | Process area | | | | authorized vendor | |
| | 3. | Metal drums/Waste | From Process area | 00 | 138 | 138 | Sale to authorized vendor | -- |
| | 4. | Poly bag/Plastic ,Jumbo Bags with liners, Office waste, Glass scrap, Paper bags | From Office | 00 | 826 | 826 | Sale to authorized vendor | -- |
| | 5. | HDPE Drums | From Process area | 00 | 12 | 12 | Sale to authorized vendor | -- |
| | 6. | Wooden scrap/ Pallet | From Process area | 420 | 900 | 1320 | Sale to authorized vendor | -- |
| | 7. | STP sludge | STP | 18 | 20 | 38 | Will be used as manure for gardening after analysis and approval from the competent authority | -- |
| | 8. | Used PPEs | From Process area | 00 | 2 | 02 | Sale to authorized vendor | -- |
| | 9. | Empty chemical bottles and Glassware | From Process area | 1.2 | 2 | 3.2 | Sale to authorized vendor | -- |
| | 10. | Floor tiles and Construction waste | From constructio n | 6 | 17 | 23 | Sale to authorized vendor | -- |
| | 11. | Canteen Waste | From Canteen | 36 | 142 | 178 | Sale to authorized vendor | -- |
| | 12. | Cotton waste | From Process | 0 | 113 | 113 | Sale to authorized vendor | -- |
| | 13. | Poly bag/Plastic /Cardboard | From Process | 0 | 57 | 57 | Sale to authorized vendor | -- |

32. **Hazardous Waste Generation & Disposal (As per HW Rule 2016)**

| Sr. No. | Category | Description | Source of Generation | Existing (MTPA) | Additional Proposed (MTPA) | Total (MTPA) | Method of Disposal as per HW Rules 2016 |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | 21.1 | Adhesive Waste (filter residue/cleaning/ scrap/QC/cotton waste/used PPE) | All operating areas | 36 | 850 | 886 | CHWTSDF |
| 2. | 5.1 | Used lube oil | All operating areas | 4.8 | 36 | 40.8 | CHWTSDF |
| 3. | 23.1 | Waste residue | Return from Customer | 360 | 30 | 390 | CHWTSDF |
| 4. | 3.3 | Oil filters | Thermopack | 0.72 | 23 | 23.72 | Sale to Authorized re-Processor / CHWTSDF |
| 5. | 15.2 | Asbestos gasket | Engg. Packing Material | 0.6 | 1.64 | 2.24 | CHWTSDF |
| 6. | 26.2 | Spent solvent | Cleaning of equipment | 24 | 122 | 146 | Sale to Authorized re-Processor / CHWTSDF |
| 7. | 33.1 | Empty Hazardous drums/barrels | QC retain sample/ leak material/ blending /Painting drums | 1200 | 4000 | 5200 | Authorized vendor /CHWTSDF |
| 8. | 23.1 | Resin waste | Softener Plant | 2.4 | 5 | 7.4 | CHWTSDF |
| 9. | 35.3 | ETP Sludge | ETP | 180 | 400 | 580 | CHWTSDF |
| 10. | 35.3 | Spent carbon | ETP | 0.0 | 35 | 35 | CHWTSDF |
| 11. | 37.1 | Scrubber waste | Scrubber | 3.6 | 6 | 9.6 | CHWTSDF |
| 12. | 27.1 | Silicon - containing residues | Production plant | 0.0 | 160 | 160 | CHWTSDF |
| 13. | 23.1 | Process waste & residues | Production plant | 0.0 | 95 | 95 | TCHWTSDF |
| 14. | 33.1 | Discarded containers / barrels / liners | All operating areas | 0.0 | 610 | 610 | Sell to authorized recycler after washing |
| 15. | 5.2 | Wastes or residues containing oil/cotton waste | All operating areas | 0 | 4 | 4 | CHWTSDF |

**Other wastes**

| Sr. No. | Description | Source of Generation | Existing (MTPA) | Additional | Description (MTPA) | Method of Disposal |
|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | **Proposed (MTPA)** | | |
| | 1. | Used batteries | From Office | 1.2 | 1.0 | 2.2 | Authorized Recycler |
| | 2. | Bio-medical wastes | From Office | 0.24 | 0.02 | 0.26 | Authorized bio medical waste facility |
| | 3. | E-waste | From Office | 0.6 | 1.2 | 1.8 | Authorized Recycler |

**Fuel Consumption**

| S.No. | Type of fuel | Consumption Qty (TPD) | | | Used for (Boiler/ Dg Set etc.) | Ash % | SO2% | Air Pollution Control/equipment provide (Yes/No) |
|---|---|---|---|---|---|---|---|---|
| | | Existing | Proposed | Total | | Total | Total | |
| 1 | FO | 1000 Kg/Hr | 553 Kg/Hr | 1553 Kg/Hr | **Boilers:** Proposed 3 TPH (1 number) **Thermopack:** Existing 3 no. 25 lakh Kcal/Hr and proposed 1 no. 25 lakh Kcal/Hr | 0.1 % | 9 % | Yes, height and wet scrubber |
| 2 | HSD | 850 Lit/Hr | 1300 Lit/Hr | 2150..00 lit/hr. | **DG Sets:** Existing 1 no. 2000 KVA and proposed 2 no. 2000 KVA | 0.01% | 0.5 % | Yes, Stack of adequate & Acoustic Enclosure |

| | | |
|---|---|---|
| 34 | Brief Note on Air Pollution Control equipment's | **For Existing Thermopack:** wet scrubber is already installed to scrub 90% of SO2<br>**For proposed Boiler & Thermopack:** wet scrubber will be installed to scrub 90% of SO2<br>Stack of adequate height is/will be provided to DG sets. |

35 **Stack Details (Also include process vent details)**

| Sr. No. | Section / Unit | Source pollutions | Stack No. | Stack height | Height form ground | Internal Diameter | Temperature of exhaust gas |
|---|---|---|---|---|---|---|---|
| 1 | Existing Thermopack | Ash / $SO_2$ | 1 number | 36 m | 36 m | 0.3 m | 135° C |
| 2 | Existing Thermopack * 2 Nos. | Ash / $SO_2$ | 1 number | 45 m | 45 m | 0.3 m | 135° C |
| 3 | Proposed Thermopack | Ash / $SO_2$ | 1 number | 40 m | 40 m | 0.3 m | 135° C |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 4 | Proposed Boiler | Ash / $SO_2$ | 1 number | 35 m | 35 m | 0.45 m | 110° C |
| | 5 | Existing DG Set 1 number 2000 KVA | $SO_2$ | 1 number | 30 m | 30 m | 0.1 m | 150° C |
| | 6 | Proposed DG Set 1 number 2000 KVA | $SO_2$ | 1 number | 30 m | 30 m | 0.1 m | 150° C |
| | 7 | Proposed DG Set 1 number 2000 KVA | $SO_2$ | 1 number | 30 m | 30 m | 0.1 m | 150° C |

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**Energy**

a) Source of power Supply: MSEDCL.

b) Total maximum demand (KVA): 14426KW (Installed) & 9717 KW (Operational),

c) whether DG sets will be provided (Yes/No): Yes

**if yes :**

| Sr. No. | No. of DG Sets | | Capacity |
|---|---|---|---|
| | Existing | Proposed | |
| 1 | 1 | 2 | Existing: 2000 KVA, Proposed: 2000 KVA each |

d) Please Mention if high tension line is passing through the plot : No

e) If yes, pl. give details of safety measures adopted: Not applicable

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**Details of use of renewable energy with budget allocation**

i) Total Energy Demand 14426 KW

ii) Total renewable energy source capacity 795 kWp from solar

iii) Total Budget (in Rs. Lakhs): 30.00 Lakhs

iv) Timeline for implementation: 2 year after getting EC

It will be used for street light, parking and admin building

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**Details of public hearing (if applicable): Not applicable**

i) Place of public hearing: **Not applicable**

ii) Date of public hearing:

**Please fill following details**

| Sr. | Issue raised duringpublic hearing | Applicant plan for itscompliance/ implementation | Budget allocation for implementation | Specific time No. lineof compliance |
|---|---|---|---|---|

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EMP (Please mention specific items proposed in EMP along with specific timeline for its implementation)

**Construction Phase:**

| Sr. No. | Attribute | Specific measure | Budget in (Rs lakh) | Remark |
|---|---|---|---|---|
| 1 | Air | Water sprinkling through sprinkler for the dust suppression during the construction | 1 | -- |
| 2 | Water | Provision of the onsite mobile portable toilets for the construction labors and the silt traps for prevention of soil erosion along with runoff | 1 | -- |
| 3 | Noise | Noise damping pads, enclosure of the area by tin sheets | 0.5 | -- |
| 4 | Soil | Preserving top soil for the later use in green belt by storing at a temporary place | 5 | -- |
| 5 | Solid waste | Segregation of the solid waste in wet and dry waste and provision of the separate bins for the same | 1 | -- |
| 6 | Hazardous waste | Storage areas for the hazardous waste such as empty paint cans etc and barrels for used oil , etc | | -- |
| 7 | Fuel & Energy | Use of cleaner fuel for construction machineries | 5 | -- |
| 8 | Safety & heath | Provision of the PPE kit for the workers such as safety harness, safety goggles, safety helmets , gloves | 2 | -- |
| | | **Total** | 15.5 | |

**Operation Phase:-**

| Sr. No. | Attributes | Description | Budget In (Rs. Lacs) | Time line for implement | Responsibility |
|---|---|---|---|---|---|
| 1. | Air pollution control | Provision of stacks of height & Online monitoring system for Process Vents | Capital: 36.00 Lacs, Recurring: 04.00 Lacs/yr. | Existing are in place and for additional boiler during commissioning | EHS Team |
| 2. | Water pollution control | Effluent Treatment Plant Online monitoring system will be installed to measure Flow, pH, TSS, TDS, COD, Chlorides, Sulphates & other project specific parameters as per | Capital:- 300 Lacs Recurring: 15 Lacs/yr. | Already in place. | EHS Team |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | direction of MPCB at the time of issue of CTO. , Sewage Treatment Plant | | | |
| | **3.** | Noise pollution Control | Acoustic enclosure and regular maintenance | Capital:- 9.0 Lacs Recurring: 00.40 Lacs/yr. | Existing are in place and for additional DG during commissioning | EHS Team |
| | 4 | Solid waste | Storage and Disposal | Capital:- 9 Lacs Recurring: 392 Lacs/yr. | Existing are in place and for additional during commissioning | EHS Team |
| | **5** | Hazardous waste storage and disposal | Storage, transportation and disposal | | | |
| | **6** | Occupational Health | Medical checkup, Health insurance policy, Medical staff charges, First aid facilities, consumables, In-house first aid room Other infrastructure and Equipment | Capital:-54.00 Lacs Recurring: 18.00 Lacs/yr. | Existing are in place and for additional during commissioning | HR/Admin/ EHS Team |
| | **7.** | Rain water harvesting | rainwater harvesting tank and maintenance of the same | Capital:- 24 Lacs Recurring: 1.7 Lacs/yr. | Already in place. | Project team / EHS Team |
| | 8 | implementation of recommendation of LCA | Measures taken to reduce carbon footprint Installation of solar Panels Reduction of fuel consumption by using well efficient insulation to heating equipment. | Capital 30.00 Lacs Recurring: 3.00 Lacs/yr. | Within 1 year after getting EC | Project team / EHS Team |
| | 9 | Implementation recommendation HA20P/Risk Assessment | Provide flame proof electrical in flammable solvent /gases handling area •Fire hydrant system with fire water runoff collection system •Personnel | Capital: 500.0 Recurring/A: 10.0 | Within 2 Year after obtaining EC/CTE | EHS |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | Protective Equipment (PPE) especially SCBA (Self Contained Breathing Apparatus) | | | |
| | | Any other please specify | | | | |
| | 10 | CER | Provision of check dam, Drinking water facility (Filters & RO system) and toilets for Z.P. Schools, Provision of Garbage compactor/Organic waste converter at different villages | Capital 97.01 Lacs | Within 1 years after obtaining EC | Project team / EHS Team |
| | 11 | Environmental Monitoring Budget | Regular monitoring of Ambient Environmental Conditions & Pollution Control Equipments | Capital:- 16.00Lacs Recurring: 08.6 Lacs/yr. | Existing are in place and for additional during commissioning | EHS Team |
| | 12 | Green Belt | Development and Maintenance. Drip irrigation | Capital:- 37.5 Lacs Recurring: 17 Lacs/yr. | Within 2 years after obtaining EC | EHS Team |
| 40 | Other Relevant Information: (Pl. provide brief note on proposed project) | | | | | |
| | The proposed expansion project will be carried out at Plot No. D-4/1 & D-4/2 at MIDC Kurkumbh, Dist. Pune, on land admeasuring 126427.365 Sq.m; the existing capacity of unit is 83000 TPA after expansion total production capacity will be 231250 TPA. | | | | | |
| 41 | Details of skill development program within Organization | | Continues training programs – internal as well as external trainings. | | | |
| 42 | Details of environmental Monitoring Cell (Pl. provide organogram with educated Qualification and experience) | | Details about Environmental management Cell has been incorporated in EIA report | | | |
| 43 | Details of court cases if pending in any Hon'ble court | | No | | | |

3. The proposal has been considered by SEIAA in its 236th (Day-1) meeting and decided to accord Environment Clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implantation of following terms and conditions-

**Specific Conditions:**

**SEAC Conditions-**

1. PP to submit lay out plan showing internal roads with minimum six meter width and nine meter turning radius, entry/exit gates (preferably sliding gates) , provision of cul-de-sac at dead ends of the internal roads if any, location of pollution control equipment, parking areas, 33% green belt (5 meter wide and preferably along the periphery)with its dimensions, rain water harvesting structures (locations with dimensions), storm water drain lines, along with index and area statement showing calculations for each area and cross sections of storm water drain and rain water harvesting pits etc.
2. PP to provide continuous online monitoring system connected to the servers of MPCB and CPCB.
3. PP has obtained permission from the CETP for discharge of treated effluent.
4. PP to ensure to utilize CER fund before the commissioning of the manufacturing activity in consultation with the District Collector.
5. PP to complete green belt development with the provision of drip irrigation before the commissioning of the manufacturing activity.
6. PP to complete rain water harvesting facility before the commissioning of the manufacturing activity.
7. PP proposes to provide sewage treatment plant for the treatment of domestic sewage. PP to recycle all treated sewage water.
8. PP to provide sliding gate at entry and exit to achieve maximum turning radius of vehicle entering the site.
9. PP to ensure compliance of all recommendations of HAZOP and Risk Assessment.

**SEIAA Conditions**

1. PP submitted MIDC plan approval DE/KUR/PLAN/ E-66939/2021, Dt. 07/12/2021 with 33% green belt. As per the plan Total plot area of the project is 26400 m2 and green belt is 8961.56 m2 (33.94% of total plot area).
2. PP to undertake Miyawaki plantation of native and indigenous trees such as Banyan, Peeple, Neem, Jamun and other suitable trees as per the Forest Department, Govt. of Maharashtra circular no SaVaVi-2019/C.R.3/F-11, dated 25th June, 2019. The said plantation to be completed in the first year of operation of Environmental Clearance under expert guidance of Miyawaki experts / arborist.
3. PP to strictly observe the Solid Waste Management Rules, 2016 as amended time to time.
4. PP to strictly observe the Hazardous and Other Wastes (Management & Trans boundary Movement) Rules, 2016 as amended time to time.

5. PP to identify all sources of fugitive air pollution on site and provide pollution control measures to mitigate pollution and meet the standard parameters stipulated in the Environment (Protection) Rules, 1986 amended time to time & Air (Prevention and Control of Pollution) Act, 1981 amended time to time.
6. PP to ensure storage of chemicals as per the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 amended time to time to ensure no release of any chemical to the atmosphere and leakage to the soil.
7. PP to ensure transport, storage, handling and use of the flammable/toxic chemicals as per conditions stipulated in license/approval of the Petroleum & Explosive Safety Organization (PESO).
8. PP to obtain approval and License from the Directorate of Industrial Health & Safety (DIHS) for proposed project and implement all condition stipulated therein. PP to carry out Safety Audit as stipulated in the Maharashtra Factories Rules, 1963 and ensure compliance of recommendation of the Audit.
9. PP to provide solar energy for illumination of Administrative Building, Street Lights and parking Area.
10. PP to ensure use of briquette /bio coal/ pellets/ or any such suitable product derived from scientific processing of appropriate stream of dry waste/agricultural waste , not less than 50 % of the total fuel requirement to the boiler.
11. PP to provide roof top Rain Water Harvesting facility.

**General Conditions:**

I. The project proponent shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded Environmental Clearance and copies of Environmental Clearance letter are available with the Maharashtra Pollution Control Board, website of the company and may also be seen at Website at http://parivesh.nic.in

II. The project Proponent shall upload the status of compliance (soft copies) of the conditions stipulated Environmental Clearance letter including monitoring data of air, water, soil, noise etc. on their website and shall update the same periodically. The half yearly compliance report shall simultaneously be submitted to the Maharashtra Pollution Controls Board, SEIAA and the Regional Office off MoEF&CC at Nagpur, on 1st June & 1sr December of each calendar year.

III. Separate fund shall be allocated for the implementation of Environmental Management Plan along with item wise break up and specific time line for its completion. The cost shall be included as part of the project cost. The funds earmarked for the environmental protection measures shall not be diverted for other purpose and year-wise expenditure should be reported to the MPCB and the SEIAA.

IV. A separate Environmental Management Cell with qualified personnel shall be set up for implementation of the stipulated environmental safeguards.

V. In the event of failure of any pollution control equipment, the manufacturing activity shall be immediately stopped safely till the effective functioning of pollution control equipment's is regained.

VI. PP to strictly follow conditions stipulated in the Consent to Establish/Operate issued by the Maharashtra Pollution Control Board.

VII. PP to provide separate drains for storm water and effluent, and ensure that, the storm water drains are dry all the time and in no case the effluent shall mix with the storm water drain.

VIII. Periodic Monitoring of ground water in the study area as marked in the Environmental Impact Assessment Report shall be undertaken and results analysed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.

IX. The overall noise levels in and around the factory premises shall be kept within the prescribed standard under the Environment (Protection) Act, 1986 and Rule, 1989 as amended from time to time by providing adequate noise control measures and protective equipment's like ear muff and ear plug etc.

X. Adequate safety measures shall be ensured to limit the risk zone within the factory premises. Leak detection system shall be installed for early detection and mitigation purpose.

XI. PP to scrupulously follow the requirements of Maharashtra Factories Act, 1948 & Rules 1963 as amended from time to time.

XII. The Environmental Statement for each financial year ending on 31st March in Form-V as is mandated to be submitted by the Project Proponent to the concerned Pollution Control Board as prescribed under the Environment (Protection) Rule, 1989 as amended from time to time, it shall also be put on the website of the company along with the status of the compliance of the conditions stipulated in the Environmental Clearance letter.

4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.

5. In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.

6. The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.

7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, amended time to time.

8. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

9. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the

Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

10. Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D-Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

M Rau

Manisha Patankar-Mhaiskar 8/2/2022
(Member Secretary, SEIAA)

Copy to:

1. Chairman, SEIAA (Maharashtra), Mumbai.
2. Secretary, MoEF & CC
3. IA- Division MOEF & CC
4. Member Secretary, Maharashtra Pollution Control Board, Mumbai.
5. Regional Office MoEF & CC, Nagpur
6. District Collector,Pune.
7. Regional Officer, Maharashtra Pollution Control Board, Pune.

Signature Not Verified
Digitally signed by Manisha Patankar Mhaiskar
Member Secretary
Date: 2/10/2022 1:37:00 PM