(ORIGINAL)

# MINUTES OF THE 94th MEETING OF STATE EXPERT APPRAISAL COMMITTEE, (SEAC), TELANGANA STATE HELD ON 18.12.2020, 2.00 P.M.

**MINUTES OF THE 94th MEETING OF STATE EXPERT APPRISAL COMMITTEE (SEAC) HELD ON 18.12.2020 AT TSPCB, PARYAVARAN BHAVAN, A-3, I.E., SANATHNAGAR, HYDERABAD.**

The following members were present:

| S. No. | Name of the Expert | Position |
|---|---|---|
| 1. | Prof.Ch.Krishna Reddy,<br>H.No: 2-2-20/J./7, #401. Golden towers – II,<br>Raja Rajeshwari BI PG, D.D. Colony, Hyderabad<br>Ph: 9866629265 | Chairman. |
| 2. | Shri Ravindra Samaya Mantri<br>H.No: 3-5-44/1. Flat No. 301, Areadia Apartments.<br>Edengaden Road, Hyderabad- 500001.<br>Ph:9491145160 | Member |
| 3. | Shri Suresh,<br>B-106, Vertex prime, Nizampet Road,<br>Kukatpalli. Hyderabad.<br>Ph: 9177037785 | Member |
| 4. | Dr.Vemula Vinod Goud,<br>H.No. 6-156, Sridurga Estates,<br>Deepthisri Nagar, Madinaguda, Hyderabad-500049.<br>Ph:9440386945 | Member |
| 5. | Dr K.Shivakumar,<br>Plot No. 328, Flat No: 302, Mehar Niwas,<br>KPHB 6th phase, Kukatpally, Hyderabad-500072<br>Ph: 9951701067 | Member |
| 6. | Prof.A.Pannsa Reddy,<br>H.No. 1-7-17/5/1, Raghavendra Nagar, Nacharam,<br>Hyderabad-500076.<br>Ph: 9849957268 | Member |
| 7. | Prof.B.Reddya Naik,<br>Department of Zoology, University College of Science,<br>Osmania University, Hyderabad-500007.<br>Ph: 9290491044 | Member |
| 8. | Prof.C.Venkateshwar,<br>Department of Botany,<br>University College of Science, OU, Hyd.<br>Flat No. 117, 'C' Block, Janapria castle,<br>Ramnagar, Vidyanagar – Hyderabad<br>Ph:9440487742 & 8096754604 | Member |

After general introductory remarks by the Chairman, SEAC, the Committee took up items agenda-wise. The decisions of the SEAC on each case are recorded below.

## Minutes of the SEAC Meeting held on 18.12.2020

## DECLARATION

It is hereby declared that the Chairman and members of SEAC, T.S., do not have conflict of interest with any project proponent pertaining to the items discussed in the SEAC meeting held on 18.12.2020.

| S. No. | Name of the Expert | Signature |
|---|---|---|
| 1. | Prof.Ch.Krishna Reddy | Sd/- |
| 2. | Shri Ravindra Samaya Mantri | Sd/- |
| 3. | Shri Suresh | Sd/- |
| 4. | Dr Vemula Vinod Goud | Sd/- |
| 5. | Dr.K.Shivakumar. | Sd/- |
| 6. | Prof.A.Panasa Reddy | Sd/- |
| 7. | Prof.B.Reddya Naik | Sd/- |
| 8. | Prof.C.Venkateshwar | Sd/- |

| Agenda Item No. 01 | M/s. Accrete Pharmaceuticals Private Limited., Sy.No.706AA & 707/AA, Thangadpally (V), Choutuppal (M), Yadadri Bhuvanagiri District - Environmental Clearance (Expansion) - Reg. |
|---|---|
| Proposal No. | SIA/TG/IND2/170797/2020 (EC) |

The representative of the project proponent Sri D.N. Mohan Reddy; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad, attended and made a presentation before the SEAC.

The SEAC noted that proponent obtained CFE on 27.12.2004 for manufacture of Bulk Drug Intermediates.

CFO issued on 04.12.2017 from TSPCB and the unit is operating.

The prpoponent submitted Self-compliance Report for conditions stipulated in CFO.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EPS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019, of the EPS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt. 18.12.2020 and considered the project under B2 Category

The SEAC noted the contents of the EMP report and noted the details of the project after proposed Expansion as follows:

Total area is 6.85 acres, out of which Green area is 2.35 acres (34.3%).

Nearest human habitation is Koyalagudem (V) @ 1.19 km. Nearest water is Tangallapalli cheruvu @ 1.92 km; Nearest RF is Choutuppal @ 2.1 km.

Project Cost for proposed expansion is Rs. 8.0 Crores. Budget for Environmental protection towards Capital Cost is Rs. 4.97 crores while recurring costs for is Rs. 4.65 crores/year. Budget for CER is Rs.8.0 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

**Manufacturing Capacity– After Expansion**

| S. No | Name of the Product | Capacity | |
|---|---|---|---|
| | | Kg/day | TPM |
| 1 | Capecitabine | 200 | 6 |
| 2 | Gemcitabine Hydrochloride | 40 | 1.2 |
| 3 | Imatinib mesylate | 100 | 3 |
| 4 | Pemetrexed disodium | 50 | 1.5 |
| 5 | Nilotinib | 50 | 1.5 |
| 6 | Ibrutinib | 33.3 | 1 |
| 7 | Afatinib | 40 | 1.2 |
| 8 | Lapatinib | 33.3 | 1 |
| 9 | Lenalidomide | 33.3 | 1 |
| 10 | Dasatinib | 33.3 | 1 |
| 11 | Sunitinib | 33.3 | 1 |
| 12 | Acyclovir | 533.3 | 16 |
| 13 | Dolutegravir | 200 | 6 |
| 14 | Fingolimod | 33.3 | 1 |
| 15 | Lopinavir | 166.7 | 5 |
| 16 | Oseltamivir | 333.3 | 10 |
| 17 | Ritonavir | 333.3 | 10 |
| 18 | OTBN | 666.7 | 20 |
| 19 | Vildagliptin | 1333.3 | 40 |
| 20 | Validation Products | 100 | 3 |
| **Total Production (Worst case scenario: 8 Products)** | | **3766.6** | **113** |

CHAIRMAN, SEAC

**Details of Utilities, Stacks & Air pollution control equipment's after expansion:**

| S.No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Boilers:**<br>Existing: 1 x 2 TPHCoal Fired Boiler.<br>(will be kept as standby after expansion)<br>Proposed: 1 x 8 TPH Coal fired Boiler | 30m<br><br>30m | Bag Filter<br><br>Bag Filter |
| 2 | **DG Sets:**<br>Existing: 1 x 125 kVA,<br>Proposed: 1 x1020 kVA, 1 x 500 | Adequate height | Acoustic enclosure |
| 3 | **Thermic Fluid Heaters**<br>Existing: Nil<br>Proposed 1 x 4 Lac , k.cal | 30 | -- |

The process emissions contain Ammonia is sent to scrubber. The resultant solutions after scrubbing i.e., ammonium chloride from ammonia is sent to ETP. Nitrogen, carbon dioxide and oxygen are let out into atmosphere following a standard operating procedure. Hydrogen is let into the atmosphere through water column.

**Details of Water requirement after expansion:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 55.53 | -- | 55.53 |
| 2 | Washings | 2.5 | -- | 2.5 |
| 3 | Scrubber | 2 | -- | 2 |
| 4 | Boiler | 80 | -- | 80 |
| 5 | Cooling Towers | 90 | 75 | 165 |
| 6 | RO/DM Plant | 3.5 | -- | 3.5 |
| 7 | Domestic | 12 | -- | 12 |
| 8 | Gardening | 30 | -- | 30 |
| | **Total water requirement** | 275.53 | 75 | 350.53 |

**Details of Effluent generation, treatment & disposal after expansion:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment & Disposal |
|---|---|---|---|---|---|
| 1 | Process | 61.47 | -- | 61.47 | Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD **LTDS**: Biological ETP & RO.<br><br>Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers. |
| 2 | Washings | 2.5 | -- | 2.5 | |
| 3 | Scrubber Effluent | 2 | -- | 2 | |
| 4 | RO/DM Plant Rejects | 3.5 | -- | 3.5 | |
| 5 | Boiler Blow downs | -- | 2.5 | 2.5 | |
| 6 | Cooling tower Blow downs | -- | 3.5 | 3.5 | |
| 7 | Domestic | -- | 10 | 30 | |
| **Total effluent Quantity** | | **69.47** | **16** | **85.47** | |

**Details of Solid Waste after expansion:**

| S. No | Description | Quantity | Mode of Disposal |
|---|---|---|---|
| 1 | Process Organic residue | 7 TPD | Sent to cement plants for co-incineration/TSDF, Dundigal |
| 2 | Solvent residue | 1.8 TPD | |
| 3 | Spent Carbon/Hyflow | 0.48 TPD | |
| 4 | Inorganic Residue | 4.63 TPD | |
| 5 | Evaporation Salts | 6.15 TPD | Sent to TSDF, Dundigal |
| 6 | ETP Sludge | 1.74 TPD | |



CHAIRMAN, SEAC

| | | | |
|---|---|---|---|
| 7 | Boiler Ash | 0.03 TPD | Sent to brick manufacturers |
| 8 | a) Detoxified Container / Liners drums<br>b) HDPE Carboys/ Drums | 150 No. /month | Disposed to TSPCB Authorized agencies after complete detoxification |
| 9 | PP Bags | 4 Kg/Month | Sent to authorized agencies after detoxification |
| 10 | Spent Solvents | 127.1 KLD | Recovered within plant premises and reused |
| 11 | Spent Mixed solvents | 14.1 KLD | Authorized recyclers |
| 12 | Stripper Distillate | 6.3 KLD | Sent to cement plants for co-incineration/TSDF, Dundigal |
| 13 | Waste oils & Grease | 2.5 KL/Year | Sent to authorized agencies |
| 14 | Used Lead acid Batteries | 25 Nos/Year | Sent to suppliers on buy back basis |
| 15 | E waste | 0.1 TPA | Sent to authorized agencies |
| 16 | Paper waste. & Misc. | 0.01 TPM | Sent to scrap vendors |
| 17 | Contaminated cotton waste | 0.2 TPM | Sent to authorized agencies |
| 18 | Contaminated filter cloth | 0.3 TPM | |

The SEAC observed that the proponent is proposing expansion of the project from 8.75 TPM to 115 TPM, which becomes more than 50% of the permitted production capacity. Hence, the SEAC decided to constitute a sub-committee with the following members to inspect the unit, verify records and submit report on the following:

i) Project modification
ii) Project cost
iii) ZLD System & its adequacy
iv) ETP modifications
v) Products. Comparison of existing and proposed (which are going for expansion)
vi) Verify Production details w.r.t. permitted for the past one year, as per ER-I/GST.
vii) Raw material: Comparison of existing and proposed (which are going for expansion)
viii) Solid waste: Comparison of existing and proposed (which are going for expansion)
ix) Impact on surroundings
x) Applicability of S.O.804 (E), dt.14.03.2017 & S.O. 1030 (E) dt.08.03.2018 issued by the MoEF&CC, GoI.
xi) Implementation of disaster management plan and safety measures in the existing project and proposed expansion.
xii) Greenbelt development
xiii) Justification of project w.r.t. G.O Ms. No. 95, dt. 21.09.2007; G.O.Ms. No. 64, dt. 25.07.2013; & G.O.Ms. No. 24, dt.24.04.2019.

Members of Sub-Committee:
1. Sri Sivakumar
2. Sri Krishna Reddy

| | |
|---|---|
| **Agenda Item No. 02** | **M/s. Dashu Pharmaceuticals Pvt. Ltd. Sy. No. s 40/B, E1 to E3, E4 & E5, Chinna Chinthakunta (V), Narsapur (M), Medak District - Environmental Clearance - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/171012/2020 (EC)** |

The representative of the project proponent Sri P. Shankar; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad, attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for established of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019, of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt. 18.12.2020 and considered the project under B2 Category.

CHAIRMAN, SEAC

The SEAC noted the contents of the EMP report and noted the details of the project as follows.

Total area is 7.44 acres, out of which Green area is 2.5 acres (33.6%).

Nearest human habitation is Chinachintakunta (V) @ 0.7 km; Nearest water body is Chintakunta cheruvu @1.4 km; Nearest RF is Chintakunta @ 0.18 km from the industry.

Project Cost is Rs.45.0 Crores. Budget for Environmental protection towards Capital Cost is Rs 10.33 crores and Recurring Cost is Rs.12.69 crores. Budget for CER is Rs.90 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following

**Manufacturing Capacity**

| S. No | Name of Product | Quantity | |
|---|---|---|---|
| | | Kg/Day | TPM |
| 1 | Losartan Potassium | 500 | 15 |
| 2 | Telmisartan | 500 | 15 |
| 3 | Norfloxacin | 500 | 15 |
| 4 | Ofloxacin | 300 | 9 |
| 5 | Levofloxacin | 300 | 9 |
| 6 | Ritonavir | 200 | 6 |
| 7 | Levetiracetam | 250 | 7.5 |
| 8 | Carbamazepine | 200 | 6 |
| 9 | Valsartan | 500 | 15 |
| 10 | Olmesartan | 500 | 15 |
| 11 | Atorvastin Calcium | 500 | 15 |
| 12 | Acyclovir | 500 | 15 |
| 13 | Lopinavir | 500 | 15 |
| 14 | Abacavir Sulphate | 25 | 0.8 |
| 15 | Clopidogrel Bisulphate | 115 | 3.5 |
| 16 | Cyclobenzaprine HCl | 100 | 3 |
| 17 | Donepezil HCl | 42 | 1.26 |
| 18 | Domperidone | 600 | 18 |
| 19 | Loratadine | 400 | 12 |
| 20 | Itraconazole | 100 | 3 |
| 21 | Gabapentin | 1000 | 30 |
| 22 | 2-(1-(2-amino-2-oxoethyl) cyclohexyl) acetic acid | 2000 | 60 |
| 23 | Pregabalin | 200 | 6 |
| 24 | Quetiapine Hemifumarate | 300 | 9 |
| 25 | Irbesartan | 200 | 6 |
| 26 | Citalopram HBr | 50 | 1.5 |
| 27 | Celecoxib | 100 | 3 |
| 28 | Sertraline Hydrochloride | 250 | 7.5 |
| 29 | Nevirapine | 150 | 4.5 |
| 30 | Darunavir | 20 | 0.6 |
| 31 | Efavirenz | 300 | 9 |
| 32 | Remdesivir | 100 | 3 |
| 33 | Hydroxy Chloroquine Sulfate | 80 | 2.4 |
| 34 | Escitalopram Oxalate | 600 | 18 |
| 35 | Lamotrigine | 200 | 6 |
| 36 | Enalapril maleate | 500 | 15 |
| 37 | Ciprofloxacin | 2000 | 60 |
| 38 | Dasatinib | 20 | 0.6 |
| 39 | Imatinib Mesylate | 100 | 3 |
| 40 | Gemcitabine HCl | 50 | 1.5 |
| 41 | Labetalol | 500 | 15 |
| 42 | Ticagrelor | 500 | 15 |
| 43 | Amoxicillin | 33 | 1 |
| 44 | Azithromycin | 33 | 1 |



CHAIRMAN, SEAC

| S. No | Name of Product | Quantity | |
|---|---|---|---|
| | | Kg/Day | TPM |
| 45 | Ceftriaxone | 75 | 2.3 |
| 46 | Cefixime | 500 | 15 |
| 47 | Cefalexine | 500 | 15 |
| 48 | Metformin Hcl | 500 | 15 |
| 49 | Clindamycin Palmiate HCl | 170 | 5.1 |
| 50 | Meropenem intermediate | 500 | 15.0 |
| 51 | Paracetamol | 500 | 15 |
| 52 | 11-Piperazino Dibenzo [b,f] [1,4] Thiazepine Hydrochloride | 250 | 7.5 |
| 53 | 2-[[[4-(3-methoxy propoxy)-3-methyl-2-pyridinyl] methyl] thio]-1H-benzimidazole | 400 | 12 |
| 54 | 2-[[[3-methyl-4-(2,2,2-trifluoro ethoxy)-2-pyridanyl]methyl] sulfanyl]-1H-benzimidazole | 400 | 12 |
| 55 | 2-[[3-Methyl-4-(nitro)-2-pyridinyl]methyl]sulfanyl]-1H-benzimidazole | 25 | 0.8 |
| 56 | 2-[[(3,5-Dimethyl-4-methoxy-2-pyridinyl)-methyl]thio]-5-methoxy-1H-benzimidazole | 100 | 3 |
| 57 | Aspirin | 1500 | 45 |
| 58 | Oxcarbazepine | 250 | 7.5 |
| 59 | Clarythromycine | 200 | 6 |
| 60 | R&D and Validation Products | 2 | 0.06 |
| | **Total -Worst Case 10 Products** | **9700** | **291** |

**List of By-Products**

| S. No | Name of Product | Stage | Name of By Product | Quantity (Kg/day) |
|---|---|---|---|---|
| 1 | Acyclovir | I | Acetic acid | 416.3 |
| | | II | Acetic anhydride | 299.5 |
| 2 | Quetiapine Hemifumarate | III | Phosphoric acid (20%) | 6271 |
| 3 | Hydroxy Chloroquine Sulfate | I | Phosphoric acid | 54 |
| 4 | Amoxicillin | III | Trimethylsilanol | 8.1 |
| | | | Methyl acetoacetate | 10.5 |
| | | | Pivalic acid | 9.2 |
| 5 | Cefixime | I | Tri phenyl phosphine oxide | 336 |
| | | II | Phenyl Acetic Acid | 140.6 |
| | | III | 2-mercapto benzothiazole | 184.3 |
| 6 | Cefalexine | III | Ethyl aceto acetate | 168.6 |
| | | | Pivalic acid | 147.7 |
| 7 | Paracetamol | I | Acetic acid | 223.2 |
| 8 | 11-Piperazino Dibenzo [b, f] [1, 4] Thiazepine. Hydrochloride | IV | Piperazine.HCl | 92.4 |
| | | III | Polyphosphoric acid | 500 |
| 9 | 2- [[[4-(3-methoxy propoxy)-3-methyl-2-pyridinyl] methyl] thio]-1H-benzimidazole | II | Sodium Acetate | 114.3 |
| | | | Spent Acetic Acid | 83.7 |
| 10 | 2-[[[3-methyl-4-(2,2,2-trifluoro ethoxy)-2-pyridinyl] methyl] sulfanyl]-1H-benzimidazole | I | Spent Acetic Acid | 300 |
| | | | Sodium Acetate | 121 |
| 11 | 2-[[(3,5-Dimethyl-4-methoxy-2-pyridinyl)-methyl]thio]-5-methoxy-1H-benzimidazole | I | Ammonium persulphate<br>Dimethyl sulphate salt | 155.9 |

**Details of Utilities, Stacks & Air pollution control equipment's:**

| S.No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Boilers:**<br>Proposed: 1 x 10 TPH & 2 x 5 TPH | 30 m | Bag filters |
| 2 | **DG Sets:**<br>Proposed: 1 x 1010 kVA and 2 x 500 kVA | Adequate height | Acoustic enclosure |
| 3 | **Thermic Fluid Heater**<br>Proposed: 2 x 2 Lakh K.cal/hr | 30 m | -- |

CHAIRMAN, SEAC

Process emissions contains Ammonia, hydrogen, hydrogen chloride, hydrogen bromide and sulphur dioxide are sent to scrubber in series. Sodium chloride from hydrogen chloride, sodium bromide from hydrogen bromide, ammonium chloride from ammonia, sodium bisulfite from sulfur dioxide scrubbing sent to ETP. Carbon dioxide, oxygen and nitrogen gases are let out into atmosphere following a standard operating procedure, while hydrogen gas is let out into atmosphere through a water column.

**Details of Water requirement:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 154 | | 154 |
| 2 | Washings | 8 | | 8 |
| 3 | Scrubber | 5 | | 5 |
| 4 | Boiler Feed | 70 | 45 | 115 |
| 5 | Cooling Tower | 120 | 225 | 345 |
| 6 | RO/DM Rejects | 25 | | 25 |
| 7 | Domestic | 10 | | 10 |
| 8 | Gardening | 10 | | 10 |
| | **Total water requirement** | **402** | **270** | **672** |

**Details of Effluent generation, treatment & disposal:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment & Disposal |
|---|---|---|---|---|---|
| 1 | Process | 165.5 | | 165.5 | Zero Liquid Discharge System ie., **HTDS**: Stripper MEE & ATFD **LTDS**: Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers |
| 2 | Washings | 8 | | 8 | |
| 3 | Scrubber Effluent | 5 | | 5 | |
| 4 | RO/DM Plant Rejects | 25 | | 25 | |
| 5 | Boiler Blow downs | | 12 | 12 | |
| 6 | Cooling tower Blow downs | | 62 | 62 | |
| 7 | Domestic | | 9 | 9 | |
| **Total effluent Quantity** | | **203.5** | **83** | **286.5** | |

**Details of Solid Waste:**

| S. No | Description | Quantity | Mode of Disposal |
|---|---|---|---|
| 1 | Process Organic residue | 11.2 TPD | Sent to cement plants for co-incineration/TSDF Dundigal. |
| 2 | Solvent residue | 5.2 TPD | |
| 3 | Spent Carbon | 524 Kg/day | |
| 4 | Dryflow | 168.3 Kg/day | Sent to TSDF |
| 5 | Evaporation Salts | 10.7 TPD | |
| 6 | Catalyst | 188.2 Kg/day | |
| 7 | Inorganic Residue | 865.5 Kg/day | |
| 8 | ETP Sludge | 3.3 TPD | |
| 9 | Boiler Ash | 3.55 TPD | Sent to brick manufacturers |
| 10 | Spent Solvents | 161.8 KLD | Recovered within plant premises and reused. |
| 11 | Spent Mixed solvents | 40.4 KLD | Sent to Authorized recyclers |
| 12 | Stripper Distillate | 4.7 KLD | Sent to cement plants for co-incineration/TSDF, Dundigal |
| 13 | Waste oils & Grease | 5 KL/PA | Sent to authorized agencies |
| 14 | Used Lead acid Batteries | 35 Nos/Year | Sent to suppliers on buy back basis |
| 15 | Bio medical waste | 6 Kg/Month | Sent to authorized common biomedical treatment facility |
| 16 | Detoxified containers & bags | 900 Nos / Month | Sent to authorized recyclers |
| 17 | Used PPE | 20 Kgs/ Month | Sent to authorized vendor |

CHAIRMAN, SEAC

| S. No | Description | Quantity | Mode of Disposal |
|---|---|---|---|
| 18 | E- Waste | 0.2 TPA | Authorized recyclers |
| 19 | Plastic Waste | 0.1 TPA | Authorized recyclers |
| 20 | Metal Scrap | 10 TPM | Sale to outside agencies/ recyclers |
| 21 | Used Filters (HEPA filters, Oil Filters) | 85 Nos /year | Sent to TSDF |
| 22 | Used / Discarded RO Membranes | 0.2 TPA | |

After detail discussions, the SEAC recommended the project for issue of EC.

| Agenda Item No. 03 | M/s. S.R. Laboratories Pvt. Ltd., Sy. No. 180, Jaikesaram (V), Choutuppal (M), Yadadri Bhuvanagiri District - Environmental Clearance (Expansion) - Reg. |
|---|---|
| Proposal No. | SIA/TG/IND2/171422/2020 (EC) |

The representative of the project proponent Sri K. Suryanarayana, and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad, attended and made a presentation before the SEAC.

The SEAC noted that proponent obtained CFE on 14.02.2006 for manufacture of Bulk Drug Intermediates.

CFO issued on 25.11.2020 from TSPCB and the unit is operating.

The proponent submitted Self-compliance Report for conditions stipulated in CFO.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019, of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt. 18.12.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project after proposed expansion as follows:

Total area is 6.0 acres, out of which Green area is 1.98 acres (33%).

Nearest human habitation is Jaikesaram (V) @ 1.27 km; Nearest water is Ramasamudram cheruvu @ 0.85 km; Nearest RF is Choutuppal @. 9.2 km.

Project Cost for proposed expansion is Rs.6.0 Crores. Budget for Environmental protection towards Capital Cost is Rs. 2.64 crores while recurring costs for is Rs. 3.49 crores/year. Budget for CER is Rs.6.0 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

**Manufacturing Capacity– After Expansion**

| S. No. | Name of the Product | Capacity | |
|---|---|---|---|
| | | Kg/Day | TPM |
| 1 | 3,5-Dimethyl-4-nitropyridine N-oxide (Omeprazole Nitro) | 1333.33 | 40.0 |
| 2 | 3,5-dimethyl-4-methoxy-2-hydroxy methylpyridine (Omeprazole hydroxy) | 166.67 | 5.0 |
| 3 | 2-Chloromethyl-3,5-dimethyl-4-methoxy pyridine hydrochloride (Omeprazole Chloro) | 166.67 | 5.0 |
| 4 | 5-Methoxy-2-[[(3,5-dimethyl-4-methoxy-2-pyridinyl) methyl] thio]-1H-benzimidazole (Omeprazole Sulfide) | 333.33 | 10.0 |
| 5 | Omeprazole (Pharma) | 166.67 | 5.0 |
| 6 | 2,3-Dimethyl-4-Nitropyridine-N-Oxide (Lansoprazole Nitro) | 333.33 | 10.0 |
| 7 | 2-Hydroxymethyl-3-Methyl-4-(2,2,2-trifluoroethoxy) pyridine hydrochloride (Lansoprazole hydroxy) | 166.67 | 5.0 |



CHAIRMAN, SEAC

| S. No. | Name of the Product | Capacity | |
|---|---|---|---|
| | | Kg/Day | TPM |
| 8 | 2-[3-Methyl-4-(2,2,2-trifluoroethoxy)-2-pyridinyl] methylthio-1H-benzimidazole (Lansoprazole Sulfide) | 166.67 | 5.0 |
| 9 | Lansoprazole (Pharma) | 66.67 | 2.0 |
| 10 | 4-Amino-1-Methyl-3-propyl pyrazole-5-Carboxamide (Sildenafil amide) | 333.33 | 10.0 |
| 11 | Sildenafil base | 166.67 | 5.0 |
| 12 | Sildenafil citrate | 166.67 | 5.0 |
| 13 | 2-(Chloromethyl)-3,4-dimethoxypyridine hydrochloride (Pantoprazole chloro intermediate) | 166.67 | 5.0 |
| 14 | 5-(Difluoro methoxy)-2-[[(3,4-dimethoxy-2-pyridyl) methyl] thio] benzimidazole (Pantoprazole Sulfide) | 333.33 | 10.0 |
| 15 | 5-(Difluoro methoxy)-2-mercapto-1H-benzimidazole (Pantoprazole benzimidazole) | 333.33 | 10.0 |
| 16 | Pantoprazole Sodium | 166.67 | 5.0 |
| 17 | Losartan Potassium | 100.0 | 3.0 |
| 18 | Domperidone | 100.0 | 3.0 |
| 19 | Famotidine | 66.67 | 2.0 |
| 20 | Lamivudine | 100.0 | 3.0 |
| 21 | Levetiracetam | 100.0 | 3.0 |
| 22 | Olmesartan | 50.0 | 1.5 |
| 23 | 4-(3,4-dichlorophenyl)-3,4- dihydro-1(2H) -naphthalenone (Tetralone) | 166.67 | 5.0 |
| 24 | Cis bromobenzoate | 120.0 | 3.6 |
| | **Total (Worst Case 6 Products)** | **3000** | **90** |

**List of By-Products after Expansion**

| S. No | Name of the Product | Name of the By-Product | Capacity | |
|---|---|---|---|---|
| | | | Kg/Day | TPM |
| 1 | Omeprazole Nitro | Spent Acetic Acid | 1200 | 0.04 |
| | | Ammonium sulphate | 1514.7 | 0.04 |
| 2 | Lansoprazole Nitro | Spent Acid | 766.7 | 0.03 |
| 3 | Lansoprazole Sulfide | Spent Acid | 268.3 | 0.008 |
| 4 | Sildenafil amide | Spent Sulfuric acid | 114 | 0.004 |
| 5 | Sildenafil base | Spent Hydrochloric acid | 162.3 | 0.005 |
| 6 | Sildenafil citrate | Spent Hydrochloric acid | 137 | 0.005 |
| 7 | PS Benzimidazole | Spent Nitric acid | 774 | 0.03 |

**Details of Utilities, Stacks & Air pollution control equipment's after expansion:**

| S.No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Boilers:**<br>Existing: 1 x 2 TPH Coal Fired Boiler,<br>Proposed: 1 x 3TPH Coal fired Boiler | 20m<br>30m | Bag Filter<br>Bag Filter |
| 2 | **DG Sets:**<br>Existing: 1 x 380kVA.<br>Proposed. 1 x500 kVA | Adequate height | Acoustic enclosure |
| 3 | **Thermic Fluid Heaters**<br>Existing: Nil<br>Proposed 1 x 2Lac. k.cal | 30 | Effective stack height |

The process emissions Ammonia, hydrogen chloride and Sulfur dioxide are sent to scrubber in series. The resultant solutions after scrubbing i.e., ammonium chloride from ammonia, sodium chloride from hydrogen chloride and sodium sulphate from sulphur dioxide scrubbing are sent to ETP. Oxygen and carbon dioxide are let out into atmosphere following a standard operating procedure. Hydrogen is let into the atmosphere through water column.

CHAIRMAN, SEAC

**Details of Water requirement after expansion:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 30.7 | | 30.7 |
| 2 | Washings | 5 | | 5 |
| 3 | Scrubber | 4 | | 4 |
| 4 | Boiler Feed | 24 | 10 | 34 |
| 5 | Cooling Tower | 23 | 50 | 73 |
| 6 | QC / R&D | 3 | | 3 |
| 7 | RO/DM Rejects | 5 | | 5 |
| 8 | Domestic | 6 | | 6 |
| 9 | Gardening | 18 | | 18 |
| | **Total water requirement** | **118.7** | **60** | **178.7** |

**Details of Effluent generation, treatment & disposal after expansion:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment & Disposal |
|---|---|---|---|---|---|
| 1 | Process | 42.03 | | 42.03 | Zero Liquid Discharge System ie., **HTDS:** Stripper, MEE & ATFD. **LTDS:** Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers. |
| 2 | Washings | 5 | | 5 | |
| 3 | Scrubber Effluent | 4 | | 4 | |
| 4 | RO/DM Plant Rejects | 5 | | 5 | |
| 5 | QC and R&D | | 3 | 3 | |
| 6 | Boiler Blow downs | | 3 | 3 | |
| 7 | Cooling tower Blow downs | | 13 | 13 | |
| 8 | Domestic | | 5 | 5 | |
| **Total effluent Quantity** | | **56.03** | **24** | **80.03** | |

**Details of Solid Waste**

| S. No | Description | Quantity | Mode of Disposal |
|---|---|---|---|
| 1 | Process Organic residue | 1.12 TPD | Sent to cement plants for co-incineration/TSDF |
| 2 | Solvent residue | 0.11 TPD | |
| 3 | Spent Carbon/Ityflow | 146.5 Kg/day | |
| 4 | Inorganic Residue | 0.12 TPD | Sent to TSDF, Dundigal |
| 5 | Evaporation Salts | 7.7 TPD | |
| 6 | ETP Sludge | 0.6 TPD | |
| 9 | Boiler Ash | 7.7 TPD | Sent to brick manufacturers |
| 10 | a) Detoxified Container / Liners drums<br>b) HDPE Carboys/ Drums | 200 Nos/month | Disposed to TSPCB Authorized agencies after complete detoxification |
| 11 | PP Bags | 100 Kg/Month | Sent to authorized agencies after detoxification |
| 12 | Spent Solvents | 30.7 KLD | Recovered within plant premises orsent to TSDF, Dundigal |
| 13 | Spent Mixed solvents | 3.4 KLD | Authorized recyclers |
| 14 | Stripper Distillate | 300 KLD | Sent to cement plants for co-incineration/TSDF |
| 15 | Waste oils & Grease | 0.5 KL/year | Sent to authorized agencies |
| 16 | Used Lead acid Batteries | 5 Nos/Year | Sent to suppliers on buy back basis |
| 17 | E waste | 0.02 TPA | Sent to authorized agencies |
| 18 | Paper waste, & Misc. | 10 TPM | Sent to scrap vendors |
| 19 | Contaminated & Container Liners | 400 Nos/Month | Sent to authorized agencies |
| 20 | Contaminated filter cloth | 1 TPM | |

CHAIRMAN, SEAC

The SEAC observed that the proponent is proposing expansion of the project from 18.6 TPM to 90.0 TPM, which becomes more than 50% of the permitted production capacity. Hence, the SEAC decided to constitute a sub-committee with the following members to inspect the unit, verify records and submit report on the following:

i) Project modification
ii) Project cost
iii) ZLD System & its adequacy
iv) ETP modifications
v) Products: Comparison of existing and proposed (which are going for expansion)
vi) Verify Production details w.r.t. permitted for the past one year, as per ER-I/GST.
vii) Raw material: Comparison of existing and proposed (which are going for expansion)
viii) Solid waste: Comparison of existing and proposed (which are going for expansion)
ix) Impact on surroundings
x) Applicability of S.O.804 (E), dt.14.03.2017 & S.O. 1030 (E) dt.08.03.2018 issued by the MoEF&CC, GoI.
xi) Implementation of disaster management plan and safety measures in the existing project and proposed expansion.
xii) Greenbelt development
xiii) Justification of project w.r.t. G.O.Ms. No. 95, dt. 21.09.2007; G.O.Ms. No. 64, dt. 25.07.2013; & G.O.Ms. No. 24, dt.24.04.2019.

Members of Sub-Committee:
1. Sri Sivakumar
2. Sri Krishna Reddy.

| | |
|---|---|
| **Agenda Item No. 04** | **M/s. Srihaas Lifesciences Pvt. Ltd., Plot. No151/A, 151/A1/1, 151/A/1/1/2, Bijilipur (V), Shivampet (M), Medak District - Environmental Clearance - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/171927/2020 (EC)** |

The representative of the project proponent Sri M.S.K. Raju; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad, attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for established of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019, of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt. 18.12.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 2.02 acres, out of which Green area is 0.834 acres (41.28%).

Nearest human habitation is Bijilipur (V) @ 0.95 km; Nearest water body is Babucheruvu @ 7.86 km; Nearest RF is Bijilipur @ 1.67 km from the industry.

Project Cost is Rs.6.5 crores. Budget for Environmental protection towards Capital Cost is Rs.1.70 crores and Recurring Cost is Rs.1.7 crores. Budget for CER is Rs.13 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

**Manufacturing Capacity**

| S.No | Product Name | Capacity | |
|---|---|---|---|
| | | TPM | Kg/day |
| 1 | 1-Bromo-2-pentyne | 2 | 66.7 |
| 2 | 1-Bromo-2-butyn | 2.5 | 83.3 |



CHAIRMAN, SEAC

| | | | |
|---|---|---|---|
| 3 | 1-Hexyne | 6 | 200 |
| 4 | 1-Heptane | 12 | 400 |
| 5 | 2-Butyne-1-ol | 4 | 133.3 |
| 6 | 2-pentyne-1-ol | 6 | 200 |
| 7 | 3-Octyne-1-ol | 5 | 166.7 |
| 8 | 4-pentyn-1-ol | 3 | 100 |
| 9 | 7-Octyne-1-ol | 6 | 200 |
| 10 | Linagliptin | 12 | 400 |
| 11 | Sitagliptin Phosphate Monohydrate | 15 | 500 |
| 12 | Temazolamide | 7.2 | 240 |
| 13 | Vildagliptin | 20 | 666.7 |
| 14 | Validation Products | 3 | 100 |
| | Total (Worst Case 6 Products on Campaign Basis) | 72.2 | 2406.7 |

**Details of Utilities, Stacks & Air pollution control equipment's:**

| S.No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Boilers:**<br>Proposed: 1 x 5 TPH<br>1 x 3 TPH (standby) | 30 m<br>30 m | Bag filter<br>Bag filter |
| 2 | **DG Sets:**<br>Proposed: 1 x 250 kVA and 1 x 520 kVA | Adequate height | Accoustic enclosure |
| 3 | **Thermic Fluid Heater**<br>Proposed: 1 x 2 Lakh K.cal/hr | 30 m | --- |

The process emissions containing Carbon dioxide and oxygen are let out into atmosphere following a standard operating procedure. Hydrogen is let out into atmosphere safely through water column.

**Details of Water requirement:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 21.48 | | 21.48 |
| 2 | Washings | 2 | | 2 |
| 3 | Scrubber | 1.5 | | 1.5 |
| 4 | Boiler Feed | 50 | | 50 |
| 5 | Cooling Tower | 40 | 35 | 75 |
| 6 | RO/DM Rejects | 3.5 | | 3.5 |
| 7 | Domestic | 6 | | 6 |
| 8 | Gardening | 12 | | 12 |
| | **Total water requirement** | **136.48** | **35** | **171.48** |

**Details of Effluent generation, treatment & disposal:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment & Disposal |
|---|---|---|---|---|---|
| 1 | Process | 22.12 | | 22.12 | Zero Liquid Discharge System ie.. **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO.<br><br>Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers. |
| 2 | Washings | 2.0 | | 2.0 | |
| 3 | Scrubber Effluent | 1.5 | | 1.5 | |
| 4 | RO/DM Plant Rejects | 3.5 | | 3.5 | |
| 5 | Boiler Blow downs | | 2.5 | 2.5 | |
| 6 | Cooling tower Blow downs | | 3.0 | 3.0 | |
| 7 | Domestic | | 5.0 | 5.0 | |
| **Total effluent Quantity** | | **29.12** | **10.5** | **39.62** | |

CHAIRMAN, SEAC

**Details of Solid Waste:**

| S. No | Description | Quantity | Mode of Disposal |
|---|---|---|---|
| 1 | Process Organic residue | 1.43 PD | Sent to cement plants for co-incineration/TSDF |
| 2 | Solvent residue | 0.597 TPD | |
| 3 | Spent Carbon | 0.24 TPD | |
| 4 | Inorganic Residue | 0.64 TPD | Sent to TSDF |
| 5 | Evaporation Salts | 3.45 TPD | Sent to TSDF |
| 6 | ETP Sludge | 0.1 TPD | Sent to TSDF |
| 7 | Boiler Ash | 7.68 TPD | Sent to brick manufacturers |
| 8 | a) Detoxified Container / Liners drums<br>b) HDPE Carboys/ Drums | 200 No. s/month | Disposed to TSPCB Authorized agencies after complete detoxification |
| 9 | Spent Solvents | 47.2 KLD | Recovered within plant premises and reused |
| 10 | Spent Mixed solvents | 5.2 KLD | Authorized recyclers |
| 11 | Stripper Distillate | 0.73 KLd | Sent to cement plants for co-incineration/TSDF |
| 12 | Waste oils & Grease | 200 Kl/year | Sent to authorized agencies |
| 13 | Used Lead acid Batteries | 4 Nos/year | Sent to suppliers on buy back basis |

After detail discussions, the SEAC recommended the project for issue of EC

| | |
|---|---|
| **Agenda Item No. 05** | **M/s. Velsparkx Labs Pvt. Ltd., Sy. No.s. 503/a/1, 503/a/1, 503/a 1/1, 506/a 2/3, D.Nagaram (V), Koyyalagudem Gram Panchayat, Choutuppal (M), Yadadri Bhuvanagiri District - Environmental Clearance - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/171992/2020 (EC)** |

The representative of the project proponent Sri V. Sree Rama Krishna; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad, attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for established of API manufacturing unit

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019 of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 6.12 acres, out of which Green area is 2.5 acres (40.8%).

Nearest human habitation is Koyyalagudem (V) @ 0.85 km; Nearest water body is Tangallapalli cheruvu @1.6 km; Nearest RF is Lakkaram @ 1.52 km from the industry

Project Cost is Rs.20.0 Crores. Budget for Environmental protection towards Capital Cost is Rs.7.96 crores and Recurring Cost is Rs.8.02 crores. Budget for CER is Rs.52 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

**Manufacturing Capacity**

| S. No | Name of Product | Capacity | |
|---|---|---|---|
| | | Kg/day | TPM |
| 1 | Amlodipine Besylate | 480 | 14.4 |
| 2 | Clopidogrel Bisulfate | 200 | 6 |
| 3 | Lansoprazole | 300 | 9 |
| 4 | Rabeprazole Sodium | 500 | 15 |



CHAIRMAN, SEAC

| S. No | Name of Product | Capacity | |
|---|---|---|---|
| | | Kg/day | TPM |
| 5 | Valsartan | 400 | 12 |
| 6 | Dexlansoprazole | 300 | 9 |
| 7 | Esomeprazole | 880 | 26.4 |
| 8 | Dabigartanetexilate mesylate | 200 | 6 |
| 9 | Itraconazole | 200 | 6 |
| 10 | Fluconazole | 300 | 9 |
| 11 | Omeprazole | 171 | 5.1 |
| 12 | Domperidone | 120 | 3.6 |
| 13 | Tamsulosin | 50 | 1.5 |
| 14 | Montelukast Sodium | 100 | 3 |
| 15 | Pantaprazole Sodium | 120 | 3.6 |
| 16 | 4-Nitro 2,3-dimethyl pyridine N-oxide | 320 | 9.6 |
| 17 | 2-[Hydroxymethyl-3-methyl-4-[2, 2, 2-trifluoro ethoxy] pyridine HCl | 910 | 27.3 |
| 18 | 2-Chloromethyl-3-methyl-4-[2,2,2-tri fluoro ethoxy] pyridine HCl | 400 | 12 |
| 19 | 2- [[[3-Methyl-4-(2,2,2trifluro-ethoxy) -2-pyridinyl] methyl]thio]-1Hbenzimidazole | 300 | 9 |
| 20 | 4-Chloro-2, 3-dimethylpyridine-N-oxide | 300 | 9 |
| 21 | 2-Hydroxymethyl-4-(3-methoxypropoxy)-3-methyl pyridine HCl | 300 | 9 |
| 22 | 2-Chloromethyl-4-(3-methoxypropoxy)-3-methyl pyridine HCl | 300 | 9 |
| 23 | 2[[4-(3-Methoxypropoxy)-3-Methylpyridine-3-yl) methyl] thio]-1H-Benzimidazole (Rabe Sulphide) | 300 | 9 |
| 24 | 4-Nitro-2, 3, 5-trimethylpyridine-N-oxide | 480 | 14.4 |
| 25 | 2-Hydroxymethyl-3,5-dimethyl-4-methoxy pyridine hydrochloride | 450 | 13.5 |
| 26 | 2-Chloromethyl-4-methoxy-3, 5-dimethyl pyridine hydrochloride | 300 | 9 |
| 27 | 5-Methoxy-2-[[4methoxy-3, 5-dimethylpyridin-2-yl) methyl] thio] -1H-benzimidazole | 400 | 12 |
| 28 | 4-[4-[4-(4-methoxyphenyl)-1-piperazinyl] phenyl]-2,4 dihydro - 3H-1, 2, 4-triazol-3-one | 500 | 15 |
| 29 | 2, 4-Dihydro-4-[4-[4-(4-Hydroxy phenyl)-1-piperazinyl] phenyl]-2-(1-methylpropyl)-3H-1, 2, 4-triazol-3-one | 200 | 6 |
| 30 | Cis-2-(2, 4-Dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1, 3-dioxolan-4-ylmethyl methane sulphonate | 400 | 12 |
| 31 | Cis-[2-Bromomethyl-2-(2,4-dichlorophenyl)-1,3-dioxolan-4-yl]methyl Benzoate | 800 | 24 |
| 32 | R&D and Validation Products | 5 | 0.15 |
| | **Total (Worst Case 9 Products on campaign basis)** | **5400** | **162** |

**By Products:**

| S. No | Name of the Product | Stage | By Products | Quantity (Kg/day) |
|---|---|---|---|---|
| 1 | Lansoprazole | II | Ammonium sulfate | 581.9 |
| 2 | Valsartan | II | Tri Ethyl Amine HCl | 163.4 |
| 3 | Rabeprazole | V | Ammonium sulfate | 313 |
| 4 | Esomeprazole Magnesium Dihydrate | II | Ammonium sulfate | 2135 |

**Details of Utilities, Stacks & Air pollution control equipment's:**

| S.No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Boilers:**<br>Proposed: 1 x 5 TPH<br>1 x 8 TPH | <br>30 m<br>30 m | <br>Bag filter<br>Bag filter |
| 2 | **DG Sets:**<br>Proposed: 1 x 1010 kVA &<br>1 x 500 kVA | Adequate height | Acoustic enclosure |
| 3 | **Thermic Fluid Heater**<br>Proposed: 1 x 2 Lakh K cal/hr | 30 m | -- |

CHAIRMAN, SEAC

Process emissions contains Ammonia, Hydrogen Chloride, Hydrogen Bromide and Sulphur dioxide are sent to scrubber in series. Sodium chloride from hydrogen chloride, sodium bromide from hydrogen bromide, ammonium chloride from ammonia, sodium bisulfite from sulfur dioxide scrubbing sent to ETP. Carbon dioxide and nitrogen gases are let out into atmosphere following a standard operating procedure, while hydrogen gas is let out into atmosphere through a water column.

**Details of Water requirement:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 81.4 | | 81.4 |
| 2 | Washings | 8 | | 8 |
| 3 | Scrubber | 10 | | 10 |
| 4 | Boiler Feed | 45 | 35 | 80 |
| 5 | Cooling Tower | 120 | 145 | 265 |
| 6 | RO/DM Rejects | 15 | | 15 |
| 7 | Domestic | 9 | | 9 |
| 8 | Gardening | 8 | | 8 |
| | **Total water requirement** | **296.4** | **180** | **476.4** |

**Details of Effluent generation, treatment & disposal:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment & Disposal |
|---|---|---|---|---|---|
| 1 | Process | 89.2 | | 89.2 | Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO.<br><br>Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers. |
| 2 | Washings | 8 | | 8 | |
| 3 | Scrubber Effluent | 10 | | 10 | |
| 4 | RO/DM Plant Rejects | 15 | | 15 | |
| 5 | Boiler Blow downs | | 8 | 8 | |
| 6 | Cooling tower Blow downs | | 50 | 50 | |
| 7 | Domestic | | 8 | 8 | |
| **Total effluent Quantity** | | **122.2** | **66** | **188.2** | |

**Details of Solid Waste:**

| S. No | Description | Quantity | Mode of Disposal |
|---|---|---|---|
| 1 | Process Organic residue | 4.03 TPD | Sent to cement plants for co-incineration/TSDF Dundigal. |
| 2 | Solvent residue | 3.49 TPD | |
| 3 | Spent Carbon | 145.4 Kg/day | |
| 4 | Hyflow | 36.5 Kg/day | Sent to TSDF |
| 5 | Evaporation Salts | 4.47 TPD | |
| 6 | Inorganic Residue | 395.6 Kg/day | |
| 7 | ETP Sludge | 1.68 TPD | |
| 8 | Boiler Ash | 4.77 TPD | Sent to brick manufacturers |
| 9 | Spent Solvents | 112 KLD | Recovered within plant premises and reused. |
| 10 | Spent Mixed solvents | 28 KLD | Sent to Authorized recyclers |
| 11 | Stripper Distillate | 1.49 KLD | Sent to cement plants for co-incineration/TSDF, Dundigal |
| 12 | Waste oils & Grease | 2.49 KLPA | Sent to authorized agencies |
| 13 | Used Lead acid Batteries | 24 Nos/Year | Sent to suppliers on buy back basis |
| 14 | Bio medical waste | 5 Kg/Month | Sent to authorized common biomedical treatment facility |
| 15 | Detoxified containers & bags | 650 Nos / Month | Sent to authorized recyclers |
| 16 | Used PPE | 15 Kgs/ Month | Sent to authorized vendor |
| 17 | E- Waste | 0.2 TPA | Authorized recyclers |
| 18 | Plastic Waste | 0.1 TPA | Authorized recyclers |



CHAIRMAN, SEAC

| | | | |
|---|---|---|---|
| 19 | Metal Scrap | 8 TPA | Sale to out side agencies/ recyclers |
| 20 | Used Filters (HEPA filters, Oil Filters etc) | 80 Nos /year | Sent to TSDF |
| 21 | Used / Discarded RO Membranes | 0.1 TPA | Sent to TSDF |

After detail discussions, the SEAC recommended the project for issue of EC.

| | |
|---|---|
| **Agenda Item No. 06** | **M/s. Hepa pharma Pvt. Ltd. Sy. No.s. 937/AA, 937/1, 937 (Part), 937/5, Kankunta Village, Gummadidala Mandal, Sangareddy District - Environmental Clearance - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/172289/2020 (EC)** |

The representative of the project proponent Sri Dr. N. Srinivasa Reddy; and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad, attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for established of API manufacturing unit.

The SEAC noted the G.O Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 4.88 acres, out of which Green area is 1.65 acres (33.8%).

Nearest human habitation is Anantharam(V) @ 1.41km; Nearest water pond (cheruvu) is @ 0.53 km; Nearest RF is Kankuntar @ 3.6 km from the industry.

Project Cost is Rs.20.0 Crores. Budget for Environmental protection towards Capital Cost is Rs.5.94 crores and Recurring Cost is Rs.6.07 crores. Budget for CER is Rs.52.0 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

**Manufacturing Capacity**

| S.No | Name of Product | Capacity | |
|---|---|---|---|
| | | Kg/Day | TPM |
| 1 | Apixaban | 15 | 0.5 |
| 2 | Atracurium Besylate | 250 | 7.5 |
| 3 | Cis Atracurium Besylate | 300 | 9 |
| 4 | Empagliflozin | 250 | 7.5 |
| 5 | Heparian | 600 | 18 |
| 6 | Enaxoparin | 200 | 6 |
| 7 | Perampanel | 50 | 1.5 |
| 8 | Rivaroxaban | 500 | 15 |
| 9 | Rocuronium Bromide | 100 | 3 |
| 10 | Sitagliptin Phosphate | 600 | 18 |
| 11 | Solifenacin Succinate | 500 | 15 |
| 12 | Vardenafil Hydrochloride Trihydrate | 50 | 1.5 |
| 13 | Vecuronium Bromide | 400 | 12 |
| 14 | Bortezomib | 30 | 0.9 |
| 15 | Candesartan Cilexitil | 150 | 4.5 |
| 16 | Carvedilol | 200 | 6 |
| 17 | Docetaxel Trihydrate | 20 | 0.6 |
| 18 | Duloxetine HCl | 200 | 6 |
| 19 | Gemcitabine hydrochloride | 150 | 5 |
| 20 | Paclitaxel | 40 | 1.2 |
| 21 | Tamsulosin HCl | 200 | 6 |
| 22 | R&D and Validation Products | 2 | 0.1 |
| | **Total - Worst Case 8 products** | **3400** | **102** |



CHAIRMAN, SEAC

**Details of Utilities, Stacks & Air pollution control equipment's:**

| S. No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Boilers:**<br>Proposed: 1 x 6 TPH<br>1 x 4 TPH (standby) | <br>30 m<br>25 m | <br>Bag filter<br>Bag filter |
| 2 | **DG Sets:**<br>Proposed: 1 x 380kVA and 1 x 500 kVA | Adequate height | Acoustic enclosure |
| 3 | **Thermic Fluid Heater**<br>Proposed: 1 x 2 Lakh K.cal/hr | 15m | -- |

Process emissions contain ammonia, hydrogen, carbon dioxide, oxygen and nitrogen. Ammonia is sent to scrubber in series. Ammonium chloride from ammonia sent to ETP. Carbon dioxide, oxygen and nitrogen gases are let out into atmosphere following a standard operating procedure, while hydrogen gas is let out into atmosphere through a water column.

**Details of Water requirement:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 55.7 | | 55.7 |
| 2 | Washings | 5 | | 5 |
| 3 | Scrubber | 5 | | 5 |
| 4 | Boiler Feed | 25 | 15 | 35 |
| 5 | Cooling Tower | 75 | 100 | 175 |
| 6 | DM Rejects | 10 | | 10 |
| 7 | Domestic | 6 | | 6 |
| 8 | Gardening | 4 | | 4 |
| | **Total water requirement** | **185.7** | **115** | **300.7** |

**Details of Effluent generation, treatment & disposal:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment & Disposal |
|---|---|---|---|---|---|
| 1 | Process | 60.3 | | | Zero Liquid Discharge System ie.. **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO<br><br>Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers |
| 2 | Washings | 5 | | | |
| 3 | Scrubber Effluent | 5 | | | |
| 4 | RO/DM Plant Rejects | 20 | | | |
| 5 | Boiler Blow downs | | 4 | | |
| 6 | Cooling tower Blow downs | | 32 | | |
| 7 | Domestic | | 5.5 | | |
| **Total effluent Quantity** | | **80.3** | **41.5** | **121.8** | |

**Details of Solid Waste:**

| S. No | Description | Quantity | Mode of Disposal |
|---|---|---|---|
| 1 | Process Organic residue | 6.13 TPD | Sent to cement plants for co-incineration/TSDF |
| 2 | Solvent residue | 1.1 TPD | |
| 3 | Spent Carbon | 194 Kg/day | |
| 4 | Hyflow | 769.5 Kg/day | Sent to TSDF |
| 5 | Evaporation Salts | 3.51 TPD | |
| 6 | Inorganic Residue | 576.5 Kg/day | |
| 7 | Catalyst | 17 Kg/day | |
| 8 | ETP Sludge | 1.2 TPD | |
| 9 | Boiler Ash | 3.41 TPD | Sent to brick manufacturers |
| 10 | Spent Solvents | 25.3 KLD | Recovered within plant premises and reused |
| 11 | Spent Mixed solvents | 2.81 KLD | Sent to Authorized recyclers |
| 12 | Stripper Distillate | 1.71 KLD | Sent to cement plants for co-incineration/TSDF |
| 13 | Waste oils & Grease | 1.45 KLD | Sent to authorized agencies |



CHAIRMAN, SEAC

| | | | |
|---|---|---|---|
| 14 | Used Lead acid Batteries | 20 Nos/year | Sent to suppliers on buy back basis |
| 15 | Bio medical waste | 5 Kg/ Month | Sent to authorized common biomedical treatment facility |
| 16 | Detoxified containers & bags | 650 Nos / Month | Sent to authorized recyclers |
| 17 | Used PPE | 15 Kgs/ Month | Sent to authorized vendor |
| 18 | E- Waste | 0.2 TPA | Authorized recyclers |
| 19 | Plastic Waste | 0.1 TPA | Authorized recyclers |
| 20 | Metal Scrap | 8 TPA | Sale to out side agencies/ recyclers |
| 21 | Used Filters (HEPA filters, Oil Filters etc) | 80 Nos /year | Sent to TSDF |
| 22 | Used / Discarded RO Membranes | 0.1 TPA | Sent to TSDF |

After detail discussions, the SEAC recommended the project for issue of EC.

| | |
|---|---|
| **Agenda Item No. 07** | **M/s. S R Drugs and Intermediates (Unit 2) Pvt. Ltd., Sy. Nos 289 (Part), 290 (Part), 291 (Part), 292 (Part), Maddhikunta (V), Sadasivapet (M), Sangareddy District - Environmental Clearance - Reg.** |
| **Proposal No.** | SIA/TG/IND2/172819/2020 (EC) |

The representative of the project proponent Sri A. Ramakrishna; and Sri G.V. Reddy of M/s. Team Labs & Consultants. Hyderabad. attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for established of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP: G O.Ms. No. 64 dt. 25.07.2017 & G O.Ms. No. 24, dt.24.04.2019 of the EFS&T Dept . GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows.

Total area is 22 acres. out of which Green area is 7.26 acres (33%).

Nearest human habitation is Maddikunta(V) @ 1.5 km, Nearest water body is Nandi Vagu @ 2.9 km; No Reserve forest within 10 km Radius from boundary of the industry.

Project Cost is Rs.20.0 Crores. Budget for Environmental protection towards Capital Cost is Rs.9.12 crores and Recurring Cost is Rs.10.3 crores. Budget for CER is Rs.40.0 lakhs in first 5 years.

The details of Products. by-products & production capacity are as following:

**Manufacturing Capacity**

| S. No | Name of Product | Capacity (TPD) |
|---|---|---|
| 1 | Chloroacetyl chloride | 10 |
| 2 | Monochloroacetic acid | 50 |
| 3 | Trichloroacetyl chloride | 10 |
| 4 | Methyl chloroacetate | 10 |
| 5 | Aceclofenac | 8 |
| 6 | Diclofenac Sodium | 10 |
| 7 | Esomeprazole | 2.5 |
| | **Total - Worst Case 4 Products** | **80** |

CHAIRMAN, SEAC

**By products**

| S. No | Name of Product | Name of By-Product | Quantity (TPD) |
|---|---|---|---|
| 1 | Monochloro Acetic Acid | Dilute HCl (30%) | 57.9 |
| | | MCA Mf. | 8 |
| 2 | From Scrubbers | Dilute HCl (30%) | 34.2 |

**Details of Utilities, Stacks & Air pollution control equipment's:**

| S. No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Boilers:**<br>Proposed: 1 x 6 TPH<br>2 x 4 TPH | <br>30 m<br>30 m | <br>Bag filter<br>Bag filter |
| 2 | **DG Sets:**<br>Proposed: 1 x 1010kVA and 1 x 500 kVA | Adequate height | Acoustic enclosure |
| 3 | **Thermic Fluid Heater**<br>Proposed: 1 x 2 Lakh K.cal/hr | 30m | – |

Process emissions contain hydrogen chloride, sulfur dioxide and chlorine. Chlorine, hydrogen chloride and sulphur dioxide are sent to scrubber in series. Sodium chloride from hydrogen chloride and chlorine, sodium bisulfite from sulfur dioxide scrubbing sent to ETP.

**Details of Water requirement:**

| Purpose | Fresh Water (KLD) | Recycled Water (KLD) | Total (KLD) |
|---|---|---|---|
| Process | 160 | | 160 |
| Washings | 3 | | 3 |
| Scrubber | 20 | | 20 |
| Boiler Feed | 60 | 35 | 95 |
| Cooling Tower | 80 | 220 | 300 |
| DM Rejects | 20 | | 20 |
| Domestic | 5 | | 5 |
| Gardening | 6 | | 6 |
| **Total** | **353.9** | **255** | **608.9** |

**Details of Effluent generation, treatment & disposal:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment & Disposal |
|---|---|---|---|---|---|
| 1 | Process | 169.6 | | 169.6 | Zero Liquid Discharge System ie.,<br>**HTDS**: Stripper, MEE & ATFD.<br>**LTDS**: Biological ETP & RO.<br><br>Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers. |
| 2 | Washings | 3 | | 3 | |
| 3 | Scrubber Effluent | 21.7 | | 21.7 | |
| 4 | RO/DM Plant Rejects | 20 | | 20 | |
| 7 | Boiler Blow downs | | 8 | 8 | |
| 8 | Cooling tower Blow downs | | 46 | 46 | |
| | Domestic | | 4.5 | 4.5 | |
| **Total effluent Quantity** | | **214.3** | **58.5** | **272.8** | |

**Details of Solid Waste:**

| S.No | Description | Quantity | Mode of Disposal |
|---|---|---|---|
| 1 | Process Organic residue | 23.2 TPD | Sent to cement plants for co-incineration/TSDF Dundigal. |
| 2 | Solvent residue | 1.7 TPD | |
| 3 | Spent Carbon | 0.5 TPD | |
| 4 | Byflow | 6.1 TPD | Sent to TSDF |
| 5 | Evaporation Salts | 22.1 TPD | |
| 6 | Inorganic Residue | 42.6 TPD | |



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| S.No | Description | Quantity | Mode of Disposal |
|---|---|---|---|
| 7 | ETP Sludge | 2.4 TPD | |
| 8 | Boiler Ash | | Sent to brick manufacturers |
| 9 | Spent Solvents | 214.1 KLD | Recovered within plant premises and reused |
| 10 | Spent Mixed solvents | 23.7 KLD | Sent to Authorized recyclers |
| 11 | Stripper Distillate | 3.87 TPD | Sent to cement plants for co-incineration/TSDF, Dundigal |
| 12 | Waste oils & Grease | 2.49 KLPA | Sent to authorized agencies |
| 13 | Used Lead acid Batteries | 25 No.s/ Year | Sent to suppliers on buy back basis |
| 14 | Bio medical waste | 5 Kg/ Month | Sent to authorized common biomedical treatment facility |
| 15 | Detoxified containers & bags | 600 Nos / Month | Sent to authorized recyclers |
| 16 | Used PPE | 15 Kgs/ Month | Sent to authorized vendor |
| 17 | E- Waste | 0.2 TPA | Authorized recyclers |
| 18 | Plastic Waste | 0.1 TPA | Authorized recyclers |
| 19 | Metal Scrap | 8 TPA | Sale to out side agencies/ recyclers |
| 20 | Used Filters (HEPA filters, Oil Filters etc) | 80 Nos /year | Sent to TSDF |
| 21 | Used / Discarded RO Membranes | 0.1 TPA | Sent to TSDF |

After detail discussions, the SEAC recommended the project for issue of EC.

| | |
|---|---|
| **Agenda Item No. 08** | **M/s. S R Drugs and Intermediates (Unit 3) Pvt. Ltd., Sy.No., 292 (Part) and 293 (Part), Maddbikunta Village, Sadasivapet Mandal, Sangareddy District - Environmental Clearance - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/172847/2020 (EC)** |

The representative of the project proponent Sri A. Ramakrishna, and Sri G.V. Reddy of M/s. Team Labs & Consultants, Hyderabad, attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for established of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019, of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project as follows:

Total area is 13acres, out of which Green area is 4.3 acres (33%).

Nearest human habitation is Maddikunta (V) @ 1.3 km; Nearest water body isNandi Vagu @ 2.45 km; No Reserve forest within 10 km Radius from boundary of the industry.

Project Cost is Rs.16.0 Crores. Budget for Environmental protection towards Capital Cost is Rs.4.57 crores and Recurring Cost is Rs.3.38 crores. Budget for CER is Rs.32.0 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

CHAIRMAN, SEAC

Manufacturing Capacity

| S. No | Name of Product | Capacity | |
|---|---|---|---|
| | | Kg/day | TPM |
| 1 | Amlodipine besylate | 120 | 3.6 |
| 2 | Clopidogrel bisulphate | 100 | 3 |
| 3 | Efaverinz | 125 | 3.8 |
| 4 | Emtricitabine | 100 | 3 |
| 5 | Lamivudine | 200 | 6 |
| 6 | Lopinavir | 100 | 3 |
| 7 | Abacavir Sulphate | 100 | 3 |
| 8 | Atazanavir Sulphate | 100 | 3 |
| 9 | Capecitabine | 100 | 3 |
| 10 | Doletagravir | 185 | 5.5 |
| 11 | Erlotinib HCl | 100 | 3 |
| 12 | Fosamprenavir | 100 | 3 |
| 13 | Gefitinib HCl | 100 | 3 |
| 14 | Imatinib mesylate | 100 | 3 |
| 15 | Irbesatran | 100 | 3 |
| 16 | Losartan Pottasium | 100 | 3 |
| 17 | Nevirapine | 100 | 3 |
| 18 | Pregablin | 170 | 5.1 |
| 19 | RaltegravirPottasium | 100 | 3 |
| 20 | Tenofavir | 135 | 4.1 |
| 21 | Ritonavir | 100 | 3 |
| 22 | Mebeverine | 100 | 3 |
| 23 | Triethyl orthoformate | 155 | 4.7 |
| 24 | Diacetyl Acyclovir | 2000 | 60 |
| 25 | Acyclovir | 2000 | 60 |
| 26 | Valacyclovir HCl Monohydriac | 1000 | 30 |
| 27 | Phthaloyl Amlodipine | 1000 | 30 |
| 28 | Loratadine | 400 | 12 |
| 29 | Tapentadol | 100 | 3 |
| 30 | Ticagrelor | 100 | 3 |
| 31 | Dabigatran Etexilate Mesylate | 100 | 3 |
| 32 | Vildagliptin | 100 | 3 |
| 33 | Sodium Monochloroacetate | 5000 | 150 |
| **Total-Worst Case (Any 8 Products)** | | **11785** | **353.6** |
| | Validation products | 5 | 0.15 |
| | **Grand Total** | **11790** | **353.75** |

By products

| S. No | Name of the Product | Stage | Name of the By product | Capacity | |
|---|---|---|---|---|---|
| | | | | Kg/day | TPM |
| 1 | Amlodipine Besylate | I | Spent Acetic Acid | 100 | 3 |
| 2 | Diacetyl Acyclovir | I | Spent Acetic Acid | 1258 | 37.7 |
| 3 | Acyclovir | I | Sodium Acetate | 1458 | 43.7 |
| 4 | Ticagrelor | I | Spent Acetic Acid | 500 | 15 |
| 5 | | | Dilute HCl (20%) fromScrubbers | 798 | 23.9 |

Details of Utilities, Stacks & Air pollution control equipment's:

| S. No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Boilers:**<br>Proposed: 1 x 6 TPH<br>1 x 4 TPH | <br>36 m<br>30 m | <br>Bag filter<br>Bag filter |



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| | | | |
|---|---|---|---|
| 2 | **DG Sets:**<br>Proposed: 1 x 250 kVA, 2 x 500 kVA & 1 x 250 kVA | Adequate height | Acoustic enclosure |
| 3 | **Thermic Fluid Heater**<br>Proposed: 2 x 2 Lakh K.cal/hr | 12m | -- |

The process emissions contain Hydrogen, carbon dioxide, hydrogen chloride, hydrogen bromide, Ammonia and Sulfur dioxide. Hydrogen chloride, hydrogen bromide, Ammonia and Sulfur dioxide are sent to scrubber in series. The resultant solutions after scrubbing i.e., sodium chloride form hydrogen chloride and sodium bromide from hydrogen bromide, ammonium chloride from ammonia and sodium sulphate from sulfur dioxide are sent to ETP. Carbon dioxide is let out into atmosphere following a standard operating procedure. Hydrogen is let into atmosphere through water column following a standard operating procedure.

**Details of Water requirement:**

| Purpose | Fresh Water (KLD) | Recycled Water (KLD) | Total (KLD) |
|---|---|---|---|
| Process | 55 | | 55 |
| Washings | 5 | | 5 |
| Scrubber | 8 | | 8 |
| QC and R&D | 1 | | 1 |
| Boiler Feed | 50 | 20 | 70 |
| Cooling Tower | 55 | 95 | 150 |
| RO/DM Plant | 10 | | 10 |
| Domestic | 5 | | 5 |
| Gardening | 5 | | 5 |
| **Total** | **194** | **115** | **309** |

**Details of Effluent generation, treatment & disposal:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment & Disposal |
|---|---|---|---|---|---|
| 1 | Process | 60.2 | | 60.2 | Zero Liquid Discharge System ie.<br>**HTDS**: Stripper, MEE & ATFD.<br>**LTDS**: Biological ETP & RO<br><br>Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers. |
| 2 | Washings | 5 | | 5 | |
| 3 | Scrubber Effluent | 8 | | 8 | |
| 4 | RO/DM Plant Rejects | 10 | | 10 | |
| 6 | R&D | | 1 | 1 | |
| 7 | Boiler Blow downs | | 6 | 6 | |
| 8 | Cooling tower Blow downs | | 26 | 26 | |
| | Domestic | | 4.5 | 4.5 | |
| **Total effluent Quantity** | | **83.2** | **37.5** | **120.7** | |

**Details of Solid Waste:**

| S. No | Description | Quantity | Mode of Treatment/Disposal |
|---|---|---|---|
| 1 | Process Organic residue | 5.25 TPD | Sent to cement plants for co-incineration/TSDFDundigal. |
| 2 | Solvent residue | 2.26 TPD | |
| 3 | Spent Carbon | 265 Kg/day | |
| 4 | Inorganic Residue | 2.33 TPD | Sent to TSDF |
| 5 | Evaporation Salts | 4.06 TPD | |
| 6 | ETP Sludge | 1.58 Kg/day | |
| 7 | Hyflow | 175 Kg/day | |
| 8 | Boiler Ash | 5.76 TPD | Sent to brick manufacturers |
| 9 | Spent Solvents | 68.2 KLD | Recovered within plant premises and reused |
| 10 | Spent Mixed solvents | 7.6 KLD | Sent to Authorized recyclers |
| 11 | Stripper Distillate | 1.07 KLD | Sent to cement plants for co-incineration/TSDF, Dundigal |



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| | | | |
|---|---|---|---|
| 12 | Waste oils & Grease | 2.27 Kl./year | Sent to authorized agencies |
| 13 | Used Lead acid Batteries | 50 Nos./year | Sent to suppliers on buy back basis |
| 14 | Detoxified Containers and container liners | 600 No/ Month | After complete detoxification, it shall be disposed off to outside agencies. |
| 15 | Polythene Liners/ Containers | 500 Kg/Month | |
| 16 | Cotton Waste | 80 Kg/ Month | Sent to TSDF/Dundigal, Medchal District for incineration |
| 17 | Used Centrifuged leaf filter bags | 350 Kg/Month | Sent to TSDF/Dundigal, Medchal District |

After detail discussions, the SEAC recommended the project for issue of EC.

| | |
|---|---|
| **Agenda Item No. 09** | **M/s. SV Labs Pvt. Ltd., Sy. No. 501, 506 & 507, Koyyalagudem (V), Choutuppal (M), Yadadri Bhuvanagiri District - Environmental Clearance (Expansion) - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/173617/2020 (EC)** |

The representative of the project proponent Sri P. Vijay Kumar Reddy and Sri G.Y. Reddy of M/s. Team Labs & Consultants, Hyderabad, attended and made a presentation before the SEAC.

The SEAC noted that proponent obtained CFE on 12.04.2018 for manufacture of Bulk Drugs & Intermediates.

CFO issued on 04.01.2018 from TSPCB and the unit is operating.

The propoponent submitted Self-compliance Report for conditions stipulated in EC.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019, of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.18.12.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project after proposed expansion as follows:

Total area is 6.0 acres, out of which Green area is 1.99 acres (33%).

Nearest human habitation is Koyyalagudem (V) @ 0.7 km; Nearest water is Chinna Musi River seasonal stream @ 9.5 km; Nearest RF is Lakkaram @ 2.2km.

Project Cost for proposed expansion is Rs.20.0 Crores. Budget for Environmental protection towards Capital Cost is Rs. 7.38 crores while recurring costs for is Rs. 5.56 crores/year. Budget for CER is Rs.31.2 lakhs in first 5 years

The details of Products, by-products & production capacity are as following:

**Manufacturing Capacity– After Expansion**

| S.No | Name of the Product | Capacity | |
|---|---|---|---|
| | | Kg/day | TPM |
| 1 | Cetirizine Dihydrochloride | 100 | 3 |
| 2 | Carvedilol | 100 | 3 |
| 3 | Terbinafine Hydrochloride | 100 | 3 |
| 4 | Omeprazole | 100 | 3 |
| 5 | Fluconazole | 100 | 3 |
| 6 | Cis-Bromo Benzoate | 200 | 6 |
| 7 | 4 Amino-1-Methyl-3n-Propyl Pyrazole5- Carboxamide | 83 | 2.5 |
| 8 | Trityl Tetrazole Bromomethyl Biphenyl | 300 | 9 |



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| | | | |
|---|---|---|---|
| 9 | Thionordiazepam | 50 | 1.5 |
| 10 | Tetralone | 5000 | 150 |
| 11 | Citalopram Hydrobromide | 150 | 4.5 |
| 12 | Losartan Potassium | 150 | 4.5 |
| 13 | Celecoxib (CBX) | 100 | 3 |
| 14 | N-(1-(3,4-Dichlorophenyl)-2,3-Dihydronapthalen-4 (1H)-ylidene) Methanamidne (SSB) | 1800 | 54 |
| 15 | 2-Acetyl Thiophene | 100 | 3 |
| 16 | Bosentan | 100 | 3 |
| 17 | Dapagliflozin propanediol | 100 | 3 |
| 18 | Ponatinib | 100 | 3 |
| 19 | Posaconazole | 35 | 1.05 |
| 20 | Vildagliptin | 35 | 1.05 |
| 21 | N-(2-amino-4,6-dichloropyrimidin-5-yl) Formamide (Abacavir sulfate Int) | 35 | 1.05 |
| 22 | 4-Hydrazinophenyl-N-Methylmethane-sulfonamide HCl (Sumatriptan Int) | 100 | 3 |
| 23 | Amlodipine Maleate | 100 | 3 |
| 24 | N-(4-(benyloxy)benzylidene)-4-fluro-benzenamine (4-BBFA) | 200 | 6 |
| 25 | (4S)-3-(5-(4-fluorophenyl)-5-methoxyimino-1-oxo-pentyl)-4-phenyl-2-oxazolidinone (Ezetimibe-1 ) | 100 | 3 |
| 26 | Methyl 2- (2-Chlorophenyl) Acetate | 700 | 21 |
| 27 | Trityl Chloride | 1000 | 30 |
| 28 | Atorvastatin Calcium | 100 | 3 |
| 29 | Pregabalin | 100 | 3 |
| 30 | Rosuvastatin Calcium | 100 | 3 |
| 31 | Rabeprazole Sodium | 30 | 0.9 |
| 32 | Sildenafil Citrate | 100 | 3 |
| 33 | Quetiapine Fumerate | 100 | 3 |
| 34 | Darunavir Ethanolate | 350 | 10.5 |
| 35 | (2R,5S)-(1R,2S,5R)-2-isopropyl-5-methylcyclohexyl 5-(4-amino-5-fluoro-2-oxopyrimidin-1(2H)-yl)-1,3-oxathiolane-2-carboxylate (FCME) | 835 | 25.1 |
| 36 | (2R,5S)-(1R,2S,5R)-2-isopropyl-5-methylcyclohexyl 5-(4-amino-2-oxopyrimidin-1(2H)-yl)-1,3-oxathiolane-2-carboxylate (CME) | 1012 | 30.4 |
| | **Total (Worst Case 12 Products on campaign basis)** | **11697** | **350.9** |

**List of By-Product– After Expansion**

| S.No | Name of Product | Stage | Name of By Product | Capacity | |
|---|---|---|---|---|---|
| | | | | Kg/day | TPM |
| 1 | Fluconazole | I | Aluminium hydroxide (8.5%) | 379.6 | 11.4 |
| 2 | Tetralone | I | Aluminium hydroxide (8.1%) | 16546 | 496.4 |
| 3 | N-(1-(3,4-Dichlorophenyl)-2,3-Dihydronapthalen-4 (1H)-ylidene) Methanamidne (SSB) | I | Aluminium hydroxide (8.1%) | 6193.2 | 185.8 |
| 4 | 2-Acetyl Thiophene | I | Aluminium hydroxide (6.8%) | 970.9 | 29.1 |
| 5 | Dapagliflozin Propanediol | I | N-Methylmorpholine HCl | 182.5 | 5.5 |
| 6 | Sumatriptan | IV | Sulfuric acid (40%) | 194.8 | 5.8 |
| 7 | Trityl chloride | I | Acetic acid | 215.4 | 6.5 |
| 8 | (2R,5S)-(1R,2S,5R)-2-isopropyl-5-methylcyclohexyl 5-(4-amino-5-fluoro-2-oxopyrimidin-1(2H)-yl)-1,3-oxathiolane-2-carboxylate (FCME) | II | Hexamethyl disiloxane (Net HMDO in MDC solvent media) | 340.2 | 10.2 |
| 9 | (2R,5S)-(1R,2S,5R)-2-isopropyl-5-methylcyclohexyl 5-(4-amino-2-oxopyrimidin-1(2H)-yl)-1,3-oxathiolane-2-carboxylate (CME) | II | Hexamethyl disiloxane (Net HMDO in MDC solvent media) | 430 | 12.9 |
| 10 | Spent Acid from Scrubber | | Hydrochloric acid (30%) | 8695.4 | 260.9 |

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**Details of Utilities, Stacks & Air pollution control equipment's after expansion:**

| S.No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Boilers:**<br>Existing: 1 x 4 TPH<br>1x 6 TPH<br>Proposed: 1 x 4 TPH | <br>30m<br>30m<br>30m | <br>Bag Filters<br>Bag Filters<br>Bag Filters |
| 2 | **DG Sets:**<br>Existing: 1 x 1000 kVA,<br>1 x 280 kVA,<br>1 x 250<br>Proposed: 1 x 380 kVA | Adequate height | Acoustic enclosure |
| 3 | **Thermic Fluid Heaters**<br>Existing: Nil<br>Proposed 2 x 2Lac. k.cal | 15 | Effective stack height |

The process emissions contain hydrogen chloride, Sulfur dioxide. Hydrogen Suphide, Hydrogen, Hydrogen iodide and carbon dioxide. Hydrogen chloride, Hydrogen iodide, Sulfur dioxide & Hydrogen Suphide are sent to scrubber and the resultant scrubbing effluent sent to effluent treatment plant. The other gas expected in the process is carbon dioxide which is let out into atmosphere following a standard operating procedure while Hydrogen gas is let out into atmosphere through a water column.

**Details of Water requirement after expansion:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 76 | | 76 |
| 2 | Washings | 5 | | 5 |
| 3 | Scrubber | 5 | 5 | 10 |
| 4 | Boiler | 35 | 25 | 60 |
| 5 | Cooling Towers | 55 | 80 | 135 |
| 6 | RO/DM Plant | 8 | | 8 |
| 7 | Domestic | 6 | | 6 |
| 8 | Gardening | 3 | | 3 |
| | **Total water requirement** | **193** | **110** | **303** |

**Details of Effluent generation, treatment & disposal after expansion:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment & Disposal |
|---|---|---|---|---|---|
| 1 | Process | 62 | | 62 | Zero Liquid Discharge System ie.,<br>**HTDS:** Stripper, MEE & ATFD.<br>**LTDS:** Biological ETP & RO.<br><br>Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers. |
| 2 | Washings | 5 | | 5 | |
| 3 | Scrubber Effluent | 10 | | 10 | |
| 4 | RO/DM Plant Rejects | 8 | | 8 | |
| 5 | Boiler Blow downs | | 8 | 8 | |
| 6 | Cooling tower Blow downs | | 25 | 25 | |
| 7 | Domestic | | 5 | 5 | |
| **Total effluent Quantity** | | **85** | **38** | **123** | |

**Details of Solid Waste after expansion:**

| S. No | Description | Quantity | Mode of Treatment/Disposal |
|---|---|---|---|
| 1 | Organic residue | 4.68 TPD | Shall be sent to TSDF, Dundigal, Rangareddy District for incineration/ Authorized cement plants / pre-processing facilities for Co-processing |
| 2 | Solvent residue | 3.8 TPD | |
| 3 | Spent Carbon | 308 Kg/day | |
| 4 | Inorganic Residue | 1.36 TPD | Shall be sent to TSDF, Dundigal, Rangareddy District for secured land filling |
| 5 | Evaporation salts | 3.69 TPD | |
| 6 | ETP Sludge | 30.6 TPM | |



CHAIRMAN, SEAC

| | | | |
|---|---|---|---|
| 7 | Spent Solvent | 66.4 KLD | Shall be recovered within the premises and reuse |
| 8 | Mixed Solvent | 11.7 KLD | Authorized Cement plants for co-processing / sent to authorized recovery units |
| 9 | Stripper Distillate | 1.61 KLD | Authorized Cement plants for co-processing |
| 10 | Spent Hyflo | 106.8 Kg/day | Sent to TSDF |
| 11 | Spent Catalyst | 98.8 Kg/day | Sent to authorized agencies |
| 12 | Celite | 12 Kg/day | Sent to TSDF |
| 13 | Waste oil | 3.32 KLPA | Shall be sent to authorized re-processors/ Recyclers |
| 14 | Detoxified containers | 1000 Nos/Month | After complete detoxification should be disposed of to outside agencies |
| 15 | Used batteries | 20 Nos/Yr. | Shall be sent to authorized re-processors/ Recyclers |
| 16 | Ash from Boiler | 30 TPD | Sent to brick manufacturer |

The SEAC observed that the proponent is proposing expansion of the project from 151.5 TPM to 350.9 TPM, which becomes more than 50% of the permitted production capacity. Hence, the SEAC decided to constitute a sub-committee with the following members to inspect the unit, verify records and submit report on the following:

i) Project modification
ii) Project cost
iii) ZLD System & its adequacy
iv) ETP modifications
v) Products: Comparison of existing and proposed (which are going for expansion)
vi) Verify Production details w.r.t. permitted for the past one year, as per ER-I/GST.
vii) Raw material: Comparison of existing and proposed (which are going for expansion)
viii) Solid waste: Comparison of existing and proposed (which are going for expansion)
ix) Impact on surroundings
x) Applicability of S.O.804 (E), dt.14.03.2017 & S.O. 1030 (E) dt.08.03.2018 issued by the MoEF&CC, GoI.
xi) Implementation of disaster management plan and safety measures in the existing project and proposed expansion.
xii) Greenbelt development
xiii) Justification of project w.r.t. G.O.Ms. No. 95, dt. 21.09.2007; G.O.Ms. No. 64, dt. 25.07.2013; & G.O.Ms. No. 24, dt.24.04.2019.

Members of Sub-Committee:
1. Sri Sivakumar
2. Sri Krishna Reddy.

| | |
|---|---|
| **Agenda Item No. 10** | **M/s. Rudra Labs (Unit-II), Sy.No. Parts of 363, Pararam (V), Bommalaramaram (M), Yadadri Bhuvanagiri District - Environmental Clearance - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/171760/2020 (EC)** |

The representative of the project proponent Sri N. Suresh Raju and Sri Y.V. Prasad of M/s. Rightsource Industrial Solutions Pvt. Ltd., Hyderabad, attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for established of API manufacturing unit

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O Ms. No. 24, dt.24.04.2019, of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

CHAIRMAN, SEAC

The SEAC noted the contents of the EMP report and noted the details of the proposed project as follows:

Total area is 10,683.70 Sq.m. out of which Green area is 3,963.70 Sq.m. (37.11 %).

Nearest human habitation is Pyaruwaram Thanda (V) @ 0.84 km; Nearest water body is Pyaruwaram Thanda @ 1.55km; Nearest RF is Somajpalli RF @ 0.96 km from the industry

The Project Cost for proposed project is Rs.12.60 Crores. Budget for Environmental protection towards Capital Cost is Rs. 228.0 Lakhs and Recurring Cost is Rs. 21.0 Lakhs/annum. Budget for CER is Rs.25.20 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

**LIST OF PROPOSED PRODUCTS & ITS QUANTITIES**

| S. No | Product Name | Quantity | |
|---|---|---|---|
| | | MT/Month | Kg/ Day |
| 1 | Acyclovir | 10.00 | 333.33 |
| 2 | Amisulpride | 5.00 | 166.67 |
| 3 | Atorvastatin calcium Trihydrate | 10.00 | 333.33 |
| 4 | Candesartan Cilexetil | 5.00 | 166.67 |
| 5 | Carvedilol | 5.00 | 166.67 |
| 6 | Cetirizine dihydrochloride | 10.00 | 333.33 |
| 7 | Cinnarizine HCl | 5.00 | 166.67 |
| 8 | Clopidogrel Bisulfate | 15.00 | 500.00 |
| 9 | Darunavir | 5.00 | 166.67 |
| 10 | Desloratadine | 3.00 | 100.00 |
| 11 | Domperidone | 10.00 | 333.33 |
| 12 | Escitalopram oxalate | 10.00 | 333.33 |
| 13 | Febuxostat | 3.00 | 100.00 |
| 14 | Fenofibrate | 5.00 | 166.67 |
| 15 | Fexofenadine hydrochloride | 10.00 | 333.33 |
| 16 | Flubiprofen | 5.00 | 166.67 |
| 17 | Glimepiride | 2.00 | 66.67 |
| 18 | Irbesartan | 10.00 | 333.33 |
| 19 | Itopride HCl | 5.00 | 166.67 |
| 20 | Itraconazole | 5.00 | 166.67 |
| 21 | Lamotrigine | 5.00 | 166.67 |
| 22 | Levocetirizine dihydrochloride | 5.00 | 166.67 |
| 23 | Losartan Potassium | 15.00 | 500.00 |
| 24 | Meclizine HCl | 5.00 | 166.67 |
| 25 | Mirtazapine | 5.00 | 166.67 |
| 26 | Nebivolol Hydrochloride | 5.00 | 166.67 |
| 27 | Nortriptyline | 3.00 | 100.00 |
| 28 | Omeprazole | 15.00 | 500.00 |
| 29 | Ondansetron hydrochloride dihydrate | 10.00 | 333.33 |
| 30 | Oseltamivir Phosphate | 5.00 | 166.67 |
| 31 | Pantoprazole Sodium | 15.00 | 500.00 |
| 32 | Pioglitazone Hydrochloride | 2.00 | 66.67 |
| 33 | Prasugrel | 2.00 | 66.67 |
| 34 | Rabeprazole Sodium | 4.00 | 133.33 |
| 35 | Remdesivir | 2.00 | 66.67 |
| 36 | Risedronate sodium | 2.00 | 66.67 |
| 37 | Risperidone | 2.00 | 66.67 |
| 38 | Ritonavir | 5.00 | 166.67 |
| 39 | Telmisartan | 5.00 | 166.67 |
| **Total** | **(Any 10 products will be** | **120.00** | **000.00** |



CHAIRMAN, SEAC

| S. No | Product Name | Quantity | |
|---|---|---|---|
| | | MT/Month | Kg/ Day |
| manufactured at any given point of time) | | | |

## LIST OF BY-PRODUCTS & ITS QUANTITIES

| S.No | Name of the product | Name of the By-Product | Quantity | |
|---|---|---|---|---|
| | | | Kg/Day | MT/Month |
| 1 | Acyclovir | Acetic acid | 154.10 | 4.62 |
| 2 | Amisulpride | Potassium sulphate | 389.40 | 11.68 |
| | | Ethyl Thio cyanate | 140.20 | 4.21 |
| 3 | Candesartan Cilexetil | Sodium bromide | 1173.90 | 35.22 |
| | | Ethyl alcohol | 1140.60 | 34.22 |
| | | Tri ethylamine hydrochloride | 696.70 | 20.90 |
| 4 | Clopidogrel Bisulfate | Triethylamine hydrochloride | 419.00 | 12.57 |
| | | p-Toluene sulfonic acid | 472.40 | 14.17 |
| 5 | Domperidone | Sodium acetate | 1185.30 | 35.56 |
| | | Ammonia sulfate | 1256.20 | 37.69 |
| | | Ammonium chloride | 335.70 | 10.07 |
| | | Sodium bromide | 645.00 | 19.35 |
| | | Ammonium chloride | 253.70 | 7.61 |
| 6 | Escitalopram oxalate | Diparatoluyl D-Tartaric acid | 2669.90 | 80.10 |
| 7 | Febuxostat | Methyl cyanide | 70.60 | 2.12 |
| | | Potassium bromide | 141.10 | 4.23 |
| 8 | Fenofibrate | Potassium bromide | 22.30 | 0.67 |
| 9 | Fexofenadine Hydrochloride | Boric acid | 120.80 | 3.62 |
| | | Sodium methoxide | 105.50 | 3.17 |
| 10 | Flurbiprofen | 2-methyl Propanol | 200.20 | 6.01 |
| 11 | Irbesartan | Triethylamine | 56.30 | 1.69 |
| 12 | Itopride hydrochloride | Triethylamine HCl | 189.00 | 5.67 |
| 13 | Cetirizine Dihydrochloride | Triethylamine hydrogen chloride | 113.70 | 3.41 |
| 14 | Losartan potassium | Succinamide | 598.20 | 17.95 |
| | | Trityl alcohol | 1368.10 | 41.04 |
| | | Sodium Bromide | 540.70 | 16.22 |
| 15 | Meclizine hydrochloride | Succinamide | 63.90 | 1.92 |
| 16 | Omeprazole | Ammonium sulfate | 366.30 | 10.99 |
| | | Sodium nitrite | 168.20 | 5.05 |
| | | Sodium acetate | 199.90 | 6.00 |
| | | Ammonium sulphate | 584.70 | 17.54 |
| 17 | Oseltamivir phosphate | Tert butyl chloride | 100.20 | 3.01 |
| 18 | Pantoprazole sodium | Sodium di hydrogen phosphate | 3867.40 | 116.02 |
| 19 | Prasugrel | Succinamide | 126.70 | 3.80 |
| | | Sodium bromide | 109.50 | 3.29 |
| 20 | Rabeprazole sodium | Sodium acetate | 355.90 | 10.68 |
| | | Acetic acid | 290.40 | 8.71 |
| 21 | Ritonavir | Sodium acetate | 836.30 | 25.09 |
| | | Boric acid | 390.70 | 11.72 |
| | | O-nitro phenol | 458.00 | 13.74 |
| | | Sodium phosphate | 298.10 | 8.94 |
| | | O-nitro phenol | 4561.00 | 136.83 |

**Details of Utilities, Stacks & Air pollution control equipments:**

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| S.No. | Utility | Stack Height | APCE |
|---|---|---|---|
| 1 | **Coal fired Boilers:**<br>Proposed: 1 x 5 TPH<br>1 x 5 TPH (Stand-by) | 30m | Cyclone separator followed by suitable pack of Bag filters |
| 2 | **Thermic fluid heater:**<br>Proposed: 1 x 2 Lakh K.Cal/hr | 11 | Cyclone separator |
| 3 | **DG Sets:**<br>Proposed: 1 x 250 KVA&<br>1 x 500 KVA | Adequate height | Acoustic enclosure & Silencer |

The **process emissions** containing Sulphur dioxide, Chloromethane, Hydrogen Chloride Hydrogen Bromide, Ammonia, Dimethylamine & Hydrogen Fluoride are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide, Oxygen & Nitrogen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen and Butane are to be safely diffused by using Nitrogen through Flame arrestor.

**Details of Water requirement:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 44.39 | 0.00 | 44.39 |
| 2 | Washings | 0.00 | 4.00 | 4.00 |
| 3 | Boilers make up | 7.00 | 22.00 | 29.00 |
| 4 | Cooling towers make up | 51.08 | 26.92 | 78.00 |
| 5 | Scrubbing system | 9.00 | 0.00 | 9.00 |
| 6 | Domestic | 0.00 | 7.00 | 7.00 |
| 7 | Gardening | 0.00 | 6.00 | 6.00 |
| | **Total** | **111.47** | **65.92** | **177.39** |

**Details of Effluent generation, treatment & disposal:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment Method |
|---|---|---|---|---|---|
| 1 | Process | 50.81 | 3.79 | 54.60 | Zero Liquid Discharge System ie.,<br>**HTDS:** Stripper, MEE & ATFD<br>**LTDS:** Biological ETP & RO.<br><br>Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers. |
| 2 | Washings | 0.00 | 4.00 | 4.00 | |
| 3 | Boilers Blow down | 0.00 | 4.00 | 4.00 | |
| 4 | Cooling towers Bleed off | 0.00 | 8.50 | 8.50 | |
| 5 | Scrubbing system | 10.00 | 0.00 | 10.00 | |
| 6 | Domestic | 0.00 | 6.00 | 6.00 | |
| **Total:** | | **60.81** | **26.29** | **87.10** | |

**Details of Solid & Hazardous Waste:**

| S. No | Name of theHazardous Waste | Quantity | Disposal Method |
|---|---|---|---|
| 1 | Organic solid waste (Process Residue) | 5785 Kg/Day | Shall be sent to Cement Industries |
| 2 | Spent Carbon | 181 Kg/Day | |
| 3 | Solvent Distillation Residue | 1043 Kg/Day | |
| 4 | Organic distillate from MEE Stripper | 1400 Kg/Day | |
| 5 | Inorganic Solid Waste | 4024 Kg/Day | Shall be sent to TSDF |
| 6 | MEE Salts | 5341 Kg/Day | |
| 7 | ETP Sludge | 150 Kg/Day | |
| 8 | Used Oils | 1501trs/Annum | Shall be sent to SPCB Authorized Agencies for Reprocessing/ Recycling |
| 9 | Detoxified Containers/ Container liners | 750 No's / Month | After Detoxification shall be sent to SPCB authorized agencies. |
| 10 | Used Lead Acid Batteries | 4 No's/ Annum | Send back to suppliers for buyback of New Batteries |
| 11 | Ash from boiler | 7000 Kg/Day | Shall be sent to Brick Manufacturers |

After detailed discussions, the SEAC recommended the project for issue of EC.

CHAIRMAN, SEAC

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|---|---|
| Agenda Item No. 11 | M/s. Veena Life Sciences India Pvt. Ltd., (Formerly M/s. Srini Pharmaceuticials Pvt. Ltd.), Sy. No. 271, 272 & 273, S. Lingotam (V), Choutuppal (M), Yadadri Bhuvanagiri District - Environmental Clearance - Reg. |
| Proposal No. | SIA/TG/IND2/171944/2020 (EC) |

The representative of the project proponent Sri P. Srinivasa Rao; and Sri Y.V. Prasad of M/s. Rightsource Industrial Solutions Pvt. Ltd., Hyderabad, attended and made a presentation before the SEAC.

The SEAC noted that proponent obtained CFE on 09.08.2004 for manufacture of Bulk Drugs & Intermediates.

CFO issued on 29.05.2018 from TSPCB and the unit is operating.

The proponent submitted Self-compliance Report for conditions stipulated in CFO.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept , GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the proposed project as follows.

Total area is 1,06,229.79 Sq.m. out of which Green area is 38,727.03Sqm (38.74 %).

Nearest human habitation is S. Lingotam (V) @ 1.46 km; Water body near Choutuppal @ 3.86 km; Nearest RF is Choutuppal RF @ 3.16 km from the industry.

Project Cost for proposed project is Rs. 35.0 Crores. Budget for Environmental protection towards Capital Cost is Rs. 429.0 Lakhs and Recurring Cost is Rs. 56.0 Lakhs/annum. Budget for CER is Rs. 35.0lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

**LIST OF PROPOSED PRODUCTS & ITS QUANTITIES**

| S. No | Product Name | Quantity | |
|---|---|---|---|
| | | MT/Month | Kg/ Day |
| 1 | Abacavir | 4.80 | 160.00 |
| 2 | Adapalene | 4.50 | 150.00 |
| 3 | Amiloride | 4.20 | 140.00 |
| 4 | Amlodipine Besylate | 12.00 | 400.00 |
| 5 | Apixaban | 4.50 | 150.00 |
| 6 | Apremilast | 4.10 | 136.67 |
| 7 | Argatroban | 4.50 | 150.00 |
| 8 | Aripiprazole | 12.00 | 400.00 |
| 9 | Atorvastatin Calcium Trihydrate | 6.30 | 210.00 |
| 10 | Avanafil | 4.10 | 136.67 |
| 11 | BaloxavirMarboxil | 3.90 | 130.00 |
| 12 | Bazedoxifene | 3.80 | 126.67 |
| 13 | Bilastine | 4.20 | 140.00 |
| 14 | Bromolamide | 4.00 | 133.33 |
| 15 | Brivaracetum | 3.60 | 120.00 |
| 16 | Clonazepam | 6.20 | 206.67 |
| 17 | Clopidogrel Bisulfate | 10.00 | 333.33 |
| 18 | Dabigatran Etexilate Mesylate | 12.00 | 400.00 |



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| S. No | Product Name | Quantity | |
|---|---|---|---|
| | | MT/Month | Kg/ Day |
| 19 | Danelloxacin | 4.10 | 136.67 |
| 20 | Darunavir | 3.80 | 126.67 |
| 21 | Dasatinib | 4.20 | 140.00 |
| 22 | Deferasirox | 5.90 | 196.67 |
| 23 | Deferiprone | 12.00 | 400.00 |
| 24 | Dexlansoprazole | 5.50 | 183.33 |
| 25 | Dextromethomorphan Hydrobromide Monohydrate | 20.00 | 666.67 |
| 26 | Donepezil | 4.20 | 140.00 |
| 27 | Donepezil Hydrochloride | 4.50 | 150.00 |
| 28 | Doxazosin Mesylate | 7.90 | 263.33 |
| 29 | Duloxetine Hydrochloride | 4.20 | 140.00 |
| 30 | Edoxaban | 4.10 | 136.67 |
| 31 | Enalapril Maleate | 10.50 | 350.00 |
| 32 | Esomeprazole Magnesium Trihydrate | 7.20 | 240.00 |
| 33 | Favipiravir | 3.90 | 130.00 |
| 34 | Fluvoxamine Maleate | 9.00 | 300.00 |
| 35 | Hydroxy Chloroquine Sulfate | 12.00 | 400.00 |
| 36 | Labetalol Hydrochloride | 10.00 | 333.33 |
| 37 | Lamivudine | 4.50 | 150.00 |
| 38 | Lamotrigine | 4.40 | 146.67 |
| 39 | Lansoprazole | 5.50 | 183.33 |
| 40 | Levetiracetam | 12.00 | 400.00 |
| 41 | Levofloxacin Hemihydrate | 8.00 | 266.67 |
| 42 | Linagliptin | 4.80 | 160.00 |
| 43 | Loratadine | 4.00 | 133.33 |
| 44 | Mirabegron | 5.00 | 166.67 |
| 45 | Mirtazapine | 7.50 | 250.00 |
| 46 | Montelukast Sodium | 4.50 | 150.00 |
| 47 | Mycophenolate Mofetil | 6.00 | 200.00 |
| 48 | Netarsudil | 4.60 | 153.33 |
| 49 | Nitrofurantoin | 5.20 | 173.33 |
| 50 | Olanzapine | 5.50 | 183.33 |
| 51 | Omeprazole | 18.00 | 600.00 |
| 52 | Omeprazole Magnesium | 5.10 | 170.00 |
| 53 | Oseltamivir Phosphate | 6.60 | 220.00 |
| 54 | Palbociclib | 4.90 | 163.33 |
| 55 | Pantoprazole Sodium Sesquihydrate | 10.20 | 340.00 |
| 56 | Paroxetine Hydrochloride Hemihydrate | 4.10 | 136.67 |
| 57 | Peramivir | 4.20 | 140.00 |
| 58 | Perampanel | 4.20 | 140.00 |
| 59 | Perindopril tert-butyl Amine | 4.50 | 150.00 |
| 60 | Pimavanserin Tartrate | 4.20 | 140.00 |
| 61 | Pirfenidone | 5.50 | 183.33 |
| 62 | Posaconazole | 4.20 | 140.00 |
| 63 | Prasugrel | 4.10 | 136.67 |
| 64 | Pregabalin | 12.00 | 400.00 |
| 65 | Rabeprazole Sodium | 5.20 | 173.33 |
| 66 | Raloxifene Hydrochloride | 5.10 | 170.00 |
| 67 | Ramipril | 5.90 | 196.67 |
| 68 | Ranolazine | 5.00 | 166.67 |
| 69 | Remdesivir | 4.20 | 140.00 |
| 70 | Repaglinide | 4.10 | 136.67 |
| 71 | Ribavirin | 4.50 | 150.00 |
| 72 | Ritonavir | 4.90 | 163.33 |



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| S. No | Product Name | Quantity | |
|---|---|---|---|
| | | MT/Month | Kg/ Day |
| 73 | Rivaroxaban | 5.20 | 173.33 |
| 74 | Rosuvastatin Calcium | 5.50 | 183.33 |
| 75 | Selexipag | 4.90 | 163.33 |
| 76 | Sofosbuvir | 3.90 | 130.00 |
| 77 | Sumatriptan Succinate | 4.20 | 140.00 |
| 78 | Tadalafil | 4.80 | 160.00 |
| 79 | Tenofovir Disoproxil Fumarate | 4.80 | 160.00 |
| 80 | Tolvaptan | 5.20 | 173.33 |
| 81 | Trazadone Hydrochloride | 12.30 | 410.00 |
| 82 | Ursodiol | 5.20 | 173.33 |
| 83 | Valacyclovir Hydrochloride | 25.00 | 833.33 |
| 84 | Valganciclovir Hydrochloride | 4.10 | 136.67 |
| 85 | Vildagliptin | 5.20 | 173.33 |
| 86 | Voglibose | 4.20 | 140.00 |
| 87 | Vonoprazan Fumarate | 4.35 | 145.00 |
| 88 | Voriconazole | 4.90 | 163.33 |
| 89 | (S)-(-)-1.2.4-Butanetriol | 8.00 | 266.67 |
| 90 | (S)-(-)-3-Hydroxytetrahydrofuran | 2.00 | 66.67 |
| 91 | (-) Methyl-trans 4 (4-fluoro phenyl)-N-Methyl Nipecotinate hydrobromide | 7.00 | 233.33 |
| 92 | 8 Chloro 10,11 Dihydro-4-Aza-5H dibenzo(Ad) Cycloheptaene | 5.00 | 166.67 |
| 93 | N-(1.4 Benzodioxan-2-Carbonyl) Piperazine | 11.00 | 366.67 |
| 94 | 5-Methyl-2(1H)-Pyridinone | 50.00 | 1666.67 |
| 95 | Methyl (S) -2-Oxo-2 (2-Thienyl) Ethyl Amino – (2-Chloro Phenyl) Acetate | 2.00 | 66.67 |
| 96 | 7-chloro-5-(2-chlorophenyl)-1,3-dihydro-3-hydroxyl-2H-1,4- benzodiazeppin-2-one | 15.00 | 500.00 |
| 97 | Trans(-)-1-methyl-3-(1,3-benzodioxol-5-yloxy)-4-(4-fluorophenyl)piperdine | 3.20 | 106.67 |
| 98 | 5-methoxy-1- [4-(tri fluoro methyl)-phenyl]-pentanone | 33.50 | 1116.67 |
| 99 | Levocarnitine | 4.80 | 160.00 |
| 100 | 2-(Trifluoromethyl)Thyazole-5-yl)Methanamine | 5.20 | 173.33 |
| 101 | Vonoprazan | 4.00 | 133.33 |
| **Total (Any 37 products will be manufactured at any given point of time)** | | **428.50** | **14283.33** |

## LIST OF BY-PRODUCTS & ITS QUANTITIES

| S.No | Name of the Product | Name of the By-product | Quantity | |
|---|---|---|---|---|
| | | | Kg/day | MT/ Month |
| 1 | Abacavir | Triethylamine hydrochloride | 111.70 | 3.35 |
| | | Ethanol | 112.20 | 3.37 |
| 2 | Apixaban | Morpholine | 44.70 | 1.34 |
| 3 | Argatroban | Triethylamine hydrochloride | 131.80 | 3.95 |
| 4 | Aripiprazole | Sodium bromide | 155.10 | 4.65 |
| 5 | Avanafil | N,N-Dicyclohexyl urea | 792.60 | 23.78 |
| 6 | Baloxavir carboxyl | Benzyl chloride | 41.90 | 1.26 |
| 7 | Bilastine | Sodium –p-toulene sulfonate | 82.75 | 2.48 |
| | | Potassium P toluene sulfonate | 79.80 | 2.39 |
| 9 | Brinzolamide | P-toluene sulphonic acid | 71.30 | 2.14 |
| 10 | Brivaracetam | 1,1,1,3,3,3Hexamethyldisilazane | 111.40 | 3.34 |
| 11 | Clopidogrel Bisulphate | TEA Hydrochloride | 171.85 | 5.16 |
| | | P-toluene Sulphonic acid | 185.00 | 5.55 |
| 12 | Darunavir | Tert-Butanol | 27.90 | 0.84 |

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| | | | | |
|---|---|---|---|---|
| | | Triethylamine Hydrochloride | 51.75 | 1.55 |
| 13 | Dasatinib | Triethylamine hydrochloride | 54.775 | 1.64 |
| 14 | Donepezil Hydrochloride | Potassium chloride | 64.50 | 1.94 |
| | | Methoxy ethanol | 110.45 | 3.31 |
| | | Aluminium Hydroxide | 56.60 | 1.70 |
| | | Dimethyl sulphide | 37.80 | 1.13 |
| 15 | Donepezil | Dimethyl sulphide | 33.50 | 1.01 |
| | | Tert- Butanol | 42.20 | 1.27 |
| 16 | Duloxetine Hydrochloride | Oxalic acid | 44.90 | 1.35 |
| 17 | Edoxaban | Tri ethylamine Hydrochloride | 60.10 | 1.80 |
| 18 | Favipiravir | Sodium bromide | 134.40 | 4.03 |
| | | Potassium chloride | 71.85 | 2.16 |
| 19 | Labetalol Hydrochloride | Boric acid | 381.60 | 11.45 |
| 20 | Lamivudine | L-methanol | 132.10 | 3.96 |
| | | Boric acid | 52.30 | 1.57 |
| 21 | Lansoprazole | Sodium acetate | 78.20 | 2.35 |
| | | Acetic acid | 57.25 | 1.72 |
| | | Potassium nitrate | 81.10 | 2.43 |
| 22 | Loratadine | Potassium chloride | 62.25 | 1.87 |
| 23 | Mirabegron | Acetic acid | 117.50 | 3.53 |
| | | Ammonium sulphate | 128.20 | 3.85 |
| 24 | Oseltamivir phosphate | Tert butyl chloride | 64.02 | 1.92 |
| 25 | ParoxilineHydrochloride hemihydrates | Potassium chloride | 31.30 | 0.94 |
| | | phenol | 39.50 | 1.19 |
| 27 | Perampanel | Potassium bromide | 60.10 | 1.80 |
| | | Fumaric acid | 52.20 | 1.57 |
| 28 | Prasugrel | Succinamide | 76.40 | 2.29 |
| | | Sodium bromide | 66.00 | 1.98 |
| 29 | Pregabalin | Ammonium chloride | 1030.00 | 30.90 |
| 30 | Rabeprazole sodium | Sodium acetate | 100.50 | 3.02 |
| | | Acetic acid | 73.55 | 2.21 |
| 31 | Ramipril | Imidazole | 95.50 | 2.87 |
| | | Sodium Fumarate | 92.25 | 2.77 |
| | | Toluene | 53.10 | 1.59 |
| 32 | Ritonavir | Sodium acetate | 93.85 | 2.82 |
| | | Boric acid | 43.90 | 1.32 |
| | | 4-Nitro phenol | 51.40 | 1.54 |
| | | Sodium phosphate | 33.45 | 1.00 |
| | | 4-Nitro phenol | 51.20 | 1.54 |
| 33 | Rivaroxaban | Potassium chloride | 63.90 | 1.92 |
| | | Triethylamine hydrochloride | 103.10 | 3.09 |
| 34 | Rosuvastatin calcium | Metachloro benzoic acid | 420.25 | 12.61 |
| | | Ethanol | 38.00 | 1.14 |
| 35 | Sumatriptan Succinate | Potassium phosphate | 377.70 | 11.33 |
| 36 | Tolvaptan | Diisopropylethyl amine hydrochloride salt | 185.50 | 5.57 |
| | | Diisopropyl ethyl amine oxalate salt | 97.60 | 2.93 |
| 37 | Trazadone hydrochluride | Sodium bromide | 232.70 | 6.98 |
| 38 | Valacyclovir hydrochloride monohydrate | Acetic acid | 349.15 | 10.47 |
| 39 | Voglibose | Toluene | 227.30 | 6.82 |
| 40 | S(-)-1,2,4 Butane trio | Boric acid | 194.30 | 5.83 |
| 41 | (S)-(+)-3Hydroxy Tetrahydrofuran | Boric acid | 23.80 | 0.71 |



CHAIRMAN, SEAC

| | | | | |
|---|---|---|---|---|
| 42 | (-)Methyl Trans -4-(-4-Fluoro phenyl)-N-Methyl nipecotinate HBr | Sulfuric acid | 100.60 | 3.02 |
| | | Sodium perborate | 67.50 | 2.03 |
| | | Triethylamine hydro chloride | 118.70 | 3.56 |
| 43 | 2-(trifluoromethyl) thyazole-5-yl) methylamine | Trifluoro-acetic acid | 126.10 | 3.78 |
| 44 | 5-methoxy-1-(4(trifluoro methyl) phenyl)-1-pentanone | Sodium bromide | 719.10 | 21.57 |
| | | Magnesium oxychloride | 455.90 | 13.68 |
| 45 | 5-methyl-2(1h)-pyridinone | Sodium bisulfate | 2131.70 | 63.95 |
| 46 | 8-chlorohydroxy 11N-Methyl Piperidine Azetidine (I8) | Phosphoryl chloride | 120.10 | 3.60 |
| | | Triethyl amine | 64.40 | 1.93 |
| | | Magnesium hydroxide | 39.40 | 1.18 |
| 47 | Methyl (s)-2-oxo-2(2-thienyl) ethyl amino- (2-chloro phenyl) acetate | Pyrrolidine | 41.10 | 1.23 |
| | | 2,3Dihydroxy Succinic acid | 41.00 | 1.23 |
| | | Pyridine | 21.70 | 0.65 |
| | | Bromine | 44.00 | 1.32 |
| 48 | N-(1, 4benzodioxan-2-carbonyl)Piperazine base | Potassium bromide | 572.20 | 17.17 |
| 49 | trans (+)-1-methyl-3-(1, 3-benzodioxol-5-yloxy)-4-(4 fluorophenyl) Piperidine | Triethylamine hydrochloride | 96.30 | 2.89 |
| 50 | Vonoprazan | Sodium bromide | 44.30 | 1.33 |
| | | Ammonium acetate | 34.00 | 1.02 |
| | | Boric acid | 20.60 | 0.62 |

**Details of Utilities, Stacks & Air pollution control equipments:**

| S. No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Coal fired Boilers:**<br>Existing: 1 x 3.0 TPH<br>Proposed: 1 x 3.0 TPH<br>Proposed: 1 x 6.0 TPH | 30<br>30<br>35 | Cyclone separator followed by suitable pack of Bag filters |
| 2 | **Thermic fluid heater:**<br>Proposed: 1 x 2 Lakh K.cal/hr(Diesel-Fired) | 11 | Cyclone separator |
| 3 | **DG Sets:**<br>Existing: 1 x 500 KVA,<br>Proposed: 1 x 500 KVA & 2 x 1000 KVA | Adequate height | Acoustic enclosure & Silencer |

The process emissions containing Sulphur dioxide, Chloromethane, Hydrogen Chloride, Hydrogen Bromide, Ammonia & Hydrogen Fluoride are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide, Oxygen & Nitrogen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen are to be safely diffused by using Nitrogen through Flame arrestor, Propane are to be safely dispersed into the atmosphere by using Flame arrestor and Hydrogen Sulfide are to be are to be routed by using Hydrogen Peroxide through Multi Stage Scrubber system.

CHAIRMAN, SEAC

**Details of Water requirement:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 98.11 | 0.00 | 98.11 |
| 2 | Washings | 0.00 | 15.00 | 15.00 |
| 3 | Boilers make up | 30.90 | 40.10 | 71.00 |
| 4 | Cooling towers make up | 155.92 | 40.08 | 196.00 |
| 5 | Scrubbing system | 20.50 | 0.00 | 20.50 |
| 6 | Domestic | 0.00 | 27.00 | 27.00 |
| 7 | RO Water input | 60.00 | 0.00 | 60.00 |
| 8 | Gardening | 0.00 | 57.50 | 57.50 |
| | **Total** | **365.43** | **179.68** | **545.11** |

**Details of Effluent generation, treatment & disposal:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment Method |
|---|---|---|---|---|---|
| 1 | Process | 95.30 | 23.83 | 119.13 | Zero Liquid Discharge System ie., **HTDS:** Stripper, MEE & ATFD. **LTDS:** Biological ETP & RO<br><br>Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers. |
| 2 | Washings | 0.00 | 15.00 | 15.00 | |
| 3 | Boilers Blow down | 0.00 | 11.00 | 11.00 | |
| 4 | Cooling towers Bleed off | 0.00 | 20.00 | 20.00 | |
| 5 | Scrubbing system | 21.50 | 0.00 | 21.50 | |
| 6 | RO Rejects | 20.00 | 0.00 | 20.00 | |
| 7 | Domestic | 0.00 | 24.00 | 24.00 | |
| **Total:** | | **136.8** | **93.83** | **230.63** | |

**Details of Solid & Hazardous Waste:**

| S. No | Name of the Hazardous Waste | Quantity | Disposal Method |
|---|---|---|---|
| 1 | Organic solid waste (Process Residue) | 12229 Kg/Day | Shall be sent to Cement Industries |
| 2 | Spent Carbon | 347 Kg/Day | |
| 3 | Solvent Distillation Residue | 2530 Kg/Day | |
| 4 | Inorganic Solid Waste | 4564 Kg/Day | Shall be sent to TSDF |
| 5 | ETP Sludge | 280 Kg/Day | |
| 6 | MEE Salts | 8547 Kg/Day | |
| 7 | Organic distillate from MEE Stripper | 2580 Kg/Day | Shall be sent to Cement Industries |
| 8 | Used Oils | 5000 Ltrs/Annum | Shall be sent to SPCB Authorized Agencies for Reprocessing/ Recycling |
| 9 | Detoxified Containers | 1500 No's / Month | After Detoxification shall be sent to SPCB Authorized Agencies |
| 10 | Used Lead Acid Batteries | 8 No's/ Annum | Send back to suppliers for buyback of New Batteries |
| 11 | Ash from boilers | 13.65 TPD | Shall be sent to Brick Manufacturers |

The SEAC observed that the proponent is proposing expansion of the project from 4.151 TPM to 428.50 TPM, which becomes more than 50% of the permitted production capacity. Hence, the SEAC decided to constitute a sub-committee with the following members to inspect the unit, verify records and submit report on the following:

i) Project modification
ii) Project cost

CHAIRMAN, SEAC

iii) ZLD System & its adequacy
iv) ETP modifications
v) Products: Comparison of existing and proposed (which are going for expansion)
vi) Verify Production details w.r.t. permitted for the past one year, as per ER-I/GST.
vii) Raw material: Comparison of existing and proposed (which are going for expansion)
viii) Solid waste: Comparison of existing and proposed (which are going for expansion)
ix) Impact on surroundings
x) Applicability of S.O.804 (E), dt.14.03.2017 & S.O. 1030 (E) dt.08.03.2018 issued by the MoEF&CC, GoI.
xi) Implementation of disaster management plan and safety measures in the existing project and proposed expansion.
xii) Greenbelt development
xiii) Justification of project w.r.t. G.O.Ms. No. 95, dt. 21.09.2007; G.O.Ms. No. 64, dt. 25.07.2013; & G.O.Ms. No. 24, dt.24.04.2019.

Members of Sub-Committee:
1. Sri Suresh
2. Sri Sivakumar
Dr. Vijaya Reddy

| | |
|---|---|
| **Agenda Item No. 12** | **M/s. Archimedis Laboratories Pvt. Ltd., Sy. No: 238, Dothigudem (V), Pochampally (M), Yadadri Bhuvanagiri District - Environmental Clearance (Expansion) - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/172843/2020 (EC)** |

The representative of the project proponent Sri M.V. Reddy; and Sri Y.V. Prasad of M/s Rightsource Industrial Solutions Pvt. Ltd., Hyderabad, attended and made a presentation before the SEAC.

The SEAC noted that proponent obtained EC from the MoEF&CC, GoI dt.24.07.2007 for existing project.

The proponent obtained CFE on 24.10.2011 for manufacture of Bulk Drugs & Intermediates

CFO issued on 23.04.2016 from TSPCB and the unit is operating.

The proponent submitted Self-compliance Report for conditions stipulated in EC & CFO.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019 of the EFS&T Dept., GoAP

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project after proposed Expansion as follows:

Total area is 16,190.46 Sq.m. out of which Green area is 5,347.77 Sq.m. (33.03 %).

Nearest human habitation is Anthammagudem (V) @ 1.18 km; Water body near Dharmajigudem @ 2.38 km; Nearest RF is Lakkaram RF @ 0.56 km from the industry.

Project Cost for proposed expansion is Rs. 6.0 Crores. Budget for Environmental protection towards Capital Cost is Rs. 178.0 Lakhs and Recurring Cost is Rs. 30.0 Lakhs/annum. Budget for CER is Rs. 6.0 lakhs in first 5 years.

CHAIRMAN, SEAC

The details of Products, by-products & production capacity are as following:

## LIST OF PROPOSED PRODUCTS & ITS QUANTITIES

| S. No | Product Name | Quantity | |
|---|---|---|---|
| | | MT/Month | Kg/ Day |
| 1 | (S)-(-)-3-(Dimethyl amino)-1-(2-Thienyl)-1-propanol | 5.00 | 166.67 |
| 2 | 2,4- Dihydro-4-(4-4 hydroxy phenyl)- 1-piperazinyl )-2-(1-methyl propyl)-3H-1,2,4-Triazole-3-one (Itraconazole intermediate) | 5.00 | 166.67 |
| 3 | 2-[3-methyl -4-(2.2.2-trifluoroethoxy)-2-pyridinyl ] 5methylthio -1H-benzimidazole (Lansoprazole Sulfide Intermediate) | 1.00 | 33.33 |
| 4 | 4-Chloro Butyraldehyde Diethyl acetal | 1.00 | 33.33 |
| 5 | 4-Chloro-1 hydroxy butane sulphonic acid sodium salt | 10.00 | 333.33 |
| 6 | 4-Dimethyl amino butyraldehyde diethyl acetal | 5.00 | 166.67 |
| 7 | Almotriptan Malate | 0.50 | 16.67 |
| 8 | Cis -2-[2,4-Di Chloro Phenyl] -2-[1H-1,2,4-Triazole -1-yl Methyl ]-1,3 Dioxalane –4 yl Methanol (Itraconazole intermediate) | 4.00 | 133.33 |
| 9 | Cis -2-[2,4-Di chloro Phenyl]-2-[1H-1,2,4-Triazole -1-yl methyl]-1,3 Dioxalane-4yl Methyl ] Methane Sulfonate (Itraconazole intermediate) | 4.00 | 133.33 |
| 10 | Duloxetine Hydrochloride | 2.00 | 66.67 |
| 11 | Itraconazole | 1.00 | 33.33 |
| 12 | Ketorolac tromethamine | 2.00 | 66.67 |
| 13 | 2-Propyl-1H-imidazole-4,5-dicarboxylic acid diethyl ester | 2.00 | 66.67 |
| 14 | Lansoprazole | 0.50 | 16.67 |
| 15 | Olmesartan Medoxomil | 0.50 | 16.67 |
| 16 | 2-Chloromethyl-3,4-Dimethoxy-Pyridine (Pantoprazole chloro compound) | 5.00 | 166.67 |
| 17 | Pantoprazole Sodium | 1.00 | 33.33 |
| 18 | Sumatriptan Succinate | 1.00 | 33.33 |
| 19 | Zolmitriptan | 0.50 | 16.67 |
| | Total | 51.00 | 1700.00 |

## LIST OF BY-PRODUCTS & ITS QUANTITIES

| S. No | Name of the Product | Name of the By-Product | Quantity | |
|---|---|---|---|---|
| | | | Kg/Day | MT/Month |
| 1 | 2, 4-Di Hydro-4-[4-[4-(4hydroxy Phenyl)-1-Piperaziny]]-2-(1-Methylpropyl)-3h-1, 2, 4-Triazole-3-One (Itraconazole Intermediate) | Hydrobromic acid (20%) | 2250.00 | 67.50 |
| 2 | 2[4-(2.2,2-Tri Fluoro Ethoxy)-3-Methyl Pyridinyl]Methyl Thio]-1h-Benzimidazole | Acetic acid (70%) | 66.30 | 1.99 |
| | | Ammonium sulphate | 123.30 | 3.70 |
| 3 | Lansoprazole | Acetic acid (70%) | 41.00 | 1.23 |
| | | Ammonium sulphate | 10.00 | 0.30 |
| 4 | Olmesartan Medoxomil | Hydrobromic acid (20%) | 3.00 | 0.09 |
| 5 | 2-Chloromethyl-3,4-Dimethoxy-Pyridine (Pantoprazole chloro compound) | Potassium carbonate | 83.30 | 2.50 |
| | | Phosphoric acid | 235.90 | 7.08 |
| 6 | Zolmitriptan | Ammonium sulphate | 17.60 | 0.53 |

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**Details of Utilities, Stacks & Air pollution control equipments after expansion:**

| S. No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Coal fired Boilers:**<br>Existing: 1 x 3.0 TPH<br>Proposed: 2 x 6.0 TPH<br>1 x 3.0 TPH (Standby) | 30<br>35 | Cyclone separator followed by suitable pack of Bag filters |
| 2 | **Thermic fluid heater:**<br>Existing: 1 x 2 Lakh K.cal/hr | 11 | Cyclone separator |
| 3 | **DG Sets:**<br>Proposed:1 x 500 KVA &<br>1 x 1000 KVA | Adequate height | Acoustic enclosure & Silencer |

The **process emissions** containing Sulphur dioxide, Hydrogen Chloride, Ammonia & Hydrogen Fluoride are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide & Oxygen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen are to be safely diffused by using Nitrogen through Flame arrestor.

**Details of Water requirement after expansion:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 18.89 | 0.00 | 18.89 |
| 2 | Washings | 0.00 | 2.00 | 2.00 |
| 3 | Boilers make up | 74.00 | 14.00 | 88.00 |
| 4 | Cooling towers make up | 97.40 | 14.60 | 112.00 |
| 5 | Scrubbing system | 4.00 | 0.00 | 4.00 |
| 6 | Domestic | 0.00 | 18.00 | 18.00 |
| 7 | Gardening | 0.00 | 8.00 | 8.00 |
| | **Total** | **194.29** | **56.60** | **250.89** |

**Details of Effluent generation, treatment & disposal after expansion:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment Method |
|---|---|---|---|---|---|
| 1 | Process | 18.02 | 3.36 | 21.38 | Zero Liquid Discharge System ie.,<br>**HTDS**: Stripper, MEE & ATFD.<br>**LTDS**: Biological ETP & RO.<br><br>Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers. |
| 2 | Washings | 0.00 | 2.00 | 2.00 | |
| 3 | Boilers Blow down | 0.00 | 13.00 | 13.00 | |
| 4 | Cooling towers Bleed off | 0.00 | 12.00 | 12.00 | |
| 5 | Scrubbing system | 4.00 | 0.00 | 4.00 | |
| 6 | Domestic | 0.00 | 16.00 | 16.00 | |
| **Total:** | | **22.02** | **46.36** | **68.38** | |

**Details of Solid & Hazardous Waste after expansion:**

| S. No | Name of the Hazardous Waste | Quantity | Disposal Method |
|---|---|---|---|
| 1 | Organic solid waste (Process Residue) | 742 Kg/Day | Shall be sent to Cement Industries |
| 2 | Spent Carbon | 12 Kg/Day | |
| 3 | Solvent Distillation Residue | 427 Kg/Day | |
| 4 | Inorganic Solid Waste | 78 Kg/Day | Shall be sent to TSDF |
| 5 | ETP Sludge | 90 Kg/Day | |

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| S. No | Name of the Hazardous Waste | Quantity | Disposal Method |
|---|---|---|---|
| 6 | MEE Salts | 2660 Kg/Day | |
| 7 | Organic distillate from MEE Stripper | 750 Kg/Day | Shall be sent to Cement Industries |
| 8 | Used Oils | 350 Ltrs/Annum | Shall be sent to SPCB Authorized Agencies for Reprocessing/Recycling |
| 9 | Detoxified Containers | 450 No's / Month | After Detoxification shall be sent to SPCB Authorized Agencies |
| 10 | Used Lead Acid Batteries | 4 No's/ Annum | Send back to suppliers for buyback of New Batteries |
| 11 | Ash from boilers | 16275 Kg/Day | Shall be sent to Brick Manufacturers |

The SEAC observed that the proponent is proposing expansion of the project from 20.0 TPM to 51.0 TPM, which becomes more than 50% of the permitted production capacity. Hence, the SEAC decided to constitute a sub-committee with the following members to inspect the unit, verify records and submit report on the following:

i) Project modification
ii) Project cost
iii) ZLD System & its adequacy
iv) ETP modifications
v) Products: Comparison of existing and proposed (which are going for expansion)
vi) Verify Production details w.r.t. permitted for the past one year, as per ER-I/GST.
vii) Raw material: Comparison of existing and proposed (which are going for expansion)
viii) Solid waste: Comparison of existing and proposed (which are going for expansion)
ix) Impact on surroundings
x) Applicability of S.O.804 (E), dt.14.03.2017 & S.O. 1030 (E) dt.08.03.2018 issued by the MoEF&CC, GoI.
xi) Implementation of disaster management plan and safety measures in the existing project and proposed expansion.
xii) Greenbelt development
xiii) Justification of project w.r.t. G.O.Ms. No 95, dt. 21.09.2007; G.O Ms. No. 64, dt. 25.07.2013; & G.O Ms. No. 24, dt.24.04.2019.

Members of Sub-Committee:
1. Sri Suresh .
2. Sri Sivakumar
Krishna Reddy .

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|---|---|
| **Agenda Item No. 13** | **M/s. KRS Pharmaceuticals Pvt. Ltd., Sy. No. 10 and its Parts, IDA Gaddapotharam, Jinnaram (M), Sangareddy District - Environmental Clearance - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/173089/2020 (EC)** |

The representative of the project proponent Sri M.V.S.R. Prasad; and Sri Y.V. Prasad of M/s. Rightsource Industrial Solutions Pvt. Ltd., Hyderabad, attended and made a presentation before the SEAC.

The SEAC noted that the proponent obtained NOC dt. -12-1992 in the name of M/s. Vinay Chem Pvt. Ltd. issued by the APPCB based on the Inspection Report dt. 24.08.1992. Subsequently, M/s. KRS Pharmaceuticals acquired M/s. Vinay Chem Pvt. Ltd in the year 2002. The unit is operating with latest CFO order dt.11.01.2018 (valid upto 30.04.2018) issued by the TSPCB in the name of M/s. KRS Pharmaceuticals to manufacture Bulk Drug Intermediates with total production capacity of 65 kg/day.

The proponent submitted Self-compliance Report for conditions stipulated in CFO.



CHAIRMAN, SEAC

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019, of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the proposed project as follows:

Total area is 8,090.0 Sq.m. out of which Green area is 1,500.02 Sq m (18.54%). In addition to 18.54% of greenbelt within the plant site, proponent has purchased additional land around 1.0 acre in Sy No's 10 Parts, IDA, Gaddapotharam (V), Jinnaram (Mandal), Sangareddy (Dt), Telangana State to develop greenbelt.

Nearest human habitation is Alinagar (V) @ 0.82 km; Water body near Chetlapotharam @ 0.41 km; Nearest RF is Dundigal RF @ 0.50 km from the industry.

Project Cost for proposed project is Rs. 6.30 Crores. Budget for Environmental protection towards Capital Cost is Rs. 199.0 Lakhs and Recurring Cost is Rs. 24.0 Lakhs/annum. Budget for CER is Rs. 6.3 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

**LIST OF PROPOSED PRODUCTS & ITS QUANTITIES**

| S. No | Product Name | Quantity | |
|---|---|---|---|
| | | MT/Month | Kg/ Day |
| 1 | (2,3:4,5-BIS-o-(1-methylethylidene)-b-D-Fructopyranose) (Topiramate Intermediate) | 3.00 | 100.00 |
| 2 | [5(4-[2-(5-ethyl 2 pyridinyl) ethoxy] benyl]methylene]2,4thiozolidinedioe ( Pioglitazole Hydrochloride Intermediate) | 1.00 | 33.33 |
| 3 | 1,2,3Triacetyl5Deoxyribose(Capecitabine Intermediate) | 2.00 | 66.67 |
| 4 | 2,3:4,5 Bis-O-(1-Methyl ethylidene)-Fructopyranose azido sulphate (Topiramate Intermediate) | 2.00 | 66.67 |
| 5 | 2-Hydroxymethyl-3,5-dimethyl-4-methoxypyridine hydrochloride( Omeprazole Hydroxy) | 2.50 | 83.33 |
| 6 | 5-methoxy-(3,5-dimethyl-4-methoxy-2-pyridyl)-methylthiobenzimidazol(Omeprazole Sulphide intermediate ) | 5.00 | 166.67 |
| 7 | Acetyl cysteine | 9.00 | 300.00 |
| 8 | Ambroxol hydrochloride | 0.50 | 16.67 |
| 9 | Amrolfine IP HCl. | 0.50 | 16.67 |
| 10 | Bisacodyl | 1.00 | 33.33 |
| 11 | Candesartan Cilexetil | 0.50 | 16.67 |
| 12 | Capecitabine | 0.50 | 16.67 |
| 13 | Choline Salicylate Solution | 4.50 | 150.00 |
| 14 | Clopidogrel Bisulphate | 2.00 | 66.67 |
| 15 | Dabigatran Etexilate mesylate III | 0.45 | 15.00 |
| 16 | Deferasirox | 1.00 | 33.33 |
| 17 | Deferiprone | 4.50 | 150.00 |
| 18 | Dexlansoprazole | 1.00 | 33.33 |
| 19 | Dextro Methorphan Hydrobromide | 2.00 | 66.67 |
| 20 | Diltiazem hydrochloride | 1.00 | 33.33 |
| 21 | Docusate Sodium Powder | 2.00 | 66.67 |
| 22 | Domperidone | 1.00 | 33.33 |
| 23 | Drotaverine hydrochloride | 0.50 | 16.67 |
| 24 | Duloxetine hydrochloride | 0.50 | 16.67 |
| 25 | Dutasteride | 0.50 | 16.67 |
| 26 | Eberconazoloe IP | 0.50 | 16.67 |
| 27 | Esomeprazole Magnesium Trihydrate | 5.00 | 166.67 |
| 28 | Etodolac | 2.00 | 66.67 |

CHAIRMAN, SEAC

| S. No | Product Name | Quantity | |
|---|---|---|---|
| | | MT/Month | Kg/ Day |
| 29 | Fexofenadine hydrochloride | 1.80 | 60.00 |
| 30 | Fluconazole | 2.00 | 66.67 |
| 31 | Gliclazide | 1.00 | 33.33 |
| 32 | Glipizide | 1.00 | 33.33 |
| 33 | Itraconazole | 1.00 | 33.33 |
| 34 | Lacosamide | 1.50 | 50.00 |
| 35 | Lamotrigine | 1.00 | 33.33 |
| 36 | 2-(2,3-Dichlorphenyl)-2-(guanidinylimino)acetonitrile | 2.00 | 66.67 |
| 37 | Lansoprazole | 0.50 | 16.67 |
| 38 | Luliconazole IH | 0.50 | 16.67 |
| 39 | Mebeverine hydrochloride | 0.50 | 16.67 |
| 40 | Methyl 2- {[2. -cyanobiphenyl-4 -yl) methyl] amino-3methylbutanoate hydrochloride (Valsartan Intermediate) | 2.50 | 83.33 |
| 41 | Montelukast sodium | 0.50 | 16.67 |
| 42 | Omeprazole | 9.00 | 300.00 |
| 43 | Palonosetron HCl | 1.00 | 33.33 |
| 44 | Pantoprazole Sodium Sesquihydrate | 1.00 | 33.33 |
| 45 | Phenazopyridine hydrochloride | 9.00 | 300.00 |
| 46 | R-2-Amino-N-benzyl-3-methoxy propanamide (Lacosamide intermediate) | 1.50 | 50.00 |
| 47 | Rabeprazole sodium | 1.00 | 33.33 |
| 48 | Rosuvastatin calcium | 0.50 | 16.67 |
| 49 | Sertaconazole Nitrate | 0.50 | 16.67 |
| 50 | Silodosin | 0.50 | 16.67 |
| 51 | Sodium PICO Sulphate | 1.00 | 33.33 |
| 52 | Tamsulosin hydrochloride | 0.25 | 8.33 |
| 53 | Topiramate | 4.50 | 150.00 |
| 54 | Torsemide | 4.50 | 150.00 |
| 55 | Valsartan | 1.50 | 50.00 |
| 56 | Venlafaxine hydrochloride | 0.50 | 16.67 |
| Total | | 108.00 | 3600.00 |

## LIST OF BY-PRODUCTS & ITS QUANTITIES

| S. No | Name of the product | Name of the By-Product | Quantity | |
|---|---|---|---|---|
| | | | Kg/Day | MT/Month |
| 1 | 2, 3:4, 5-Bis-O-(1-Methylethylidene)-Beta-D-Fructopyranose Sulfuryl Chloride (Topiramate Intermediate) | Pyridine Hydrochloride | 35.90 | 1.08 |
| 2 | 2-Hydroxy Methyl-3, 5-Dimethyl-4-Methoxy pyridine (Omeprazole Hydroxy) | Ammonium sulphate | 68.80 | 2.06 |
| 3 | 5-Methoxy-2-(4-Methoxy-3,5-Dimethyl-Pyridin-2-Ylmethylthio)-1h-Benzo[D] Imidazole (Omeprazole sulphide ) | Ammonium sulphate | 75.80 | 2.27 |
| 4 | Candesartan Cilexetil | Sodium bromide | 16.70 | 0.50 |
| | | Triethylamine hydrochloride | 7.30 | 0.22 |
| 5 | Duloxetine Hydrochloride | Oxalic acid | 5.30 | 0.16 |
| 6 | Fexofenadine Hydrochloride | Boric acid | 23.30 | 0.70 |
| | | Sodium methoxide | 20.30 | 0.61 |
| 7 | Mebeverine hydrochloride | Manganese oxide | 6.60 | 0.20 |
| | | Potassium chloride | 5.60 | 0.17 |
| | | Sodium bromide | 5.40 | 0.16 |
| | | Carbonic acid | 2.70 | 0.08 |
| | | Sodium bromide | 4.40 | 0.13 |



CHAIRMAN, SEAC

| | | | | |
|---|---|---|---|---|
| 8 | Rabeprazole Sodium | Sodium acetate | 19.30 | 0.58 |
| | | Acetic acid | 14.10 | 0.42 |
| 9 | Rosuvastatin Calcium | Meta Chloro benzoic acid | 29.30 | 0.88 |
| | | Ethanol | 3.00 | 0.09 |
| | | Tartaric acid | 9.10 | 0.27 |
| 10 | Silidosin | Benzoic acid | 6.10 | 0.18 |
| 11 | Topiramate | Pyridine Hydrochloride | 58.80 | 1.76 |

**Details of Utilities, Stacks & Air pollution control equipments:**

| S. No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Coal fired Boilers:** Proposed: 1 x 1.0 TPH & 1 x 2.0 TPH | 30 30 | Cyclone separator followed by suitable pack of Bag filters |
| 2 | **Thermic fluid heater:** Proposed: 1 x 2 Lakh K.cal/hr | 11 | Cyclone separator |
| 3 | **DG Sets:** Existing: 1 x 250 KVA Proposed: 1 x 380 KVA | Adequate height | Acoustic enclosure & Silencer |

The **process emissions** containing Sulphur dioxide, Chloromethane, Hydrogen Chloride, Hydrogen Bromide, Ammonia, Hydrogen Iodide & Hydrogen Fluoride are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide & Oxygen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen are to be safely diffused by using Nitrogen through Flame arrestor.

**Details of Water requirement:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 33.03 | 0.00 | 33.03 |
| 2 | Washings | 0.00 | 4.00 | 4.00 |
| 3 | Boilers make up | 3.00 | 15.00 | 18.00 |
| 4 | Cooling towers make up | 100.97 | 18.03 | 119.00 |
| 5 | Scrubbing system | 4.50 | 0.00 | 4.50 |
| 6 | Domestic | 0.00 | 4.50 | 4.50 |
| 7 | Gardening | 0.00 | 8.50 | 8.50 |
| | **Total** | **141.50** | **50.03** | 191.53 |

**Details of Effluent generation, treatment & disposal:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment Method |
|---|---|---|---|---|---|
| 1 | Process | 29.55 | 6.10 | 35.65 | Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO.<br><br>Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers. |
| 2 | Washings | 0.00 | 4.00 | 4.00 | |
| 3 | Boilers Blow down | 0.00 | 3.00 | 3.00 | |
| 4 | Cooling towers Bleed off | 0.00 | 12.00 | 12.00 | |
| 5 | Scrubbing system | 4.50 | 0.00 | 4.50 | |
| 6 | Domestic | 0.00 | 4.00 | 4.00 | |
| Total: | | **34.05** | **29.10** | **63.15** | |

CHAIRMAN, SEAC

Details of Solid & Hazardous Waste:

| S. No | Name of the Hazardous Waste | Quantity | Disposal Method |
|---|---|---|---|
| 1 | Organic solid waste (Process Residue) | 1755 Kg/Day | Shall be sent to Cement Industries/TSDF |
| 2 | Spent Carbon | 127 Kg/Day | |
| 3 | Solvent Distillation Residue | 692 Kg/Day | |
| 4 | Inorganic Solid Waste | 406 Kg/Day | Shall be sent to TSDF |
| 5 | ETP Sludge | 50 Kg/Day | |
| 6 | MEE Salts | 1786 Kg/Day | |
| 7 | Organic distillate from MEE Stripper | 480 Kg/Day | Shall be sent to Cement Industries |
| 8 | Used Oils | 130 Ltrs/Annum | Shall be sent to SPCB Authorized Agencies for Reprocessing/Recycling |
| 9 | Detoxified Containers | 600 No's / Month | After Detoxification shall be sent to SPCB Authorized Agencies |
| 10 | Used Lead Acid Batteries | 4 No's/ Annum | Send back to suppliers for buyback of New Batteries |
| 11 | Ash from boilers | 3675 Kg/Day | Shall be sent to Brick Manufacturers |

The SEAC observed that the proponent is proposing expansion of the project from 1.95 TPM to 108.0 TPM, which becomes more than 50% of the permitted production capacity. Hence, the SEAC decided to constitute a sub-committee with the following members to inspect the unit, verify records and submit report on the following:

i) Project modification
ii) Project cost
iii) ZLD System & its adequacy
iv) ETP modifications
v) Products: Comparison of existing and proposed (which are going for expansion)
vi) Verify Production details w.r.t. permitted for the past one year, as per ER-I/GSJ
vii) Raw material: Comparison of existing and proposed (which are going for expansion)
viii) Solid waste: Comparison of existing and proposed (which are going for expansion)
ix) Impact on surroundings
x) Applicability of S.O.801 (E), dt.14.03.2017 & S.O. 1030 (E) dt.08.03.2018 issued by the MoEF&CC, GoI.
xi) Implementation of disaster management plan and safety measures in the existing project and proposed expansion.
xii) Greenbelt development
xiii) Justification of project w.r.t. G.O.Ms. No. 95, dt. 21.09.2007; G.O.Ms. No. 64, dt. 25.07.2013; & G.O.Ms. No. 24, dt.24.04.2019.

Members of Sub-Committee.
1. Sri Suresh
2. Sri Priyakumar
Krishna Reddy.

| Agenda Item No. 14 | M/s. Vedgir Pharma, Sy. Nos: Parts of 281, 282 & 285, Pallepahad Village, Thurkapally Mandal, Yadadri-Bhongiri District - Environmental Clearance - Reg. |
|---|---|
| Proposal No. | SIA/TG/IND2/173243/2020 (EC) |

The representative of the project proponent Sri S. Mohan Reddy; and Sri Y.V. Prasad of M/s. Rightsource Industrial Solutions Pvt. Ltd., Hyderabad, attended and made a presentation before the SEAC.

Ch. Reddy
CHAIRMAN, SEAC

The SEAC noted that the proponent obtained CFE on 04.05.2009 for manufacture of Inorganic chemicals and also obtained latest CFO dt. 28.04.2017 from TSPCB.

Now, the proponent is proposing to manufacture Bulk Drugs & Intermediates by dropping the existing Inorganic Chemicals in the same plant premises

The proponent submitted Self-compliance Report for conditions stipulated in CFO.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019 of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the proposed project as follows:

Total area is 27,512.6 Sqm. out of which Green area is 10,968.0Sqm (39.8 %).

Nearest human habitation is Pallepahad (V) @ 0.27 km; Waterbody Near Pallepahad @ 0.70 km; Nearest RF is Malkapur RF @ 4.26 km from the industry.

Project Cost for proposed expansion is Rs. 25.0 Crores. Budget for Environmental protection towards Capital Cost is Rs. 145.0 Lakhs and Recurring Cost is Rs. 26.0 Lakhs/annum. Budget for CER is Rs. 25.0 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

**LIST OF PROPOSED PRODUCTS & ITS QUANTITIES**

| S. No | Product Name | Quantity | |
|---|---|---|---|
| | | MT/Month | Kg/ Day |
| 1 | 5-cyanophthalide | 3 | 100.00 |
| 2 | Allantoin | 5 | 166.67 |
| 3 | Avobenzone | 3 | 100.00 |
| 4 | Chlorphenesin | 3 | 100.00 |
| 5 | Diazolidinyl urea | 1 | 33.33 |
| 6 | Febantel | 1 | 33.33 |
| 7 | Homosalate | 2 | 66.67 |
| 8 | Imidazolidinyl urea | 3 | 100.00 |
| 9 | Methyl salicylate | 10 | 333.33 |
| 10 | Octyl methoxycinnamate | 2 | 66.67 |
| 11 | Para hydroxybenzoic acid | 30 | 1000.00 |
| 12 | Salicylic acid | 10 | 333.33 |
| 13 | DMDM Hydantoin | 2 | 66.67 |
| 14 | Venlafaxine hydrochloride | 3 | 100.00 |
| 15 | Mebeverine Hcl | 3 | 100.00 |
| 16 | Homo veratryl amine (HVA) | 1 | 33.33 |
| 17 | Trimethoprim | 2 | 66.67 |
| 18 | (2-(N-TriPhenylMethyl Tetrazolyl)-4-BromoMethyl Biphenyl (TTBB) | 2 | 66.67 |
| 19 | 2,6-dihydroxy acetophenone | 2 | 66.67 |
| 20 | 2-Chloro-1,3-bis(dimethylamino)tri-methinium hexafluorophosphate | 5 | 166.67 |
| 21 | 2-Ethoxy benzoic acid | 1 | 33.33 |
| 22 | 2-Phenyl-1h-Benzoimidazole-5-Sulfonic Acid (PBSA) | 3 | 100.00 |
| 23 | Clinbazole | 3 | 100.00 |
| 24 | Clopidogrel bisulfate | 2 | 66.67 |
| 25 | Etoricoxib | 5 | 166.67 |
| 26 | Lamivudine | 3 | 100.00 |

CHAIRMAN, SEAC

| S. No | Product Name | Quantity | |
|---|---|---|---|
| | | MT/Month | Kg/ Day |
| 27 | 3,4-Dimethoxy-6-Bromo-Benzyl Bromide | 2 | 66.67 |
| 28 | O-Tolyl Benzonitrile | 2 | 66.67 |
| 29 | Sodium Cromoglycate | 2 | 66.67 |
| 30 | Triethyl ortho formate | 3 | 100.00 |
| 31 | Trityl Chloride | 6 | 200.00 |
| 32 | R & D Products | 0.3 | 10.00 |
| 33 | Methyl paraben | 5 | 166.67 |
| 34 | Propyl paraben | 5 | 166.67 |
| 35 | Butyl paraben | 5 | 166.67 |
| 36 | Methyl parabensodium | 5 | 166.67 |
| 37 | Propyl paraben sodium | 5 | 166.67 |
| **Total** | | **150.3** | **5010.00** |

## LIST OF BY-PRODUCTS & ITS QUANTITIES

| S. No | Name of the product | Name of the By-Product | Quantity | |
|---|---|---|---|---|
| | | | Kg/Day | MT/ Month |
| 1 | Febantel | Triethylamine Hydrochloride | 10.00 | 0.33 |
| 2 | Parahydroxy Benzoic Acid | Crude Potassium sulphate | 643.60 | 19.31 |
| 3 | 2,6-dihydroxy Acetophenone | Ethyl acetoacetate | 65.60 | 1.97 |
| 4 | Clopidogrel Bisulphate | Ammonium sulphate | 53.30 | 1.60 |
| | | Mono potassium phosphate- | 37.80 | 1.13 |
| 5 | Etoricoxib | Aluminium hydroxide solution (33%) | 190.30 | 5.71 |
| 6 | Lamivudine | L-Menthol | 88.10 | 2.64 |
| | | Boric acid | 34.80 | 1.04 |
| 7 | Butyl Paraben | Potassium sulphate | 74.70 | 2.24 |
| 8 | Methyl Paraben Sodium | Potassium sulphate | 83.30 | 2.50 |
| 9 | Methyl Paraben | Potassium sulphate | 95.30 | 2.86 |
| 10 | Propyl Paraben Sodium | Potassium sulphate | 72.00 | 2.16 |
| 11 | Propyl Paraben | Potassium sulphate | 80.70 | 2.42 |

**Details of Utilities, Stacks & Air pollution control equipments:**

| S. No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Coal fired Boilers:**<br>Existing: 1 x 1.0 TPH<br>Proposed: 1 x 3.0 TPH&<br>1 x 5.0 TPH | 30<br>30<br>30 | Cyclone separator followed by suitable pack of Bag filters |
| 2 | **DG Sets:**<br>Existing: 1 x 350 KVA<br>Proposed: 1 x 250KVA &<br>1 x 500 KVA | Adequate height | Acoustic enclosure & Silencer |

**The process emissions** containing Sulphur dioxide, Dimethylamine, Hydrogen Chloride, Hydrogen Bromide & Ammonia are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide & Oxygen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen to be safely diffused by using Nitrogen through Flame arrestor.



CHAIRMAN, SEAC

**Details of Water requirement:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 13.79 | 0.00 | 13.79 |
| 2 | Washings | 0.00 | 5.00 | 5.00 |
| 3 | Boilers make up | 46.30 | 6.70 | 53.00 |
| 4 | Cooling towers make up | 99.95 | 6.05 | 106.00 |
| 5 | Scrubbing system | 3.00 | 0.00 | 3.00 |
| 6 | Domestic | 0.00 | 7.00 | 7.00 |
| 7 | Gardening | 0.00 | 16.50 | 16.50 |
| | **Total** | **163.04** | **41.25** | **204.29** |

**Details of Effluent generation, treatment & disposal:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment Method |
|---|---|---|---|---|---|
| 1 | Process | 9.74 | 5.23 | 14.97 | Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO.<br><br>Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers. |
| 2 | Washings | 0.00 | 5.00 | 5.00 | |
| 3 | Boilers Blow down | 0.00 | 8.00 | 8.00 | |
| 4 | Cooling towers Bleed off | 0.00 | 12.00 | 12.00 | |
| 5 | Scrubbing system | 3.00 | 0.00 | 3.00 | |
| 6 | Domestic | 0.00 | 6.00 | 6.00 | |
| Total: | | **12.74** | **36.23** | **48.97** | |

**Details of Solid & Hazardous Waste:**

| S. No | Name of the Waste | Quantity Kg/Day | Disposal Method |
|---|---|---|---|
| 1 | Organic waste (Process Residue) | 806 Kg/Day | Shall be sent to Cement Industries |
| 2 | Spent Carbon | 58 Kg/Day | |
| 3 | Solvent Distillation Residue | 239 Kg/Day | |
| 4 | Inorganic Waste | 868 Kg/Day | Shall be sent to TSDF |
| 5 | MEE Salts | 1042 Kg/Day | |
| 6 | Organic Evaporative Liquid (from MEE Stripper) | 290 Kg/Day | Shall be sent to Cement Industry |
| 7 | ETP Sludge | 40 Kg/Day | Shall be sent to TSDF |
| 8 | Used Oils | 120 Ltrs/Annum | Shall be sent to SPCB Authorized Agencies for Reprocessing / Recycling |
| 9 | Detoxified Containers | 450 No's / Month | After Detoxification shall be sent back to SPCB Authorized agencies |
| 10 | Used Lead Acid Batteries | 6 No's/ Annum | Send back to suppliers for buyback of New Batteries |
| 11 | Ash from boilers | 10500 | Shall be sent to Brick Manufacturers |

The SEAC observed that the proponent is proposing to manufacture Bulk Drugs & Intermediates by dropping the existing inorganic chemicals in the same plant premises and also proposing to utilize the existing utilities. Hence, the SEAC considered the project under Expansion and decided to constitute a sub-committee with the following members to inspect the unit, verify records and submit report on the following:

i) Project modification
ii) Project cost
iii) ZLD System & its adequacy
iv) ETP modifications

CHAIRMAN, SEAC

v) Products: Comparison of existing and proposed (which are going for expansion)
vi) Verify Production details w.r.t permitted for the past one year, as per ER-I/GST.
vii) Raw material: Comparison of existing and proposed (which are going for expansion)
viii) Solid waste: Comparison of existing and proposed (which are going for expansion)
ix) Impact on surroundings
x) Applicability of S.O.804 (E), dt.14.03.2017 & S.O. 1030 (E) dt.08.03.2018 issued by the MoI F&CC, GoI.
xi) Implementation of disaster management plan and safety measures in the existing project and proposed expansion.
xii) Greenbelt development
xiii) Justification of project w.r.t. G.O.Ms. No. 95, dt. 21.09.2007; G.O.Ms. No. 64, dt 25.07.2013; & G.O.Ms. No. 24, dt.24.04.2019.

Members of Sub-Committee:
1. Sri Suresh
2. Sri S Vakumar
Krishna Reddy.

| | |
|---|---|
| **Agenda Item No. 15** | **M/s. Sahasra Pharma Chem, Sy. No. Parts of 363, Pyararam Village, Bommalaramaram Mandal, Yadadri Bhuvanagiri District - Environmental Clearance - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/171132/2020 (EC)** |

The representative of the project proponent Sri B. Lakshmana Swamy and Sri V.V. Prasad of M/s. Rightsource Industrial Solutions Pvt. Ltd., Hyderabad, attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for established of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019, of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the proposed project as follows.

Total area is 10683.70 Sqm. out of which Green area is 3640.66Sqm (34.08 %).

Nearest human habitation is Pyarawaram Thanda (V) @ 0.73 km; Nearest water body is Water Body Near Pyarawaram Thanda @ 1.22 km; Nearest RF is Somaipalli RF @ 1.00 km from the industry.

Project Cost for proposed project is Rs 12.60 Crores. Budget for Environmental protection towards Capital Cost is Rs 220 Lakhs and Recurring Cost is Rs. 20 Lakhs/annum. Budget for CER is Rs 25.20lakhs in first 3 years.

The details of Products, by-products & production capacity are as following;

**LIST OF PROPOSED PRODUCTS & ITS QUANTITIES**

| S. No | Product Name | Quantity | |
|---|---|---|---|
| | | MT/Month | Kg/ Day |
| 1 | Amitriptyline hydrochloride | 5.00 | 166.67 |
| 2 | Atorvastatin Calcium Trihydrate | 10.00 | 333.33 |
| 3 | Cetirizine dihydrochloride | 10.00 | 333.33 |
| 4 | Cyclobenzaprine hydrochloride | 3.00 | 100.00 |
| 5 | Cyclopheptadine Hydrochloride | 5.00 | 166.67 |
| 6 | Dabigatran etexilate mesylate | 2.00 | 66.67 |
| 7 | Darunavir | 5.00 | 166.67 |



CHAIRMAN, SEAC

| S. No | Product Name | Quantity | |
|---|---|---|---|
| | | MT/Month | Kg/ Day |
| 8 | Deslansoprazole | 5.00 | 166.67 |
| 9 | Domperidone | 10.00 | 333.33 |
| 10 | Donepezil hydrochloride | 2.00 | 66.67 |
| 11 | Eprosartan Mesylate | 2.00 | 66.67 |
| 12 | Escitalopram oxalate | 10.00 | 333.33 |
| 13 | Esomeprazole Magnesium Trihydrate | 10.00 | 333.33 |
| 14 | Etoricoxib | 5.00 | 166.67 |
| 15 | Favipiravir | 2.00 | 66.67 |
| 16 | Febuxostat | 3.00 | 100.00 |
| 17 | Fexofenadine hydrochloride | 10.00 | 333.33 |
| 18 | Gabapentin | 15.00 | 500.00 |
| 19 | Haloperidol | 2.00 | 66.67 |
| 20 | Itraconazole | 5.00 | 166.67 |
| 21 | Ketorolac tromethamine | 5.00 | 166.67 |
| 22 | Lacosamide | 2.00 | 66.67 |
| 23 | Levosulpride | 5.00 | 166.67 |
| 24 | Loratadine | 5.00 | 166.67 |
| 25 | Losartan Potassium | 15.00 | 500.00 |
| 26 | Mebeverine hydrochloride | 5.00 | 166.67 |
| 27 | Olmesartan | 5.00 | 166.67 |
| 28 | Omeprazole | 15.00 | 500.00 |
| 29 | Pantoprazole Sodium | 15.00 | 500.00 |
| 30 | Paroxetine hydrochloride | 5.00 | 166.67 |
| 31 | Pregabalin | 5.00 | 166.67 |
| 32 | Quetiapine fumarate | 5.00 | 166.67 |
| 33 | Rabeprazole Sodium | 4.00 | 133.33 |
| 34 | Ritonavir | 5.00 | 166.67 |
| 35 | Rosuvastatin calcium | 3.00 | 100.00 |
| 36 | Rupatadine fumarate | 2.00 | 66.67 |
| 37 | Sertraline hydrochloride | 15.00 | 500.00 |
| 38 | Simvastatin | 5.00 | 166.67 |
| 39 | Sitagliptin | 3.00 | 100.00 |
| 40 | Telmisartan | 5.00 | 166.67 |
| 41 | Vildagliptin | 2.00 | 66.67 |
| **Total (Any 10 products will be manufactured at any given point of time)** | | **125.00** | **4166.67** |

## LIST OF BY-PRODUCTS & ITS QUANTITIES

| S.No. | Name of the product | Name of the By-Product | Quantity | |
|---|---|---|---|---|
| | | | Kg/Day | MT/Month |
| 1 | Amitriptyline Hydrochloride | Sodium Bromide | 110.90 | 3.33 |
| | | Magnesium chloride | 811.00 | 24.33 |
| 2 | Cyclobenzaprine Hydrochloride | Sodium Bromide | 130.80 | 3.92 |
| | | Magnesium chloride | 46.50 | 1.40 |
| 3 | Domperidone | Sodium acetate | 225.10 | 6.75 |
| | | Ammonia sulphate | 238.50 | 7.16 |
| | | Ammonium chloride | 63.70 | 1.91 |
| | | Sodium bromide | 122.50 | 3.68 |
| | | Ammonium chloride | 48.20 | 1.45 |
| 4 | Donepezil Hydrochloride | Potassium chloride | 28.70 | 0.86 |
| | | Methoxy Ethanol | 49.10 | 1.47 |
| | | Aluminium hydroxide | 25.20 | 0.76 |
| | | Dimethyl Sulfide | 16.80 | 0.50 |
| 5 | Escitalopram oxalate | Diparatoluyl D-Tartaric acid | 606.60 | 18.20 |
| 6 | Etoricoxib | Aluminium hydroxide solution | 190.30 | 5.71 |

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| S.No. | Name of the product | Name of the By-Product | Quantity | |
|---|---|---|---|---|
| | | | Kg/Day | MT/Month |
| | | (33%) | | |
| 7 | Favipiravir | Sodium acetate | 73.70 | 2.21 |
| | | Potassium Bromide | 73.50 | 2.21 |
| 8 | Febuxostat | Methyl cyanide | 34.10 | 1.02 |
| | | Potassium bromide | 68.30 | 2.05 |
| 9 | Fexofenadine Hydrochloride | Boric acid | 129.40 | 3.88 |
| | | Sodium methoxide | 113.10 | 3.39 |
| 10 | Losartan Potassium | Succinimide | 163.20 | 4.90 |
| | | Trityl alcohol | 373.10 | 11.19 |
| | | Sodium bromide | 147.50 | 4.43 |
| 11 | Mebeverine hydrochloride | Manganese oxide | 65.60 | 1.97 |
| | | Sodium bromide | 53.40 | 1.60 |
| | | Carbonic acid | 26.70 | 0.80 |
| | | Sodium bromide | 44.40 | 1.33 |
| 12 | Omeprazole | Ammonium sulphate | 412.10 | 12.36 |
| | | Sodium nitrite | 189.20 | 5.68 |
| | | sodium acetate | 224.90 | 6.75 |
| | | Ammonium sulphate- | 657.70 | 19.73 |
| 13 | Pantoprazole Sodium | Sodium Di hydrogen phosphate | 725.10 | 21.75 |
| 14 | Paroxetine Hydrochloride Hemihydrate | Potassium chloride | 38.20 | 1.15 |
| | | Phenol | 48.20 | 1.45 |
| 15 | Pregabalin | Ammonium chloride | 429.20 | 12.88 |
| 16 | Rabeprazole Sodium | Sodium acetate | 77.30 | 2.32 |

**Details of Utilities, Stacks & Air pollution control equipments:**

| S. No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Coal fired Boilers:** Proposed: 1 x 5.0 TPH & 1 x 3.0 TPH (Stand-by) | 30 | Cyclone separator followed by suitable pack of Bag filters |
| 2 | **Thermic fluid heater:** Proposed: 1 x 2Lakh K.cal/hr | 11 | Cyclone separator |
| 3 | **DG Sets:** Proposed: 1 x 250 KVA & 1 x 500 KVA | 7.0<br>9.0 | Acoustic enclosure & Silencer |

The **process emissions** containing Sulphur dioxide, Chloromethane, Hydrogen Chloride, Hydrogen Bromide, Ammonia & Dimethylamine are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide, Oxygen & Nitrogen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen & Butane are to be safely diffused by using Nitrogen through Flame arrestor.

**Details of Water requirement:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 44.67 | 0.00 | 44.67 |
| 2 | Washings | 0.00 | 4.00 | 4.00 |
| 3 | Boilers make up | 4.00 | 25.00 | 29.00 |
| 4 | Cooling towers make up | 50.51 | 27.49 | 78.00 |
| 5 | Scrubbing system | 9.00 | 0.00 | 9.00 |
| 6 | Domestic | 0.00 | 7.00 | 7.00 |
| 7 | Gardening | 0.00 | 5.50 | 5.50 |
| | **Total** | **108.18** | **68.99** | **177.17** |



CHAIRMAN, SEAC

**Details of Effluent generation, treatment & disposal:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment Method |
|---|---|---|---|---|---|
| 1 | Process | 53.80 | 5.61 | 59.41 | Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO.<br><br>Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers. |
| 2 | Washings | 0.00 | 4.00 | 4.00 | |
| 3 | Boilers Blow down | 0.00 | 4.00 | 4.00 | |
| 4 | Cooling towers Bleed off | 0.00 | 8.50 | 8.50 | |
| 5 | Scrubbing system | 9.00 | 0.00 | 9.00 | |
| 6 | Domestic | 0.00 | 6.00 | 6.00 | |
| **Total:** | | **62.8** | **28.11** | **90.91** | |

**Details of Solid& Hazardous Waste:**

| S. No | Name of the **Hazardous Waste** | Quantity | Disposal Method |
|---|---|---|---|
| 1 | Organic solid waste (Process Residue) | 6213 Kg/Day | Shall be sent to Cement Industries |
| 2 | Spent Carbon | 195 Kg/Day | |
| 3 | Solvent Distillation Residue | 989 Kg/Day | |
| 4 | Organic distillate from MEE Stripper | 1370 Kg/Day | |
| 5 | Inorganic Solid Waste | 2533 Kg/Day | Shall be sent to TSDF |
| 6 | MEE Salts | 5694 Kg/Day | |
| 7 | ETP Sludge | 150 Kg/Day | |
| 8 | Used Oils | 150 Ltrs/Annum | Shall be sent to SPCB Authorized Agencies for Reprocessing/ Recycling |
| 9 | Detoxified Containers/ Container liners | 750 No's / Month | After Detoxification shall be sent to SPCB authorized agencies |
| 10 | Used Lead Acid Batteries | 4 No's/ Annum | Send back to suppliers for buyback of New Batteries |
| 11 | Ash from boiler | 7000 Kg/Day | Shall be sent to Brick Manufacturers |

After detailed discussions, the SEAC recommended the project for issue of EC.

| Agenda Item No. 16 | **M/s. VBTR Labs, Sy. No. Parts of 363, Pyararam Village, Bommalaramaram Mandal, Yadadri Bhuvanagiri District - Environmental Clearance - Reg.** |
|---|---|
| **Proposal No.** | **SIA/TG/IND2/171306/2020 (EC)** |

The representative of the project proponent Sri T. Srinivas Reddy; and Sri Y.V. Prasad of M/s. Rightsource Industrial Solutions Pvt. Ltd., Hyderabad, attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for established of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019, of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the proposed project as follows:

Total area is 10683.70 Sqm, out of which Green area is 3612.10 Sqm (33.81 %).

CHAIRMAN, SEAC

Nearest human habitation is Pyarawaram Thanda (V) @ 0.78 km; Nearest water body is Water bodynear Pyarawaram Thanda @ 1.30km; Nearest RF is SomajpalliRF @ 0.95 km from the industry.

Project Cost for proposed project is **Rs. 12.60 Crores.** Budget for Environmental protection towards Capital Cost is Rs. 218 Lakhs and Recurring Cost is Rs. 23 Lakhs/annum. Budget for CER is Rs. 25.2lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

**LIST OF PROPOSED PRODUCTS & ITS QUANTITIES**

| S. No | Product Name | Quantity | |
|---|---|---|---|
| | | MT/Month | Kg/ Day |
| 1 | Abacavir | 10.00 | 333.33 |
| 2 | Amisulpride | 5.00 | 166.67 |
| 3 | Amlodipine besylate | 15.00 | 500.00 |
| 4 | Apixaban | 5.00 | 166.67 |
| 5 | Aripiprazole | 5.00 | 166.67 |
| 6 | Atorvastatin calcium | 10.00 | 333.33 |
| 7 | Celecoxib | 5.00 | 166.67 |
| 8 | Cetirizine dihydrochloride | 10.00 | 333.33 |
| 9 | Desloratadine | 5.00 | 166.67 |
| 10 | Domperidone | 10.00 | 333.33 |
| 11 | Escitalopram oxalate | 10.00 | 333.33 |
| 12 | Ezetimibe | 2.00 | 66.67 |
| 13 | Favipiravir | 2.00 | 66.67 |
| 14 | Febuxostat | 3.00 | 100.00 |
| 15 | Fexofenadine hydrochloride | 10.00 | 333.33 |
| 16 | Fluconazole | 10.00 | 333.33 |
| 17 | Itopride hydrochloride | 5.00 | 166.67 |
| 18 | Itraconazole | 5.00 | 166.67 |
| 19 | Lansoprazole | 5.00 | 166.67 |
| 20 | Levetiracetam | 5.00 | 166.67 |
| 21 | Levocetirizine dihydrochloride | 5.00 | 166.67 |
| 22 | Lopinavir | 5.00 | 166.67 |
| 23 | Losartan Potassium | 15.00 | 500.00 |
| 24 | Memantine hydrochloride | 5.00 | 166.67 |
| 25 | Montelukast sodium | 5.00 | 166.67 |
| 26 | Moxifloxacin hydrochloride | 15.00 | 500.00 |
| 27 | Omeprazole | 15.00 | 500.00 |
| 28 | Oseltamivir Phosphate | 5.00 | 166.67 |
| 29 | Pantoprazole Sodium | 15.00 | 500.00 |
| 30 | Pimozide | 1.00 | 33.33 |
| 31 | Rabeprazole Sodium | 4.00 | 133.33 |
| 32 | Telmisartan | 5.00 | 166.67 |
| 33 | Terbinafine hydrochloride | 10.00 | 333.33 |
| 34 | Ticagrelor | 2.00 | 66.67 |
| 35 | Valacyclovir hydrochloride monohydrate | 5.00 | 166.67 |
| 36 | Valsartan | 10.00 | 333.33 |
| **Total (Any 10 products will be manufactured at any given point of time)** | | **125.00** | **4166.67** |

**LIST OF BY-PRODUCTS & ITS QUANTITIES**

| S.No | Name of the product | Name of the By-product | Quantity | |
|---|---|---|---|---|
| | | | Kg/day | MT/Month |
| 1 | Abacavir | Di Sodium tartarate | 298.10 | 8.943 |
| 2 | Amisulpride | Potassium sulphate | 208.60 | 6.258 |
| | | Ethyl thio cyanate | 75 | 2.253 |



CHAIRMAN, SEAC

| | | | | |
|---|---|---|---|---|
| 3 | Apixaban | Morpholine | 49.70 | 1.491 |
| 4 | Aripiprazole | Sodium bromide | 64.60 | 1.938 |
| 5 | Domperidone | Sodium acetate | 225.10 | 6.753 |
| | | Ammonia sulphate | 238.50 | 7.155 |
| | | Ammonium chloride | 63.70 | 1.911 |
| | | Sodium bromide | 122.50 | 3.675 |
| | | Ammonium chloride | 48.20 | 1.446 |
| 6 | Escitalopram oxalate | Diparatoluyl D-Tartaric acid | 606.60 | 18.198 |
| 7 | Favipiravir | Sodium acetate | 73.70 | 2.211 |
| | | Potassium Bromide | 73.50 | 2.205 |
| 8 | Fluconazole | Ammonium nitrate | 132.60 | 3.978 |
| | | Aluminium Hydroxide solution (33%) | 517.90 | 15.537 |
| 9 | Itopride Hydrochloride | Triethyl amine HCl | 177.10 | 5.313 |
| 10 | Febuxostat | Methyl cyanide | 34.10 | 1.023 |
| | | Potassium bromide | 68.30 | 2.049 |
| 11 | Fexofenadine Hydrochloride | Boric acid | 129.40 | 3.882 |
| | | Sodium methoxide | 113.10 | 3.393 |
| 12 | Lopinavir | Benzyl Alcohol | 95.75 | 2.8725 |
| | | Potassium chloride | 22.60 | 0.678 |
| | | Monosodium citrate | 352.70 | 10.581 |
| 13 | Losartan Potassium | Succinimide | 163.15 | 4.8945 |
| | | Trityl alcohol | 373.10 | 11.193 |
| | | Sodium bromide | 147.50 | 4.425 |
| 14 | Memantine hydrochloride | Potassium acetate | 107.50 | 3.225 |
| 15 | Omeprazole | Ammonium sulphate | 412.00 | 12.36 |
| | | Sodium nitrite | 189.20 | 5.676 |
| | | sodium acetate | 224.90 | 6.747 |
| | | Ammonium sulphate | 657.70 | 19.731 |
| 16 | Oseltamivir Phosphate | Tert butyl chloride | 48.50 | 1.455 |
| 17 | Rabeprazole Sodium | Sodium acetate | 77.30 | 2.319 |
| | | Acetic acid | 56.60 | 1.698 |
| 18 | Terbinafine Hydrochloride | Potassium chloride | 357.00 | 10.71 |
| 19 | Valacyclovir Hydrochloride Monohydrate | Acetic acid | 73.20 | 2.196 |
| 20 | Valsartan | Potassium chloride | 89.80 | 2.694 |
| | | Potassium Bromide | 143.40 | 4.302 |

**Details of Utilities, Stacks & Air pollution control equipments:**

| S. No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Coal fired Boilers:** Proposed: 1 x 5.0 TPH & 1 x 3.0 TPH (Stand-by) | 30 | Cyclone separator followed by suitable pack of Bag filters |
| 2 | **Thermic fluid heater:** Proposed: 1 x 2 Lakh K.cal/hr | 11 | Cyclone separator |
| 3 | **DG Sets:** Proposed: 1 x 250 KVA & 1 x 500 KVA | 7.0 9.0 | Acoustic enclosure & Silencer |

The **process emissions** containing Sulphur dioxide, Chloromethane, Hydrogen Chloride, Hydrogen Bromide, Ammonia, Hydrogen Iodide, Dimethylamine & Hydrogen Fluoride are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide, Oxygen & Nitrogen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen are to be safely diffused by using Nitrogen through Flame arrestor.

CHAIRMAN, SEAC

**Details of Water requirement:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 47.62 | 0.00 | 47.62 |
| 2 | Washings | 0.00 | 4.00 | 4.00 |
| 3 | Boilers make up | 3.90 | 25.10 | 29.00 |
| 4 | Cooling towers make up | 51.96 | 26.04 | 78.00 |
| 5 | Scrubbing system | 10.00 | 0.00 | 10.00 |
| 6 | Domestic | 0.00 | 7.00 | 7.00 |
| 7 | Gardening | 0.00 | 5.50 | 5.50 |
| | **Total** | **113.48** | **67.64** | **181.12** |

**Details of Effluent generation, treatment & disposal:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment Method |
|---|---|---|---|---|---|
| 1 | Process | 55.23 | 1.97 | 57.20 | Zero Liquid Discharge System ie.. **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO. Treated effluent to be reused in cooling towers. Boiler make-up and Scrubbers. |
| 2 | Washings | 0.00 | 4.00 | 4.00 | |
| 3 | Boilers Blow down | 0.00 | 4.00 | 4.00 | |
| 4 | Cooling towers Bleed off | 0.00 | 8.50 | 8.50 | |
| 5 | Scrubbing system | 11.00 | 0.00 | 11.00 | |
| 6 | Domestic | 0.00 | 6.00 | 6.00 | |
| **Total:** | | **66.23** | **24.47** | **90.7** | |

**Details of Solid & Hazardous Waste:**

| S. No | Name of the Hazardous Waste | Quantity | Disposal Method |
|---|---|---|---|
| 1 | Organic solid waste (Process Residue) | 6966 Kg/Day | Shall be sent to Cement Industries |
| 2 | Spent Carbon | 218 Kg/Day | |
| 3 | Solvent Distillation Residue | 1051 Kg/Day | |
| 4 | Organic distillate from MEE Stripper | 2130 Kg/Day | |
| 5 | Inorganic Solid Waste | 3784 Kg/Day | Shall be sent to TSDF |
| 6 | MEE Salts | 6124 Kg/Day | |
| 7 | ETP Sludge | 240 Kg/Day | |
| 8 | Used Oils | 150 Ltrs/Annum | Shall be sent to SPCB Authorized Agencies for Reprocessing/ Recycling |
| 9 | Detoxified Containers/ Container liners | 750 No's / Month | After Detoxification sent to SPCB authorized agencies. |
| 10 | Used Lead Acid Batteries | 4 No's/ Annum | Send back to suppliers for buyback of New Batteries |
| 11 | Ash from boiler | 7000 Kg/Day | Shall be sent to Brick Manufacturers |

After detailed discussions, the SEAC recommended the project for issue of EC.

| | |
|---|---|
| **Agenda Item No. 17** | **M/s. Sambi Life Sciences, Sy. Nos: Parts of 29, 30 & 31, Thimmapur Village, Tatakondapally Mandal, Rangareddy District - Environmental Clearance - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/173724/2020 (EC)** |

The representative of the project proponent Sri S. Venkatesh Reddy and Sri Y.V. Prasad of M/s. Rightsource Industrial Solutions Pvt. Ltd., Hyderabad, attended and made a presentation before the SEAC.



CHAIRMAN, SEAC

The SEAC noted that the proposal is for established of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019, of the EFS&T Dept., GoAP

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under 1b2 Category

The SEAC noted the contents of the EMP report and noted the details of the proposed project as follows:

Total area is 20137.15 Sqm, out of which Green area is 6919.45 Sqm (34.36 %).

Nearest human habitation is Jagabeinpalli (V) @ 1.50 km; Nearest water body is Sahadevi Samudram (Veljal Lake) @ 3.56km; No RFs exists within 10 Km Radius from boundary of the industry

Project Cost for proposed project is Rs. 18.0 Crores. Budget for Environmental protection towards Capital Cost is Rs. 225 Lakhs and Recurring Cost is Rs. 28 Lakhs/annum. Budget for CER is Rs. 36Lakhs in first 5 years

The details of Products, by-products & production capacity are as following:

**LIST OF PROPOSED PRODUCTS & ITS QUANTITIES**

| S. No | Product Name | Quantity | |
|---|---|---|---|
| | | MT/Month | Kg/ Day |
| 1 | Apixaban | 10.00 | 333.33 |
| 2 | Apremilast | 10.00 | 333.33 |
| 3 | Aprepitant | 10.00 | 333.33 |
| 4 | Aripiprazole | 10.00 | 333.33 |
| 5 | Atorvastatin Calcium Trihydrate | 25.00 | 833.33 |
| 6 | Azithromycin | 25.00 | 833.33 |
| 7 | Betrixaban | 10.00 | 333.33 |
| 8 | Bilastine | 10.00 | 333.33 |
| 9 | Brexpiprazole | 10.00 | 333.33 |
| 10 | Brivaracetam | 10.00 | 333.33 |
| 11 | Cyclobenzaprine | 10.00 | 333.33 |
| 12 | Dabigatran Etexilate Mesylate | 10.00 | 333.33 |
| 13 | Deferasirox | 10.00 | 333.33 |
| 14 | Donepezil HCl | 10.00 | 333.33 |
| 15 | Eprosartan Mesylate | 10.00 | 333.33 |
| 16 | Escitalopram Oxalate | 10.00 | 333.33 |
| 17 | Esomeprazole Magnesium Trihydrate | 25.00 | 833.33 |
| 18 | Febuxostat | 10.00 | 333.33 |
| 19 | Ivacaftor | 10.00 | 333.33 |
| 20 | Lacosamide | 10.00 | 333.33 |
| 21 | Linezolid | 10.00 | 333.33 |
| 22 | Meclizine HCl | 10.00 | 333.33 |
| 23 | R & D products | 0.30 | 10.00 |
| **Total (Any 10 products will be manufactured at any given point of time)** | | **145.00** | **4833.33** |

CHAIRMAN, SEAC

## LIST OF BY-PRODUCTS & ITS QUANTITIES

| S. No | Name of the product | Name of the By-Product | Quantity | |
|---|---|---|---|---|
| | | | Kg/Day | MT/Month |
| 1 | Apixaban | Morpholine | 99.40 | 2.98 |
| 2 | Aprepitant | Potassium hydroxide | 40.70 | 1.22 |
| 3 | Aripiprazole | Sodium bromide | 129.30 | 3.88 |
| 4 | Bilastine | Sodium p-toluene sulfonate | 197.00 | 5.91 |
| | | Potassium p-toluene sulfonate | 190.00 | 5.70 |
| 5 | Brivaracetam | 1,1,1,3,3,3-Hexamethyl – disilazane | 309.30 | 9.28 |
| 6 | Cyclobenzaprine Hydrochloride | Sodium Bromide | 435.90 | 13.08 |
| | | Magnesium chloride | 155.10 | 4.65 |
| 7 | Donepezil Hydrochloride | Potassium chloride | 215.00 | 6.45 |
| | | Methoxy Ethanol | 368.10 | 11.04 |
| | | Aluminium hydroxide | 188.70 | 5.66 |
| | | Dimethyl Sulfide | 126.10 | 3.78 |
| 8 | Escitalopram oxalate | Diparatoluyl D-Tartaric acid | 606.60 | 18.20 |
| 9 | Febuxostat | Methyl cyanide | 1113.80 | 33.41 |
| | | Potassium bromide | 227.60 | 6.83 |
| 10 | Linezolid | Imidazole | 269.99 | 8.10 |
| 11 | Meclizine Hydrochloride | Succinimide | 119.80 | 3.59 |

**Details of Utilities, Stacks & Air pollution control equipments:**

| S. No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Coal fired Boilers:**<br>Proposed: 1 x 2.0 TPH<br>Proposed: 1 x 3.0 TPH | <br>30<br>30 | Cyclone separator followed by suitable pack of Bag filters |
| 2 | **Thermic fluid heater:**<br>Proposed: 1 x 2 Lakh K. Cal/ Hr | 11 | Cyclone separator |
| 3 | **DG Sets:**<br>Proposed: 1 x 250 KVA & 1 x 380 KVA | 6.0<br>7.0 | Acoustic enclosure & Silencer |

**The process emissions** containing Sulphur dioxide, Hydrogen Chloride, Hydrogen Bromide, Ammonia & Hydrogen Fluoride are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide& Oxygen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen are to be safely diffused by using Nitrogen through Flame arrestor.

**Details of Water requirement:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 47.53 | 0.00 | 47.53 |
| 2 | Washings | 0.00 | 5.00 | 5.00 |
| 3 | Boilers make up | 10.00 | 20.00 | 30.00 |
| 4 | Cooling towers make up | 56.66 | 21.34 | 78.00 |
| 5 | Scrubbing system | 6.00 | 0.00 | 6.00 |
| 6 | Domestic | 0.00 | 4.50 | 4.50 |
| 7 | Gardening | 0.00 | 10.50 | 10.50 |
| | **Total** | **120.19** | **61.34** | **181.53** |

CHAIRMAN, SEAC

**Details of Effluent generation, treatment & disposal:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment Method |
|---|---|---|---|---|---|
| 1 | Process | 53.00 | 0.33 | 53.33 | Zero Liquid Discharge System ie., **HTDS**: Stripper, MFE & ATFD. **LTDS**: Biological ETP & RO.<br><br>Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers. |
| 2 | Washings | 0.00 | 5.00 | 5.00 | |
| 3 | Boilers Blow down | 0.00 | 5.00 | 5.00 | |
| 4 | Cooling towers Bleed off | 0.00 | 8.50 | 8.50 | |
| 5 | Scrubbing system | 6.00 | 0.00 | 6.00 | |
| 6 | Domestic | 0.00 | 4.00 | 4.00 | |
| **Total:** | | **59.00** | **22.83** | **81.83** | |

**Details of Solid & Hazardous Waste:**

| S. No | Name of the Waste | Quantity | Disposal Method |
|---|---|---|---|
| 1 | Organic solid waste (Process Residue) | 7551 Kg/Day | Shall be sent to Cement Industries |
| 2 | Spent Carbon | 212 Kg/Day | |
| 3 | Solvent Distillation Residue | 1230 Kg/Day | |
| 4 | Organic distillate from MEE Stripper | 1680 Kg/Day | |
| 5 | Inorganic Solid Waste | 1099 Kg/Day | Shall be sent to TSDF |
| 6 | MEE Salts | 4693 Kg/Day | |
| 7 | ETP Sludge | 180 Kg/Day | |
| 8 | Used Oils | 130 Ltrs/Annum | Shall be sent to SPCB Authorized Agencies for Reprocessing/ Recycling |
| 9 | Detoxified Containers/ Container liners | 1200 No's / Month | After Detoxification shall be sent to SPCB authorized agencies. |
| 10 | Used Lead Acid Batteries | 4 No's/ Annum | Send back to suppliers for buyback of New Batteries |
| 11 | Ash from boilers | 5950 Kg/Day | Shall be sent to Brick Manufacturers |

After detailed discussions, the SEAC recommended the project for issue of EC.

| | |
|---|---|
| **Agenda Item No. 18** | **M/s. Sriam Labs Private Limited, Sy. No.505, Bibinagar (V & M), Yadadri Bhuvanagiri District - Environmental Clearance (Expansion) - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/172531/2020 (EC)** |

The representative of the project proponent Sri S. Srinivasa Rao; and Sri Kushal Bodhankar of M/s. KKB Envirocare Consultants Pvt. Ltd., Hyderabad, attended and made a presentation before the SEAC.

Industry was established in 1987 in the name of S.K.S Drugs Pvt. Ltd. In 2002, M/s. Sri Ram Organics Pvt. Ltd. taken over sick unit from APSFC and obtained permission to manufacture bulk drugs from SPCB. In 2013, industry changed its name to M/s. Sriam Labs Private Limited.

The industry informed that they obtained CTE (CPM) on 07.02.2019 and latest CFO on 10.06.2019 from TSPCB and the unit operating.

The proponent submitted Self-compliance Report for conditions stipulated in CFO.

The SEAC noted the G.O Ms. No. 95, dt.21.09.2007 of the I.F.S&T Dept., GoAP; G.O Ms. No. 64, dt.25.07.2013 & G.O.Ms.No. 24, dt.24.04.2019 of the I.F.S&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

CHAIRMAN, SEAC

The SEAC noted the contents of the EMP report and noted the details of the project after proposed Expansion as follows:

Total area is 2.23 Ha, out of which Green area is 0.735 Ha (33 %).

Nearest human habitation is Bibinagar (V) located adjacent to the unit; Nearest water body is Bibinagar cheruvu @ 1.26 km; Nearest RF is Bibinagar RF @ 1.25 km from the industry.

Project Cost for proposed expansion is Rs. 37.91 Crores including existing Rs.36.97 Crores. Budget for Environmental protection for expansion towards Capital Cost is Rs. 10 lakhs and Recurring Cost is Rs. 224 Lakhs/annum. Budget for CER is Rs. 1.0 lakh in first 5 years.

The details of Products, by-products & production capacity are as following:

Products:

| S.No | Name of Product | Capacity | |
|---|---|---|---|
| | | Kg/day | TPM |
| 1 | Flavoxate Hydrochloride | 100.0 | 3.00 |
| 2 | Famciclovir | 3.30 | 0.10 |
| 3 | Biperiden Hydrochloride | 2.00 | 0.06 |
| 4 | Memantine Hydrochloride | 1.70 | 0.05 |
| 5 | Labetalol Hydrochloride | 100.0 | 3.00 |
| 6 | Moxifloxacin Hydrochloride Monohydrate | 46.00 | 1.38 |
| 7 | Resveratrol | 8.30 | 0.25 |
| 8 | Trimipramine Maleate | 3.30 | 0.10 |
| 9 | Abacavir Sulfate | 20.00 | 0.60 |
| 10 | Ritonavir | 17.00 | 0.51 |
| 11 | Hydroxychloroquine Sulfate | 115.7 | 3.47 |
| 12 | Betaine | 5.00 | 0.15 |
| 13 | Caglumic acid | 3.30 | 0.10 |
| 14 | Delafloxacin | 46.7 | 1.40 |
| 15 | Nitisinone | 46.7 | 1.40 |
| 16 | Sodium Phenylbutyrate | 1.00 | 0.03 |
| 17 | Trientine Tetrahydrochloride | 1.00 | 0.03 |
| 18 | (R)-2-(Diphenylmethyl) pyrrolidine Hydrochloride | 10.00 | 0.30 |
| 19 | Dapagliflozin (D.L.) Pipecolic acid | 10.00 | 0.30 |
| 20 | (1S,4R)-4-Amino cyclopent-2-ene-1-methanol D(-)Tartarate | 114.3 | 3.43 |
| **Maximum 5 Products** | | **471.67** | **14.15** |
| **R&D Products** | | **5** | **0.15** |
| **Production Capacity (Any 5 campaign Products at any given point of time out of total 20 Products along with R&D Products)** | | **481.67** | **14.45** |

**Details of Utilities, Stacks & Air pollution control equipment's after expansion:**

| S.No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | Coal fired Boiler:<br>Existing: 3 TPH<br>Proposed: 2TPH (standby) | <br>30 m<br>30 m | <br>Multicyclone / bag filter<br>Multicyclone / bag filter |
| 2 | **Thermic fluid heater (Diesel fired) :**<br>**Proposed: 4 Lakh Kcal/hr** | <br>30 m | -- |
| 3 | DG Sets:<br>Existing: 220 KVA & 500 KVA | Adequate height | Acoustic enclosure |



CHAIRMAN, SEAC

The process emissions containing Hydrogen Chloride & Sulphur dioxide are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen is diffused with Flame Arrestor.

**Details of Water requirement after expansion:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 25.6 | - | 25.6 |
| 2 | Washings | 10 | - | 10 |
| 3 | QC & R& D | 3 | - | 3 |
| 4 | Scrubber | 3 | - | 3 |
| 5 | Boiler Feed | 15 (20% Make up) | - | 15 |
| 6 | Cooling Tower | 19 | 56 | 75 |
| 7 | Domestic | 15 | | 15 |
| 8 | Gardening | 9 | - | 9 |
| | **Total** | **99.6** | **56** | **155.6** |

**Details of Effluent generation, treatment & disposal after expansion:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment & Disposal |
|---|---|---|---|---|---|
| 1 | Process | 26.5 | - | 26.5 | Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO.<br><br>Treated effluent to be reused in cooling towers. |
| 2 | Washings | - | 10 | 10 | |
| 3 | QC and R&D Lab | - | 3 | 3 | |
| 4 | Boiler blow down | - | 2.4 | 2.4 | |
| 5 | Cooling tower bleed of | - | 6.5 | 6.5 | |
| 6 | Scrubber | 3 | - | 3 | |
| 7 | Domestic | - | 12 | 12 | |
| **Total :** | | 29.5 | 33.9 | 63.4 | |

**Details of Solid Waste after expansion:**

| S. No | Description | Quantity | Disposal |
|---|---|---|---|
| 1. | Organic residue | 0.67 TPD | Sent to SPCB Authorized Cement industries or to TSDF for Incineration/GEPIL Infrastructures Pvt Ltd/Authorized AFRF sites |
| 2. | Spent Carbon | 0.118 TPD | |
| 3. | Distillation Bottom Residue | 0.2 KLD | |
| 4. | Inorganic & Evaporation salt (Process) | 1.79 TPD | Sent to SPCB Authorized Cement industries/ Authorized AFRF sites or to TSDF for landfill/GEPIL Infrastructures Pvt Ltd |
| 5. | Evaporation salt (Non-process) | 0.54 TPD | |
| 6. | ETP Sludge | 0.15 TPD | |
| 7. | Boiler Ash | 4.8 TPD | Sold to Cement Brick Manufacturers |
| 8. | Container and Container Liners | 1000 (No's/month) | Disposed to SPCB Authorized agencies after complete detoxification |
| | HDPE Carboys | 500 (No's/month) | |
| | Fiber Drums | 500 kg/month | |
| | PP Bags | 500 (Kg/month) | |
| 9. | Spent Mixed solvents | 1.9 KLD | Sent to SPCB Authorized agencies |
| 10. | Spent Catalyst | 0.5 TPD | Sent to suppliers on buy back basis |

CHAIRMAN, SEAC

| | | | |
|---|---|---|---|
| 11. | Waste oils & Grease | 1 KL/annum | Sent to SPCB Authorized agencies for reprocessing |
| 12. | Used Lead acid Batteries | 50 Nos. / annum | Sent to suppliers on buy-back basis. |
| 13 | Misc. Waste (spill control waste) | Lumpsum | TSDF |
| 14 | Rejects | Lumpsum | |
| 15 | E- waste | Lumpsum | Authorized re-processor or TSDF |
| 16. | Waste papers & other types of packing scrap | Lumpsum | Sold to scrap vendors |
| 17. | Canteen waste | Lumpsum | Composted on site and reused for greenbelt |
| 18 | Bio Medical Waste | Lumpsum | Sent to SPCB authorized Biomedical waste incinerator |

The SEAC observed that the proponent is proposing expansion of the project from 60 TPA to 173.4 TPA, which becomes more than 50% of the permitted production capacity. Hence, the SEAC decided to constitute a sub-committee with the following members to inspect the unit, verify records and submit report on the following.

i) Project modification
ii) Project cost
iii) ZLD System & its adequacy
iv) ETP modifications
v) Products: Comparison of existing and proposed (which are going for expansion)
vi) Verify Production details w.r.t. permitted for the past one year, as per ER-I/GIS I.
vii) Raw material: Comparison of existing and proposed (which are going for expansion)
viii) Solid waste: Comparison of existing and proposed (which are going for expansion)
ix) Impact on surroundings
x) Applicability of S.O.804 (E), dt.14.03.2017 & S.O. 1030 (E) dt.08.03.2018 issued by the MoEF&CC, GoI.
xi) Implementation of disaster management plan and safety measures in the existing project and proposed expansion.
xii) Greenbelt development
xiii) Impacts of project on nearest human habitation.
xiii) Justification of project w.r.t. G.O.Ms. No. 95, dt. 21.09.2007; G.O.Ms. No. 64, dt. 25.07.2013; & G.O.Ms. No. 24, dt.24.04.2019.

Members of Sub-Committee:
1. Sri Venkateshwar
2. Sri Ramana Reddy.
Mantri

| | |
|---|---|
| **Agenda Item No. 19** | **M/s. Organozen Chemicals Private Limited, Sy.No. 124/2 and 125, Talmadla (V), Rajampet (M), Kamareddy District - Environmental Clearance - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/172988/2020 (EC)** |

The representative of the project proponent Sri N.S. Walimbe, and Sri Kushal Bodhankar of M/s KKB Envirocare Consultants Pvt. Ltd., Hyderabad, attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for established of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt.21.09.2007 of the IF&I Dept., GoAP; G.O.Ms. No 64, dt.25.07.2013 & G.O.Ms.No. 24, dt.24.04.2019 of the I.F&I Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

CHAIRMAN, SEAC

The SEAC noted the contents of the EMP report and noted the details of the project after proposed Establishment as follows:

Total area is 2.13 Ha. out of which Green area is 0.82 Ha. (38.6%).

Nearest human habitation is Talmadla@ 1.04 km; A Pond near Sivaipalli @ 1.44 km; Nearest RF is Bikkur RF @ 3.52 km from the industry.

Project Cost is Rs. 30.0 Crores. Budget for Environmental protection towards Capital Cost is Rs.350 Lakhs and Recurring Cost is Rs. 711.0 Lakhs/annum. Budget for CER is Rs. 45.0 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following

**Products:**

| S.No | Name of Product | Capacity | |
|---|---|---|---|
| | | Kg/day | TPM |
| 1 | TrimethylOrthoformate | 4333.33 | 130.00 |
| 2 | TriethylOrthoformate | 4000.00 | 120.00 |
| 3 | Sodium Methoxide Solution | 20000.00 | 600.00 |
| 4 | Sodium Methoxide Powder | 4000.00 | 120.00 |
| 5 | Dimethyl Carbonate | 2000.00 | 60.00 |
| 6 | 1,2-Dimethoxyethane | 2000.00 | 60.00 |
| 7 | 3-(Trichlorovinyl)anilinium Chloride | 100.00 | 3.00 |
| **Total 7 Products** | | **36433.33** | **1093.00** |
| **R&D Products** | | **5** | **0.15** |
| **Production Capacity (Total 7 products and R&D Products)** | | **36438.33** | **1093.15** |

**Details of Utilities, Stacks & Air pollution control equipments:**

| S.No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Husk fired Boiler:**<br>Proposed: 6TPH<br>6 TPH | <br>30 m<br>30 m | <br>Multicyclone / bag filter<br>Multicyclone / bag filter |
| 2 | **Thermic fluid heater** (Husk fired)<br>Proposed: 4 Lakh K.cal/hr (Standby) | 30 m | -- |
| 3 | **DG Sets:**<br>Proposed : 3 x 320 kVA | Adequate height | Acoustic enclosure |

The process emissions containing Hydrogen Chloride are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Oxygen gas is safely dispersed into the atmosphere.

**Details of Water requirement:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 7.1 | - | 7.1 |
| 2 | Washings | 10 | - | 10 |
| 3 | QC & R& D | 3 | - | 3 |
| 4 | Scrubber | 2 | - | 2 |
| 5 | Boiler Feed | 58 (make up) | - | 58 |
| 6 | Cooling Tower | 31 (make up) | 41 | 72 |
| 7 | Domestic | 10 | - | 10 |
| 8 | Gardening | 9 | - | 9 |
| | **Total** | **130.1** | **41** | **171.1** |

CHAIRMAN, SEAC

**Details of Effluent generation, treatment & disposal:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment & Disposal |
|---|---|---|---|---|---|
| 1 | Process | 8.1 | - | 8.1 | Zero Liquid Discharge System ie., HTDS: Stripper, MEE & ATFD LTDS: Biological ETP & RO.<br><br>Treated effluent to be reused in cooling towers. |
| 2 | Washings | - | 10 | 10 | |
| 3 | QC and R&D Lab | - | 3 | 3 | |
| 4 | Boiler blow down | | 9.6 | 9.6 | |
| 5 | Cooling tower bleed of | - | 6 | 6 | |
| 6 | Scrubber | 2 | - | 2 | |
| 7 | Domestic | - | 8 | 8 | |
| Total : | | 10.1 | 36.6 | 46.7 | |

**Details of Solid Waste after expansion:**

| S.No | Description | Quantity | Mode of Disposal |
|---|---|---|---|
| 1. | Organic residue | 4 TPD | Sent to SPCB Authorized Cement industries or to TSDF for Incineration/GEPIL Infrastructures Pvt. Ltd |
| 2. | Distillation Bottom Residue | 0.5 TPD | |
| 3. | Inorganic & Evaporation salt (Process) | 11.9 TPD | Sent to SPCB Authorized Cement industries or to TSDF for landfill/GEPIL Infrastructure Pvt. Ltd. |
| 4 | Evaporation salt (Non-process) | 0.44 TPD | |
| 5. | ETP Sludge | 0.1 TPD | |
| 6. | Boiler Ash | 8.8 TPD | Sent to brick manufacturers |
| 7. | a) Detoxified Container / Liners drums, HDPE Carboys, Fiber drums | 1000Nos./ month | Disposed to SPCB Authorized agencies after complete detoxification |
| | b) PP Bags | 1000 Kg/month | |
| 8 | Spent Mixed solvents | 4.6 KLD | Sent to SPCB Authorized agencies |
| 9. | Waste oils & Grease | 1.5 KL /annum | Sent to SPCB Authorized agencies for reprocessing / recycling. |
| 10. | Used Lead acid Batteries | 50 No's/Annum | Sent to suppliers on buy-back basis. |
| 11. | Misc. Waste (spill control waste) | Lumpsum | TSDF |
| 12. | Rejects | Lumpsum | |
| 13. | E- waste | Lumpsum | Authorized re-processor or TSDF |
| 14. | Waste papers & other types of packing scrap | Lumpsum | Sold to scrap vendors |
| 15. | Canteen waste | Lumpsum | Composted on site and reused for green belt |
| 16 | Bio Medical Waste | Lumpsum | Sent to SPCB authorized Biomedical waste incinerator |

After detailed discussion, the SEAC recommended the project for issue of EC.

| Agenda Item No. 20 | **M/s. Medchem Organics Private Limited, Sy.No.93, Rahimkhanpet (V), Atmakur (M), Yadadri Bhuvanagiri District - Environmental Clearance (Expansion) - Reg.** |
|---|---|
| **Proposal No.** | **SIA/TG/IND2/172968/2020 (EC)** |

The representative of the project proponent Sri A. Mohan Krishna and Sri Kushal Bodhankar of M/s KKB Envirocare Consultants Pvt. Ltd., Hyderabad, attended and made a presentation before the SEAC.

CHAIRMAN, SEAC

The SEAC noted that proponent obtained EC from the MoEF&CC, GoI dt.26.12.2007 & 11.03.2020 for existing project. The proponent obtained CFE on 24.10.2011 & 19.08.2020 for manufacture of Bulk Drugs & Intermediates. Now, the proponent proposed expansion of API manufacturing unit in the existing plant premises with extended adjacent land and applied for EC afresh with some modifications. But, it was informed that though they obtained permissions for establishment of the industry, the industry could not be implemented as per EC. It is also observed from the google map that there is no activity in the proposed project site. Hence, the SEAC considered the present proposal as a Greenfield project.

The SEAC noted the G.O.Ms No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O Ms.No. 24, dt 24.04.2019 of the EI S&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project after proposed Expansion as follows:

Total area is 4.12 Ha, out of which Green area is 1.46 Ha (35.37%).

Nearest human habitation is Rahimkhanpet (V) @ 1.6 km; Pond near Rahimkhanpet @ 2 km from the boundary of the site.

Project Cost for proposed expansion is Rs. 30.0 Crores including existing Rs.4.85 Crores. Budget for Environmental protection towards Capital Cost is Rs. 380 lakhs and Recurring Cost is Rs.1035 Lakhs/annum. Budget for CER is Rs. 25.15 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

**Products:**

| S.No | Name of Product | Capacity | |
|---|---|---|---|
| | | Kg/day | TPM |
| 1 | Itraconazole | 266.67 | 8 |
| 2 | Omeprazole | 166.67 | 5 |
| 3 | Terbinafine Hydrochloride | 333.33 | 10 |
| 4 | Levetiracetam | 233.33 | 7 |
| 5 | Cyproheptadine Hydrochloride | 33.33 | 1 |
| 6 | Amitriptyline Hydrochloride | 100 | 3 |
| 7 | Topiramate | 33.33 | 1 |
| 8 | Tramadol Hydrochloride | 666.67 | 20 |
| 9 | Fexofenadine Hydrochloride | 333.33 | 10 |
| 10 | Pioglitazone | 33.33 | 1 |
| 11 | Cyclobenzaprine Hydrochloride | 16.67 | 0.5 |
| 12 | Glimepride | 16.67 | 0.5 |
| 13 | Favipiravir | 166.67 | 5 |
| 14 | Hydroxychloroquine Sulfate | 166.67 | 5 |
| 15 | Rosuvastatin Calcium | 100 | 3 |
| 16 | Abacavir Sulfate | 666.67 | 20 |
| 17 | Losartan Potassium | 500 | 15 |
| 18 | 2,3:4,5-Bis-O-(1-Methylethylidene)-bFructopyranose (Topiramate Intermediate) | 166.67 | 5 |
| 19 | 4-[4-[4-(4-Hydroxy phenyl) piperazinyl] phenyl]-2,4-dihydro-2-(1-methyl propyl)-3H1,2,4-Triazol-3-one (Itraconazole Intermediate) | 166.67 | 5 |
| 20 | Cis-[[2-(2-(2,4-Dichlorophenyl)-2-(1H-1,2,4- triazol-1-yl-methyl)-1,3-dioxolan-4-yl]methyl] methane sulfonate (Itraconazole Intermediate) | 166.67 | 5 |

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| | | | |
|---|---|---|---|
| 21 | 2-{[(3,5-Dimethyl-4-methoxy-2-pyridinyl)- methyl]thio}-5-methoxy-1H-benzimidazole (Omeprazole Intermediate) | 166.67 | 5 |
| **Maximum any 8 campaign products out of 21 products** | | 3000 | 90 |
| **R & D and Validation Products** | | 5 | 0.15 |
| **Maximum any 8 campaign products out of 21 products along with R & D and Validation Products** | | **3005** | **90.15** |

**List of By-products:**

| By-Product | kg/day | TPA | Product |
|---|---|---|---|
| Dilute Sulfuric Acid | 1013.35 | 364.81 | Omeprazole |
| Hydrogen Bromide Solution | 944.87 | 340.15 | Levetiracetam |
| Spent Acetic Acid MLs | 386.61 | 139.18 | Rosuvastatin Calcium and 2,3:4,5-Bis-O-(1-Methyl ethylidene)-b-Fructopyranose |

**Details of Utilities, Stacks & Air pollution control equipments after expansion:**

| S.No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Coal fired Boiler:** | | |
| | 1x2 TPH (standby) | 30 m | Multicyclone / bag filter |
| | 1x3 TPH (standby) | 30 m | Multicyclone / bag filter |
| | 2x4 TPH | 30 m | Multicyclone / bag filter |
| 2 | **Thermic fluid heater** | | |
| | 4 lakh Kcal/hr Diesel fired | 30 m | -- |
| 3 | **DG Sets:** | | |
| | 1x1010 KVA & 1x500 KVA | Adequate height | Acoustic enclosure |

The **process emissions** containing Hydrogen Chloride, Hydrogen Fluoride, Ammonia, Sulphur Dioxide & Methylamine are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide, Nitrogen, Oxygen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen is diffused with Flame Arrestor.

**Details of Water requirement after expansion:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 86.9 | - | 86.9 |
| 2 | Washings | 25 | - | 25 |
| 3 | QC & R& D | 3 | - | 3 |
| 4 | Scrubber | 6 | - | 6 |
| 5 | Boiler Feed | 41 | 7 | 48 |
| 6 | Cooling Tower | - | 126 | 126 |
| 7 | Domestic | 10 | - | 10 |
| 8 | Gardening | 18 | - | 18 |
| | **Total** | **189.9** | **133** | **322.9** |

**Details of Effluent generation, treatment & disposal after expansion:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment & Disposal |
|---|---|---|---|---|---|
| 1 | Process | 94.8 | - | 94.8 | Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers. |
| 2 | Washings | - | 25 | 25 | |
| 3 | QC and R&D Lab | - | 3 | 3 | |
| 4 | Boiler blow down | - | 8 | 8 | |
| 5 | Cooling tower bleed off | - | 11 | 11 | |
| 6 | Scrubber | 5 | - | 5 | |
| 7 | Domestic | - | 8.5 | 8.5 | |
| **Total :** | | **99.8** | **55.5** | **155.3** | |

CHAIRMAN, SEAC

**Details of Solid Waste after expansion:**

| S. No | Description | Quantity | Mode of Disposal |
|---|---|---|---|
| 1. | Organic residue from Process | 8.28 TPD | Sent to SPCB Authorized Cement industries or to TSDF for Incineration/GEPIL Infrastructures Pvt Ltd |
| 2. | Distillation Bottom Residue | 1.6 TPD | |
| 3. | Spent carbon | 0.43 TPD | |
| 4. | Inorganic & Evaporation salt (Process) (10% moisture) | 9.63 TPD | Sent to SPCB Authorized Cement industries or to TSDF for Incineration/GEPIL Infrastructures Pvt Ltd |
| 5. | Evaporation Salts non-process | 1 TPD | |
| 6. | ETP Sludge | 0.4 TPD | |
| 7. | Boiler ash | 16 TPD | Sent to Brick Manufacturers |
| 8. | a) Detoxified Container / Liners drums, HDPE Carboys, Fiber drums | 1500Nos./ month | Disposed to SPCB Authorized agencies after complete detoxification |
| | b) PP Bags | 1600 Kg/month | |
| 9. | Spent Mixed solvents (unrecovered solvents) | 16 KLD | Sent to SPCB Authorized agencies |
| 10 | Spent Catalyst | 0.008 TPD | Sent to suppliers on buy back basis |
| 11. | Hydrogen Bromide Solution | 0.945 TPD | Sold to Authorized parties |
| 12. | Spent Acetic Acid MLs | 0.387 TPD | |
| 13. | Dilute Sulfuric Acid | 1.013 TPD | |
| 14. | Waste oils & Grease | 2 KL/annum | Sent to SPCB Authorized agencies for reprocessing |
| 15. | Used Lead acid Batteries | 60 Nos. / annum | Sent to suppliers on buy-back basis. |
| 16. | Misc. Waste (spill control waste) | Lumpsum | TSDF |
| 17. | Rejects | Lumpsum | |
| 18. | E- waste | Lumpsum | Authorized re-processor or TSDF |
| 19. | Waste papers & other types of packing scrap | Lumpsum | Sold to scrap vendors |
| 20. | Canteen waste | Lumpsum | Composted on site and reused for greenbelt |
| 21 | Bio Medical Waste | Lumpsum | Sent to SPCB authorized Biomedical waste incinerator |

After detailed discussion, the SEAC recommended the project for issue of EC.

| | |
|---|---|
| **Agenda Item No. 21** | **M/s. Medchem Pharma Private Limited., Sy.No.94, Rahimkhanpet (V), Atmakur (M), Yadadri Bhuvanagiri-District - Environmental Clearance (Expansion) - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/173033/2020 (EC)** |

The representative of the project proponent Sri A. Mohan Krishna; and Sri Kushal Bodhankar of M/s. KKB Envirocare Consultants Pvt. Ltd., Hyderabad, attended and made a presentation before the SEAC.

The SEAC noted that earlier MoE&F, GoI issued EC vide order dt.23.10.2007 and APPCB issued CTE vide order dt.14.10.2011 in the name of M/s. Tejahsri Intermediates Private Limited. Subsequently, M/s. **Medchem Pharma Private Limited acquired the land from** M/s. Tejahsri Intermediates Private Limited in 2016. The proponent obtained EC (Extension) in the year 2017 for existing project. Subsequently, the industry obtained EC afresh vide order dt.11.03.2020 and CTE on 14.10.2011 & 19.08.2020 without changes in project profile. Now, the proponent proposed expansion of API manufacturing unit in the existing plant premises. But, it was informed that though they obtained permissions for establishment of the industry, the industry could not be implemented completely as per EC. It is also observed from the google map that only Civil construction was carried out by the proponent in the proposed project site. Hence, the SEAC considered the present proposal as almost a Greenfield project as the industry has not yet installed equipments and not operating.

CHAIRMAN, SEAC

The SEAC noted the G.O.Ms. No. 95, dt.21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt.25.07.2013 & G.O.Ms.No. 24, dt.24.04.2019.of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project after proposed Expansion as follows:

Total area is 5.95 Ha, out of which Green area is 1.96 Ha developed for greenbelt (33%).

Nearest human habitation is Rahimkhanpet (V) @ 1.8 km; Pond near Plant site@ 0.8 km from the boundary of the site.

Project Cost for proposed expansion is Rs. 35.0 Crores including existing Rs.4.85 Crores. Budget for Environmental protection towards Capital Cost is Rs. 490 lakhs and Recurring Cost is Rs.970 Lakhs/annum. Budget for CER is Rs. 30.0 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

Products:

| S.No | Name of Product | Capacity | |
|---|---|---|---|
| | | Kg/day | TPM |
| 1 | Rabeprazole Sodium | 333.33 | 10 |
| 2 | Lansoprazole | 333.33 | 10 |
| 3 | Pantoprazole | 333.33 | 10 |
| 4 | Brompheniramine | 33.33 | 1 |
| 5 | Carisoprodol | 833.33 | 25 |
| 6 | Phenylephrine Hydrochloride | 666.67 | 20 |
| 7 | Quetiapine[]emifumarate | 33.33 | 1 |
| 8 | Sertraline Hydrochloride | 666.67 | 20 |
| 9 | Citalopram Hydrobromide | 333.33 | 10 |
| 10 | Propranolol | 66.67 | 2 |
| 11 | Aripiprazole | 33.33 | 1 |
| 12 | Oxutomide | 33.33 | 1 |
| 13 | Favipiravir | 100.00 | 3 |
| 14 | Hydroxychloroquine Sulfate | 166.67 | 5 |
| 15 | Atorvastatin Calcium | 166.67 | 5 |
| 16 | Acyclovir | 666.67 | 20 |
| 17 | Silodosin | 80 | 2 |
| 18 | 2-[[[4-(3-methoxy propoxy)-3-methyl2-pyridinyl] methyl]thio]-1H]Benzimidazole (Rabeprazoleint) | 133.33 | 4 |
| 19 | 2-[[[3-methyl-4-(2,2,2-trifluoro ethoxy)-2-pyridinyl] methyl] sulfanyl]- 1H-benzimidazole (Lansoprazoleint) | 133.33 | 4 |
| 20 | 3-[(3-Amino-4-methylaminobenzoyl) -pyridin-2-yl-amino]-propionic acid ethyl ester (Dabigatranint) | 133.33 | 4 |
| 21 | N-(4-Cyanophenyl)-glycine (Dabigatranint | 133.33 | 4 |
| **Maximum any 8 campaign products out of 21 products** | | **4166.67** | **125.0** |
| **R & D and Validation Products** | | **5** | **0.15** |
| **Maximum any 8 campaign products out of 21 products along with R & D and Validation Products** | | 4171.67 | **125.15** |

CHAIRMAN, SEAC

**List of By-products:**

| By-Product | kg/day | TPA | Product |
|---|---|---|---|
| Dilute Sulfuric Acid | 3166.64 | 1140 | Rabeprazole Sodium. Lansoprazole |
| Hydrogen Bromide Solution | 1828.34 | 658.2 | Phenylephrine Hydrochloride. Aripiprazole |
| Spent Acetic Acid MLs | 889.63 | 320.26 | 2-[[[4-(3-methoxy propoxy)-3-methyl-2-pyridinyl] methyl]thio]-1H-Benzimidazole (Rabeprazoleint) & 2-[[[3-methyl-4-(2,2,2-trifluoro ethoxy)-2-pyridinyl] methyl] sulfanyl]-1H-benzimidazole (Lansoprazoleint) |

**Details of Utilities, Stacks & Air pollution control equipments after expansion:**

| S.No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Coal fired Boiler:**<br>1x2 TPH (standby)<br>1x6 TPH<br>1x4 TPH<br>1x6 TPH (standby) | <br>30 m<br>30 m<br>30 m<br>30 m | <br>Multicyclone / bag filter<br>Multicyclone / bag filter<br>Multicyclone / bag filter<br>Multicyclone / bag filter |
| 2 | **Thermic fluid heater**<br>6 lakh Kcal/hr Diesel fired | 30 m | -- |
| 3 | **DG Sets:**<br>1x1010 KVA<br>1x500 KVA | Adequate height | Acoustic enclosure |

The process emissions containing Hydrogen Chloride, Sulphur Dioxide, Ammonia are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide, Oxygen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen is diffused with Flame Arrestor.

**Details of Water requirement after expansion:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 122.8 | - | 122.8 |
| 2 | Washings | 30 | - | 30 |
| 3 | QC & R&D | 3 | - | 3 |
| 4 | Scrubber | 6 | - | 6 |
| 5 | Boiler Feed | 31 | 17 | 48 |
| 6 | Cooling Tower | - | 156 | 156 |
| 7 | Domestic | 12 | - | 12 |
| 8 | Gardening | 25 | - | 25 |
| | **Total** | **229.8** | **173** | **402.8** |

**Details of Effluent generation, treatment & disposal after expansion:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment & Disposal |
|---|---|---|---|---|---|
| 1 | Process | 133.4 | - | 133.4 | Zero Liquid Discharge System i.e.. HTDS: Stripper, MEE & AFFD LTDS: Biological ETP & RO. Treated effluent to be reused in cooling towers and Boiler make-up. |
| 2 | Washings | - | 30 | 30 | |
| 3 | QC and R&D Lab | - | 3 | 3 | |
| 4 | Boiler blow down | - | 8 | 8 | |
| 5 | Cooling tower bleed of | - | 13 | 13 | |
| 6 | Scrubber | 5 | - | 5 | |
| 7 | Domestic | - | 8.5 | 8.5 | |
| Total : | | 138.4 | 62.5 | 200.9 | |

CHAIRMAN, SEAC

**Details of Solid Waste after expansion:**

| S. No | Description | Quantity | Mode of Disposal |
|---|---|---|---|
| 1. | Organic residue from Process | 6.92 TPD | Sent to SPCB Authorized Cement industries or to TSDF for Incineration/GEPIL Infrastructures Pvt Ltd |
| 2. | Distillation Bottom Residue | 1.1 TPD | |
| 3 | Spent carbon (Dry) | 0.31 TPD | |
| 4. | Inorganic & Evaporation salt (Process) (10% moisture) | 6.69 TPD | Sent to SPCB Authorized Cement industries or to TSDF for Landfill/GEPIL Infrastructures Pvt Ltd |
| 5. | Evaporation Salts non-process | 1 TPD | |
| 6. | ETP Sludge | 0.5 TPD | |
| 7. | Boiler ash | 16 TPD | Sent to Brick Manufacturers |
| 8. | a) Detoxified Container / Liners drums, HDPE Carboys, Fiber drums | 1500Nos./ month | Disposed to SPCB Authorized agencies after complete detoxification |
| | b) PP Bags | 1600 Kg/month | |
| 9. | Spent Mixed solvents (unrecovered solvents) | 15 KLD | Sent to SPCB Authorized agencies |
| 10. | Spent Catalyst | 0.01 TPD | Sent to suppliers on buy back basis |
| 11. | Dilute Sulfuric Acid | 3.167 TPD | Sold to Authorized parties |
| 12. | Hydrogen Bromide Solution | 1.83 TPD | |
| 13. | Spent Acetic acid ML's | 0.89 TPD | |
| 14 | Waste oils & Grease | 2 KL/annum | Sent to SPCB Authorized agencies for reprocessing |
| 15. | Used Lead acid Batteries | 60 Nos / annum | Sent to suppliers on buy-back basis. |
| 16. | Misc. Waste (spill control waste) | Lumpsum | TSDF |
| 17. | Rejects | Lumpsum | |
| 18. | E- waste | Lumpsum | Authorized re-processor or TSDF |
| 19 | Waste papers & other types of packing scrap | Lumpsum | Sold to scrap vendors |
| 20. | Canteen waste | Lumpsum | Composted on site and reused for greenbelt |
| 21 | Bio Medical Waste | Lumpsum | Sent to SPCB authorized Biomedical waste incinerator |

After detailed discussion, the SEAC recommended the project for issue of EC.

| | |
|---|---|
| Agenda Item No. 22 | **M/s. MSN Laboratories Private Limited, Unit-I, Sy. Nos.: 317, 318, 320, 321, 322, 323, 604 & 605, Notified Industrial Area, Rudraram (V), Patancheru (M), Sangareddy District - Environmental Clearance (Expansion) - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/173060/2020 (EC)** |

The representative of the project proponent Sri Nagamalleshwara Rao; and Sri Kushal Bodhankar of M/s. KKB Envirocare Consultants Pvt. Ltd., Hyderabad, attended and made a presentation before the SEAC.

It was informed that the existing industry was established in the year 1982 and it was operating with CFO dt.31.03.2004. Subsequently, the industry obtained EC vide order dt.03.02.2017 from the SEIAA and CFE on 25.04.2017 for expansion for manufacture of Bulk Drugs & Intermediates.

The proponent is operating with latest CFO dt. 14.12.2016.

The proponent submitted Self-compliance Report for conditions stipulated in EC & CFO.

The SEAC noted the G.O.Ms. No. 95, dt.21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt.25.07.2013 & G.O.Ms.No. 24, dt.24.04.2019 of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

CHAIRMAN, SEAC

The SEAC noted the contents of the EMP report and noted the details of the project after proposed Expansion as follows:

Total area is 36.42 Ha, out of which Green area is 12.2 Ha ( 33.5 %).

Nearest human habitation is Rudraram (V) @ 0.73km: Nearest water body is Kottacheruvu at 100 m to the industry and pond near Isnapur (V) @ 0.7km: No Nearest RF from the industry.

Project Cost for proposed expansion is Rs 675.4 Crores including existing Rs.375.4 Crores. Budget for Environmental protection for expansion towards Capital Cost is Rs. 2000 lakhs and Recurring Cost is Rs. 3825 Lakhs/annum. Budget for CER is Rs 3.0 Crores in first 5 years

The details of Products, by-products & production capacity are as following:

**Products:**

| S.No | Name of Product | Capacity | |
|---|---|---|---|
| | | Kg/day | TPM |
| 1 | Clopidogrel Bisulfate | 500 | 15 |
| 2 | Duloxetine Hydrochloride | 333.33 | 10.00 |
| 3 | Dutasteride | 66.67 | 2.00 |
| 4 | Eplerenone | 333.33 | 10.00 |
| 5 | Ezetimibe | 166.67 | 5.00 |
| 6 | Finasteride | 70.00 | 2.10 |
| 7 | Ketorolac Tromethamine | 333.33 | 10.00 |
| 8 | OlmesartanMedoxomil | 133.33 | 4.00 |
| 9 | Pantoprazole Sodium Sesquihydrate | 666.67 | 20.00 |
| 10 | Pitavastatin Calcium | 100.00 | 3.00 |
| 11 | Prasugrel Hydrochloride | 66.67 | 2.00 |
| 12 | Rosuvastatin Calcium | 400 | 12.00 |
| 13 | SalmeterolXinafoate | 33.33 | 1.00 |
| 14 | Terbinafine Hydrochloride | 433.33 | 13.00 |
| 15 | Voriconazole | 166.67 | 5.00 |
| 16 | AliskirenHemifumarate | 166.67 | 5.00 |
| 17 | Almotriptan Malate | 33.33 | 1.00 |
| 18 | Ambrisentan | 1.67 | 0.05 |
| 19 | Arformoterol Tartrate | 1.67 | 0.05 |
| 20 | Azelastine Hydrochloride | 16.67 | 0.50 |
| 21 | AzilsartanMedoxomil Potassium | 16.67 | 0.50 |
| 22 | Bosentan | 66.67 | 2.00 |
| 23 | DabigatranEtexilateMesylate | 333.33 | 10.00 |
| 24 | Deferasirox | 166.67 | 5.00 |
| 25 | Dexlansoprazole | 66.67 | 2.00 |
| 26 | Dronedarone Hydrochloride | 166.67 | 5.00 |
| 27 | Esmolol Hydrochloride | 33.33 | 1.00 |
| 28 | FosaprepitantDimeglumine | 3.33 | 0.10 |
| 29 | Olopatadine Hydrochloride | 16.67 | 0.50 |
| 30 | PaliperidonePalmitate | 10.00 | 0.30 |
| 31 | Naftifine Hydrochloride | 83.33 | 2.50 |
| 32 | Posaconazole | 66.67 | 2.00 |
| 33 | PramipexoleDihydrochloirde Monohydrate | 16.67 | 0.50 |
| 34 | Roflumilast | 5.00 | 0.15 |
| 35 | Rufinamide | 66.67 | 2.00 |
| 36 | Silodosin | 33.33 | 1.00 |
| 37 | Solifenacin Succinate | 33.33 | 1.00 |
| 38 | Tolvaptan | 66.67 | 2.00 |
| 39 | Trospium Chloride | 33.33 | 1.00 |
| 40 | Vigabatrin | 333.33 | 10.00 |



CHAIRMAN, SEAC

| | | | |
|---|---|---|---|
| 41 | Zileuton | 33.33 | 1.00 |
| 42 | Alfuzosin Hydrochloride | 33.33 | 1.00 |
| 43 | FormoterolFumarate | 6.67 | 0.20 |
| 44 | Phytomadione | 6.67 | 0.20 |
| 45 | Apixaban | 33.33 | 1.00 |
| 46 | Prasugrel Maleate | 33.33 | 1.00 |
| 47 | Tofacitinib Citrate | 33.33 | 1.00 |
| 48 | Rivaroxaban | 16.67 | 0.50 |
| 49 | Bazedoxifene Acetate | 16.67 | 0.50 |
| 50 | Avanafil | 66.67 | 2.00 |
| 51 | Alcaftadine | 1.67 | 0.05 |
| 52 | Alogliptin Benzoate | 33.33 | 1.00 |
| 53 | Mirabegron | 33.33 | 1.00 |
| 54 | Ivacaftor | 16.67 | 0.50 |
| 55 | BepotastineBesilate | 2.50 | 0.08 |
| 56 | DapagliflozinPropanediol Monohydrate | 8.33 | 0.25 |
| 57 | EltrombopagOlamine | 16.67 | 0.50 |
| 58 | Lorcaserin Hydrochloride Hemihydrate | 33.33 | 1.00 |
| 59 | Rifaximin | 33.33 | 1.00 |
| 60 | TreprostinilDiethanolamine | 33.33 | 1.00 |
| 61 | Neostigmine Methylsulfate | 33.33 | 1.00 |
| 62 | Olanzapine | 66.67 | 2.00 |
| 63 | GemifloxacinMesylate | 66.67 | 2.00 |
| 64 | Iloperidone | 66.67 | 2.00 |
| 65 | Asenapine Maleate | 58.33 | 1.75 |
| 66 | Trovafloxacin | 58.33 | 1.75 |
| 67 | Avasimibe | 25.00 | 0.75 |
| 68 | Satigrel | 25.00 | 0.75 |
| 69 | Ramatroban | 25.00 | 0.75 |
| 70 | Tiotropium Bromide Monohydride | 25.00 | 0.75 |
| 71 | Darifenacin Hydrobromide | 25.00 | 0.75 |
| 72 | Tiagabine Hydrochloride | 16.67 | 0.50 |
| 73 | Cabergoline | 16.67 | 0.50 |
| 74 | Udenafil | 16.67 | 0.50 |
| 75 | Dexmedetomidine | 16.67 | 0.50 |
| 76 | RasagilineMesylate | 16.67 | 0.50 |
| 77 | Balofloxacin | 16.67 | 0.50 |
| 78 | Teriflunomide | 16.67 | 0.50 |
| 79 | ClopidogrelBesylate | 166.67 | 5.00 |
| 80 | Paliperidone | 8.33 | 0.25 |
| **Maximum 30 Products** | | **5786.67** | **173.60** |
| **R&D Products** | | **10** | **0.30** |
| **Production Capacity (Maximum 30 Products at any given point of time out of total 80 Products along with R & D Products)** | | **5796.67** | **173.90** |

**Details of Utilities, Stacks & Air pollution control equipment's after expansion:**

| S.No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Coal fired Boiler:** | | |
| | Permitted. 16 TPH | 40 m | Multicyclone / bag filter |
| | 10 TPH | 32 m | Multicyclone / bag filter |
| | 10 TPH (standby) | 32 m | Multicyclone / bag filter |
| 2 | **Thermic fluid heater:** | | -- |
| | Permitted- 4 lakh kcal/hr | 30 m | |



CHAIRMAN, SEAC

| | | | |
|---|---|---|---|
| 3 | **DG Sets:**<br>Existing: 1x380 KVA<br>Permitted: 6 x1500 KVA.<br>3 x1010 KVA<br>4 x500 KVA | Adequate height | Acoustic enclosure |

The **process emissions** containing Hydrogen Chloride, Sulphur dioxide, Ammonia & Hydrogen Bromide are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide, Nitrogen, Oxygen gas are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen, Butane is diffused with Flame Arrester.

**Details of Water requirement after expansion:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 365.5 | - | 365.5 |
| 2 | Washings | 46 | - | 46 |
| 3 | QC & R& D | 5 | - | 5 |
| 4 | Scrubber | 10 | - | 10 |
| 5 | Boiler Feed | 125<br>(20% makeup) | - | 125 |
| 6 | Cooling Tower | 213 | 537 | 750 |
| 7 | DM Regeneration | 13 | - | 13 |
| 8 | Domestic | 50 | 50<br>(Fresh water RO rejects for domestic flushing) | 100 |
| 9 | Gardening | 150 | - | 150 |
| | Total | 977.5 | 587 | 1564.5 |

**Details of Effluent generation, treatment & disposal after expansion:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment & Disposal |
|---|---|---|---|---|---|
| 1 | Process | 372.9<br>(385.7*) | - | 372.9<br>(385.7*) | Zero Liquid Discharge System i.e.,<br>**HTDS**: Stripper, MEE & ATFD.<br>**LTDS**: Biological ETP & RO.<br><br>Treated effluent to be reused in cooling towers. |
| 2 | Washings | - | 46 | 46 | |
| 3 | QC and R&D Lab | - | 5 | 5 | |
| 4 | Boiler blow down | - | 21 | 21 | |
| 5 | Cooling tower bleed of | - | 63 | 63 | |
| 6 | DM Regeneration | 13 | - | 13 | |
| 6 | Scrubber | 10 | - | 10 | |
| 7 | Domestic | - | 80 | 80 | |
| **Total :** | | **395.9** | **215** | **610.9** | |

Note: *385.7 Tons of effluent consists of 372.9 KLD effluent and 12.87 Ton of salts (Maximum on various combinations

**Details of Solid Waste after expansion:**

| S.No | Description | Quantity | Mode of Disposal |
|---|---|---|---|
| 1. | Organic residue from Process | 8.62 TPD | Sent to SPCB Authorized Cement industries / TSDF |
| 2. | Spent Carbon | 0.23 TPD | |
| 3. | Spent Activated Carbon from Activated Carbon Filter | 0.25 TPD | |
| 4. | Distillation Bottom Residue (1% of spent solvents) | 2.2 TPD | |
| 5. | Distillation mixed Salts | 10 TPD | |
| 6. | Inorganic & Evaporation salt (Process) | 15.95 TPD | |
| 7. | Evaporation salt (Non-Process) | 2.46 TPD | |



CHAIRMAN, SEAC

| | | | |
|---|---|---|---|
| 8. | ETP Sludge with 50% moisture | 4 TPD | |
| 9. | Boiler Ash | 43 TPD | Sold to Cement Brick Manufacturers |
| 10 | a) Detoxified Container / Liners drums<br>b) HDPE Carboys<br>c) Fiber Drums<br><br>d) PP Bags | 10,000 Nos./ month<br><br>600 Kg/month | Disposed to SPCB Authorized agencies after complete detoxification |
| 11. | Spent solvents (with moisture) | 266 KLD | Recovery within the premises duly sending the residue to Authorized agencies |
| 12. | Recovered Solvents from spent solvents | 218 TPD | Reuse in process / Send to authorized recyclers |
| 13. | Spent Mixed solvents | 27 KLD | Sent to SPCB Authorized agencies |
| 14. | Waste oils & Grease | 8 KL/A | Sent to SPCB Authorized agencies for reprocessing / recycling. |
| 15. | Used Lead acid Batteries | 200 Nos. / annum | Sent to suppliers on buy-back basis. |
| 16. | Misc. Waste (spill control waste) | L.S | TSDF |
| 17. | Spent Catalyst (Raney Nickel, Palladium Carbon & Rhodium on Carbon, etc.) (Raney Nickel, Palladium Carbon & Rhodium on Carbon, etc.) | 150 TPA | Sold to suppliers on buy-back basis / auth. reprocessers. |
| 18. | E waste | 2 TPA | Sent to TSPCB Authorized agencies |
| 19. | Municipal Solid Waste (Canteen food waste) | 0.5 TPD | Disposed to Panchayat authorized agencies |
| 20. | Paper waste, & Misc | 0.5TPD | Scrap venders |

The SEAC noted that the proponent proposed expansion by increasing the production capacity from 1762.8 TPA (as per EC) to 2086.8 TPA and observed that the proposed production is less than 50% of the permitted production capacity.

After detailed discussions, the SEAC recommended the project for issue of EC.

| | |
|---|---|
| **Agenda Item No. 23** | **M/s. MSN Laboratories Private Limited, Unit-II, Sy.Nos. 50p, 53/A, 54/A, 54/U, 53/EE, 54/E, 53/U, 54/EE, 53E and 54/AA in Kardanur (V), Patancheru (M), Sangareddy District - Environmental Clearance (Expansion) - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/173117/2020 (EC)** |

The representative of the project proponent Sri Nagamallesham Rao, and Sri Kushal Bodhankar of M/s. KKR Envirocare Consultants Pvt. Ltd., Hyderabad, attended and made a presentation before the SEAC.

The SEAC noted that the industry obtained EC vide order dt 15-07-2005 from the MoE&F, GoI for the existing unit in the name of M/s. Venkatarama Chemicals Limited M/s MSN Laboratories Limited Unit-II Purchased M/s. Venkatarama Chemicals Limited on 01-07-2010.

The SEAC noted that the industry obtained CTE (CPM) on 08.07.2013 for manufacture of Bulk Drugs & Intermediates.

The industry is operating with latest CFO dt.25.02.2016.

The prpoponent submitted Self-compliance Report for conditions stipulated in EC & CFO



CHAIRMAN, SEAC

The SEAC noted the G.O.Ms. No. 95, dt.21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt.25.07.2013 & G.O.Ms.No. 24, dt.24.04.2019.of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project after proposed Expansion as follows.

Total area is 3.66 Ha, out of which Green area is 1.548 Ha (42.3 %).

Nearest human habitation is Kardanur @ 0.95 km; Nakkavagu flows adjacent to industry.

Project Cost for proposed expansion is Rs. 149.97 Crores including existing Rs.125.97 Crores. Budget for Environmental protection for expansion towards Capital Cost is Rs. 300 lakhs and Recurring Cost is Rs. 632 Lakhs/annum. Budget for CER is Rs. 24 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

**Products:**

| S.No | Name of Product | Capacity | |
|---|---|---|---|
| | | Kg/day | TPM |
| 1 | Capecitabine | 110 | 3.30 |
| 2 | Pemetrexed Disodium Hepta hydrate | 18.33 | 0.55 |
| 3 | ImatinibMesylate | 66.67 | 2.00 |
| 4 | Irinotecan Hydrochloride | 54.33 | 1.63 |
| 5 | Paclitaxel | 1.67 | 0.05 |
| 6 | Topotecan Hydrochloride | 1.00 | 0.03 |
| 7 | Gemcitabine Hydrochloride | 16.67 | 0.50 |
| 8 | Bicalutamide | 33.33 | 1.00 |
| 9 | Docetaxel Trihydrate | 1.67 | 0.05 |
| 10 | Abiraterone Acetate | 33.33 | 1.00 |
| 11 | Aclidinium Bromide | 3.33 | 0.10 |
| 12 | AfatinibDimaleate | 3.33 | 0.10 |
| 13 | Axitinib | 3.33 | 0.10 |
| 14 | Azacitidine | 3.33 | 0.10 |
| 15 | Bendamustine Hydrochloride | 3.33 | 0.10 |
| 16 | Bexarotene | 6.67 | 0.20 |
| 17 | Bimatoprost | 5.00 | 0.15 |
| 18 | Bortezomib | 3.33 | 0.10 |
| 19 | Bosutinib | 55 | 1.65 |
| 20 | Cabazitaxel | 3.33 | 0.10 |
| 21 | CarboprostTromethamine | 0.33 | 0.01 |
| 22 | Carfilzomib | 3.33 | 0.10 |
| 23 | Carmustine | 3.33 | 0.10 |
| 24 | Clofarabine | 3.33 | 0.10 |
| 25 | Crizotinib | 4.17 | 0.13 |
| 26 | Cyclophosphamide | 4.00 | 0.12 |
| 27 | DabrafenibMesylate | 3.33 | 0.10 |
| 28 | Decitabine | 3.33 | 0.10 |
| 29 | Dasatinib | 7.33 | 0.22 |
| 30 | Dasatinibpropyleneglycol | 6.67 | 0.20 |
| 31 | Enzalutamide | 3.33 | 0.10 |
| 32 | Epoprostenol Sodium | 0.33 | 0.01 |
| 33 | Erlotinib Hydrochloride | 55.00 | 1.65 |
| 34 | Fingolimod Hydrochloride | 3.33 | 0.10 |
| 35 | Gefitinib | 10.00 | 0.30 |
| 36 | Ibrutinib | 10.00 | 0.30 |



CHAIRMAN, SEAC

| | | | |
|---|---|---|---|
| 37 | IngenolMebutate | 3.33 | 0.10 |
| 38 | Ixabepilone | 1.67 | 0.05 |
| 39 | Lapatinib | 3.33 | 0.10 |
| 40 | Latanoprost | 0.33 | 0.01 |
| 41 | Misoprostol | 7.00 | 0.21 |
| 42 | Micafungin | 23.33 | 0.70 |
| 43 | Naftorafine Hydrochloride | 2.00 | 0.06 |
| 44 | Nilotinib | 68.5 | 2.06 |
| 45 | Pazopanib Hydrochloride | 16.67 | 0.50 |
| 46 | Plerixafor | 3.33 | 0.10 |
| 47 | Ponalidomide | 3.33 | 0.10 |
| 48 | Ponatinib | 3.33 | 0.10 |
| 49 | Regorafinib | 6.67 | 0.20 |
| 50 | Ruxolitinib Phosphate | 3.33 | 0.10 |
| 51 | SorafenibTosylate | 16.67 | 0.50 |
| 52 | Tafluprost | 0.33 | 0.01 |
| 53 | Thiotepa | 1.67 | 0.05 |
| 54 | Travoprost | 0.33 | 0.01 |
| 55 | UnoprostoneIsopropylester | 0.33 | 0.01 |
| 56 | Vemurafenib | 3.33 | 0.10 |
| 57 | Vismodegib | 6.67 | 0.20 |
| 58 | Idelalisib | 16.5 | 0.50 |
| 59 | Ixazomib Citrate | 3.33 | 0.10 |
| 60 | Lenalidomide | 3.33 | 0.10 |
| 61 | NintedanibEsylate | 3.33 | 0.10 |
| 62 | Odanacatinib | 3.33 | 0.10 |
| 63 | OsimertinibMesylate | 3.33 | 0.10 |
| 64 | Romidepsin | 3.33 | 0.10 |
| 65 | SonidegibDiphosphate | 6.67 | 0.20 |
| 66 | TrametinibDimethylsulfoxide | 0.33 | 0.01 |
| 67 | Belinostat | 1.67 | 0.05 |
| 68 | Cabozantinib (S)-malate | 6.67 | 0.20 |
| 69 | EribulinMesylate | 3.33 | 0.10 |
| 70 | Fludarabine Phosphate | 6.67 | 0.20 |
| 71 | Iloprost | 0.33 | 0.01 |
| 72 | Limaprost | 1.67 | 0.05 |
| 73 | Lubiprostone | 0.33 | 0.01 |
| 74 | Olaparib | 3.33 | 0.10 |
| 75 | Palbociclib | 6.67 | 0.20 |
| 76 | Panobinostat Lactate | 3.33 | 0.10 |
| 77 | Neraunib | 3.33 | 0.10 |
| 78 | Palonosetron Hydrochloride | 0.83 | 0.02 |
| 79 | Alectinib Hydrochloride | 3.33 | 0.10 |
| 80 | Ceritinib | 3.33 | 0.10 |
| 81 | Venetoclax | 6.67 | 0.20 |
| 82 | Dacomitinib Monohydrate | 1.67 | 0.05 |
| 83 | Dexrazoxane | 3.33 | 0.10 |
| 84 | Indoximod | 1.67 | 0.05 |
| 85 | LenvatinibMesylate | 3.33 | 0.10 |
| 86 | Midostaurine | 1.67 | 0.05 |
| 87 | Rilsocielib Succinate | 3.33 | 0.10 |
| 88 | Sunitinib Malate | 3.33 | 0.10 |
| 89 | Trabectedin | 1.67 | 0.05 |
| **Maximum 25 Products** | | **665.33** | **19.96** |
| **R&D Products** | | **5** | **0.15** |
| **Production Capacity (Maximum 25 Products at any given point of time out of total 89 Products along with R & D Products)** | | **670.33** | **20.11** |



CHAIRMAN, SEAC

**Details of Utilities, Stacks & Air pollution control equipment's after expansion:**

| S.No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Coal fired Boiler:**<br>Existing: 1x1 TPH<br>Proposed: 1x2 TPH<br>1x3 TPH | <br>30 m<br>30 m<br>30 m | <br>Multicyclone / bag filter<br>Multicyclone / bag filter<br>Multicyclone / bag filter |
| 2 | **DG Sets:**<br>Existing: 1x500 KVA<br>1x125 KVA<br>Proposed: 1x500 KVA,<br>1x1010 KVA | Adequate height | Acoustic enclosure |

The process emissions containing Hydrogen Chloride, Sulphur dioxade, Ammonia, Hydrogen Bromide, Methylamine & Chloroethane are to be routed through Multi Stage Scrubber systems. The process emissions containing derivatives of Carbon dioxide, Nitrogen, Oxygen gas, Carbon Monoxide are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen, n-Butane, Isobutylene, Isobutane, Butone and Propane is diffused with Flame Arrestor

**Details of Water requirement after expansion:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1. | Process | 35.5 | - | 35.5 |
| 2. | Washings | 15 | - | 15 |
| 3. | QC & R& D | 2 | - | 2 |
| 4. | Scrubber | 5 | - | 5 |
| 5. | Boiler Feed | 34<br>(20% makeup) | | 34 |
| 6. | Cooling Tower | 32 (makeup) | 86 | 118 |
| 7. | Domestic | 30 | - | 30 |
| 8. | Gardening | 19 | - | 19 |
| | **Total** | **172.5** | **86** | **258.5** |

**Details of Effluent generation, treatment & disposal after expansion:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment & Disposal |
|---|---|---|---|---|---|
| 1 | Process | 35.7 | - | 35.7 | Zero Liquid Discharge System ie.,<br>**HTDS**: Stripper, MEE & ATFD.<br>**LTDS**: Biological ETP & RO.<br><br>Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers. |
| 2 | Washings | - | 15 | 15 | |
| 3 | QC and R&D Lab | - | 2 | 2 | |
| 4 | Boiler blow down | - | 5.6 | 5.6 | |
| 5 | Cooling tower bleed off | - | 9.8 | 9.8 | |
| 6 | Scrubber | 5 | - | 5 | |
| 7 | Domestic | - | 24 | 24 | |
| **Total :** | | **40.7** | **56.4** | **97.1** | |

**Details of Solid Waste after expansion:**

| S.No | Description | Quantity | Mode of Disposal |
|---|---|---|---|
| 1. | Organic residue | 0.65 TPD | Sent to SPCB Authorized Cement industries or to TSDF for Incineration/GEPIL Infrastructures Pvt Ltd/Authorized AFRF sites |
| 2. | Spent Carbon | 0.02 TPD | |
| 3. | Spent Activated Carbon from Activated Carbon Filter | 0.15 TPD | |
| 4. | Distillation Bottom Residue | 0.3 KLD | |
| 5. | Inorganic & Evaporation salt (Process) | 1.72 TPD | Sent to SPCB Authorized Cement industries/ Authorized AFRF sites or to |



CHAIRMAN, SEAC

| | | | |
|---|---|---|---|
| 6. | Evaporation salt (Non-process) | 0.2 TPD | TSDF for landfill/GEPIL Infrastructures Pvt Ltd |
| 7. | ETP Sludge | 0.2 TPD | |
| 8. | Boiler Ash | 11.2 TPD | Sold to Cement Brick Manufacturers |
| 9. | Container and Container Liners | 3000 (No's/month) | Disposed to SPCB Authorized agencies after complete detoxification |
| | HDPE Carboys | 2000 (No's/month) | |
| | Fiber Drums | 1000 kg/month | |
| | PP Bags | 1000 (Kg/month) | |
| 10. | Spent Mixed solvents | 3.5 KLD | Recovery within the premises duly sending the residue to Authorized agencies |
| 11 | Spent Catalyst | 0.01 TPD | Sent to SPCB Authorized agencies |
| 12. | Waste oils & Grease | 3 KL /annum | Sent to suppliers on buy back basis |
| 13. | Used Lead acid Batteries | 80 No's/Annum | Sent to SPCB Authorized agencies for reprocessing / recycling. |
| 14. | Misc Waste (spill control waste) | Lumpsum | Sent to suppliers on buy-back basis. |
| 15. | Rejects | Lumpsum | TSDF |
| 16. | E- waste | Lumpsum | Sold to suppliers on buy-back basis / auth. reprocessers. |
| 17. | Waste papers & other types of packing scrap | Lumpsum | Authorized re-processor or TSDF |
| 18. | Canteen waste | Lumpsum | Sold to scrap vendors |
| 19. | Bio Medical Waste | Lumpsum | Composted on site and reused for greenbelt |
| 20 | Non Hazardous waste – Used PPE | 15 TPA | Sent to SPCB authorized Biomedical waste incinerator |
| 21. | Insulation/Glass wool waste | 15 TPA | Sent to SPCB Authorized Cement industries/ Authorized AFRF industries/ TSDF/GEPIL. |
| 22. | Waste MS/ Aluminium Plastic scrap | 60 TPA | To outside parties |
| 23. | Paper waste & Misc. | 0.5 TPD | Scrap vendors |

During presentation the proponent informed that they proposed to treat the effluent generated from the industry in the combined ZLD system of M/s. MSN Pharmachem Pvt. Ltd., (unit-II) located in IDA Pashamylaram, Sangareddy District at a distance of about 8.8 km by Road and transportation of effluent is proposed with dedicated CPS tankers.

The SEAC noted that Expansion of the project may be permitted with dedicated ZLD system to treat the effluents, keeping in view of the G.O.Ms. No. 95, dt. 21.09.2007, G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019, but the industry is located within 1.0 km from IDA Pashamylaram as informed by the proponent where Ban is applicable. In this regard, the proponent requested to consider their request to treat the effluents generated from the industry in the combined ZLD system of M/s. MSN Pharmachem Pvt. Ltd., (Unit-II) and to re-use the treated effluent back in the industry, otherwise they will provide ZLD system within the site, if it is not permitted.

The SEAC observed that the proponent is proposing expansion of the project from 78.0 TPA to 241.32 TPA, which becomes more than 50% of the permitted production capacity. Hence, the SEAC decided to constitute a sub-committee with the following members to inspect the unit, verify records and submit report on the following:

i) Project modification
ii) Project cost
iii) ZLD System & its adequacy
iv) ETP modifications



CHAIRMAN, SEAC

v) Products: Comparism of existing and proposed (which are going for expansion)
vi) Verify Production details w.r.t. permitted for the past one year, as per ER-I/GST.
vii) Raw material: Comparism of existing and proposed (which are going for expansion)
viii) Solid waste: Comparism of existing and proposed (which are going for expansion)
ix) Impact on surroundings
x) Applicability of S.O.804 (E), dt.14.03.2017 & S.O. 1030 (E) dt.08.03.2018 issued by the MoEF&CC, GoI.
xi) Implementation of disaster management plan and safety measures in the existing project and proposed expansion.
xii) Greenbelt development
xiii) Impacts of project on nearest human habitation.
xiii) Justification of project w.r.t. G.O.Ms. No. 95, dt. 21.09.2007; G.O.Ms. No. 64, dt. 25.07.2013, & G.O.Ms. No. 24, dt.24.04.2019.

Members of Sub-Committee:
1. Sri Vinod goud.
2. Sri Siva Kumar.
Kr Krishna Reddy.

| | |
|---|---|
| **Agenda Item No. 24** | **M/s. MSN Pharmachem Private Limited, Unit-II, Plot No. 182 to 186, 192A, 193, 194, 195, 196 & 197 of Phase-II of IDA, Pashamailaram, Patancheru (M), Sangareddy District - Environmental Clearance - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/173435/2020 (EC)** |

The representative of the project proponent Sri Nagamalleshwara Rao; and Sri Kushal Bodhankar of M/s. KKB Envirocare Consultants Pvt. Ltd., Hyderabad, attended and made a presentation before the SEAC.

The proponent informed that the existing industry was established with CFE order dt.22.09.2003. Subsequently, the industry obtained EC vide order dt. 26-04-2018 from the SEIAA for expansion the existing unit. It was informed that currently the industry is not in operation.

The proponent submitted Self-compliance Report for conditions stipulated in EC.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019, of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project after proposed Expansion as follows:

Total area is 1.68 Ha, out of which Green area is 0.55 Ha (33%).

Nearest human habitation is Isnapur @ 1.5 Km (NE); Ponds near Isnapur Village @ 0.35 Km from the industry.

Project Cost for proposed expansion is Rs. 74.44 Crores including existing Rs.8.47 Crores. Budget for Environmental protection for expansion towards Capital Cost is Rs. 1155 lakhs and Recurring Cost is Rs. 1656 Lakhs/annum. Budget for CER is Rs. 75.0 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

**Products:**

| S.No | Name of Product | Capacity | |
|---|---|---|---|
| | | Kg/day | TPM |
| 1 | Clopidogrel Bisulfate | 233.33 | 7.00 |
| 2 | Montelukast Sodium | 166.67 | 5.00 |
| 3 | Ranolazine | 133.33 | 4.00 |



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| | | | |
|---|---|---|---|
| 4 | Moxifloxacin Hydrochloride | 200.00 | 6.00 |
| 5 | Sumatriptan Succinate | 66.67 | 2.00 |
| 6 | Tolterodine Tartrate | 16.67 | 0.50 |
| 7 | Telmisartan | 40.00 | 1.20 |
| 8 | Pregabalin | 366.67 | 11.00 |
| 9 | Lurasidone Hydrochloride | 166.67 | 5.00 |
| 10 | Memantine Hydrochloride | 3.33 | 0.10 |
| 11 | Carbinoxamine Maleate | 93.33 | 2.80 |
| 12 | Aprepitant | 4.33 | 0.13 |
| 13 | Oseltamivir Phosphate | 500.00 | 15.00 |
| 14 | Aripiprazole | 83.33 | 2.50 |
| 15 | Nebivolol Hydrochloride | 16.67 | 0.50 |
| 16 | Atorvastatin Calcium | 500.00 | 15.00 |
| 17 | Darifenacin Hydrobromide | 133.33 | 4.00 |
| 18 | Saxagliptin Monohydrate | 13.33 | 0.40 |
| 19 | Linagliptin | 13.33 | 0.40 |
| 20 | Lacosamide | 66.67 | 2.00 |
| 21 | Vilazodone Hydrochloride | 16.67 | 0.50 |
| 22 | Agomelatine | 3.33 | 0.10 |
| 23 | Darunavir | 53.33 | 1.60 |
| 24 | Levomilnacipran Hydrochloride | 6.67 | 0.20 |
| 25 | Sitagliptin Phosphate Monohydrate | 33.33 | 1.00 |
| 26 | Fesoterodine Fumarate | 3.33 | 0.10 |
| 27 | Milnacipran Hydrochloride | 16.67 | 0.50 |
| 28 | Sitagliptin Hydrochloride | 33.33 | 1.00 |
| 29 | Atazanavir Sulfate | 166.67 | 5.00 |
| 30 | Rilpivirine Hydrochloride | 3.33 | 0.10 |
| 31 | Vortioxetine Hydrobromide | 6.67 | 0.20 |
| 32 | Vildagliptin | 13.33 | 0.40 |
| 33 | Remdesivir | 566.67 | 17.00 |
| **Maximum 11 Products** | | **3133.33** | **94.00** |
| **R&D Products** | | **5** | **0.15** |
| **Production Capacity (Maximum 11 Campaign Products at any given point of time out of total 33 products along with R & D Products any point of time)** | | **3138.33** | **94.15** |

**Details of Utilities, Stacks & Air pollution control equipment's after expansion:**

| S.No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Coal fired Boiler:** | | |
| | Permitted: 1x3 TPH | 30 m | Multicyclone / bag filter |
| | 1x 6 TPH | 30 m | Multicyclone / bag filter |
| | 1x6 TPH | 50 m | Multicyclone / bag filter |
| | 1x10 TPH (standby) | 32 m | Multicyclone / bag filter |
| 2 | **DG Sets:** | | |
| | Permitted: 2 x 1500 KVA, 2 x 1010 KVA | Adequate height | Acoustic enclosure |

The **process emissions** containing Hydrogen Chloride & Ammonia are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide & Nitrogen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen sulfide used with Flame Arrestor



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Details of Water requirement after expansion:

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1. | Process | 129.9 | - | 129.9 |
| 2. | Washings | 30 | - | 30 |
| 3. | QC & R& D | 4 | - | 4 |
| 4. | Scrubber | 10 | - | 10 |
| 5. | Boiler Feed | 72 (20% makeup) | - | 72 |
| 6. | Cooling Tower | 91 | 209 | 300 |
| 7 | Domestic | 25 | - | 25 |
| 8. | Gardening | 7 | - | 7 |
| | **Total** | **368.9** | **209** | **577.9** |

Details of Effluent generation, treatment & disposal after expansion:

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment & Disposal |
|---|---|---|---|---|---|
| 1 | Process | 132.7 | - | 132.7 | Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO.<br>Treated effluent to be reused in cooling towers. |
| 2 | Washings | - | 30 | 30 | |
| 3 | QC and R&D Lab | - | 4 | 4 | |
| 4 | Boiler blow down | - | 12 | 12 | |
| 5 | Cooling tower bleed of | - | 25 | 25 | |
| 6 | Scrubber | 10 | - | 10 | |
| 7 | Domestic | - | 20 | 20 | |
| **Total :** | | **142.7** | **91** | **233.7** | |

Details of Combined ETP-ZLD Treatment after expansion:

| Sl. No. | Description | Wastewater (MSN Pharmachem Unit-II) (KLD) | Wastewater (MSN Labs Unit-II) (KLD) | Total Wastewater CZLD (KLD) | Treatment & Disposal |
|---|---|---|---|---|---|
| 1 | Process | 132.7 | 35.7 | 183.4 (HTDS) | Combined Zero Liquid Discharge System for MSN Pharmachem Unit-II & MSN Laboratories Unit-II i.e., **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO. Treated effluent to be reused in cooling towers |
| 2 | Scrubber | 10 | 5 | | |
| 3 | Washings | 30 | 15 | | |
| 4 | Boiler | 12 | 5.6 | | |
| 5 | Cooling Towers | 25 | 9.8 | 147.4 (LTDS) | |
| 6 | Q.C and R&D | 4 | 2 | | |
| 7 | Domestic | 20 | 24 | | |
| | **Total** | **233.7** | **97.1** | **330.8** | |

Details of Solid Waste after expansion:

| S.No | Description | Quantity | Mode of Disposal |
|---|---|---|---|
| 1. | Organic residue from Process | 4.97 TPD | Sent to SPCB Authorized Cement industries / TSDF during maintenance of Cement industries. |
| 2. | Distillation Bottom Residue | 0.5 TPD | |
| 3. | Spent carbon | 0.13 TPD | |
| 4. | Spent Activated Carbon from Activated Carbon Filter | 0.25 TPD | |
| 5. | Inorganic & Evaporation salt (Process) (with 10% moisture) | 5 TPD | Sent to SPCB Authorized Cement industries / TSDF |
| 6. | Evaporation salt (Non-Process) | 2.6 TPD | |
| 7. | ETP Sludge | 1 TPD | |



CHAIRMAN, SEAC

| | | | |
|---|---|---|---|
| 8. | Boiler ash | 24 TPD | Sent to Brick Manufacturers |
| 9. | Mixed salts with moisture from SRS (To remove the moisture content) | 2 TPD | Sent to SPCB Authorized Cement industries / TSDF |
| 10. | a) Detoxified Container / Liners drums, HDPE Carboys, Fiber Drums, | 6000 Nos./ month | Disposed to SPCB Authorized agencies after complete detoxification |
| | b) PP Bags | 2000 Kg/month | |
| 11 | Spent solvents with moisture | 133 TPD | Recovered within the premises duly sending the residue to HWMP (OR) Cement industries |
| 12. | Recovered Solvents from Spent solvents | 113 TPD | Reuse / sold to Recyclers |
| 13. | Spent Mixed solvents | 29 TPD | Sent to SPCB Authorized agencies for recovery (or) cement industries for co-processing |
| 14. | Waste oils & Grease | 6 KL/annum | Sent to SPCB Authorized agencies for reprocessing / recycling |
| 15. | Used Lead acid Batteries | 100 Nos. / annum | Sent to suppliers on buy-back basis. |
| 16. | Misc. Waste (spill control waste) | L.S. | TSDF |
| 17. | Rejects | L.S. | |
| 18. | E- waste | L.S. | HWMP-TSDF / Authorized recycler |
| 19. | Waste papers & other types of packing scrap | L.S. | Sold to scrap venders |
| 20. | Canteen waste | L.S. | Composted on site and reused for green belt / Send back to contractor |
| 21. | Bio Medical Waste | LS. | Sent to SPCB authorized Biomedical waste incinerator |

During presentation the proponent informed that they proposed the combined ZLD system to treat the effluent generated from the industry along with the effluents generated from M/s. MSN Laboratories Pvt. Ltd., (unit-II) located in Kardanur (V), Patancheru (M), Sangareddy District at a distance of about 8.8 km by Road and transportation of effluent is proposed with dedicated GPS tankers.

The SEAC noted that Expansion of the project may be permitted with dedicated ZLD system to treat the effluents of this Unit only (M/s. MSN Pharmachem Pvt. Ltd., Unit-II), keeping in view of the G.O.Ms. No. 95, dt. 21.09.2007; G.O.Ms. No. 64, dt. 25.07.2013; & G.O.Ms. No. 24, dt.24.04.2019 for the. In this regard, the proponent requested to consider their request to treat the effluents generated from the industry in the combined ZLD system along with the effluents generated from M/s. MSN Pharmachem Pvt. Ltd., (Unit-II) and to send the treated effluent back to the industry for re-use, otherwise they will provide ZLD system for treatment of effluents of M/s MSN Pharmachem Pvt. Ltd., Unit-II only

The SEAC observed that the proponent is proposing expansion of the project from 1071.0 TPA to 1129.8 TPA, which becomes less than 50% of the permitted production capacity.

After detailed discussions, the SEAC recommended the project for issue of EC.

| | |
|---|---|
| **Agenda Item No. 25** | **M/s. Vensai Laboratories, Sy. No. 10, Gaddapotharam (V), Jinnaram (M), Sangareddy District - Environmental Clearance - Reg.** |
| Proposal No. | SIA/TG/IND2/171248/2020 (EC) |

The representative of the project proponent Sri G. Subramanyam; and Sri Suresh Kumar of M/s. AM Enviro Engineers, Hyderabad, attended and made a presentation before the SEAC.

CHAIRMAN, SEAC

The SEAC noted that the existing industry is operating with Latest CFO order dt.08.11.2017 for manufacture of in-organic chemicals. Now, the industry proposed expansion and modified their existing unit from manufacture of in-organic chemicals to Bulk Drugs & Intermediates.

The SEAC noted that as the industry is changing the category from in-organic chemicals to Bulk Drugs & intermediates in the proposed expansion, it has to be treated as a new activity / unit only.

In this regard, the SEAC noted that:

- The industry is located within 1.0 km from IDA, Gaddapotharam wherein the State Government vide G.O.Ms. No. 95, dt. 21.09.2007 imposed restrictions on Establishment / Expansion of certain categories of industries (which includes all types of Bulk Drug manufacturing units except formulation) in all the industrial estates / industrial development areas and 1 km around these industrial areas in the Districts of Medak, Ranga Reddy, Mahaboobnagar & Nalgonda, subject to outcome of W.P. 19661/02 pending in the Hon'ble High Court.

- The State Government issued G.O.Ms. No. 64, dt. 25.07.2013 amending the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP. In the amendment order, it was mentioned that "provided that the expansion of production of all types of existing Bulk Drug & Bulk Drug intermediate manufacturing units are permitted, subject to the installation of Zero Liquid Discharge (ZLD) facilities by such units and subject to the outcome of cases pending in the National Green Tribunal, Southern Zone, Chennai or in any other court. The Pollution load of Industrial unit shall be assessed at the point of Discharge, as provided in Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981."

- The State Government issued G.O.Ms.No.24 dt.24.04.2019 further amending the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP. In the amendment order, it was mentioned that

  i) The expansion of production of all kinds of existing industrial units falling under the areas and categories covered by G.O.Ms.No.95 dt. 21.09.2007 are hereby permitted subject to compliance of the directions in the above mentioned orders of the Hon'ble NGT. dt.24.10.2017.
  ii) The ban imposed on the establishment of new industries of the categories and in the areas as mentioned in the G.O.Ms.95, dt.21.09.2007 shall continue.

Keeping in view of the above GOs, it is observed that the present proposal has to be considered as new activity / industry but not under expansion of the existing activity / industry as Bulk Drugs & Intermediates are proposed in the expansion, which cannot be permitted.

After detailed discussions and keeping in view of the above mentioned Government Orders (G.Os), the SEAC recommends to reject the proposal of expansion.

| | |
|---|---|
| **Agenda Item No. 26** | **M/s. Balaji Chemicals, Sy. No. 254, Nawabpet (V), Shivampet (M), Sangareddy District - Environmental Clearance - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/174240/2020 (EC)** |

The representative of the project proponent Sri Ch. Prajwal Reddy; and Sri Suresh Kumar of M/s.AM Enviro Engineers, Hyderabad, attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for established of API manufacturing unit.

The SEAC noted the G.O Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019, of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

CHAIRMAN, SEAC

The SEAC noted the contents of the EMP report and noted the details of the project after proposed Expansion as follows:

Total area is 8703.00 Sq.m. out of which Green area is 3,173.00 Sq.m. (36.4%)

Nearest human habitation is Nawabpet @. 3.0 km. Water body near Nawabpet @ 2.50km; Kankuntla RF @ 3.20 km from the industry.

Project Cost for proposed expansion is Rs. 8.0 Crores. Budget for Environmental protection towards Capital Cost is Rs.104.75 Lakhs and Recurring Cost is Rs.11.0 Lakhs/annum. Budget for CER is Rs.8.0 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

**Products:**

| S. NO | Name of the product | Capacity kgs/month | Capacity kgs/day |
|---|---|---|---|
| | **Drug Intermediates** | | |
| 1 | Cis Bromo Benzoate | 5000 | 166.67 |
| 2 | Ketosulfone | 5000 | 166.67 |
| 3 | Cis Tosylate | 5000 | 166.67 |
| 4 | N-(triphenylmethyl)-5-(4'-bromomethyl biphenyl-2-yl)-1 tetrazole [TTBB] | 5000 | 166.67 |
| 5 | N,N'-Carbonyl diimidazole | 5000 | 166.67 |
| 6 | 4-Chloromethyl-5-methyl-1 3-dioxol-2-one [DMDO] | 5000 | 166.67 |
| 7 | Racemic Sertraline Hydrochloride | 5000 | 166.67 |
| 8 | Meta Chloro Anisole | 5000 | 166.67 |
| | **Active Pharmaceutical Ingredients [Api's]** | | |
| 9 | Lopinavir | 5000 | 166.67 |
| 10 | Ritonavir | 5000 | 166.67 |
| 11 | Pantoprazole Sodium | 5000 | 166.67 |
| 12 | Amisulpride | 5000 | 166.67 |
| 13 | Olmesartan | 5000 | 166.67 |
| 14 | Pregabalin | 5000 | 166.67 |
| 15 | Tapentadol Hydrochloride | 5000 | 166.67 |
| | **Total (maximum any of 5 products at any point of time)** | **25000** | **833.35** |

It was informed that they proposed to manufacture above products with Worst Combination of ANY 5 products out of 15 products with Maximum Production capacity of 25 TPM and 100Kgs/Month of R&D Products.

**By-products:**

| S. NO | Name of the by-product | Quantity in kg/day | Disposal |
|---|---|---|---|
| 1 | Aluminium Hydroxide | 555 | For Sale |
| 2 | Sodium Hydroxide | 102.5 | Reuse/Sale |
| 3 | Ammonium Chloride | 625 | Reuse/Sale |

**Details of Utilities, Stacks & Air pollution control equipments after expansion:**

| S.No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Coal fired Boiler:** 1x2 TPH | 30 m | Cyclone separators with Bag filters. |
| 2 | **Thermic fluid heater** 1 x 2 Lakh K.cal/hr | 15 m | -- |
| 3 | **DG Sets:** Proposed; 1x325 kVA | Adequate height | Acoustic enclosure |

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The process emissions containing Sulphur dioxide, Hydrogen Chloride, Hydrogen Bromide & Ammonia are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide & Oxygen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen are to be safely dispersed into the atmosphere through water column.

**Details of Water requirement after expansion:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 12.31 | - | 12.31 |
| 2 | Washings | 1 | - | 1 |
| 3 | Boiler make up | 11.8 | - | 11.8 |
| 4 | Cooling towers make up | 27.5 | 14 | 41.5 |
| 5 | Domestic | 1 | - | 1 |
| 6 | Gardening | 1 | - | 1 |
| 7 | Scrubber System | 1.5 | - | 1.5 |
| | | **56.11** | **14** | **70.11** |

**Details of Effluent generation, treatment & disposal after expansion:**

| S. No. | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment & Disposal |
|---|---|---|---|---|---|
| 1 | Process | 10.47 | 5.84 | 16.31 | Zero Liquid Discharge System ie., **HTDS**: Stripper, MEE & ATFD. **LTDS**. Biological ETP & RO.<br><br>Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers. |
| 2 | Washings | - | 1.0 | 1.0 | |
| 3 | Biotech and R&D Lab | - | - | | |
| 4 | Boiler blow down | - | 1.68 | 1.68 | |
| 5 | Cooling tower bleed of | - | 4.13 | 4.13 | |
| 6 | Scrubber | 1.5 | - | 1.5 | |
| 7 | RO/DM Plant Rejects | - | - | - | |
| 8 | Domestic | - | 1.0 | 1.0 | |
| | **Total :** | **11.97** | **13.65** | **25.62** | |

**Details of Solid Waste after expansion:**

| S.No | Description | Quantity | Mode of Disposal |
|---|---|---|---|
| 1 | Organic Residue (Process residue + Solvent residue) | 1288 Kg/day | Sent to cement plants for co-incineration/TSDF |
| 2 | Spent Carbon | 30 Kg/day | |
| 3 | In Organic Residue | 356 Kg/day | Sent to TSDF |
| 4 | ETP Sludge | 30 Kg/day | |
| 5 | MEE salts | 1500 Kg/day | |
| 6 | Waste oils & Grease | 200 lts/year | Sent to SPCB authorized agencies for reprocessing / recycling |
| 7 | Detoxified Container & Container Liners | 200 No. s/ month | Disposed to TSPCB Authorized agencies after complete detoxification |
| 8 | Used Lead acid Batteries | 2 No.s/year | Sent to suppliers on buy back basis |
| 9 | Coal Ash | 2800 lts/day | Sold to cement industries for Brick manufacturers |
| 10 | Stripper Solvent MEE | 200 lts/day | Sent to cement plants for co-incineration |
| 11 | Spent mixed solvents | 200 lts/day | |

After detailed discussions, the SEAC recommended the project for issue of EC.

CHAIRMAN, SEAC

| Agenda Item No. 27 | M/s. Vivo Med Laboratories Private Limited, Sy.No.738/99, Lakdaram (V), Patancheru (M), Sangareddy District - Environmental Clearance - Reg. |
|---|---|
| Proposal No. | SIA/TG/IND2/170258/2020 (EC) |

The representative of the project proponent Sri C. Satyanarana Reddy; and Dr. Pallavi & Sri P.V. Raju of M/s. Pridhvi Envirotech Pvt.Ltd., Hyderabad, attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for established of API manufacturing unit.

The SEAC noted the G.O Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O Ms. No. 24, dt.24.04.2019, of the EFS&T Dept., GoAP

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project after proposed project as follows:

Total area is 15.0 Acres, out of which Green area is 6.7 Acres (45 %).

Nearest human habitation is Lakdaram @ 1.41 km; Surface Water body near Lakdaram @ 1.28 km, there is One Nearest RF which is at a distance of 9.8 km from the industry.

Project Cost for proposed project is Rs. 30.0 Crores. Budget for Environmental protection towards Capital Cost is Rs. 8.0 crores and Recurring Cost is Rs. 590.0 Lakhs/annum. Budget for CER is Rs.60.0 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

**Products:**

| S.No | Name of Product | Capacity | |
|---|---|---|---|
| | | Kg/day | TPM |
| 1 | Azithromycin | 300.00 | 9 |
| 2 | Hydroxychloroquine | 400.00 | 12 |
| 3 | Tenofovir Diisoproxil fumarate | 500.00 | 15 |
| 4 | Ritonavir | 500.00 | 15 |
| 5 | Olmesartan medoxomil | 200.00 | 6 |
| 6 | Valsartan | 600.00 | 18 |
| 7 | Omeprazole | 199.00 | 5.97 |
| 8 | Cetrizine Dihydrochloride | 500.00 | 15 |
| 9 | Telmisartan | 300.00 | 9 |
| 10 | 4,7-dichloroquinoline | 200.00 | 6 |
| 11 | 4-[(2-Trityl Tetrazole-5yl) Phenyl] Benzyl Bromide (TTBB) | 1500.00 | 45 |
| 12 | (3R)-3-(Carbamoyl Methyl)-5-Methyl Hexanoic Acid (-)-Phenyl Ethylamine (Pregabalin Intermediate) | 800.00 | 24 |
| 13 | Trityl Chloride | 3000.00 | 90 |
| 14 | 5-(1-Hydroxy-1-Methyl-Ethyl)-2-Propyl-3H-Imidazole-4-Carboxylic Acid Ethyl Ester (Olmesartan Intermediate) | 1000.00 | 30 |
| 15 | R& D Products | 1.00 | 0.03 |
| | **Total** | **10000.00** | **300.0** |

CHAIRMAN, SEAC

**By-products:**

| S.No | Name of the Product | Name of the By product | Capacity | |
|---|---|---|---|---|
| | | | Kg/day | TPM |
| 1 | (3R)-3-(Carbamoyl Methyl)-5-Methyl Hexanoic Acid (−)-Phenyl Ethylamine (Pregabalin Intermediate) | Ammonium Acetate | 1191.6 | 35.7 |
| 2 | 4,7-dichloroquinoline | Paraffin | 2400.0 | 72.0 |

**Details of Utilities, Stacks & Air pollution control equipments proposed:**

| S.No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Coal fired Boiler:** 2 x 6 TPH &1 x 4 TPH | 33 m | Cyclone Separator/Bag filters |
| 2 | **Thermic fluid heater** 2.0 Lakh K.cal/hr | 10 m | Adequate Stack |
| 3 | **DG Sets:** 3 x 500 kVA | Adequate height | Acoustic enclosure |

The process emissions containing Hydrogen Chloride, Sulphur dioxide, Nitrogen dioxide & Ammonia are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide & Oxygen gas are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen are to be safely dispersed into the atmosphere through water column.

**Details of Water requirement proposed:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 86.6 | - | 86.6 |
| 2 | Washings | 5.0 | - | 5.0 |
| 3 | Scrubber | 2.0 | - | 2.0 |
| 4 | QC, R & D and Pilot plant | 1.0 | - | 1.0 |
| 5 | Boiler make up | 70.0 | 60.0 | 130.0 |
| 6 | Cooling Towers make up | 50.0 | 50.0 | 100.0 |
| 7 | DM/Softner Plant back washes | 2.0 | - | 2.0 |
| 8 | Domestic | 10.0 | - | 10.0 |
| 9 | Gardening | 6.0 | - | 6.0 |
| | **Total** | **232.6** | **110.0** | **342.6** |

**Details of Effluent generation, treatment & disposal proposed:**

| S.No | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment & Disposal |
|---|---|---|---|---|---|
| 1 | Process | 98.4 | - | 98.4 | Zero Liquid Discharge System ie. **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO.<br><br>Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers. |
| 2 | Washings | 5.0 | - | 5.0 | |
| 3 | Scrubber | 2.0 | - | 2.0 | |
| 4 | QC, R & D, Pilot plant | 1.0 | - | 1.0 | |
| 5 | Boiler | - | 13.0 | 13.0 | |
| 6 | Cooling tower | - | 10.0 | 10.0 | |
| 7 | DM/ softener plant back washes | - | 2.0 | 2.0 | |
| 8 | Domestic | - | 8.0 | 8.0 | |
| | **Total :** | **106.4** | **33.0** | **139.4** | |

CHAIRMAN, SEAC

Details of Solid Waste proposed:

| S.No | Description | Quantity | Remarks |
|---|---|---|---|
| 1 | MEE salts with 4 % Moisture* | 188.5 TPM | Sent to TSDF |
| 2 | ETP Sludge | 50.0 TPM | |
| 3 | Inorganic residue | 7.1 TPM | |
| 4 | Process/ organic Residue | 169.5 TPM | Authorized Cement Industries for co-processing |
| 5 | Distillation residue | 53.1 TPM | |
| 6 | Spent Carbon | 20.1 TPM | |
| 7 | Off specification /date expired raw materials | 3.0 TPM | |
| 8 | Stripper waste | 183.6 TPM | |
| 9 | Ash from boilers | 456.0 | Sold to brick manufacturers |
| 10 | Waste /Used Oil | 500 LPM | Authorized Recyclers/ Re-processors |
| 11 | Mixed spent solvents | 1268 TPM | Authorized Recyclers |
| 12 | Used batteries | 10 Nos/Annum | Sent to Authorized Recyclers |
| 13 | Container & container liners of Hazardous waste & chemicals | 1000 Nos/Month | After detoxification, disposed to outside agencies |
| 14 | e-waste | 50 kgs/month | Authorized Recyclers/ Re-processors |

After detailed discussions, the SEAC recommended the project for issue of EC.

| Agenda Item No. 28 | M/s. Samvidha Pharma Chem (P) Limited., Sy.No.738/99, Sy.No.43, 45, 46, Devalamma Nagaram (V), Choutuppal (M), Yadadri Bhuvanagiri District - Environmental Clearance - Reg. |
|---|---|
| Proposal No. | SIA/TG/IND2/170321/2020 (EC) |

The representative of the project proponent Sri A. Nagamalleswara Reddy: and Dr. Pallavi & Sri P.V. Raju of M/s. Prithvi Envirotech Pvt.Ltd., Hyderabad, attended and made a presentation before the SEAC.

The SEAC noted that the proposal is for established of API manufacturing unit.

The SEAC noted the G.O.Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project after proposed project as follows:
Total area is 1.25 Acres. Out of which Green belt area is 0.44 Acres (35%).

Nearest human habitation is Antammagudem @ 1.81 km; Nearest water body is Dharmojigudem tank @ 1.62 km; Nearest RF is Malkapuram RF @ 3.80 km from the industry

Project Cost for proposed project is Rs. 10.0 Crores. Budget for Environmental protection towards Capital Cost is Rs. 3.0 crores and Recurring Cost is Rs. 148.0 Lakhs/annum. Budget for CER is Rs.20.0 lakhs in first 5 years.

CHAIRMAN, SEAC

The details of Products, by-products & production capacity are as following:

**Products:**

| S.No | Name of Product | Capacity | |
|---|---|---|---|
| | | Kg/day | TPM |
| 1 | Luliconazole | 35.00 | 1.05 |
| 2 | Favipiravir | 100.00 | 3.0 |
| 3 | lopinavir | 100.00 | 3.0 |
| 4 | Ritonavir | 100.00 | 3.0 |
| 5 | valsartan | 100.00 | 3.0 |
| 6 | Tevaborole | 100.00 | 3.0 |
| 7 | Ethyl-3-Amino(4-Methyl amino)-N-(pyridin-2-yl) benzamido propanoate | 135.00 | 4.05 |
| 8 | (S)-Tert-Butyl-4-Chloro-3-oxo phenyl butan-2-yl-carbonate | 135.00 | 4.05 |
| 9 | (2R,3R)-3-(2,4-Difluorophenyl)-3-hydroxy -2-methyl-4(1H-1,2,4-triazol-1-yl) butanethioamide | 59.00 | 1.77 |
| 10 | (2S,4Z)-5-Amino-2-(Di benzyl amino)-1,6-Di phenyl hex-4-ene-3-one | 135.00 | 4.05 |
| 11 | R & D products | 1.00 | 0.03 |
| | **TOTAL** | **1000.0** | **30.0** |

**Details of Utilities, Stacks & Air pollution control equipments proposed:**

| S.No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | Coal fired Boiler:<br>1 x 3 TPH | 30 m | Cyclone Separator |
| 2 | **Thermic fluid heater**<br>2 Lakh K.cal/hr | 10 m | Adequate Stack |
| 3 | DG Sets:<br>2 x 250 kVA. | Adequate height | Acoustic enclosure |

The **process emissions** containing Hydrogen Chloride & Sulphur dioxide are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide & Oxygen gas are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen are to be safely dispersed into the atmosphere through water column.

**Details of Water requirement Proposed:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 13.5 | - | 13.5 |
| 2 | Washings | 2.0 | - | 2.0 |
| 3 | Scrubbers | 1.0 | - | 1.0 |
| 4 | Boiler make up | 13.0 | 12.0 | 25.0 |
| 5 | Cooling Towers make up | 10.0 | 10.0 | 20.0 |
| 6 | DM/RO Plant | 1.0 | - | 1.0 |
| 7 | Domestic | 3.0 | - | 3.0 |
| 8 | Gardening | 2.0 | - | 2.0 |
| | Total | 45.5 | 22.0 | 67.5 |

CHAIRMAN, SEAC

**Details of Effluent generation, treatment & disposal Proposed:**

| S.No | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment & Disposal |
|---|---|---|---|---|---|
| 1 | Process | 15.7 | - | 15.7 | Zero Liquid Discharge System i.e. **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO. Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers. |
| 2 | Washings | 2.0 | - | 2.0 | |
| 3 | Scrubbers | 1.0 | - | 1.0 | |
| 4 | Boiler | - | 2.5 | 2.5 | |
| 5 | Cooling tower | - | 2.0 | 2.0 | |
| 6 | DM/ RO plant | - | 1.0 | 1.0 | |
| 7 | Domestic | - | 2.5 | 2.5 | |
| | **Total :** | **18.7** | **8.0** | **26.7** | |

**Details of Solid Waste Proposed:**

| S.No | Description | Quantity | Remarks |
|---|---|---|---|
| 1 | MEE salts with 4 % Moisture* | 1071.7 Kgs/day | Sent to TSDF |
| 2 | ETP Sludge | 100.0 Kgs/day | |
| 3 | Inorganic residue | 189.5 Kgs/day | |
| 4 | Process/ organic Residue | 944.4 Kgs/day | Authorized Cement Industries for co-processing |
| 5 | Distillation residue | 127.0 Kgs/day | |
| 6 | Spent Carbon | 85.9 Kgs/day | |
| 7 | Stripper Waste | 962.2 Kgs/day | |
| 8 | Ash from boilers | 2.9 Tons/day | Sold to brick manufacturers |
| 9 | Waste /Used Oil | 50 LPM | Authorized Recyclers/ Re-processors |
| 10 | Mixed spent solvents | 7.1 TPD | Authorized Recyclers |
| 11 | Used batteries | 2 Nos/Annum | Sent to Authorized Recyclers |
| 12 | containes & container liners of hazardous waste & chemicals | 500 Nos/Month | After detoxification, disposed to outside agencies |

The SEAC observed that the proposed site of the industry is located outside Industrial Area/ IDA and the total site area is only Ac. 1.25 which is very less. Hence, after detailed discussions, the SEAC informed the proponent to acquire additional land and submit supporting documents for further consideration.

| | |
|---|---|
| **Agenda Item No. 29** | **M/s. Sritha Chems Private Limited., Sy.No.40, Kuppanagar (V), Jharasangam (M), Sangareddy District - Environmental Clearance (Expansion) - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/172513/2020 (EC)** |

The representative of the project proponent Sri C.S. Ravi Kumar; and Dr. Pallavi & Sri P.V. Raju of M/s. Pridhvi Envirotech Pvt.Ltd., Hyderabad, attended and made a presentation before the SEAC.

M/s. Sritha Chems Private Limited was earlier in the name of M/s. Kaven Chlorides Pvt. Ltd., and this unit obtained CFO vide order dt.03.05.2002. Later on M/s. Sritha Chems Privat Limited acquired the sick unit (M/s. Kaven Chlorides Pvt. Ltd.,) with the support of Andhra Pradesh State Financial Corporation in Auction and obtained CFO vide order dt.21.08.2006 and subsequently obtained CFE for change of products vide order dt.07.10.2006.

The industry is operating with latest CFO dt 09.03.2017.

CHAIRMAN, SEAC

The prpuponent submitted Self-compliance Report for conditions stipulated in CTO.

The SEAC noted the G.O Ms. No. 95, dt. 21.09.2007 of the EFS&T Dept., GoAP: G.O Ms. No. 64, dt. 25.07.2013 & G.O.Ms. No. 24, dt.24.04.2019, of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project after proposed Expansion as follows:

Total area is Existing 2.54 Acres out of which Existing Green area is 0.8 Acres and proposed to develop 0.15 Acres of greenbelt. Total area of green belt after expansion is 0.95 Acres (37%)

Nearest human habitation is Kuppanagar @ 0.82 km. Pond near Miadpalli @ 2.32 km: Nearest RF is Bardipur RF @ 1.74 km from the industry.

Project Cost for proposed expansion is Rs. 5.0 Crores. Budget for Environmental protection towards Capital Cost is Rs 2.5 crores and Recurring Cost is Rs. 183.0 Lakhs/annum. Budget for CER is Rs.5.0 lakns in first 5 years.

The details of Products, by-products & production capacity are as following:

**Products:**

| S.No | Name of Product | Capacity | |
|---|---|---|---|
| | | Kg/day | TPM |
| 1 | (R)-(-)-3-Quinuclidinol Hydrochloride | 66.7 | 2.0 |
| 2 | (R)-(-)-Ethyl Nipecotate | 166.7 | 5.0 |
| 3 | 3-{[2-[(4-Cyano-phenylamino)methyl]-1- methyl-1H-benzoimidazole-5-carbonyl} pyridine-2-yl- amino}-propionic acid ethyl ester | 133.3 | 4.0 |
| 4 | 3-Chloro-5-acetyliminodibenzyl | 266.7 | 8.0 |
| 5 | 3-Pyridylacetic acid Hydrochloride | 166.7 | 5.0 |
| 6 | 4-[(4-Methylpiperazin-1-yl)methyl]-N-[4- methyl-3-[(4-pyridin-3-ylpyrimidin-2- yl) amino]phenyl] benzamide | 133.3 | 4.0 |
| 7 | 8-Chloro-5,10-dihydro-dibenzo[b,e] [1,4] diazepin-11-one | 500.0 | 15.0 |
| 8 | 5-[(R)-2-[2-(2-Ethoxyphenoxy)ethyl amino]propyl]-2-methoxy benzene sulfonamide Hydrochloride | 133.3 | 4.0 |
| 9 | Apixaban | 100.0 | 3.0 |
| 10 | Perampanel | 66.7 | 2.0 |
| 11 | Solifenacin Succinate | 133.3 | 4.0 |
| 12 | Valganciclovir Hydrochloride | 100.0 | 3.0 |
| 13 | Mirahegron | 133.3 | 4.0 |
| 14 | Ethambutol Dihydrochloride | 733.3 | 22.0 |
| 15 | Clozapine | 66.7 | 2.0 |
| 16 | Rivaroxaban | 166.7 | 5.0 |
| 17 | Favipiravir | 133.3 | 4.0 |
| 18 | Remdesivir | 266.7 | 8.0 |
| 19 | Fenoprofen Calcium Dihydrate | 100.0 | 3.0 |
| 20 | Vardenafil Hydrochloride Trihydrate | 66.7 | 2.0 |
| 21 | 2,2-Dimethyl-1,3-dioxane-4,6-dione (Meldrum's acid) | 500.0 | 15.0 |
| 22 | Dabigatran Etexilate Mesylate | 66.7 | 2.0 |
| 23 | Risedronate Sodium Hemipentahydrate | 66.7 | 2.0 |
| 24 | Imatinib Mesylate | 66.7 | 2.0 |
| 25 | Tamsulosin Hydrochloride | 66.7 | 2.0 |
| 26 | Glimepiride | 66.7 | 2.0 |
| 27 | R & D products | 1.0 | 0.03 |
| | Total ( Any 4 products) | 2000 | 60.0 |



CHAIRMAN, SEAC

By-products:

| S.No | Name of the Product | Name of the By product | Capacity | |
|---|---|---|---|---|
| | | | Kg/day | TPM |
| 1 | 3-Chloro-5-acetyl imino di benzyl | Spent Sulphuric Acid | 8540.2 | 256.2 |
| 2 | 3-Chloro-5-acetyl imino di benzyl | Spent Cuprous Chloride | 2327.5 | 69.8 |

**Details of Utilities, Stacks & Air pollution control equipments after expansion:**

| S.No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Coal fired Boiler:**<br>Existing: 1x1 TPH.<br>Proposed: 1x2 TPH, 1x 3 TPH. | 30 m<br>30 m | Cyclone Separator |
| 2 | **Thermic fluid heater**<br>Existing: 2 Lakh K.cal/hr<br>Proposed: 2 Lakh K.cal/hr | 10 m | Adequate Stack |
| 3 | **DG Sets:**<br>Proposed: 1 x 125 kVA,<br>1 x500 KVA, 1 x 350 KVA,<br>1 x 250 KVA | Adequate height | Acoustic enclosure |

The process emissions containing Hydrogen Chloride, Dimethylamine, Hydrogen Bromide, Sulphur dioxide & Ammonia are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide and Nitrogen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen are to be safely dispersed into the atmosphere through water column.

**Details of Water requirement after expansion:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 15.9 | - | 15.9 |
| 2 | Washings | 2.0 | - | 2.0 |
| 3 | Scrubber | 2.0 | - | 2.0 |
| 4 | R&D | 1.0 | - | 1.0 |
| 5 | Boiler make up | 28.0 | 20 | 48.0 |
| 6 | Cooling Towers make up | 59.0 | 11 | 70.0 |
| 7 | DM plant | 3.0 | - | 3.0 |
| 8 | Domestic | 3.0 | - | 3.0 |
| 9 | Gardening | 4.0 | - | 4.0 |
| | **Total** | **117.9** | **31.0** | **148.9** |

**Details of Effluent generation, treatment & disposal after expansion:**

| S.No | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment & Disposal |
|---|---|---|---|---|---|
| 1 | Process | 15.4 | - | 15.4 | Zero Liquid Discharge System ie.,<br>**HTDS**: Stripper, MEF & ATFD.<br>**LTDS**: Biological ETP & RO.<br><br>Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers. |
| 2 | Washings | 2.0 | - | 2.0 | |
| 3 | Scrubber | 2.0 | - | 2.0 | |
| 4 | R&D | 1.0 | - | 1.0 | |
| 5 | Boiler | - | 4.0 | 4.0 | |
| 6 | Cooling tower | - | 7.0 | 7.0 | |
| 7 | DM Plant | - | 3.0 | 3.0 | |
| 8 | Domestic | - | 2.5 | 2.5 | |
| | **Total :** | **20.4** | **16.5** | **36.9** | |

CHAIRMAN, SEAC

Details of Solid Waste after expansion:

| S.No | Description | Quantity | Remarks |
|---|---|---|---|
| 1 | MEE salts with 4 % Moisture | 1797.7 Kgs/day | Sent to TSDF, Dundigal for secured land fill |
| 2 | ETP Sludge | 50.0 Kgs/day | |
| 3 | Inorganic solid waste | 946.0 Kgs/day | |
| 4 | Distillation bottom residue | 296.6 Kgs/day | Sent to TSDF, Dundigal, Rangareddy district for incineration / Authorized cement plants for co-processing |
| 5 | Process organic Residue | 4579.3 Kgs/day | |
| 6 | Spent Carbon | 138.3 Kgs/day | |
| 7 | Off specification products/ Date expired raw materials | 50.0 Kgs/day | |
| 8 | Stripper waste | 1340.8 Kgs/day | |
| 9 | Ash from boilers | 5.7 TPD | Sold to brick manufacturers |
| 10 | Waste /Used Oil | 50.0 Lts/month | Authorized Recyclers/ Re-processors |
| 11 | Spent Mixed solvents | 6.1 TPD | End users/Authorized cement manufacturing units for co-processing. |
| 12 | Used batteries | 10 Nos /Annum | Sent to Authorized Recyclers |
| 13 | Container & container liners of hazardous waste & chemicals | 500 Nos/ Month | After detoxification, disposed to outside agencies |
| 14 | LDPE bags | 300 Kgs/month | Authorized Recyclers |
| 15 | Insulation waste | 500 Kgs/Annum | TSDF Dundigal for secured landfill or authorized recyclers |
| 16 | Glass bottles and broken glass ware | 200 Nos /month | |
| 17 | e-waste | 25 kgs/month | Authorized Recyclers/ Re-processors |

The SEAC observed that the proponent is proposing expansion of the project from 6.0 TPM to 60.0 TPM, which becomes more than 50% of the permitted production capacity. Hence, the SEAC decided to constitute a sub-committee with the following members to inspect the unit, verify records and submit report on the following:

i) Project modification
ii) Project cost
iii) ZLD System & its adequacy
iv) ETP modifications
v) Products: Comparison of existing and proposed (which are going for expansion)
vi) Verify Production details w.r.t permitted for the past one year, as per ER-I/GST.
vii) Raw material: Comparison of existing and proposed (which are going for expansion)
viii) Solid waste: Comparison of existing and proposed (which are going for expansion)
ix) Impact on surroundings
x) Applicability of S.O.804 (E), dt.14.03.2017 & S.O. 1030 (E) dt.08.03.2018 issued by the MoEF&CC, GoI.
xi) Implementation of disaster management plan and safety measures in the existing project and proposed expansion.
xii) Greenbelt development
xiii) Justification of project w.r.t. G.O.Ms. No. 95, dt. 21.09.2007; G.O.Ms. No. 64, dt. 25.07.2013; & G.O.Ms. No. 24, dt.24.04.2019.

Members of Sub-Committee:
1. Sri
2. Sri Sivakumar
Krishna Reddy.



CHAIRMAN, SEAC

| | |
|---|---|
| **Agenda Item No. 30** | **M/s. Sai Teja Drugs and Intermediates Private Limited, Sy No. 543/A, 544/A, Seetavanigudem (V), Bhoodan Pochampally (M).Yadadri Bhuvanagiri District - Environmental Clearance - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/172813/2020 (EC)** |

The representative of the project proponent Sri S. Sambaish. and Dr. Pallavi & Sri P.V. Raju of M/s. Pridhvi Envirotech Pvt.Ltd., Hyderabad. attended and made a presentation before the SEAC.

The existing unit was established in the year 2000 for manufacturing of drug intermediates and unit is operating with latest CFO dt.24.02.2016.

Sushsequently the proponent obtained EC vide order dt.23.08.2019 from the MoEF&CC. GoI for proposed expansion. But, it could not be implemented. Meanwhile, they modified the proposal and again applied for EC for proposed expansion.

The prpoponent submitted Self-compliance Report for conditions stipulated in CFO.

The SEAC noted the G.O.Ms. No. 95. dt. 21.09.2007 of the EFS&T Dept., GoAP; G.O.Ms. No 64, dt. 25.07.2013 & G.O.Ms. No. 24. dt.24.04.2019. of the EFS&T Dept., GoAP.

The SEAC examined the proposal as per the provisions laid under S.O.1223 (E), dt.27.03.2020 and considered the project under B2 Category.

The SEAC noted the contents of the EMP report and noted the details of the project after proposed Expansion as follows.

Total area Existing is 6.15 Acres out of which Green area is developed in 2.35 Acres (38%)

Nearest human habitation is Seetavanigudem @ 1.10 km; Pond near Maddivanigudem @ 1.29 km; Nearest RF is Jalalpur RF @ 0.82 km from the industry

Project Cost for proposed expansion is Rs. 12.0 Crores. Budget for Environmental protection towards Capital Cost is Rs. 7.0 crores and Recurring Cost is Rs. 447.0 Lakhs/annum. Budget for CER is Rs 10.0 lakhs in first 5 years.

The details of Products, by-products & production capacity are as following:

**Products:**

| S.No | Name of Product | Capacity | |
|---|---|---|---|
| | | Kg/day | TPM |
| 1 | Levetiracetam | 166.67 | 5.0 |
| 2 | Loratadine | 266.67 | 8.0 |
| 3 | Lopinavir | 166.67 | 5.0 |
| 4 | Ramipril | 166.67 | 5.0 |
| 5 | Ritonavir | 166.67 | 5.0 |
| 6 | Vildagliptin | 166.67 | 5.0 |
| 7 | 5-amino-2-dibenzylamino- 1,6-diphenyl-hex-4-en-3-one (PAK) | 666.67 | 20.0 |
| 8 | (2,6-dimethyl-phenoxy)-acetyl chloride | 66.67 | 2.0 |
| 9 | 2s)-(1-tetrahydro pyramid-2-one) -3-methylbutanoic acid | 166.67 | 5.0 |
| 10 | Abacavir sulphate | 666.67 | 20.0 |
| 11 | Acyclovir | 500.00 | 15.0 |
| 12 | Irbesartan | 666.67 | 20.0 |
| 13 | Ketorolac tromethamine | 666.67 | 20.0 |
| 14 | Losartan Potassium | 500.00 | 15.0 |
| 15 | Racecadotril | 500.00 | 15.0 |
| 16 | Linezolid | 500.00 | 15.0 |
| 17 | Famotidine | 500.00 | |



CHAIRMAN, SEAC

| | | | |
|---|---|---|---|
| 18 | Vardenafil | 666.67 | 20.0 |
| 19 | 2-amino-malonamide | 666.67 | 20.0 |
| 20 | Valeyclovir Hydrochloride Monohydrate | 500.00 | 15.0 |
| 21 | Sugammadex sodium | 500.00 | 15.0 |
| 22 | Agomelatine | 666.67 | 20.0 |
| 23 | R & D products | 1.00 | 0.03 |
| | **Total** | **9501.00** | **285.03** |

**Details of Utilities, Stacks & Air pollution control equipments after expansion:**

| S.No. | Utility | Stack Height (mt) | APCE |
|---|---|---|---|
| 1 | **Coal fired Boiler:**<br>Proposed: 2 x 5 TPH,<br>1 x 2 TPH. | 30 m<br>30 m | Cyclone Separator/ Bag filter |
| 2 | **Thermic fluid heater**<br>Existing: 1 Lakh K.cal/hr<br>Proposed. 1 Lakh K.cal/hr | 10 m | -- |
| 3 | **DG Sets:**<br>Proposed: 1 x 1000 kVA,<br>1 x500 KVA | Adequate height | Acoustic enclosure |

The **process emissions** containing Hydrogen Chloride, Hydrogen Bromide, Sulphur dioxide & Chlorine are to be routed through Multi Stage Scrubber system. The process emissions containing derivatives of Carbon dioxide and Oxygen are to be safely dispersed into the atmosphere. Further, the process emissions containing derivatives of Hydrogen are to be safely dispersed into the atmosphere through water column.

**Details of Water requirement after expansion:**

| S. No. | Water required for | Fresh (KLD) | Recycled (KLD) | Total (KLD) |
|---|---|---|---|---|
| 1 | Process | 90.4 | - | 90.4 |
| 2 | Washings | 5.0 | - | 5.0 |
| 3 | Scrubber | 5.0 | - | 5.0 |
| 4 | Boiler make up | 25.0 | 71.0 | 96.0 |
| 5 | Cooling Towers make up | 20.0 | 30.0 | 50.0 |
| 6 | DM plant | 2.0 | - | 2.0 |
| 7 | Domestic | 5.0 | - | 5.0 |
| 8 | Gardening | 12.0 | - | 12.0 |
| | **Total** | **164.4** | **101.0** | **265.4** |

**Details of Effluent generation, treatment & disposal after expansion:**

| S.No | Effluent generated from | HTDS (KLD) | LTDS (KLD) | Total (KLD) | Treatment & Disposal |
|---|---|---|---|---|---|
| 1 | Process | 100.1 | - | 100.1 | Zero Liquid Discharge System ie.. **HTDS**: Stripper, MEE & ATFD. **LTDS**: Biological ETP & RO.<br><br>Treated effluent to be reused in cooling towers, Boiler make-up and Scrubbers |
| 2 | Washings | 5.0 | - | 5.0 | |
| 3 | Scrubber | 5.0 | - | 5.0 | |
| 4 | Boiler | - | 9.0 | 9.0 | |
| 5 | Cooling tower | - | 5.0 | 5.0 | |
| 6 | DM Plant | - | 2.0 | 2.0 | |
| 7 | Domestic | - | 4.0 | 4.0 | |
| | **Total :** | **110.1** | **20.0** | **130.1** | |



CHAIRMAN, SEAC

**Details of Solid Waste after expansion:**

| S.No | Description | After expansion Quantity | Remarks |
|---|---|---|---|
| 1 | MEE salts with 4 % Moisture* | 4468.3 Kgs/day | Sent to TSDF, Dundigal for secured land fill/ cement industries for co-processing |
| 2 | ETP Sludge | 200.0 Kgs/day | |
| 3 | Inorganic residue | 307.9 Kgs/day | |
| 4 | Distillation bottom residue | 1214.5 Kgs/day | Sent to Cement plant for Co-processing/AFRF Facilities of GEPIL Infrastructure Pvt. Ltd, Rakamcherla/ M/s. TSDF Dundigal for pre processing to be sent to Cement units for co-processing/ TSDF Dundigal for incineration. |
| 5 | Process organic Residue | 5494.4 Kgs/day | |
| 6 | Spent Carbon | 561.1 Kgs/day | |
| 7 | Ash from boilers | 11.4 TPD | Sold to brick manufacturers |
| 8 | Waste /Used Oil | 2000 LPA | Authorized Recyclers/ Re-processors |
| 9 | Spent solvents | 37.8 TPD | End users/Authorized cement manufacturing units for co-processing/ AFRF Facilities of GEPIL Infrastructure Pvt. Ltd. Rakamcherla, Putur (M), Rangareddy (D)/ TSDF Dundigal for pre processing to be sent to Cement units for co-processing/ TSDF Dundigal for incineration. |
| 10 | Used batteries | 15 Nos Per Annum | Sent to Authorized Recyclers |
| 11 | container & container liners of hazardous waste & chemicals | 500 Nos/ Month | After detoxification, disposed to outside agencies |
| 12 | LDPE bags | 200 Kgs/month | Authorized Recyclers |
| 13 | Insulation waste | 300 Kgs/Annum | TSDF Dundigal for secured landfill or authorized recyclers |
| 14 | Glass bottles and broken glass ware | 100 Nos per month | |

The SEAC observed that the proponent is proposing expansion of the project from 1.5 TPM to 285.03 TPM, which becomes more than 50% of the permitted production capacity. Hence, the SEAC decided to constitute a sub-committee with the following members to inspect the unit, verify records and submit report on the following:

i) Project modification
ii) Project cost
iii) ZLD System & its adequacy
iv) ETP modifications
v) Products: Comparison of existing and proposed (which are going for expansion)
vi) Verify Production details w.r.t permitted for the past one year, as per ER-I/GST
vii) Raw material: Comparison of existing and proposed (which are going for expansion)
viii) Solid waste: Comparison of existing and proposed (which are going for expansion)
ix) Impact on surroundings
x) Applicability of S.O.804 (E), dt.14.03.2017 & S.O. 1030 (E) dt 08.03.2018 issued by the MoEF&CC, GoI.
xi) Implementation of disaster management plan and safety measures in the existing project and proposed expansion.
xii) Greenbelt development

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sit.ly Justification of project w.r.t. G.O.Ms. No. 95, dt. 21.09.2007; G.O.Ms. No. 64, dt. 25.07.2013; & G.O.Ms. No. 24, dt.24.04.2019.

Members of Sub-Committee:
1. Sri Suresh.
2. Sri Siva Kumar
Krishna Reddy.

| | |
|---|---|
| **Agenda Item No. 31** | **M/s. Hariox Therapeutics Private Limited., Sy.No.117 A, 119 A/2,116 AA/1, Kamaram (V), Shankarampet (M), Medak District - Environmental Clearance - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/174864/2020 (EC)** |

The representative of the project proponent Sri K. Kiran Reddy; and Dr. Pallavi & Sri P.V. Raju of M/s. Pridhvi Envirotech Pvt.Ltd., Hyderabad, attended before the SEAC.

The proponent informed that they are withdrawing the application as there are certain modifications in the proposal. Hence, the SEAC decided to return the application.

| | |
|---|---|
| **Agenda Item No. 32** | **M/s. MSN Life Sciences Private Limited, Unit-III, Sy.No. 536, 538 to 542, 544 to 550, 552 to 554, 574 & 559, Bhiknoor (V &M), Kamareddy District - Environmental Clearance - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/168417/2020 (EC)** |

Earlier, the SEAC in its meeting held on 09.09.2020 constituted a Sub-Committee Members to inspect *the unit, verify records and submit report*

The Sub-Committee constituted by the SEAC inspected the site on 29.09.2020 and submitted the report. The following observations were made by the sub-committee members:

The proposal is for expansion of the existing production capacity from the present level of 435.72 TPA to 3061 TPA..

*Initially EC was obtained on 07.01.2014 in the name of Virupaksha Organics and was transferred To the proponents in Nov.2017*

*Capital cost towards the project is enhanced from RS 239.95 Cr to Rs.426.95.*
*EMP costs proposed as Rs 15 Cr and CER as Rs 1.87 Cr*

***i. Project Modification***

*Industry is proposing to expand its Active Pharmaceutical Ingredients (API's) and API Intermediates manufacturing unit along with R&D facility by dropping 17 permitted products and retain 1 product and added 60 new products and additional utilities in the existing area with extended land of Total area 39.45 Ha (97.5 acres). Plant Layout showing with facilities are enclosed as Annexure-1.*

***ii. Project Cost***

*Overall estimated cost involved in the total project (existing and proposed) like land, building, plant & machinery is Rs 426.95 Crores (Annexure-2). The additional investment for proposed expansion project will be of Rs.187 Crores with an existing investment of Rs.239.95 Crores totaling to Rs. 426.95 Crores as per CA Certificate. Total capital cost allocated towards environmental pollution control measures is Rs.15 Crores. Recurring cost after proposed expansion project will be about Rs 43.25 crores per annum which includes transportation charges of hazardous waste.*

***iii. ZLD System & its adequacy***

*Industry is proposing ETP- ZLD for effective treatment of effluent generated from process which is located in the premises i.e. to treat HCOD/HDS & LTDS/LCOD effluent and domestic wastewater collected by gravity into a collection tank separately. The upgraded ETP-ZLD is designed to meet about 600 KLD*



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*capacity of wastewater. Treated effluent is proposed to reuse in utilities. ETP Flow chart is enclosed as* ***Annexure-3.***

| *Effluent Type* | *Existing* | | | *Expansion* | | |
|---|---|---|---|---|---|---|
| | *Quantity in KLD* | *ETP capacity in KLD* | *Adequacy* | *Quantity in KLD* | *Upgraded ETP capacity in KLD* | *Adequacy* |
| *HTDS / HCOD* | *33.13* | *45* | *Yes* | *334.7* | *460* | *Yes* |
| *LTDS / LCOD* | *21.07* | *30* | *Yes* | *134.6* | *660* | *Yes* |
| *Domestic* | | | *Yes* | *76* | | *Yes* |
| ***Total*** | ***54.2*** | ***75*** | ***Yes*** | ***545.3*** | | ***Yes*** |

*iv.* ***ETP Modifications***

*Industry is upgrading ETP – ZLD and the ETP unit wise dimensions are given in* ***Annexure-4***

*v.* ***Products: Comparison of Existing and Proposed (which are going for expansion)***

*Comparison of Existing and Proposed products which are going for expansion is given in* ***Annexure-6.***

***vi. Verify Production details w.r.t. permitted for the past one year, as per ER-I/GST***

*Details are given in Annexure-5.*

***vii. Raw material: Comparison of Existing and Proposed (which are going for expansion)***

*Details of Raw materials of Existing and Proposed are given in* ***Annexure-6.***

***viii. Solid waste: Comparison of Existing and Proposed (which are going for expansion)***

*Details of Solid waste of Existing and Proposed are given in* ***Annexure-7.***

*ix.* ***Impact on Surroundings***

- *Industry is located in the Bhikanoor (V &M), Kamareddy District, Telangana State and is proposing for expansion. Considering the proposed EMP for the expansion project, impacts on surroundings are minimal.*
- *Effluent: Segregated based on HTDS / HCOD → Stripper → MEE →Biological treatment → Treated effluent reuse din Utilities*
- *LTDS / LCOD including Domestic → Biological treatment → Treated effluent reused in Utilities*
- *Solid Waste: Segregated based Nature → Stored in Covered Platform with leachate collection pit → Disposal to Authorized agencies for Reuse / alternate fuel / landfill etc.*
- *Boiler emissions: Multi Cyclone Separator followed by Bag filter is installed with a stack height of 40m each for 2x16 TPH boiler and for existing 30m stack to 6 TPH boiler (Standby) is installed for controlling the particulate emissions within statutory limit of 115 mg/Nm$^3$*
- *Process emissions: HCl, HF, $H_2$, $CO_2$, $SO_2$, $N_2$, $O_2$, $NH_3$, HBr & Methylamine → Scrubbed effectively in dual stage scrubber with suitable liquid / dispersed into atmosphere / flame arrestor to control the gaseous emissions.*
- *Noise: DG sets will be enclosed with acoustic enclosures.*
- *Greenbelt area: Total Greenbelt area is 13.14 Ha of 39.45 Ha i.e. 33.3%.*

***x. Applicability of S.O.804 (E)dt. 14.05.2017 & S.O. 1030 (E) dt. 08.03-2018 issued by the MoE&F, GoI***

*Not Applicable*

***xi. Implementation of disaster management plan and safety measures in the existing project and proposed expansion.***

*Industry proposes Disaster Management Plan, On-site Emergency Plan of unit are to provide basic guideline to the personnel for effective management in case of any emergency at the facility.*

*Accordingly, Industry has initiated preparation of a comprehensive Disaster Management plan. On site Emergency Plan with an objective to minimize exposure of people and maximize the speed of corrective action is required for any industry. Potential for hazards due to fire, explosion is significant in the proposed project.*



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*The plan covers information regarding the Synthetic organic chemicals, the operations involved in the plant, type of anticipated emergency and area, actual emergency control plan with authority delegation, controlling and other details, general details like location, plant layout, neighboring industries and the assistance they can render etc.*

*vii. Greenbelt development*

- *Total Greenbelt area will be 13.14 Ha out of total area 39.45 Ha (33.3 %). The existing & proposed trees present near the boundary wall and other trees rose in the garden area in 1506 sq. m is proposed under greenbelt.*
- *In 13.14 Ha proposed under greenbelt @1500 trees a total of 19705 trees shall be maintained under greenbelt as per guidelines are given in **Annexure-8***

*Recommendation: No adverse impact is envisaged. Environment clearance may be given.*

The SEAC examined the report of the Sub-Committee and after detailed discussions, the SEAC recommended the project for issue of EC.

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|---|---|
| Agenda Item No. 33 | **2.43 Ha. Black Granite Mine of Smt Uppala Vijaya Lakshmi, Sy. No. 147A, 147A & 147/B/1, Kalleda Village, Parvathagiri Mandal, Warangal Rural District - Environmental Clearance - Reg.** |
| Proposal No. | SIA/TG/MIN/44130/2019 (EC) |

Earlier, the SEAC in its meeting held on 23.01.2020 constituted a Sub-Committee Members to inspect inspect the site and submit report on present status of the project, impacts of the project on surrounding environment, vegetation, adequacy of EMP measures proposed and any additional conditions if any

The Sub-Committee constituted by the SEAC inspected the site on 03.09.2020 and submitted the report. The following observations were made by the sub-committee members:

*Mining operations have not been started at the proposed site*
*The nearest village is at a distance of 1.4 Km.*
*The nearest water body Kalleda Cheruvu is at a distance of 1.5 Km.*
*The proposed site is a rocky area and some thorny bushes have grown in the crevices of the boulders.*
*No large trees are there in the site.*
*It is proposed to excavate mineral up to 30m depth.*
*No adverse impact is envisaged on the surrounding environment.*
*Environment clearance may be given to the project subject to completion of plantation in the First year of operation.*

The SEAC examined the report of the Sub-Committee and after detailed discussions, the SEAC recommended the project for issue of EC.

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|---|---|
| **Agenda Item No. 34** | **M/s. Siflon Drugs Pvt. Ltd., Sy. No. 152-155, J.P.Durga Road, Rangapur Village, Nandigama Mandal, R.R. District - Environmental Clearance - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/154722/2020 (EC)** |

Earlier, the SEAC in its meeting held on 17.06.2020 constituted a Sub-Committee Members to *inspect the unit, verify records and submit a report*

The Sub-Committee constituted by the SEAC inspected the site on 21.06.2020 and submitted the report. The following observations were made by the sub-committee members:

*Members travelled to **M/s.** Siflon Drugs Pvt. Ltd survey. Nos : 152-155, J.P.Durga Road, Rangapur Village, Nandigama Mandal, R.R. District, Telangana State along with the Proponent to inspect the unit, verify records and submit a report. The proponent showed the records pertinent to the previous product and described about the site.*

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| | To Verify the issues | Observations |
|---|---|---|
| 1 | Distance from Patancheru and Bolaram industrial area | M/s. Sifton Drugs Pvt Ltd survey. Nos. 152 P, J.P Dargu Road. Rangapur Village. Nandigama Mandal. R.R. District, Telangana State<br>• Project Site to Bollaram Industrial Area is 48.2 Km (NNE)<br>• Project site to Patancheru Industrial Area is 44.8 Km (N) |
| 2 | Project malification | M/s. Sifton Drugs Pvt. Ltd. survey Nos : 152-155, J.P. Dargu Road Rangapur Village Nandigama Mandal. R.R District. Telangana State<br>proposes to increase in production capacity to **22 MT/Month** |
| 3 | Project cost | The unit is proposing to invest an amount of **Rs. 4.0 Crores** Budget for Environmental protection towards capital cost is an amount of **Rs. 51 Lakhs** and Recurring cost is **Rs. 18 Lakh/Annum** |
| 4 | ZLD System & its edequacy | Industry is up grading ZLD to treat proposing to treat HTDS<br>• The HTDS/HCOD effluent after neutralization will be sent to steam stripping Column for collection of Organic distillates which is mixed in the waste water stream After stripping, effluent will be sent to Multi Effect Evaporation System. Stripped Organics collected and sent to cement industry.<br>• The condensate from MEE followed by centrifuge sent to LTDS effluent storage tank The salts collected from centrifuge sent to TSDF.<br>• The LTDS effluent along with MEE condensate will be sent to PETL- Patancheru.<br>**The system is notAdequate since the proponent is sending LTDS and MEE condensates are proposed to send to PETL Patancheru** |
| 5 | ETPmodifications | Earlier the unit is sending the HTDS effluent to MEE system & LTDS effluent to CETP Patancheru (ANNEXURE I) after expansion the unit will proceed the same as earlier.<br>***Proponent should install Full fledged ZLD and treat LTDS and HTDS within the premises*** |
| 6 | ProductsComparisonofexisitingandproposed(whicharegoingforexpansion) | Earlier the unit is manufacturing Drug Intermediates with a capacity of **3.25 TPM (3250 Kg/Month details in annexure II)**. Now proposes to manufacture Bulk Drugs & Drug Intermediates of **22 TPM** and details are provided in **Annexure-I** |
| 7 | Verification of production records for one year | Verified and found to be audited |
| 8 | Raw material Comparison of existing and proposed (which are going forexpansion) | Details of existing raw materials and proposed Raw Material are as described in EIA |
| 9 | SolidwasteComparison of existing and proposed (which are going for expansion) | Details of existing and proposed Solid waste are provided inAppendix 2 |
| 10 | Impactonsurroundings | Water Pollution:Total effluent generated increased from 6.47KLD HTDS and 21.78KLD LTDS. The unit is proposed MEE system to treat the generated HTDS effluent and recovered water will be reused in the plant operations. Earlier the unit is sending the HTDS effluent to MEE system & LTDS effluent to CETP, Patancheru after expansion the |



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|---|---|---|
| | | *unit will continue to do the same as earlier.*<br>*Hence there would be no significant impact on water because incase CETP Patancheru does not entertain their demand the LTDS would pollute both surface and ground water.*<br>*Air Pollution:Flue gases from the boilers will be dispersed through a 30 mtr height of the chimneys separately and Cyclone separators followed by bag filters and all the gaseous emissions from the process are scrubbed by using suitable media in the scrubbing system. Hence, there will not be any impact on the surroundings*<br>*The process emissions contain HF, HCl, CO2, H, H2S and SO2. Out of these HF, HCl, H2S and SO2 are sent to scrubber in series. The resultant solutions after scrubbing are sent to ETP. H and CO2 are let out into atmosphere following a standard operating procedure.*<br><br>*Two stage condensing system, scrubbers for process emissions and vacuum system for solvent distillation/recovery are proposed to mitigate diffuse emissions. Hence impact on air pollution is minimal*<br>*Soil pollution. All solid waste storage containers/ferrous bags are labeled showing the source, nature of hazard and type of wastes. All the hazardous wastes are stored in a closed shed with fire safety measures, and the shed is provided with a leachate facility.*<br>*Organic residues are sent to Cement plants for co-incineration Mixed solvents, stripper distillate are sent to authorized recovery units/ Cement plants for co-incineration. Evaporation salts and ETP sludge are sent to TSDF and waste oil and used batteries are sent to authorize recyclers. Hence impact on soil pollution is minimal* |
| *11* | *Applicability of S.O.804(E), dt 14.03.2017 & S.O.1930(E) dt 08.03.2018 issued by the MoEF&CC, GoI* | *The project does not come under Violation as there was no increase in production quantity or pollution loads for the existing consented product* |
| *12* | *Implementation of disaster management plan and safety measures in the exiting project and proposed expansion* | *The company has made alternate and stand by arrangements to meet the un foreseen disasters. Disaster management plan and safety measures submitted along with EMP report* |
| *13* | *Green belt development* | *Siflon Drugs Pvt. Ltd. is in an area of* ***4.16 Acres (16794.45 Sq. m****out of which* ***5940.80Sqm*** *(35.37 %)is allocated for Greenbelt development area. Total No. of Plants to be planted is about 890 Nos. Budget for greenbelt development is* ***Rs. 5.0 Lakhs*** *& greenbelt maintenance is* ***Rs. 2.0 Lakhs.***<br>*Proposed green belt is more than stipulated one third of total area covering the boundary of the site as part of environment management plan and proposed to increase density to enhance environmental quality through mitigation of fugitive emissions, attentation of noise levels, balancing eco-environment, prevention of soil erosion, and creation of aesthetic environment* |
| *14* | *Compliance of Hon'ble NGT order dt 19.08.2019 (published on 23.08.2019)in OA No.1038/2018 as per OM dt 31.10.2019 of the MOEF&CC, GOI* | *A Self declaration need to be submitted by the proponent* |



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***Recommendations:***

*Impact of the expansion proposal of the project is not on the water body and surrounding environment is not affected. Environmental Clearance may be given to the project*

The SEAC examined the report of the Sub-Committee and after detailed discussions, the SEAC recommended the project for issue of EC.

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|---|---|
| **Agenda Item No. 35** | **M/s. Shri Narahari Chemicals Pvt. Ltd., Sy.No. 315/2, Kallakal Village, Manoharabad Mandal (Tupran Mandal), Medak District - Environmental Clearance - Reg.** |
| **Proposal No.** | **SIA/TG/IND2/155708/2020 (EC)** |

Earlier, the SEAC in its meeting held on 31.07.2020 constituted a Sub-Committee Members to inspect the unit, verify records and submit a report.

The Sub-Committee constituted by the SEAC inspected the site on 15.08.2020 and submitted the report. The following observations were made by the sub-committee members:

| | *To Verify the issues* | *Observations* |
|---|---|---|
| *1* | *Distance from Patancheru and Bolaram industrial area* | *M/s. Shri Narahari Chemicals Pvt. Ltd. Sy. No.: 315/2, Kallakal Village, Manoharabad Mandal (Tupran Mandal), Medak District, Telangana State*<br>• *Project Site to Bollaram Industrial Area is 21 Km*<br>• *Project site to Patancheru Industrial Area is 28.4 Km* |
| *2* | *Projectmodification* | ***M/s.** Shri Narahari Chemicals Pvt. Ltd. Sy. No.: 315/2 Kallakal Village Manoharabad Mandal (Tupran Mandal), Medak District, Telangana State proposes to increase in production capacity to **30 MT/Month*** |
| *3* | *Projectcost* | *The unit is proposing to invest an amount of **Rs. 3.5 Crores** for expansion. Budget for Environmental protection towards capital cost is an amount of **Rs. 98 Lakhs** and Recurring cost is **Rs. 16 Lakh/Annum.*** |
| *4* | *ZLDSystem&itsadequacy* | *Industry is up grading ZLD to treat proposing to treat HTDS and LTDS*<br>• *Water shall be recycled to reduce the impact and the industry will implement the **Zero Discharge of Waste Water [ZLD System].***<br>• *Process effluent will be segregated based on TDS concentration and collected separately by gravity from all sources into a collection Pit.*<br>• *Collected waste water will be pumped in to the above ground level tanks separately.*<br>• *The unit will provide Wastewater Treatment Plant (ETP) to treat the trade effluent*<br><br>***Treatment system***<br>• *The effluent will be neutralized, the HTDS effluent will be sent to steam stripping Column for collection of solvents which are dissolved in the waste water stream. After stripping effluent will be sent to Double effect Evaporation system which contains 3 Calandrias*<br>• *The concentrate from the MEE System will be sent to ATFD and salts from the ATFD will be collected and sent to TSDF for safe disposal.* |



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| | | • *The condensate from DEE will be sent to biological treatment followed by RO system for further process*<br>• *The LTDS effluent will be sent to Biological treatment followed by RO system along with the Condensate from the MEE*<br>• *The RO permeate will be reused and RO reject will be sent to MEE for further evaporation.*<br>• *All the treatment tanks etc. is constructed / installed only with acid proofing and 1.5 to 2.5 meters above the Ground Level*<br>• *In addition Rain Water Harvesting System will be put in practice to recharge the ground water aquifers.*<br>• *Impact on water quality is negligible* |
| *5* | *ETPmodifications* | *Earlier the unit is sending its HTDS & LTDS effluent and domestic effluent to JETL, Jeedimetla (ANNEXURE I) and now the unit is proposing to adopt ZLD system. Details are in EIA report* |
| *6* | *Products:Comparisonofexisting andproposed(whichare goingforexpansion)* | *Earlier the unit is manufacturing Drug Intermediates with a capacity of* ***6.6 TPM (220 Kg/Day details in ANNEXURE II)*** *Now proposes to manufacture Bulk Drugs & Drug Intermediates* ***30 TPM*** *and details are provided in* ***Appendix-I.*** |
| *7* | *Verification of production records for one year* | *Verified and found to be audited* |
| *8* | *Raw material Comparison of existing and proposed (which are going forexpansion)* | *Details of existing raw materials and proposed Raw Material are as described in EIA* |
| *9* | *Solidwaste:Comparisonofexistingandproposed(which aregoingforexpansion)* | *Details of existing and proposed Solid waste are provided inAppendix 2* |
| *10* | *Impactonsurroundings* | *Water Pollution:Total effluent generated increased to 21.88KLD HTDS and 16.48KLD LTDS. As the unit is proposed ZLD system to treat the generated effluent and recovered water will be reused in the plant operations*<br>*Air Pollution:Flue gases from the boilers will be dispersed through a 30 mtr height of the chimneys separately and Cyclone separators followed by bag filters and all the gaseous emissions from the process are scrubbed by using suitable media in the scrubbing system. Hence, there will not be any impact on the surrounding.*<br>*The process emissions contain NH3, HF, HCl, CO2, H, HBr and SO2. Out of these NH3, HF, HCl, HBr and SO2 are sent to scrubber in series. The resultant solutions after scrubbing are sent to ETP. H2and CO2 are let out into atmosphere following a standard operating procedure*<br>*Condensing system, scrubbers for process emissions and vacuum system for solvent distillation/recovery are proposed to mitigate diffuse emissions. Hence impact on air pollution is minimal.*<br>*Soil pollution :All solid waste storage containers/drums/bags are labeled showing the source, nature of hazard and type of wastes. All the hazardous wastes are stored in a closed shed with fire safety measures, and the shed is provided with a leachate facility.*<br>*Organic residues are sent to Cement plants for co-* |



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| | | *incineration. Mixed solvents stripper distillate are sent to authorized recovery units/ Cement plants for co-incineration.*<br>*Evaporation salts and ETP sludge are sent to TSDF and waste oil and used batteries are sent to authorize recyclers*<br>*Hence impact on soil pollution is minimal* |
| *11* | *Applicability of S.O.804(E),dt.14.03.2017 &S.O.1030(E)dt.08.03.2018 issued by the MoEF&CC,GoI.* | *The project does not come under Violation as there was no increase in production quantity or pollution loads for the existing consented product* |
| *12* | *Implementation of disaster management plan and safety measures on the exiting project and proposed expansion* | *The company has made alternate and stand by arrangements to meet the un foreseen disasters. Disaster management plan and safety measures submitted along with EMP report* |
| *13* | *Green belt development* | *Shri Narahari Chemicals Pvt. Ltd. is in an area of* ***1.8 Acres (7283.00 Sq. m)****out of which* ***2467.81 Sqm (33.88 %)*** *is allocated for Greenbelt development area. Total No. of Plants to be planted is about 370 Nos. Budget for greenbelt development is* ***Rs. 2.0 Lakhs*** *& greenbelt maintenance is* ***Rs. 1.0 Lakhs.***<br>*Proposed green belt isas per the stipulated one third of total area covering the boundary of the site as part of environmen management plan and proposed to increase density to enhance environmental quality through mitigation of fugitive emissions, attenuation of noise levels, balancing eco-environment, prevention of soil erosion, and creation of aesthetic environment* |
| *14* | *Compliance of Hon'ble NGT order dt 19.08.2019 (published on 23.08.2019)in OA No.1038/2018 as per OM dt 31.10.2019 of the MOEF&CC, GOI* | *A Self declaration need to be submitted by the proponent* |

***Recommendations:***

*Impact of the expansion proposal of the project is not on the water body and surrounding environment is not effected. Environmental Clearance may be given to the project*

The SEAC examined the report of the Sub-Committee and after detailed discussions, the SEAC recommended the project for issue of EC.

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