

Communication Address:
Solara Active Pharma Sciences Limited
R.S.No. 33 & 34,
Mathur Road, Periyakalapet
Puducherry - 605 014. India
Tel: +91 413 2654100.

Date: 26.09.2023

To

The Member Secretary,
Puducherry Pollution Control Committee,
Puducherry -5

Respected sir,

Sub: Submission of Environment statement "FORM -V" for the year 2022 - 2023.

With reference to the mentioned Subject, here with we are submitting the Environment statement "Form – V" for the year of April-2022 to March 2023.

This is for your kind information and record please.

Thanking you,

For Solara active pharma sciences Limited.,

D. Krishnamoorthy

Factory Manager



FORM-V

ENVIRONMENTAL STATEMENT

Environmental statement (for the financial Year ending with 31st March 2023)

1. Name and address of the owner/

Occupier of the industry

Operation or process

Poorvank Purohit

Managing Director & CEO

Solara Active Pharma Sciences Limited,

R.S. No. 33 & 34 Mathur Road,

Periyakalapet, Puducherry-605 014,

India.

ii. Industry category primary- (STC Code)

Secondary- (STC Code)

RED

iii. Production category/Units

Pharmaceutical - API

iv. Year of establishment

1986

v. Date of the last environmental Statement Submitted

26.09.2022

PART-B

1. Water consumption in m3/day

Domestic : 5 KL (Borewell)

: 24 KL (STEW)

Industrial

: 105 KL (Borewell)

Total

: 110 KL (Borewell

Sewage Treated Effluent water (STEW) purchased from PWD.

Maximum quantity of 566 KLD as per CTO.

| S.No | Name of products | Process water consumption per unit of products (KL)- During the previous year from April 2021 to March 2022. | Process water consumption per unit of products (KL)- During the current year from April 2022 to March 2023. | |
|---------------------------|------------------|--|--|--|
| Please Refer Annexure - I | | | | |

| 'Name of raw materials* | Name of products | Raw material consumption per unit of output –During the previous year from April-2021 to March -2022 | Raw material consumption per unit of output – During the current year from April 2022 to March -2023 | | |
|-------------------------------|------------------|--|--|--|--|
| Please Refer Annexure – II | | | | | |

*Industry may use codesifdisclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART-C

Pollution discharged to environment/unit of output.

(Parameter as specified in the consent issued)

| Pollutants | Quantity of pollutants discharged (mass/day) | Concentration of Pollutants discharged (mass/volume) | Percentage of variation from prescribed standards with reasons | |
|------------|--|--|--|--|
| | | er pollutants are discharged to the environment as the lin the ZLD Plant & recycled within the unit. | | |
| Air | APC Measures. (Cyclone separator, Bag Filter available) | Standard prescribed By PPCC. | Nil | |

PART-D Hazardous Wastes

(As specified under Hazardous wastes (management & Handling Rules, 1989))

| S.No. | Hazardous wastes | Total quantity During the current year from April-2021 to March-2022 (MT) | Total quantity During the current year from April-2022 to March-2023 (MT) |
|-------|---|---|---|
| 1 | Waste Sodium Dichromate Solution | 18452.52 | 20760.99 |
| 2 | 5.1. Spent lubricant oil | 1.76 | 0.85 |
| 3 | 34.3 ETP Sludge | Nil | Nil |
| 4 | 5.2. wastes /residues containing oil | Nil | 0.72 |
| 5 | 20.2 Spent Solvents | 706.62 | 898.28 |
| 6 | 20.3 Distillation Residues | 43 | 48 |
| 7 | 28.1 Process Residues and Wastes | 692.27 | 720 |
| 8 | 28.2 Spent catalyst/ Spent carbon | Nil | Nil |
| 9 | 28.3 off specification products | 0.207 | Nil |
| 10 | 28.4 Date Expired discarded and off specification drugs / Medicines | Nil | 0.15 |
| 11 | 28.5/28.6 Spent Organic solvent | Nil | Nil |
| 12 | 33.2 Sludge from treatment of wastewater arising out of cleaning / disposal of barrels / containers | Nil | Nil |
| 13 | 33.3 Discarded containers/barrels/liners contaminate with HW/Chemicals | 190.74 | 248.5 |
| 14 | 34.3 Chemical Sludge from wastewater Treatment | Nil | 2.2 |
| 15 | 34.4 Oil and grease skimming residues | Nil | Nil |
| 16 | 35.2 Spent Catalyst | Nil | Nil |
| 17 | 35.3/28.3 Spent Carbon | 16.6 | 53 |
| 18 | 35.3 chemical sludge from wastewater Treatment. | 3958.59 | 3580.2 |

PART-E Solids Wastes

| S.No. | Solids wastes | Total quantity During the current year from April 2021 to March 2022 MT | Total quantity During the current year from April 2022 to March 2023 MT |
|-------|--|--|---|
| 1 | From Process (Fly Ash) | 610 | 624 |
| 2 | From Pollution Control Facilities | Nil | 3.0 |
| 3 | Quantity recycled or reused within the unit. | Nil | Nil |

PART-F

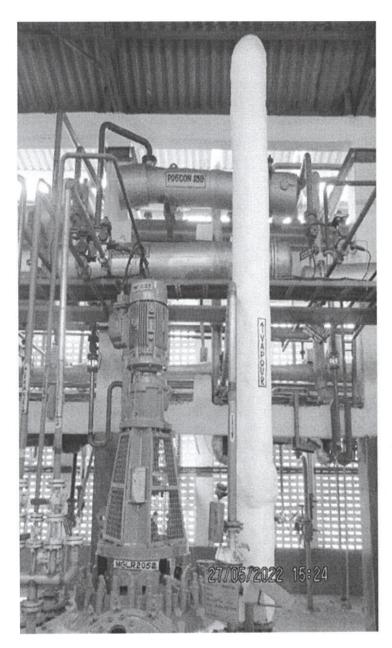
Please specify the characteristics (in terms of concentration and quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

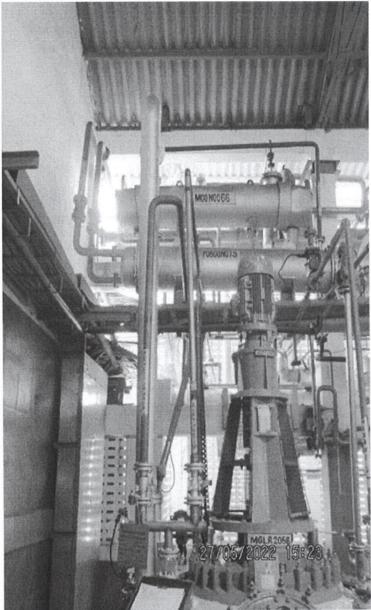
| Specification | Hazardous waste | Solid waste |
|-----------------|---|-------------------------|
| Characteristics | 1.Process Wastes: Liquid / Tarry Residues. 2.ETP Sludge: Solids/semi solids | Fly Ash: Solids |
| Disposal | Process Residues: Stored in HDPE barrels over impervious platform. under closed shed. Disposal to Co- Processing industry and recycle. ETP Sludge: Chemical sludge from wastewater treatment category no 35.3 disposal to co-processing industry/TSDF. Bio Sludge - Generated from Bio clarifier and sent to Thickener and followed by centrifuge and finally will get the Bio sludge disposal to TSDF | Fly Ash: Sold As manure |

PART-G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production:

 All solvents process reactors are connected to condensers to avoid organic vapour losses and exposure.





• Sapling were planted at "Ahad ka Amrit Mahotsav" for the 75th Independence Day celebration.



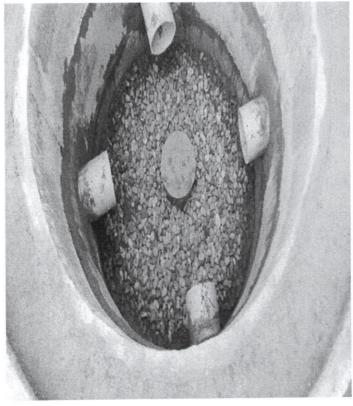






Tsunami quarters Rainwater Harvesting pit provided for community usage.

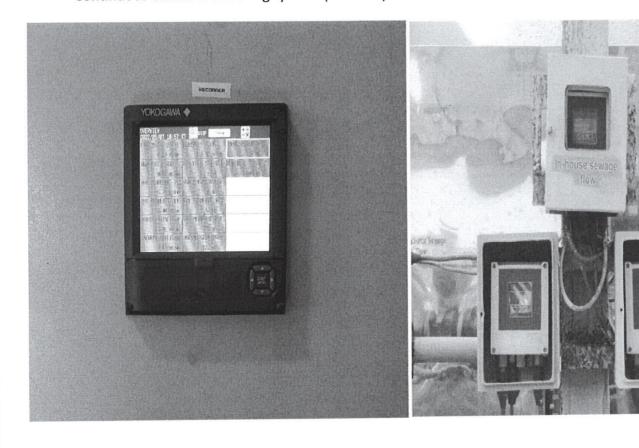




Management system, Re- certification obtained for ISO 14001: 2015 & ISO 45001: 2018

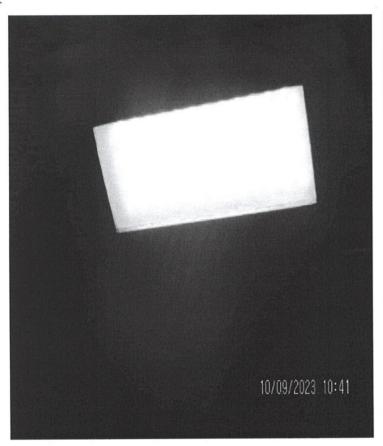


Continuous online monitoring system (OCEMS)is connected to PPCC and CPCB.



27/05/2022 14:58

• The lights are changed with CFL to LED to reduce power consumption.



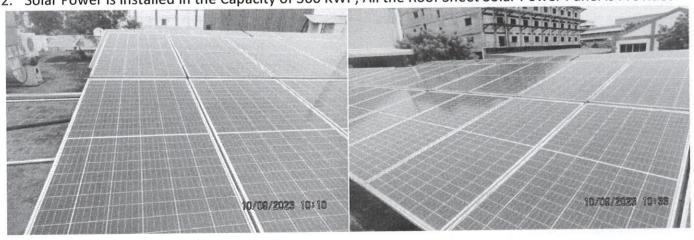


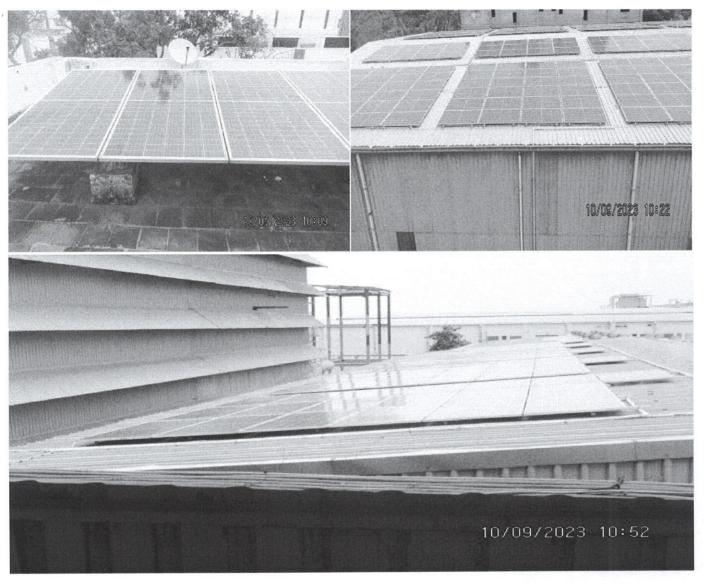
PART-H

Additional measures / investment proposal for Environmental protection including abatement of pollution:

1. Sewage Treated Effluent Water (STEW) received from PWD and further treated in our ZLD-ETP system and reused to non-process operation.

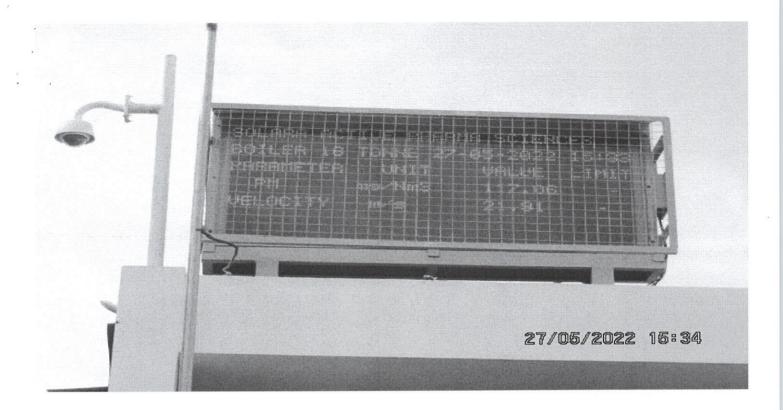
2. Solar Power is installed in the Capacity of 360 KWP, All the Roof Sheet Solar Power Panel is Provided.





- 3. 1.8 MW Solar power enhancement plant planned, mutual agreement signed and copy of the agreement attached for your reference.
- 4. Hazardous waste details displayed in LED board 24*7 in front our industry.





5. We are in progress of Installing Sludge Rotary Dryer to minimize the sludge disposal quantity using Flue gas from the boiler.

Flue gas at 140 Deg from boiler is sent to drying section for drying purpose. Flue gas from Boiler is heated from 140 deg C to 160 Deg C in a thermic fluid heat exchanger. Sludge Feeding is done at controlled rate. The sludge material and hot air come in indirect contact with each other and drying takes place. The moisture removed from the product is carried away by the exhaust air. feed material comes into agitator which breaks the lumps and keeps the material in floating condition. As the material particle size reduces and is dried, becomes light and gets conveyed with exhaust air. The exhaust gases are then passed through cyclone. The product is separated and collected at the bottom. The exhaust gases are further passed through a ventury scrubber. Clean air is then exhausted to the atmosphere. The entire operation of the plant is controlled through an Automation operating panel.

Purchase order raised. Project proposal will be completed in another 10 months period tentatively.



Purchase Order

Sulara Active Plantica Sciences Executed NOS, 201, Discoverator, Nost Manufact 400701 Ted Science 22-27002004 Ear Science 22-27002004

Supplier Address

MOJJ ENGINEERING SYSTEMS LIMITED (0031009836)

General Block, 81-B/15, MIDC BHOSARI, MUNE

411026

GSTIN: 27AABCM1797L1Z0 PAN: AABCM1797L

Tel No : 9766640675

Fax No:

Contact Person & No: -

Email II): pankaj ekad@mojjpane.com

PO No PO Date

: 5500013842

: 30,05,2022 : INR

PO Currency Amendment No

Amendment Date Your Quotation No.& Date

Old Reference NO.

Billing Address

Solaru Active Pharma Sciences Limited

API Paducherry

R.S. No. 33 & 34 Mathur Road, Periakalapet

Puchcherry 605014 Puducherry-INDIA

GSTIN: 34AAYCS2093N1ZH

PAN: AAYCS2093N

Tel No:0413-2654100 Fax Nox+91 4132655154 Delivery Address

Solara Active Pharma Sciences Limited

API Puducherry

R.S. No. 33 & 34 Mathur Road, Periakalapet

Puducherry 605014 Puducheny-INDIA.

GSTIN: 34AAYCS2093N1ZH

PAN:

Tel No:0413-2654100 Fax No: +91 4132655154

We are pleased to place the order as per below mentioned price, terms & conditions.

| Item No | Item Details | Quantity UOM | Unit Rate INR | Discount | Amount INR | Taxes INR | Total INR |
|---------|--|-----------------|------------------|----------|---------------|---------------------|--------------|
| 10 | - Thermic Fluid AIR HEATER HSN/SAC: | 1.000 EA | 750,000.00 | O.(N) | 750,000.00 | IGST:18% 135,000.00 | 885,000.00 |
| 20 | - DECTING HOT AIR HSN/SAC: | 1,000 LOT | 630,000.00 | 0.00 | 630,000.00 | IGST:18% 113,460.60 | 743,400.00 |
| 30 | - AIR DISTRIBUTOR & Agitator assembly HSN/SAC: | 1.000 EA | 1,350,000.0 0 | O.(N) | 1,350,000.00 | IGST:18% 243,000.00 | 1,593,000.00 |
| 40 | - SPIN DUCT HSN/SAC: | 1.000 LOT | 900,000,00 | 0.00 | 900,000.00 | IGST:18% 162,000.00 | 1,062,000.00 |
| 50 | - CYCLONE SEPARATOR HSN/SAC: | 1,000 SET | 1,800,000.0 0 | 0.00 | 1,800,000.00 | IGST:18% 324,000.00 | 2,124,000.00 |
| 60 | - ROTARY VALVE HSN/SAC: | 1.000 EA | 150,000.00 | O.(W) | 150,000.00 | IGST:18% 27,000.00 | 177,000,00 |
| 70 | - DUCTING INTERCONNECTING & Powder HSN/SAC: | 1.000 LOT | 450,000,00 | 0,00 | 450,000.00 | IGST:18% 81,000.00 | 531,000.00 |
| 80 | - EXHAUST BLOWER WITH MOTOR RSN/SAC: | 1,000 EA | 1,125,(NN).0 | 0.00 | 1,125,000.00 | IGST:18% 202,500.00 | 1,327,500.00 |
| 90 | - WET SCRUBBER assembly HSN/SAC: | 1,000 SET | 2,025,000.0 0 | 0.00 | 2,025,000.00 | IGST:18% 364,500.00 | 2,389,500.00 |
| 100 | - Feed conditioner HSN/SAC: | 1.000 LOT | 1,035,000.0 | OKO | 1,035,000,00 | IGST:18% 186,300.00 | 1,221,300.00 |

Purchase Order

School Rective Pharmac School of Linguist Net (201, December New Manufact 4407-0) Tell School 2 27943924 Fact School 2 27943924

PO Number: 5500013842 PO Date: 30.05.2022 PO Version Number: PO Version Date:

| Item No | Item Details | Quantity UOM | Unit Rate INR | Discount | Amount INR | Taxes INR | Total INR |
|---------|---|-----------------|------------------|------------|-------------------|-------------------------------|---------------|
| 110 | - SCREW FEEDER HSN/SAC: | 1.000 SET | 735,000.00 | 0.00 | 735,000.00 | IGST:18% 132,300.00 | 867,300,00 |
| 120 | - Control panel HSN/SAC: | I JANA SET | 750,000,00 | 00.00 | 750,000.00 | IGST:18% 135,000.00 | 885,000.00 |
| 130 | Insulation and calddin HSN/SAC: | E I.ONO. LOT | 450,000.00 | 0.00 | 450,000.00 | IGST:18% 81,000.00 | 531,000.00 |
| 140 | - Cables and trays HSN/SAC: | LIMMI LOT | 450,000.00 | 0.00 | 450,000.00 | IGST:18% 81,000.00 | 531,000.00 |
| Total | | • | | 00.0 | 12,600,000.0 0 | 2,268,000.00 | 14,868,000.00 |
| | | | | 1 | Fr | eight Charges | (0.00 |
| A | | | | | | ouding and Unloading arges | 0.00 |
| | | | | | C | caning & Forwarding | 0.00 |
| | | | | | Sı | orage Charges | 0.00 |
| | | | | | In | surance | 0.00 |
| | | | | | D | evelopment Charges | Ó.DÓ |
| | | | | | 0 | thers . | 0.00 |
| Grand' | Total ONE | CRORE FORTY EIG | HTLAKHS | IXTY EIGHT | THOUSAND F | UPEESONLY | 14,868,000.00 |

ICICLLOMBARD GENERAL INSURANCE CO LTDPolicy No 2002/169820707/03/000 dt.31.03.2023

Terms of Payment: See Remarks

Incoterms:

Incoterms Location:

Remarks/Special Instructions:

Material Should Be Supplied as per the above mentioned specification number and manufacturer(s)

Payment terms:

40% advance along with the order.

Balance against Proforma invoice prior to despatch but after final

inspection

DELIVERY SCHEDULE:

The deliveries shall be with part shipment. Delivery starts on Ex works basis: 16 Weeks Delivery ending on Ex works basis: 18 Weeks Installation starts after: 16 Weeks (Estimated)

Commissioning and Product Trials complete before: 22 Weeks (Estimated)
Total duration of project from starting to completion of commissioning

22 Weeks (Estimated

Detailed Delivery Schedule

6. We procured Organic waste convertor for handling our canteen waste and Garden wastes generated at our premises. Equipment landed at site, erection, and commissioning work under progress.





PART-I

Any other particulars in respect of environmental protection and abatement of pollution.

- 2 x 16 TPH boiler's bag filters changed to control the particulate matter emissions.
- In house LDAR study conducted by every three months to reduce VOC emission.
- Creating awareness of Environmental awareness and better environmental practices among employees, Visitors, and students through trainings, Etc.
- Life-cycle assessment (LCA) is a tool for measuring the environmental impacts associated with all stages of a product's life cycle, from raw material extraction to production, use, and disposal. It combines quantitative data from different sources to identify and assess the potential environmental effects of various activities. The main purpose of LCA is to enable businesses to reduce their environmental impact and improve their sustainability performance. We done LCA study for Ibuprofen following the International Standards Organisation (ISO) 14040 and 14044, which promote environmental management through life-cycle assessment (LCA).
- Limiting the presence of pharmaceuticals in the environment is an environmental priority
 for Solara. Typically, a fraction of the product manufactured is naturally excreted and
 may enter waterways or in air, following the treatment by a wastewater treatment plant.
 To a lesser extent, pharmaceuticals can enter the environment through improper
 disposal of product and from manufacturing wastewater discharges. We are committed
 to responsibly managing wastewater recycling in our site and assessing discharges from
 site to assure that the research, development, manufacture, use and disposal of our
 product does not adversely affect human health or the environment. Pharmaceuticals in

Environment (PiE) analysis study conducted for our ibuprofen product on all emissions and water recycle points states no remnants of ibuprofen found in environment.

EcoVadis is a globally recognized assessment platform that rates businesses' sustainability based on four key categories: environmental impact, labour, and human rights standards, ethics, and procurement sustainability practices. Our Puducherry site awarded Bronze medal on EcoVadis, with 53 percentile ESG score complies the performance on several themes, considering Environment, human rights, ethics, and sustainable procurement.

ecovadis

EcoVadis Scorecard

www.ecovadis.com

SOLARA ACTIVE PHARMA SCIENCES LTD (PUDUCHERRY SITE)

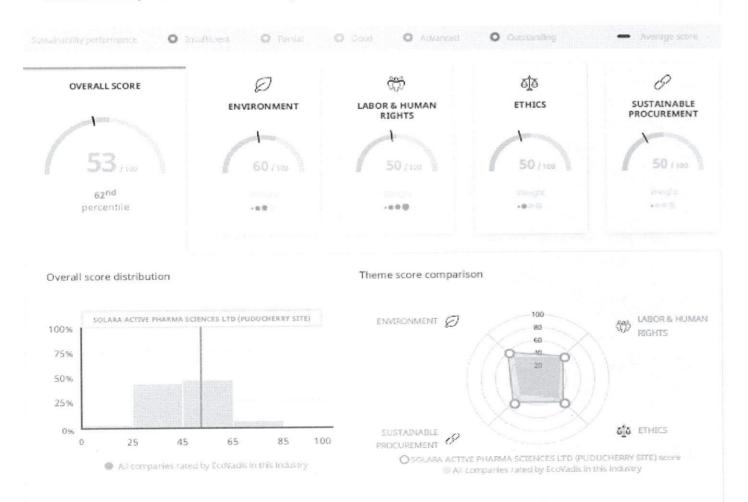
India | Manufacture of basic pharmaceutical products and pharmaceutical preparations





Publication date: 25 Jul 2022

Valid until: 25 Jul 2023



Annexure I

| YEAR April 2021-March 2022 | | Production in MTA | 3534 |
|----------------------------|-----------------------------|--------------------------------------|--|
| S. No | Raw Material Name | Total Raw Water Consumption in MT | Raw water Consumption /Mt of Product |
| 1 | Ibuprofen & Ibu derivatives | 35361 | 10 |

| YEAR April 2022-March 2023 | | Production in MTA | 4154 |
|----------------------------|-----------------------------|--------------------------------------|--|
| S. No | Raw Material Name | Total Raw Water Consumption in MT | Raw water Consumption /Mt of Product |
| 1 | Ibuprofen & Ibu derivatives | 35770 | 8.61 |

Annexure II

| | RAW MATERIAL CONSUMPTION | | | | | |
|------|------------------------------|---|---|--|--|--|
| | PRODUCTION: IBUPROFEN | | | | | |
| YEAR | April 2021-March 2022 | Production in MTA | 3534 MT | | | |
| S.No | Raw Material Name | Total Raw Material Consumption in MT | Raw Material Consumption /Mt of Product | | | |
| 1 | Acetone | 5287.61 | 1.5 | | | |
| 2 | Activated Carbon | 17.13 | 0.005 | | | |
| 3 | Aldehyde | 4283.64 | 1.21 | | | |
| 4 | Dilute Sulphuric Acid | 10976.82 | 3.11 | | | |
| 5 | Hexane | 6620.9 | 1.87 | | | |
| 6 | Hydrochloric Acid | 803.18 | 0.23 | | | |
| 7 | IBAP | 2744.2 | 0.78 | | | |
| 8 | Isopropyl Alcohol (IPA) | 12861.62 | 3.64 | | | |
| 9 | Mono Chloro Acetate (MCA) | 6015.15 | 1.7 | | | |
| 10 | Sodium Bicarbonate | 1137.84 | 0.32 | | | |
| 11 | Sodium Dichromate | 2583.57 | 0.73 | | | |
| 12 | Sodium Hydroxide | 1606.36 | 0.45 | | | |
| 13 | Sodium Metal | 508.68 | 0.14 | | | |
| 14 | Sulphuric Acid | 1070.91 | 0.3 | | | |

| | RAW MATERIAL CONSUMPTION | | | | | |
|------|--|---|--|--|--|--|
| | Ibu Derivatives (Ibu DC, Lysine, Sodium, S+ Ibuprofen) | | | | | |
| YEAR | YEAR April 2021-March 2022 Production in MTA 355.20 MT | | | | | |
| S.No | Raw Material Name | Total Raw Material Consumption in MT | Raw Material Consumption /Mt of Product | | | |
| 1 | Ibuprofen | 1114.74 | 3.13 | | | |
| 2 | Isopropyl Alcohol (IPA) | 5447.05 | 15.33 | | | |
| 3 | Toluene | 1672.117 | 4.7 | | | |
| 4 | Sodium Hydroxide | 38 | 0.1 | | | |
| 5 | DL. Lysine | 228.02 | 0.64 | | | |
| 6 | Hexane | 1249.02 | 3.51 | | | |
| 7 | Hydrochloric Acid | 443.37 | 1.24 | | | |
| 8 | Methanol | 212.81 | 0.59 | | | |
| 9 | SPBA | 293.89 | 0.82 | | | |

Annexure II

| RAW MATERIAL CONSUMPTION | | | | | |
|------------------------------|------------------------------|---|---|--|--|
| PRODUCTION: IBUPROFEN | | | | | |
| YEAR April 2022 - March 2023 | | Production in MTA | 4154 MT | | |
| S. No | Raw Material Name | Total Raw Material Consumption in MT | Raw Material Consumption /Mt of Product | | |
| 1 | Acetone | 6216.25 | 1.50 | | |
| 2 | Activated Carbon | 20.1438 | 0.00 | | |
| 3 | Aldehyde | 5035.949 | 1.21 | | |
| 4 | Dilute Sulphuric Acid | 12904.62 | 3.11 | | |
| 5 | Hexane | 7783.68 | 1.87 | | |
| 6 | Hydrochloric Acid | 944.2405 | 0.23 | | |
| 7 | IBAP | 3226.155 | 0.78 | | |
| 8 | Isopropyl Alcohol (IPA) | 5237.387 | 1.26 | | |
| 9 | Mono Chloro Acetate (MCA) | 7868.67 | 1.89 | | |
| 10 | Sodium Bicarbonate | 1337.674 | 0.32 | | |
| 11 | Sodium Dichromate | 3037.307 | 0.73 | | |
| 12 | Sodium Hydroxide | 1888.481 | 0.45 | | |
| 13 | Sodium Metal | 598.019 | 0.14 | | |
| 14 | Sulphuric Acid | 1258.987 | 0.30 | | |

| RAW MATERIAL CONSUMPTION | | | | | | |
|--|-------------------------|---|---|--|--|--|
| Ibu Derivatives (Ibu DC, Lysine, Sodium, S+ Ibuprofen) | | | | | | |
| YEAR April 2022 - March 2023 | | Production in MTA | 612 MT | | | |
| S. No | Raw Material Name | Total Raw Material Consumption in MT | Raw Material Consumption /Mt of Product | | | |
| 1 | Ibuprofen | 1915.56 | 3.13 | | | |
| 2 | Isopropyl Alcohol (IPA) | 6933.96 | 11.33 | | | |
| 3 | Toluene | 2876.4 | 4.7 | | | |
| 4 | Sodium Hydroxide | 61.2 | 0.1 | | | |
| 5 | DL. Lysine | 391.68 | 0.64 | | | |
| 6 | Hexane | 2148.12 | 3.51 | | | |
| 7 | Hydrochloric Acid | 758.88 | 1.24 | | | |
| 8 | Methanol | 361.08 | 0.59 | | | |
| 9 | SPBA | 501.84 | 0.82 | | | |