

SIX MONTHLY EC COMPLAINT REPORT

FOR THE PERIOD OF

OCTOBER 2018 TO MARCH 2019

FOR

THE MANUFACTURE

OF

ETHYL CELLULOSE

BY

M/S Asha Cellulose (I) Pvt. Limited

**Plot No. 303/2 & 302/P, Village: Abrama, Tehsil & District: Valsad,
Gujarat**

File No. J-11011/316/2011-IA II (I) dated 25th June 2015.

Date: 15/07/2019

To,

Dr. Tejinder Singh, IFS
Additional Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest & Climate change,
Regional office, Western Region,
Kendriya Paryavaran Bhavan,
Link Road No. 3, E-5, Ravishanker Nagar,
Bhopal - 462 016 (M.P)

Mail: apccfbhopal@gmail.com/rowz.bpl-mef@nic.in

SUB: EC Compliance for our existing EC of Ethyl Cellulose manufacturing unit at Plot. No. 303/2 & 302/P, Village: Abrama, Tehsil & District: Valsad, Gujarat by M/s. Asha Cellulose (I) Pvt. Limited.

File No. J-11011/316/2011-IA II (I) dated 25th June 2015

Respected Sir,

We are pleased to submit comprehensive six monthly EC compliance report for a period of **October 2018 to March 2019** along with supporting and adequate documents.

We have obtained environmental clearance from MoEF , New Delhi for our proposed expansion of existing products at existing plant in the month of June 2015 vide no. **J-11011/316/2011-IA II (I) dated 25th June 2015**. Copy of EC is enclosed herewith as **Annexure: I**.

After obtaining Environmental Clearance we have obtained Consent to Establish (CTE) of SPCB and CCA for existing as well as proposed expansion project vide no. **AWH-87084, Date of issue: 12/07/2017 valid up to 31/03/2022**. Copy of CCA is enclosed herewith as **Annexure: II**.

We are pleased to submit the following details as required by you.

- (i) **Present status (Physical/civil) of work progress:** Expansion project is already commissioned in the month of June 2017.

- (ii) **A comprehensive compliance in respect of all conditions of EC with adequate reasoning and supporting data showing the summary of the monitored data in tabular format within the compliance status itself:** We are enclosing herewith comprehensive compliance report with all supporting documents.
- (iii) **Period of Compliance for which compliance report is being submitted.** We are submitting herewith EC compliance report for a period of October 2018 to March 2019.
- (iv) **Copies of**
- **EIA/EMP/Form-I.:** Already sent to Regional office Bhopal.
 - **Recommendation of the Public Hearing, : If any.:** Enclosed herewith as **Annexure: IIA**
 - **Consent to Establish/Operate from GPCB.** Enclosed herewith as **Annexure: II.**
- (v) **Details of show cause/closure notice issued by GPCB/CPCB during last 3 years.:** Details of show cause notice/closure notice and its compliance for last three years is enclosed herewith as **Annexure: III**
- (vi) **Details of court cases.** There are no court cases against the unit.
- (vii) **Information about any expansion/replacement/construction work undertaken without valid approval/EC.:** We undertake that; we have not started any expansion/replacement/construction work without prior of EC.
- (viii) **The information in the enclosed Data- Sheet. :** Data sheet is enclosed herewith as **Annexure: V.**

Please do the needful and oblige.

Thanking You,

Yours Faithfully

FOR ASHA CELLULOSE (I) PVT. LIMITED.

**DIRECTOR
(Mr. K. Srinivas)
Mob: 98251 32304**

ANNEXURE: I

COPY OF ENVIRONMENTAL CLEARANCE

F. No. J-11011/316/2011- IA II (I)

Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division)

Indira Paryavaran Bhawan
Aliganj, Jorbagh Road,
New Delhi -110003

E-mail : lk.bokolia@nic.in
Telefax : 011-24695313
Date: 25th June, 2015

To,

✓ Shri K.Srinivas, Technical Director
M/s Asha Cellulose (I) Pvt Ltd.
Plot No.303/2 & 302/P, Village Abrama
Tehsil & District Valsad, Gujarat

E-mail: valsad@ashacel.com / srini@ashacel.com ; Fax No.02632-227019:

Subject: Expansion of existing Ethyl Cellulose Unit (20 TPM) by installing Organic Chemical Plant (79.69 TPM) at Sy. No. 303/2 & 302/P, Village Abrama, Tehsil & District Valsad, Gujarat by M/s Asha Cellulose (I) Pvt. Ltd. - Environmental Clearance reg.

Ref. : Your letter no. nil dated 24th December, 2012.

Sir,

This has reference to your letter dated 24th December, 2012 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report alongwith Public Hearing Report and subsequent submission of addl. information vide letter dated 19th December, 2014 regarding above mentioned project.

2.0 The Ministry of Environment, Forests and Climate Change has examined the application. It is noted that proposal is for expansion of existing Ethyl Cellulose Unit (20 TPM) by installing Organic Chemical Plant (79.69 TPM) at Sy. No. 303/2 & 302/P, Village Abrama, Tehsil & District Valsad, Gujarat. River Auranga and Arabian sea is at located at a distance of 0.5 km. & 12 km respectively. Total plot area is 22,062 m². Out of which greenbelt will be developed in 6325 m². Expansion will be carried out in the existing campus only. Total cost of the proposed expansion project is Rs. 10.5 Crore. Rs. 1.68 Crore and Rs. 26.13 Lakh are earmarked towards capital cost and recurring cost for implementation of environmental management plan. It is reported that no national park/wildlife sanctuary is located within 10 Km distance. Patches of reserve forest is located within 10 km distance. Gujarat SCZM vide their letter no ENV-10-2013-74-E dated 3rd December, 2014 has clarified that proposed plant for expansion is not falling within CRZ area and does not attract the provision of CRZ Notification 2011. They have also directed not to carry out any construction activity (4800 m²), which attracts the provision of CRZ notification 2011 and not to discharge any treated effluent into the estuary of river Auranga without obtaining necessary permission from the Competent Authority. Following products will be manufactured:

| S. N. | Name of the Products | Capacity (MTPM) | | | Remarks |
|-------|-----------------------------------|-----------------|----------|-----------------------|--|
| | | Existing | Proposed | Total after expansion | |
| 1 | Ethyl Cellulose (Aqua Process) | 20 | 0 | 20 | Product from both the processes shall be manufactured. |
| 2 | Ethyl Cellulose (Solvent Process) | 0 | 79.69 | 79.69 | |
| Total | | 20 | 79.69 | 99.69 | |

List of By-products

| S.N. | Name of the Product | Capacity (MTPM) | | | Remarks |
|------|------------------------|-----------------|----------|-------|----------------------|
| | | Existing | Proposed | Total | |
| 1 | Spent Caustic (18-20%) | 369.2 | 0 | 369.2 | Sold to actual users |

3.0 Stack of adequate height will be provided to additional gas fired steam boiler and hot air generator to disperse the waste gases. Bag filter will be provided to additional spin flash dryers. Water requirement will be increased from 52.7 m³/day to 287.5 m³/day after expansion. Out of which, fresh water requirement from ground water source will be 52.7 m³/day and remaining/balance water requirement will be met from recycled water. Industrial effluent generation will be increased from 38 m³/day to 240.5 m³/day after expansion. Effluent will be treated in the effluent treatment plant (ETP) comprising primary, secondary and tertiary treatment (Reverse Osmosis). RO rejects will be evaporated in the Multiple Effect Evaporator (MEE). No effluent will be discharged outside the plant premises. RO permeates and Condensate from evaporator will be recycled/reused for cooling tower make up/process. 'Zero' effluent discharge shall be adopted and no effluent will be discharged outside the premises. Salts from MEE will be disposed off into TSDF. Waste oil/spent oil will be sold to registered recyclers/re-processors.

4.0 Public hearings/public consultation was held on 15th December, 2012.

5.0 All Synthetic Organic Chemicals Industry located outside the notified industrial area/estate are listed at S.N. 5(f) under category 'A' and appraised at Central level.

6.0 The proposal was considered by the Expert Appraisal Committee (Industry) in its meetings held during 20th-21st October, 2011, 5th-7th March, 2013 and 16th-17th March, 2015 respectively. Project Proponent and the EIA Consultant namely M/s Precitech Laboratories, have presented EIA / EMP report as per the TOR. EAC has found the EIA / EMP Report and additional information to be satisfactory and in full consonance with the presented TORs. The Committee recommended the proposal for environmental clearance.

7.0 Based on the information submitted by the project proponent, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification dated 14th September 2006, subject to the compliance of the following Specific and General Conditions:

A. SPECIFIC CONDITIONS:

- i) National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended time to time shall be followed by the unit.
- ii) Adequate stack height should be provided to gas fired boiler/hot air generator. Bag filter shall be provided to additional spin flash dryers. At no time, the emission levels should go beyond the prescribed standards.

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- ii) In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored.
- iv) Solvent management shall be carried out as follows :
- i. Reactor shall be connected to chilled brine condenser system
 - ii. Reactor and solvent handling pump shall have mechanical seals to prevent leakages.
 - iii. The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.
 - iv. Solvents shall be stored in a separate space specified with all safety measures.
 - v. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
 - vi. Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.
 - vii. All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- v) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
- vi) The company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the GPCB. The levels of PM_{10} , $PM_{2.5}$, SO_2 , NO_x , VOC and CO in ambient air and emissions from the stacks shall be monitored and displayed at a convenient location near the main gate of the company and at important public places.
- vii) Total fresh water requirement from ground water source should not exceed $52.7 \text{ m}^3/\text{day}$ and prior permission should be obtained from the CGWA/SGWA.
- viii) Total effluent generation shall not exceed $240.5 \text{ m}^3/\text{day}$. Effluent shall be treated in the ETP comprising primary, secondary and tertiary treatment (RO). RO rejects will be evaporated in MEE. The RO permeates and MEE condensate shall be recycled in the process.
- ix) 'Zero' effluent discharge shall be adopted and no effluent will be discharged outside the premises.
- x) Automatic /online monitoring system (24 x 7 monitoring devices) for flow measurement and relevant pollutants in the treatment system to be installed. The data to be made available to the respective SPCB and in the Company's website.

- xi) No effluent shall be discharged into river. In the event of failure of any effluent treatment plant adopted by the unit, the Organic Chemical plant shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- xii) Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- xiii) Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm. Solvent transfer shall be by pumps.
- xiv) As proposed, process organic residue and spent carbon should be sent to cement industries. ETP sludge, process inorganic & evaporation salt should be disposed off to the TSDF.
- xv) The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes and prior permission from GPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. Measures shall be taken for fire fighting facilities in case of emergency. Membership of TSDF for hazardous waste disposal shall be obtained.
- xvi) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended in October, 1994 and January, 2000. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.
- xvii) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- xviii) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- xix) Green belt over 6325 m² area should be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.
- xx) All the commitments made to the public during the Public Hearing/Public Consultation meeting held on 15th December, 2012 should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhopal.
- xxi) At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details should be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program should be ensured accordingly in a time bound manner.
- xxii) Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.

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B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any other statutory authority.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- iii. The locations of ambient air quality monitoring stations shall be decided in consultation with the Gujarat Pollution Control Board (GPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- iv. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- v. The Company shall harvest rainwater from the roof-tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
- vi. During transfer of materials, spillages shall be avoided and gullies drains be constructed to avoid mixing of accidental spillages with domestic wastewater and storm water drains.
- vii. Usage of Personnel Protection Equipments by all employees/ workers shall be ensured.
- viii. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- ix. The company shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.
- x. The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area.
- xi. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.

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- xii. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xiii. The company shall earmark sufficient funds for recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
- xiv. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParisd/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/ representations, if any, were received while processing the proposal.
- xv. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the Gujarat Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- xvi. The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the Gujarat Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Bhopal Regional Offices of MoEF by e-mail.
- xvii. The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
- xviii. The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
- 8.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- 9.0 The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.
- 10.0 The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986 Hazardous Waste (Management, Handling and

Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

11.0 Environmental Clearance is issued to M/s Asha Cellulose (I) Pvt. Ltd., expansion of existing Ethyl Cellulose Unit (20 TPM) by installing Organic Chemical Plant (79.69 TPM) at Sy. No. 303/2 & 302/P, Village Abrama, Tehsil & District Valsad, Gujarat.


(Lalit Bokolia)
Additional Director

Copy to:-

1. The Principal Secretary, Forests & Environment Department, Government of Gujarat, Sachivalaya, 8th Floor, Gandhi Nagar - 382 010, Gujarat.
2. The Chief Conservator of Forests (Western Zone), Ministry of Environment & Forests, Regional Office, E-5, Arera Colony, Link Road -3, Bhopal -462 016, M.P.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Gujarat State Pollution Control Board, Paryavaran Bhawan, Sector 10 A, Gandhi Nagar-382 043, Gujarat.
5. Monitoring Cell, Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhavan, Jor Bagh, New Delhi.
6. Guard File/Monitoring File/Record File.


(Lalit Bokolia)
Additional Director

ANNEXURE: II

COPY OF CONSENT TO OPERATE ISSUED BY GPCB



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN
Sector-10-A, Gandhinagar 382 010
Phone : (079) 23222425
(079) 23232152
Fax : (079) 23232156
Website : www.gpcb.gov.in

By R.P.A.D.

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution)-1981 and Authorization under rule 6(2) of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, framed under the Environmental (Protection) Act-1986.

And whereas Board has received CC& A application inward no: 122307 dated 23/05/2017 for the Consolidated Consent and Authorization (CC & A) of this Board under the provisions / rules of the aforesaid Acts. Consents & Authorization are hereby granted as under:

**CONSENTS AND AUTHORISATION:
(Under the provisions /rules of the aforesaid environmental acts)**

To,
✓ M/S. ASHA CELLULOSE (I) PVT LTD,
PLOT NO: SHED NO: 303/2, 302/P,
VILLAGE-ABRAMA, ABRAMA - 396001,
DIST.: VALSAD.

1. Consent Order No.: AWH- 87084, Date of issue: 12/07/2017.
2. The consents shall be valid up to 31/03/2022 for use of outlet for the discharge of trade effluent & emission due to operation of industrial plant for manufacture of the following items/products:

| Sr. No. | Product | Quantity (MT/Month) |
|-------------------|---|---------------------|
| 1. | Ethyl Cellulose (Aqua Process) | 20 |
| 2. | Ethyl Cellulose (Solvent Process) | 31.72 |
| 3. | Ethyl Cellulose Aqueous Dispersion- Non-Plasticized | 20.124 |
| 4. | Ethyl Cellulose Aqueous Dispersion- Plasticized | 24.70 |
| By-Product | | |
| 5. | Spent Caustic lye (18-20%) | 369.2 |

SUBJECT TO THE FOLLOWING CONDITIONS:-

- Management of Solid Waste generated from industrial activities shall be as per Solid Waste Management Rules-2016 (solid waste as defined in Rule-3(46).
- As per provision of Rule-18 of Solid Waste Management Rules-2016 all industrial units using fuel and located within 100 km from the refused derived fuel (RDF) plant shall made an arrangement to replace at least five percent of their fuel requirement by refused derived fuel so produced.

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3 CONDITIONS UNDER THE WATER ACT:

- 3.1 The quantity of total water consumption shall not exceed 155.48 KLD as per below break up. Source of fresh water shall be only from Borewell. Unit shall submit NOC from Central Ground Water Authority (CGWA) for use of borewell water.
- a) Domestic: 2.2 KLD
 - b) Industrial: 149.78 KLD
- 3.2 The quantity of trade effluent discharge from the industry shall not exceed **121.5 KLD**. Entire effluent shall be treated in ETP, followed by RO & MEE and achieve zero liquid discharge condition.
- 3.3 The quantity of Sewage effluent from the industry shall not exceed **1.5 KLD**.
- 3.4 Domestic effluent shall be disposed off through septic tank/soak pit system.

4 CONDITIONS UNDER THE AIR ACT:

- 4.1 The following shall be used as fuel in the Boilers, Hot Air Generations & D.G.Sets.

| Sr. No. | Fuel | Quantity |
|---------|--|------------------------|
| 1. | Natural Gas/Furnace Oil for 3 TPH Boiler | 230 Scm/Hr / 200 Kg/hr |
| 2. | Furnace Oil/LDO for 800 Kgs/Hr Boiler II | 25 Lits/Hr |
| 3. | Furnace Oil/LDO for 800 Kgs/Hr Boiler III | 25 Lits/Hr |
| 4. | Furnace Oil/LDO for 800 Kgs/Hr Boiler IV | 25 Lits/Hr |
| 5. | LDO/Natural Gas for 6 Lacs K Cal Hot air Generator | 40 LPH/505CM |
| 6. | LDO/Natural Gas for 6 Lacs K Cal Hot air Generator | 40 LPH/505CM |
| 7. | HSD for D.G.Set-I 110 KV | 45 Kg/Hr |
| 8. | HSD for D.G.Set-II 35 KVA | 15 Kg/Hr |

- 4.2 The flue gas emission through existing stack shall conform to the following standards:

| Stack No. | Stack attached to | Stack height in Meter | Parameter | Permissible Limit |
|-----------|-------------------------|-----------------------|-----------------|------------------------|
| 1. | Boiler (3 TPH) | 30 | PM | 100 mg/NM ³ |
| 2. | Boiler II (800 Kgs/Hr) | 15 | SO ₂ | 100 ppm |
| 3. | Boiler III (800 Kgs/Hr) | | NO _x | 50 ppm |
| 4. | Boiler IV (800 Kgs/Hr) | | | |



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Website : www.gpcb.gov.in

| | | | | |
|----|----------------------------------|----|--|--|
| 5. | Hot air Generator (6 Lacs K Cal) | | | |
| 6. | Hot air Generator (6 Lacs K Cal) | | | |
| 7. | D.G. Set I (110 KVA) | 11 | | |
| 8. | D.G. Set II (35 KVA) | | | |

- 4.3 The Process emission through various stacks/vent of reactors, process, vessel shall conform to the following standards:

| Stack No. | Stack attached to | Stack height in Meter | Air Pollution Control system | Parameter | Permissible Limit |
|-----------|----------------------------------|-----------------------|--------------------------------|-----------|------------------------|
| 1. | Spin flash Dryer-I (50 Kgs/Hr) | 11 | Cyclone Separator & bag filter | PM | 150 mg/NM ³ |
| 2. | Spin flash Dryer-II (100 Kgs/Hr) | | | | |

- 4.4 The concentration of the following substances in the ambient air within the premises of the industry and at a distance of 10 meters from the source (other than the stack / vent with height of more than 9 meters from the ground level) shall not exceed the following levels:

| Sr. No. | Pollutant | Time Weighted Average | Concentration in Ambient air in ug/M ³ |
|---------|---|-----------------------|---|
| 1. | Sulphur Dioxide (SO ₂) | Annual 24 Hours | 50 80 |
| 2. | Nitrogen Dioxide (NO ₂) | Annual 24 Hours | 40 80 |
| 3. | Particulate Matter (Size less than 10 µm) OR PM ₁₀ | Annual 24 Hours | 60 100 |
| 4. | Particulate Matter (Size less than 2.5 µm) OR PM _{2.5} | Annual 24 Hours | 40 60 |
| 5. | Carbon Monoxide (CO) mg/m ³ | 8 Hours 1 Hour | 02 04 |

- 4.5 The applicant shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed

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by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.

- 4.6 The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75dB (a) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6 a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.

5 GENERAL CONDITIONS: -

- 5.1 Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board.

6. Authorization under Hazardous and Other Waste (Management and Transboundary Movement) Rules-2016, Form-2 (See rule 6(2))

- 6.1 Number of authorization: **AWH- 87084, Date of issue: 12/07/2017.**

- 6.2 Reference of application **No. 122307 and date: 23/05/2017.**

- 6.3 **M/s. ASHA CELLULOSE (I) PVT LTD, is hereby granted an authorization based on the enclosed signed inspection report for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co-processing, utilization, treatment, disposal or any other use of hazardous or other wastes or both on the premises situated at PLOT NO: SHED NO: 303/2, 302/P, VILLAGE-ABRAMA, ABRAMA - 396001, DIST.: VALSAD.**

Details of Authorization:

| Sl. No. | Category of Hazardous Waste as per the Schedules I, II and III of these rules | | Authorized mode of disposal or recycling or utilisation or co-processing, etc. | Quantity (ton/annum) (MT/Month) |
|---------|---|------|--|---------------------------------|
| 1 | Schedule-I Used oil | 5.1 | Collection, storage transportation, sold to registered recyclers. | 0.092 |
| 2 | Schedule-I Discarded Containers/ Bags | 33.1 | Collection, storage transportation, Reused for packing of solid waste or sold to registered recyclers. | 50 |
| 3 | Schedule-I ETP waste | 35.3 | Collection, storage transportation, Disposal at TSDF VWEMCL-Vapi. | 109 |
| 4 | Schedule-I MEE waste | 35.3 | Collection, storage transportation, Disposal at TSDF VWEMCL-Vapi. | 234 |



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| | | | | |
|-----|---|-------|--|--------|
| 5. | Schedule-I Dust from air filtration system | 26.2 | Recycled in process | 0.22 |
| 6. | Schedule-I Salt for process | 26.1 | Collection, storage transportation, Disposal at TSDf VWEMCL-Vapi | 1703 |
| 7. | Schedule-I Mixed solvent form the process | 26.4 | Collection, storage, Transportation and sale to authorized industry having permission under rule-9 of Hazardous & other wastes (Management & Transboundary Movement) rule-2016. | 942.52 |
| 8. | Schedule-I Distillation Residue/ & Laboratory organic waste | 26.1 | Collection, storage transportation, disposal to BEIL incineration facility. | 23 |
| 9. | Schedule-I Spent carbon from ETP & Chimney | 36.2 | Collection, storage transportation, disposal to BEIL incineration facility. | 4.8 |
| 10. | Schedule-I Date – Expired, Discarded and off- specification Material & floor sweeping | 28.5 | Collection, storage transportation, disposal to BEIL incineration facility. | 1 |
| 11. | Schedule-I Spent Filter cloth & filter material | 36.2 | Collection, storage transportation, disposal to BEIL incineration facility. | 1 |
| 12. | Schedule-I Spent Resins from D M plant | 35.2 | Collection, storage transportation, Disposal at TSDf VWEMCL-Vapi OR BEIL incineration facility. | 1 |
| 13. | Used hot & cold insulation material | X-XO2 | Collection, storage transportation, Disposal at TSDf VWEMCL-Vapi OR BEIL incineration facility. | 0.5 |

Clean Gujarat Green Gujarat

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6.4 The Authorisation shall be valid for a period of 31/03/2022.

6.5 The Authorisation is subject to the following general and specific conditions:

A. General Conditions under Hazardous and other Wastes (M&TM) Rules-2016

1. The Authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The Authorisation or its renewal shall be produced for inspection at the request of an officer Authorised by the State Pollution Control Board.
3. The person Authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
12. An application for the renewal of an authorisation shall be made as laid down under these Rules



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar 382 010

Phone : (079) 23222425

(079) 23232152

Fax : (079) 23232156

Website : www.gpcb.gov.in

13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time

14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

B. Specific Conditions (Whichever is applicable)

1. The authorised actual user of hazardous and other wastes shall maintain records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorisation.
2. Handing over of the hazardous and other wastes to the authorised actual user shall be only after making the entry into the passbook of the actual user.
3. In case of renewal of authorisation, a self-certified compliance report in respect of effluent, emission standards and the conditions specified in the authorization for hazardous and other wastes shall be submitted to SPCB.
4. The occupier of the facility shall comply Standard operating procedure/ guidelines published by MoEF&CC or CPCB or GPCB from time to time.
5. Unit shall comply provisions of E-Waste Management Rules-2016.

For and on behalf of
Gujarat Pollution Control Board

D.P. Shah
(Smt.D.P.Shah)
Environmental Engineer

NO: GPCB/CCA-VSD-152(3)/ID: 23135/

Issued to:
M/S. ASHA CELLULOSE (I) PVT LTD,
PLOT NO: SHED NO: 303/2, 302/P,
VILLAGE-ABRAMA, ABRAMA - 396001,
DIST.: VALSAD.

Signature Not Verified

Digitally signed by SHAH
DIPTI PRAKASH
Date: 2017.07.21 11:39:22 IST
Reason: Secure Document
Location: India

Clean Gujarat Green Gujarat

ISO-9001-2008 & ISO-14001 - 2004 Certified Organisation

ANNEXURE: IIA
Recommendations of the Public Hearing

| Sr. No. | Who asked the question | Question details | Response from the party & comment from the dias |
|---------|--|---|--|
| 1 | Shri Ikbal Kureshi Village: Valsad | <ul style="list-style-type: none"> Asked that how much water of municipality is used by this company and how much quantity will be used in future? | Representative from the project Proponent replied that company is using their own Borewell water and will continue to use in future also. |
| 2 | Shri Vishwas Village: Valsad | <ul style="list-style-type: none"> How much quantity of solvent is to be used by the company and how much is to be recovered? He further asked about Mockdrill, Safety Audit and Risk Assessment etc. are carried out at regular interval or not? | Representative from the project Proponent replied that Solvent recovery @ 96% is carried out and Mockdrill & Safety Audit etc. are being carried out annually and Report is also forwarded to factory inspector. |
| 3 | Shri S.K. Nandi Village: Atul | <ul style="list-style-type: none"> What will be the treatment cost in the ETP? | Representative from the project Proponent replied that for the proposed expansion Rs. 43/KL cost will be incurred for industrial effluent treatment. |
| 4 | Shri Rajnikant Desai Village: Valsad | <ul style="list-style-type: none"> Whether for proposed project local people will get the employment or not? | Representative from the project Proponent replied that employment will be given to the local people based on their qualification and experience. |
| 5 | Shri Pravinbhai Pursottambhai Bhanusali Village: Valsad | <ul style="list-style-type: none"> As Company is located in the area of Nagarpalika, any officer of the Nagarpalika is present here or not? | Shri G.V.Patel, Regional Officer, GPCB, Vapi enquired about the present of officers from Valsad Nagarpalika and on inquiry stated that nobody from Nagarpalika has turned up in the Public Hearing. |

| Sr. No. | Who asked the question | Question details | Response from the party & comment from the dias |
|---------|---------------------------------|--|---|
| 6 | Shri Rajendra Parekh, Valsad | <ul style="list-style-type: none"> • Asked the company to clarify whether Caustic Solution is generated in existing manufacturing process? As to why caustic solution will not be generated in the new project? | Representative from the project Proponent replied that consumption of Caustic is more in aqua process but proposed expansion will be solvent based, so consumption of caustic will be less and there will be no generation of additional spent caustic. |
| 7 | Shri Hiren Desai, Valsad | <ul style="list-style-type: none"> • Whether proposed R.O. and MEE system are viable or not? | Representative from the project Proponent replied that feasibility trials conducted in the plant and details are also mentioned in the project report. |
| 8 | Shri Atul Sankadecha Valsad | <ul style="list-style-type: none"> • How many accidents or casualties occurred in last five years? | Representative from the project Proponent replied that no such accidents or casualties occurred during last five years. |

ANNEXURE: III

SHOW CAUSE NOTICE/CLOSURE NOTICE ISSUED BY GPCB/CPCB & ITS COMPLIANCE

| Sr. No | Date | Reason For Show Cause Notice | Compliance |
|---------------|-------------|---|---|
| 1 | 28.07.2016 | Written instructions were given during the visit, you are directed to submit detailed action taken report with supporting documents (if not submitted). | We have already uploaded on xgn and submitted copy of compliance of written instruction given during the inspection of our unit by the officers from GPCB |
| 2 | 20.04.2017 | Unit is not operated MEE on regular basis. | We have installed our MEE for full production capacity, but our production plant was operated on 60-70% production capacity and hence there was no sufficient effluent to meet the capacity of MEE and we were operating our MEE thrice a week. |
| 3 | 23.03.2018 | The recent past result of inlet and outlet of CETP are not as per prescribed limits. | This is not applicable to us, as we are a ZLD unit and we are not discharging our treated effluent into CETP. |

ANNEXURE: IV

COPY OF ADVERTISEMENT FOR PUBLIC NOTICE

ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડ
પર્યાવરણ ભવન, સંકટર ૧૦ અ, ગાંધીનગર-૩૮૨૦૧૦
ટેલી ૦૭૯-૨૩૨ ૩૨૧૫૨ કેક્સ ૦૭૯-૨૩૨૨ ૨૭૮૪ www.gpcb.gov.in

જાહેર સૂચના

ભારત સરકારના વન અને પર્યાવરણ મંત્રાલય, નવી દિલ્હીના જાહેરનામા ક્રમાંક : એસ.ઓ. ૧૫૩૩ તારીખ, ૧૪-૯-૨૦૦૬ અન્વયે જણાવવાનું કે, મેસર્સ આશા સેલ્યુલોઝ (આઈ) પ્રા.લી. સર્વે નં. ૩૦૨/૨ અને ૩૦૨/પી, ગામ : અબ્રામ, તા.જિ.વલસાડ દ્વારા હયાત ઈથાયલ સેલ્યુલોઝ ૨૦ ટીપીએમ પ્લાન્ટની ઉત્પાદન ક્ષમતા ૯૯.૬૯ ટીપીએમ વધારવા માટેની પરીયોજના (પ્રોજેક્ટ) કેટેગરી "એ" અંતર્ગત વલસાડ વિસ્તાર માટે તેઓની અરજી અત્રે મળેલ છે.

લોકસુનાવણીની પ્રક્રિયાના ભાગરૂપે લાગતાવળગતા સ્થાનિક અસરગ્રસ્ત લોકોનું ધ્યાન દોરીને સદર લોકસુનાવણી દરમિયાન હાજર રહેવા અથવા તેઓની ટીકા-ટિપ્પણી લેખિતમાં સભ્ય સચિવશ્રી, ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડને મોકલવા વિનંતી છે.

રસ ધરાવતી અન્ય વ્યક્તિઓને પણ તેઓની ટીકા-ટિપ્પણી લેખિતમાં પર્યાવરણ સુનાવણીની તારીખ પહેલા લેખિતમાં સભ્ય સચિવશ્રી ગુ.પ્ર.નિ.બોર્ડને મોકલવા વિનંતી છે.

અત્રે ઉલ્લેખનીય છે કે, પ્રોજેક્ટના ઈઆઈએ (એન્વિરોન્મેન્ટ ઈમ્પેક્ટ એસેસમેન્ટ) અહેવાલના મુસદ્દાની પ્રત તથા એન્વિરોન્મેન્ટ ઈમ્પેક્ટ એસેસમેન્ટનો સંક્ષિપ્ત અહેવાલની પ્રત નીચે દર્શાવેલ ઓથોરિટી/કાર્યાલયો ખાતે કામકાજના દિવસો દરમિયાન લોકસુનાવણીના દિન સુધી નિહાળી શકાશે.

૧. જિલ્લા કલેક્ટરશ્રીની કચેરી, વલસાડ
૨. જિલ્લા વિકાસ અધિકારીની કચેરી, વલસાડ
૩. જિલ્લા ઉદ્યોગ કેન્દ્ર, વલસાડ
૪. તાલુકા વિકાસ અધિકારીની કચેરી, તા.જિ.વલસાડ
૫. મુખ્ય વન સંરક્ષકશ્રી, પર્યાવરણ અને વન મંત્રાલય ભારત સરકારની પ્રાદેશિક કચેરી (પશ્ચિમ ઝોન), કેન્દ્રીય પર્યાવરણ ભવન, ઈ-૫, અરેરા કોલોની, લીન્ક રોડ-૩, રવીશંકર કોલોની, ભોપાલ - ૪૬૨૦૧૬.
૬. પ્રાદેશિક કચેરી, ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડ, શેડ નં. સી-૫/૧૨૪, વાપી જીઆઈડીસી, હોટેલ પ્રિતમ પાસે, વાપી, જિ.વલસાડ - ૩૯૬૧૯૫.

જિલ્લા કલેક્ટરશ્રી, (જિલ્લા મેજિસ્ટ્રેટ) કે, તેઓના/તેણીના પ્રતિનિધિ કે જેનો હોદ્દો અધિક જિલ્લા મેજિસ્ટ્રેટથી ઉતરતી કક્ષાનો ન હોય, તેવી વ્યક્તિ સદર લોકસુનાવણીની કામગીરીનું દેખરેખ અને સંચાલન કરશે.

લોકસુનાવણીની તારીખ. ૧૫-૧૨-૨૦૧૨ના રોજ ૧૧-૦૦ કલાકે, શ્રી સૌરાષ્ટ્ર પટેલ કડવા પાટીદાર સમાજ હોલ, ધરમપુર ચાર રસ્તા, નેશનલ હાઈવે નં. ૮ વલસાડ તા.જિ.વલસાડ - ૩૯૬૦૦૧. ખાતે યોજવામાં આવેલ છે.

સ્થળ : ગાંધીનગર
તા. ૦૫-૧૧-૨૦૧૨

હાર્દિક શાહ
સભ્ય સચિવ

Gujarat Pollution Control Board
Paryavaran Bhavan, Sector 10 A, Gandhinagar 382 010
Tel 079-23232152 Fax 079-23222784 www.gpcb.gov.in

Public Notice

It is hereby informed that as per the Ministry of Environment and Forests, Government of India, New Delhi vide its Notification no. S.O. 1533 dated September 14, 2006, Public Hearing has been fixed for **M/s. Asha Cellulose (I) Pvt. Ltd., for Expansion of existing capacity of Ethyl Cellulose plant from 20 TPM to 99.69 TPM), at Survey No. 303/2 & 302/P, Village : Abrama Tehsil & Dist : Valsad covered under Category "A"** as mentioned in their request application.

All plausible stake holder of the project are requested to remain present in the public hearing or send their response in writing to Member Secretary, GPCB.

Other interested persons can submit their responses to Member Secretary, GPCB in writing before the hearing date.

It may be noted that, draft Environment Impact Assessment report and the Executive Summary of Environment Impact Assessment Report of the project has been sent to the following authorities or offices to make it available for inspection to the public during normal office hours, till the Public Hearing is over.

1. The District Collector Office, **Valsad**
2. District Development Office, **Valsad**
3. District Industry Centre, **Valsad**
4. Taluka Development Office, **Tal. & Dist. Valsad**
5. The Chief Conservator of Forests, Ministry of Environment & Forests, GOI, Regional Office (West Zone), Kendriya Paryavaran Bhavan, E- 5, Arera Colony, Link Road 3., Ravisankar Colony, Bhopal 462 016
6. **Regional Office, GPCB, Vapi**, Shed no. C 5/124, Vapi, GIDC, Near Hotel Pritam, Vapi-396 195. **Dist. Valsad.**

The District Magistrate or his or her representative not below the rank of an Additional District Magistrate shall supervise and preside over the entire public hearing process.

The Public Hearing is scheduled to be held on **15.12.2012 at 11:00 hrs, Shree Saurashtra Patel Kadva Patidar Samaj Hall, Dharampur char Rasta, N.H. No. 8, Valsad, Ta. & Dist. Valsad.**

Place : Gandhinagar
Date : 05.11.2012

Hardik Shah
Member Secretary, GPCB

ANNEXURE: V
MONITORING REPORT
PART – I
DATA SHEET

| | | |
|----|--|---|
| 1. | Project type : River-Valley/Mining/Industry/Thermal/Nuclear/Other | Industry |
| 2. | Name of the Project | Asha Cellulose (I) Pvt. Limited |
| 3. | Clearance letter(s) OM No. and date | J-11011/316/2011-IA II (I) dated 25.06.2015 |
| 4. | Location: | Plot. No. 303/2 & 302/P, Village: Abrama, Tehsil & Dist: Valsad, Gujarat |
| | (a) District (s) | Valsad |
| | (b) State (s) | Gujarat |
| | (c) Location Latitude/Longitude | 20^o35' 38.39" N Latitude & 72^o 57'40.59" E Longitude. |
| 5. | Address for correspondence | Plot. No. 303/2 & 302/P, Village: Abrama, Tehsil & Dist: Valsad, Gujarat |
| | (a) Address of the correspondence Project Chief Engineer (with pin Code & telephone/Telex/Fax numbers) | Mr. K Srinivas- Director technical M/s. Asha Cellulose (I) Pvt. Limited Plot. No. 303/2 & 302/P, Village: Abrama, Tehsil & Dist: Valsad, Gujarat Mobile no. +91 9825132304 |
| | (b) Address of the Executive Project Engineer/Manager | Mr. K Srinivas- Director technical M/s. Asha Cellulose (I) Pvt. Limited Plot. No. 303/2 & 302/P, Village: Abrama, Tehsil & Dist: Valsad, Gujarat Mobile no. +91 9825132304 |
| 6. | Salient Features | Annexure: 5.1 attached |
| | (a) Of the Project | Annexure: 5.1 attached |
| | (b) Of the EMP | Annexure: 5.1 attached |
| 7. | Breakup of the Project area | Total 22062 m² |

| | | |
|----|---|--|
| | (a) Submergence area : forest non-forest | Not applicable |
| | (b) Others | Non agriculture land |
| 8. | Breakup of the project affected population with enumeration of those losing houses/dwelling units only agricultural land only both dwelling units & agricultural land & landless laborers/artisans: | Not applicable as we had purchased non agriculture land |
| | (a) SC, ST/Adivasi | Not applicable as we had purchased non agriculture land |
| | (b) Others | Not applicable as we had purchased non agriculture land |
| | (Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details & year of survey) | Not applicable as we had purchased non agriculture land |
| 9. | Financial Details | |
| | (a) Project cost as originally planned and subsequent revised estimates and the year of price reference | Originally project cost Rs. 1490 lakhs. There are no changes in project cost |
| | (b) Allocation made for EMP with item wise and year wise break-up | Total Rs. 210 lakhs for EMS Rs. 192 lakhs for effluent treatment plant, RO plant and MEE Rs. 8.0 lakhs for MDC and bag filter and chimney Rs. 10 lakhs for the membership of TSDF, CHWIF and disposal of hazardous waste. Entire allocation was done in the year of 2015. |
| | I BC ratio/IRR and the year of assessment | 1.0: 1.15 |
| | (d) Whether © includes the cost of EMS as shown in the above | - |
| | (e) Actual expenditure incurred on the project so far | Rs. 1490 lakhs |
| | (f) Actual expenditure incurred on the EMP so far | Total Rs. 210 lakhs |
| 10 | Forest land requirement | Not applicable as we had purchased non agriculture land |

| | | |
|----|---|--|
| | (a) The status of approval for diversion of forest land for non forestry use | Not applicable as we had purchased non agriculture land |
| | (b) The status of clearing felling | Not applicable as we had purchased non agriculture land |
| | © The status of CA, if any | Not applicable as we had purchased non agriculture land |
| | (d) comments on the viability & sustainability of CA program in the light of actual field experience so far | Not applicable as we had purchased non agriculture land |
| 11 | The status of clear felling in non-forest areas (such as submergence area or reservoir, approach Rods.), if any with quantitative information required. | Not applicable as we had purchased non agriculture land |
| 12 | Status of construction (Actual &/or Planned) | Plant was already commissioned in the year of 2015 |
| | (a) Date of commencement (Actual &/or Planned) | November 2015 |
| | (b) Date of completion (Actual &/or Planned) | - |
| 13 | Reason for delay if the project is yet to start. | Project was started as per schedule |
| 14 | Any pending cases/complaints against the unit | There is no any pending cases or complaints against the unit. Also there are no closure orders from GPCB/CPCB. Show cause notice received from GPCB and we have already complied with. The details of show cause notice for last Three years and its compliance is enclosed herewith as Annexure: III |

ANNEXURE: 5.1

SALIENT FEATURES OF THE PROJECT AFTER EXPANSION

- Proposed expansion plant of Organic Chemicals at our existing plant located at S. No. 303/2 & 302/P, Village: Abrama, Tehsil & Di: Valsad, Gujarat by M/S Asha Cellulose (I) Pvt. Limited.
- The existing production capacity is 20 TPM of Organic Chemical, proposed production capacity will be 80 TPM of existing product, thus after proposed expansion, total capacity will be 100 TPM.
- The existing cost of the project is Rs. 694 Lacs. The cost of the proposed project will be Rs. 1490 Lacs, thus total cost of the project after proposed expansion will be Rs. 2184 lacs; out of which Rs. 248 lacs will be for environment protection measures.
- The list of the products at existing & proposed scenario are as follows;

| Sr. No. | Name of the Product | Capacity, MT / Month | | | Remarks |
|---------|-------------------------------------|----------------------|----------|-----------------------|--|
| | | Existing | Proposed | Total after expansion | |
| 1 | ETHYL CELLULOSE (AQUA PROCESS) | 20 | 0 | 20 | Product from both the processes shall be manufactured. |
| 2 | ETHYL CELLULOSE (SOLVENT PROCESS) | 0 | 79.69 | 79.69 | |
| | Total | 20 | 79.69 | 99.69 | |

LIST OF BY- PRODUCTS

| S. No. | Name of the Product | Capacity, MT / Month | | | Remarks |
|--------|------------------------|----------------------|----------|-----------------------|----------------------------|
| | | Existing | Proposed | Total after expansion | |
| 1 | Spent Caustic (18-20%) | 369.2 | 0 | 369.2 | Sold to actual users |
| 2 | Mixed Solvent | 34.46 | 110.18 | 144.64 | Sold to authorized dealers |

- Presently, company is using one number of 3 TPH capacity of steam boiler, hot air generator of 6 lacs k cal capacity, furnace oil or natural gas used as a fuel at a rate of

1920 kgs/day or 2300 SCM/day & 480 kgs/day or 580 SCM/day respectively, having 33 meters & 11 meters height of chimney & SMF is provided. There will be one 5 TPH of steam boiler & two numbers of 10 lacs k cal capacity of hot air generators will be added having fuel of furnace oil or natural gas will be used at a rate of 4020 kgs/day or 4800 SCM/day & 1620 kgs/day or 1940 SCM/day respectively. Thus after proposed expansion furnace oil consumption will be 8040 kgs/day or natural gas consumption will be 9620 SCM/day. Also 500 KVA, 110 KVA & 35 KVA of D G sets will be installed as a standby in case of power failure. 150 kgs/hr of HSD will be used for DG sets & separate 11 meters height of chimney & SMF shall be provided. Also there is a 50 kgs/hr & 250 kgs/hr capacity of spin flash dryer will be used having cyclone separator & bag filter provided along with 11 meters height of chimney. There will be no process gas emission.

- Presently 52.7 m³/day of water is used sourced from own bore well. For the proposed expansion, there will be decrease in the fresh water requirement by 3.5 m³/day, thus after proposed expansion the total fresh water requirement will be 49.2 m³/day shall be sourced from existing own bore well. Presently we are generating 38.3 m³/day of industrial effluent, which is treated in primary, secondary & tertiary effluent treatment plant & finally discharged into tidal zone of river Auranga for ultimate disposal into Arabian Sea. After proposed expansion, there will be 242.1 m³/day of effluent generation, for the treatment of which we have proposed modified effluent treatment plant consisting of primary, secondary & tertiary treatment units followed by RO system & multiple effect evaporation system. Thus, after expansion there will be no discharge of any industrial effluent on land. Entire treated effluent will be recycled in the process. Salt from MEE will be sent to TSDF.
- After proposed expansion; 0.020 TPA of used oil from the machineries, 70 TPA of discarded containers, 220.47 TPA of waste from ETP & MEE, 0.22 TPA of dust from air filtration system, 2816.4 TPA of salt from the process, 47.19 TPA of distillation residue from the process will be generated. Used oil shall be sold to registered re-refiner; discarded containers shall be partly reused for packing & partly sold to authorized recycler. ETP waste, salt from MEE & process shall be dispose off into TSDF, residue shall be sent to CHWIF of M/S GEPIL, Surat. Each category of waste will be stored in segregated area in covered storage shed with chemical proof flooring and R.C.C. boundary wall to prevent a leaching due to rain during monsoon. Leachate collection system will be provided which is connected to ETP inlet. The company has already taken membership of common TSDF/CHWIF site of M/S VWEMCL, Vapi. GEPIL, Surat & BEIL, Ankleshwar.

- After proposed expansion, there will be usage of solvent i.e ethyl chloride as a reactant with consumption of 254 TPM & Toluene will be used as a reaction medium with consumption of 32.24 TPM. We have provided adequate solvent recovery system.
- Land Acquired: Existing 22060 m2 of area with will be utilized for proposed expansion. Power requirement and source: Total power requirement will be 1500 KVA from DGVCL. The project activity is listed at 5 (f) and is of A Category in the Schedule of EIA Notification, 2006.
- Land acquired: 22060 m2
- Land for Green belt: 6325 m2
- Cost of project: Total Rs. 2184 lacs
- Capital and recurring Cost earmarked for environmental protection measures: Existing capital cost for EMS is Rs. 38 lacs & operating cost is Rs. 8 lacs per Anum. After proposed expansion total capital cost will be Rs. 248 lacs & estimated operating cost will be Rs. 134 lacs per Anum.
- Raw materials with quantities for proposed product:

FOR EXISTING PROCESS

| Sr. No. | Raw Materials | Consumption in TPM | |
|---------|----------------|--------------------|-----------|
| | | Per tone | Per month |
| 1 | Wood pulp | 0.81 | 16.2 |
| 2 | Caustic flakes | 5.385 | 107.7 |
| 3 | Ethyl Chloride | 3.365 | 67.3 |
| 4 | Acetic acid | 0.0039 | 0.078 |
| | Total | | 191.278 |

FOR PROPOSED PROCESS

| Sr. No. | Raw Materials | Consumption in TPM | |
|---------|----------------|--------------------|-----------|
| | | Per tone | Per month |
| 1 | Wood pulp | 0.83 | 66.14 |
| 2 | Caustic flakes | 1.74 | 138.66 |
| 3 | Ethyl Chloride | 2.34 | 186.47 |

| | | | |
|---|-------------|------|--------|
| 4 | Toluene | 0.40 | 32.24 |
| 5 | Acetic acid | 0.59 | 47.02 |
| 6 | SDS | 0.19 | 15.14 |
| | Total | | 485.66 |

- Water requirement, sources and pollution management : Source of Water: Own bore well
- Total water requirement: 49.2 m³/day
- Total industrial effluent generation: 242.1 m³/day
- Pollution management: Provide primary, secondary & tertiary treatment followed by RO & MEE system for industrial effluent stream & treated effluent shall be recycled back to the process, thus there will no discharge of any effluent on land.
- Power requirement and source: Total 1500 KVA power from DGVCL,
- Fuel requirement: FO or natural gas: 8040 kgs/day or 9620 SCM/day & 150 kgs/hr of HSD
- DG sets: 500 KVA, 110 KVA & 35 KVA

EC COMPLIANCE REPORT

for

October 2018 to March 2019

M/s. ASHA CELLULOSE (I) PVT. LIMITED

At,

Plot. No. 303/2, 302/P, Village: Abrama, Tehsil & Dist: Valsad,
Gujarat.

The compliance of Specific conditions & general conditions of Environmental Clearance are as follows;

| Sr. No | CONDITIONS | | Compliance | | |
|----------|--|--|--|---|---------------------------------|
| A | Specific Conditions | | | | |
| i | National Emission standards for organic chemicals Manufacturing Industry issued by the ministry vide G.S.R 608(E) dated 21 th July 2010 and amended time to time shall be followed by the unit. | | We are complying with all the parameters for national emission standards for organic chemicals Manufacturing Industry issued by the ministry vide G.S.R 608(E) dated 21 th July 2010 and amended time to time by regularly monitoring of ambient air, noise level, VOC monitoring, fugitive emission and waste water analysis through NABL accredited laboratory. Compliance of G.S.R 608(E) dated 21 th July 2010 and amended are as under; | | |
| | Sr. No. | Industry | Parameter | Standards | Compliance |
| | (1) | (2) | (3) | (4) | |
| | "68. | Organic chemicals Manufacturing Industry | A. Effluent Standards | | |
| | | | | Limiting concentration in mg/l, except for pH and Bioassay test | |
| | | | Compulsory Parameters | | |
| | | | PH | 6.5-8.5 | 7.0-8.0 |
| | | | BOD 3 days, 27°C | 100 | 20-30 |
| | | | Oil & Grease | 10 | 0.5-0.7 |
| | | | Bioassay test + | Minimum 90% survival after 96 hours in 100% effluent | Not applicable, we are ZLD unit |
| | | | Additional Parameters | | |
| | | | Nitrate (as N) | 10 | 1-2 |
| | | | Arsenic (as As) | 0.2 | ND |
| | | | Chromium (Hexavalent) | 0.1 | ND |
| | | | Chromium Total | 1.0 | ND |
| | | | Lead (as Pb) | 0.1 | ND |
| | | | Cyanide (as CN) | 0.2 | ND |
| | | | Zinc (as Zn) | 5.0 | ND |
| | | | Mercury (as Hg) | 0.01 | ND |
| | | | Copper (as Cu) | 2.0 | ND |
| | | | Nickel (as Ni) | 2.0 | ND |

| | | | | |
|-----|---|--|---|-----------------|
| | | Phenolics (as C ₆ H ₅ OH) | 5.0 | 0.1-0.02 |
| | | Sulphide | 2.0 | 0.1-0.2 |
| | | + The Bioassay test shall be conduct as per IS: 6582-1971 | | |
| | | Note: | | |
| | | (i) | Industries covered under this group include halo aliphatics, plasticizers, aromatics (alcohols, phenols, esters, acids and salts, Aldehydes and ketones), substituted aromatic, aliphatics (alcohol, esters, acids, Aldehydes, ketones, amines and amides) and detergents. | |
| | | (ii) | Though norms for COD are not mentioned here but, COD shall be mentioned. If the COD in treated effluent exceeds 250 mg/l, the concerned industrial units discharge such effluent shall be required to indentify chemicals responsible for high COD in effluent. In case, these are found to be toxic as defined under the manufacturing, Storage and Import of Hazardous chemicals Rules, 1989, the concerned industry shall install tertiary treatment system. | COD: 80-90 mg/l |
| | | (iii) | The above mentioned standards shall not be applicable to small scale detergent formulating units. | Agreed |
| ii | Adequate stack height should be provided to gas fired boiler/hot air generator, Bag filter shall be provided to additional spin flash dryers. At no time, the emission levels should go beyond the prescribed standards. | We have provided 11 meters height of chimney to the gas fired boiler and hot air generator as per formula $(H=14 (Q)^{0.3})$, where as Q is SO ₂ emissions in kg /hr) given by the CPCB. Also we have provided bag filter to spin flash dryer to control particulate matter in the atmosphere. We ensure that, no emission level will beyond the prescribed standard. | | |
| iii | In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing | We have provided closed reactors, storage tanks for liquid raw materials to control the fugitive emission. Also provided alarm system to check the fugitive emission at source. We have provided closed storage, closed | | |

| | |
|---|---|
| <p>closed storage, closed handling & conveyance of chemicals/ materials, multi cyclone separator and water sprinkling system.</p> <p>Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emission.</p> <p>Fugitive emissions in the work zone environment, product, raw material storage area etc. shall be regularly monitored.</p> | <p>handling & conveyance of chemicals/ materials, multi cyclone separator and water sprinkling system to control fugitive emission.</p> <p>We have provided RCC road within the premises and also provided water sprinkler system at loading and unloading area.</p> <p>We have regularly carried out fugitive emission in the work zone area, production plant, raw material/product storage area through NABL accredited laboratory M/S Ecosystem Resource Management Pvt. Limited, Surat on monthly basis.</p> <p>Summary of the results are as under;</p> |
|---|---|

| No. | Date | Name of Raw Material Storage | | | |
|-----|--|------------------------------|-----------------|---------------|---------------|
| | | Toluene | Ethyl Alcohol | Acetic Acid | HCl |
| 1 | 16/10/2018 | 23.5 | 57.6 | 02.0 | 1.30 |
| 2 | 20/11/2018 | 22.8 | 60.0 | 03.5 | 1.60 |
| 3 | 11/12/2018 | 25.2 | 63.4 | 02.5 | 2.00 |
| 4 | 16/01/2019 | 23.8 | 62.2 | 03.0 | 1.80 |
| 5 | 05/02/2019 | 22.4 | 61.7 | 02.5 | 1.50 |
| 6 | 12/03/2019 | 24.0 | 63.9 | 03.0 | 1.40 |
| | Min. | 22.4 | 57.6 | 02.0 | 1.30 |
| | Max. | 25.2 | 63.9 | 03.5 | 2.00 |
| | TWA Concentration Limit from Factory act.1948 | 100 ppm | 1000 ppm | 10 ppm | 05 ppm |

Fugitive emission was carried out by NABL accredited laboratory M/S Ecosystem Resource Management Pvt. Limited, Surat. (NABL Certificate No. TC- 6603 (in lieu of T02013) dated 26/10/2017 valid until: 25/10/2019

| | | |
|----|--|--|
| iv | <p>Solvent management shall be carried out as follows:</p> <p>i. Reactor shall be connected to chilled brine condenser system.</p> <p>ii. Reactor and solvent handling pump shall have mechanical seals to prevent</p> | <p>We are using toluene as solvent and provided adequate solvent recovery system to achieve > 95% of recovery. The details of solvent recovery plant as under;</p> <p>All the reactors are connected to the double condenser with chilled water and brine.</p> <p>We have provided mechanical seal to all solvent handling pumps to prevent</p> |
|----|--|--|

| | | |
|--|--|---|
| | <p>leakages.</p> <p>iii. The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.</p> <p>iv. Solvents shall be stored in a separate space specified with all safety measures.</p> <p>v. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.</p> <p>vi. Entire plant shall be flame proof. The solvent storage tanks should be provided with breather valve to prevent losses.</p> <p>vii. All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.</p> | <p>leakages.</p> <p>We have provided sufficient HTA to condensers to achieve more than 95% of solvent recovery.</p> <p>We have provided isolated storage tanks for the storage of solvent.</p> <p>We have provided proper earthing to the storage tanks and in all the electrical equipment wherever solvent handling is done.</p> <p>We have provided flame proof units and also provided breather valve to storage tank to prevent losses.</p> <p>All the storage tanks are connected to the double condenser with chilled water and brine</p> <p>We are regularly monitored VOC level through NABL Accredited laboratory M/S Ecosystem Resource Management Pvt. Limited, Surat.</p> <p>Summary of the results are as under</p> |
|--|--|---|

| No. | Date | Results | Permissible Limits as per factory act rules |
|-----|-------------|--------------|---|
| 1 | 16/10/2018 | 14.80 | 160 |
| 2 | 20/11/2018 | 12.60 | |
| 3 | 11/12/2018 | 17.50 | |
| 4 | 16/01/2019 | 16.80 | |
| 5 | 05/02/2019 | 19.20 | |
| 6 | 12/03/2019 | 15.00 | |
| | Min. | 12.60 | |
| | Max. | 19.20 | |

• **All Results are in microgram/m3**

VOC monitoring was carried out by M/S Ecosystem Resource Management Pvt. Limited, Surat.

(NABL Certificate No. TC- 6603 (in lieu of T02013) dated 26/10/2017 valid until: 25/10/2019)

| | | |
|---|--|--|
| v | <p>The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards.</p> <p>Acoustic enclosure shall be provided to the DG sets to</p> | <p>We have provided 11 meters height of chimney to D G set as per formula issued by CPCB $H = h + 0.2 \times \sqrt{QVA}$ and disperse the gaseous emission through chimney.</p> <p>We have provided acoustic enclosure to</p> |
|---|--|--|

| | | |
|----|---|---|
| | mitigate the noise pollution. | the D G set to minimize the noise pollution. |
| vi | <p>The company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on its website and shall updates the same periodically. It shall simultaneously be sent to the Regional office of MoEF, the respective Zonal office of CPCB and the GPCB.</p> <p>The levels of PM₁₀, SO₂, NO_x, Co_x, VOC and CO, in ambient air and emission from the stack shall be monitored and displayed at a convenient location near the main gate of company and at important public places.</p> | <p>We will upload the status of compliance of conditions mentioned in EC including results of monitored data etc on our company web site.</p> <p>We have regularly submitted EC compliance report along with monitoring data to Regional office of MoEF, CPCB and GPCB.</p> <p>We are regularly monitored level of PM₁₀, SO₂, NO_x, Co_x, VOC and CO, in ambient air and emission from the stack through NABL accredited laboratory M/S Ecosystem Resource Management Pvt. Limited, Surat on monthly basis. We have provided display board at main gate of the unit indicating monitoring data.</p> <p>Summary of the results are as under;</p> |

Ambient Air Monitoring

| N o. | Date | Location | Results PM 10 | Min. | Max. | GPCB Limit |
|-------------|-------------|-----------------|----------------------|-------------|-------------|-------------------|
| 1 | 16/10/2018 | Near Main Gate | 82 | 79 | 88 | 100 |
| 2 | 20/11/2018 | Near Main Gate | 85 | | | |
| 3 | 11/12/2018 | Near Main Gate | 88 | | | |
| 4 | 16/01/2019 | Near Main Gate | 80 | | | |
| 5 | 05/02/2019 | Near Main Gate | 79 | | | |
| 6 | 12/03/2019 | Near Main Gate | 83 | | | |
| 7 | 16/10/2018 | Near ETP | 65 | 62 | 70 | 100 |
| 8 | 20/11/2018 | Near ETP | 62 | | | |
| 9 | 11/12/2018 | Near ETP | 70 | | | |
| 10 | 16/01/2019 | Near ETP | 67 | | | |
| 11 | 05/02/2019 | Near ETP | 66 | | | |
| 12 | 12/03/2019 | Near ETP | 64 | | | |

| No. | Date | Location | Results PM 2.5 | Min. | Max. | GPCB Limit |
|------------|-------------|-----------------|-----------------------|-------------|-------------|-------------------|
| 1 | 16/10/2018 | Near Main Gate | 48 | 46 | 50 | 60 |
| 2 | 20/11/2018 | Near Main Gate | 50 | | | |
| 3 | 11/12/2018 | Near Main Gate | 52 | | | |
| 4 | 16/01/2019 | Near Main Gate | 47 | | | |
| 5 | 05/02/2019 | Near Main Gate | 46 | | | |

| | | | | | | | | | | |
|---|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | Nm3 | | | Nm3 | | | Nm3 | Nm3 | Nm3 |
| 1 | 16/10/2018 | 73.80 | 23.20 | 07.48 | 68.20 | 21.20 | 08.46 | 58.70 | 18.40 | 06.75 |
| 2 | 20/11/2018 | 75.00 | 24.50 | 07.88 | 70.00 | 22.00 | 09.12 | 60.00 | 19.00 | 07.34 |
| 3 | 11/12/2018 | 76.60 | 25.00 | 08.06 | 66.50 | 20.40 | 07.87 | 59.20 | 18.50 | 07.00 |
| 4 | 16/01/2019 | 78.50 | 26.30 | 08.34 | 67.20 | 20.80 | 08.13 | 61.50 | 19.40 | 07.72 |
| 5 | 05/02/2019 | 80.00 | 27.80 | 08.78 | 69.80 | 21.70 | 08.88 | 62.30 | 20.00 | 07.92 |
| 6 | 12/03/2019 | 76.20 | 25.20 | 08.00 | 65.40 | 20.10 | 07.56 | 57.30 | 18.00 | 06.46 |
| | Min. | 73.80 | 23.20 | 07.48 | 65.40 | 20.10 | 07.56 | 57.30 | 18.00 | 06.46 |
| | Max. | 80.00 | 27.80 | 08.78 | 70.00 | 22.00 | 09.12 | 62.30 | 20.00 | 07.92 |
| | G.P.C.B. Limits | 150 | 100 | 50 | 150 | 100 | 50 | 150 | 100 | 50 |

| No. | Date | Dryer-1 | Dryer-2 | Hot Air Generator-1 | | | Hot Air Generator-1 | | |
|-----|------------------------|--------------|--------------|---------------------|--------------|--------------|---------------------|--------------|--------------|
| | | PM mg/Nm3 | PM mg/Nm3 | PM mg/ Nm3 | SO2 ppm | NOx ppm | PM mg/ Nm3 | SO2 ppm | NOx ppm |
| 1 | 16/10/2018 | 10.70 | 12.40 | 11.20 | 06.20 | 09.07 | 13.80 | 08.30 | 10.12 |
| 2 | 20/11/2018 | 12.50 | 11.00 | 13.50 | 07.20 | 10.24 | 15.20 | 09.00 | 11.33 |
| 3 | 11/12/2018 | 11.80 | 13.40 | 12.80 | 06.80 | 09.62 | 12.80 | 07.80 | 09.46 |
| 4 | 16/01/2019 | 10.20 | 15.20 | 10.40 | 06.00 | 08.82 | 14.40 | 08.70 | 10.45 |
| 5 | 05/02/2019 | 13.00 | 14.60 | 11.00 | 06.10 | 09.00 | 13.60 | 08.00 | 09.83 |
| 6 | 12/03/2019 | 12.60 | 13.80 | 12.40 | 06.50 | 09.42 | 15.00 | 08.80 | 10.96 |
| | Min. | 10.20 | 11.00 | 11.00 | 06.00 | 08.82 | 12.80 | 07.80 | 09.46 |
| | Max. | 13.00 | 15.20 | 13.50 | 07.20 | 10.24 | 15.20 | 09.00 | 11.33 |
| | G.P.C.B. Limits | 150 | 150 | 150 | 100 | 50 | 150 | 100 | 50 |

Flue gas emission and process gas emission monitoring was carried out by NABL accredited laboratory M/S Ecosystem Resource Management Pvt. Limited, Surat (NABL Certificate No. TC- 6603 (in lieu of T02013) dated 26/10/2017 valid until: 25/10/2019)

vii Total fresh water requirement from ground water source should not exceed 52.7 m³/ day and prior permission should be obtained from the CGWA/SGWA.

We are using fresh water from our own bore well. We have used average 38.02 m³/day of fresh water from our own bore well. To calculate water consumption, we have provided flow meter at the bore well. Details of water consumption for six months are as under;

| S. No. | Month | Water consumption, Kl | |
|--------|--------------|-----------------------|---------------|
| | | Per month | Per day |
| 1 | Oct-18 | 592 | 22.76 |
| 2 | Nov-18 | 561 | 21.57 |
| 3 | Dec-18 | 657 | 25.26 |
| 4 | Jan-19 | 709 | 27.26 |
| 5 | Feb-19 | 620 | 23.84 |
| 6 | March-19 | 322 | 12.38 |
| | Total | 3461 | 133.07 |

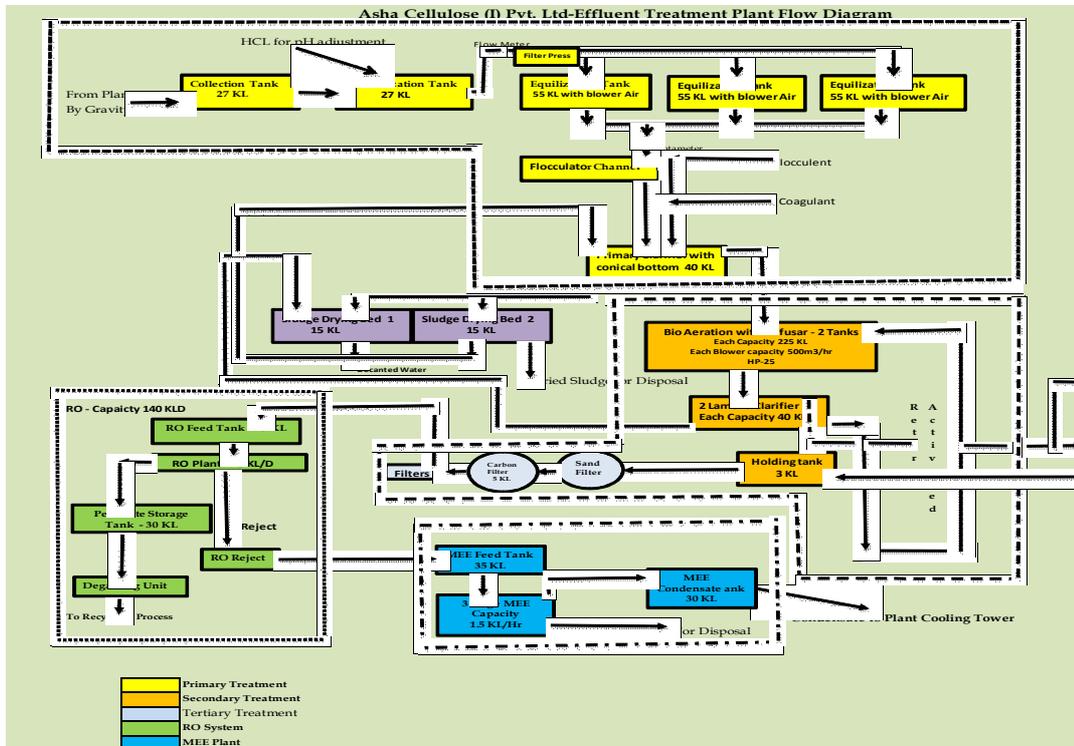
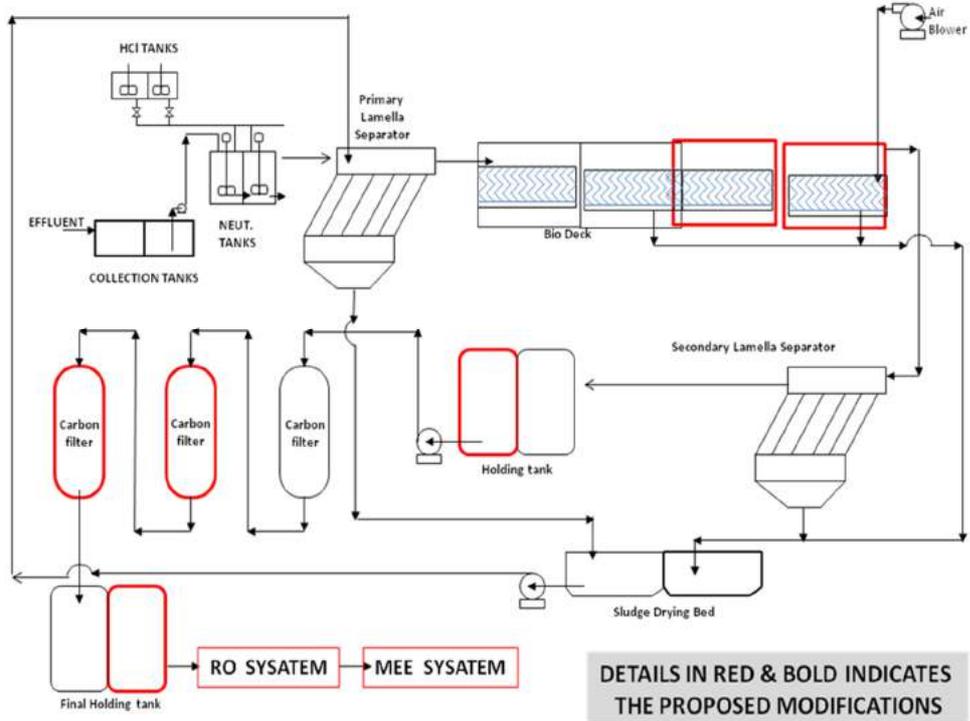
| | | | | |
|--|--|---|-----|----|
| | | Average | 576 | 22 |
| | | Our area was not covered under dark zone of CGWA. So we have not applied for permission of CGWA. Now it is mandatory to take permission of CGWA and we will apply for permission of CGWA. | | |

| | | |
|-----|---|---|
| vii | <p>Total effluent generations shall not exceed 240.5 m³/day.</p> <p>Effluent shall be should be treated in ETP comprising primary, secondary and tertiary treatment (RO). RO rejects will be evaporated in MEE.</p> <p>The RO permeates and MEE condensate shall be recycled in the process.</p> | <p>We have generated average 144.3 m³/day of industrial effluent.</p> <p>We have provided primary, secondary and tertiary effluent treatment plant and RO/MEE to treat entire industrial effluent. RO rejected effluent is taken to MEE.</p> <p>RO permeate and MEE condensate is recycle in the process</p> |
|-----|---|---|

DETAILS OF ETP, RO AND MEE

| Sr. No. | Particulars | Capacity, m3 | MOC |
|---------|--|--------------|---------------|
| 1 | Collection Tank | 205 | RCC |
| 2 | Neutralization Tank | 40 | RCC |
| 3 | Floculator | 7 | MSRL |
| 4 | Primary lamella separator with tube deck | 26 | MSRL |
| 5 | Sludge drying bed | 30 | Brick Masonry |
| 6 | Aeration tank with tube deck packing | 526 | RCC |
| 7 | Secondary Lamella separator with tube deck | 26 | MSRL |
| 8 | Holding tank | 30 | RCC |
| 9 | Activated carbon bed | 6 m3 | MSRL |
| 10 | Sand bed filter | 6 m3 | MSRL |
| 11 | Final treated water holding tank | 111 | RCC |
| 12 | RO System | 12 m3/hr | PP |
| 13 | RO Rejection collection tank | 22 | RCC |
| 14 | MEE system | 1.5 m3/hr | MS |
| 15 | Final RO permeate & MEE condensate collection tank | 50 | RCC |

FLOW DIAGRAM OF POPOSED MODIFIED EFFLUENT TREATMENT PLANT



ix 'Zero' effluent discharge shall be adopted and no effluent will be discharged outside the premises.

We have adopted zero liquid discharge by installing primary, secondary, tertiary

ETP, Reverse Osmosis and Multi effect evaporation system. We are not discharging any industrial effluent out side the factory premises.
 We are regularly monitored sewage effluent, ETP inlet, ETP out let RO permeate, MEE Condensate through NABL accredited laboratory M/S Eco resource management pvt. Limited, Surat on monthly basis.
 Summary of the results are as under;

Sewage Sample

| No. | Date | Parameters & Results | | | |
|-----|------------------------|----------------------|---------------------------|---------------------------|-------------------------|
| | | pH | Suspended Solids (mg/L) | BOD (3days 27°C) (mg/L) | Residual Chlorine (ppm) |
| 1 | 16/10/2018 | 8.40 | 20 | 10 | 0.75 |
| 2 | 20/11/2018 | 8.19 | 16 | 08 | 0.65 |
| 3 | 11/12/2018 | 7.96 | 18 | 09 | 0.62 |
| 4 | 16/01/2019 | 8.07 | 19 | 11 | 0.68 |
| 5 | 05/02/2019 | 8.32 | 17 | 09 | 0.75 |
| 6 | 12/03/2019 | 8.14 | 18 | 10 | 0.70 |
| | Min. | 7.96 | 16 | 08 | 0.62 |
| | Max. | 8.40 | 20 | 11 | 0.75 |
| | G.P.C.B. Limits | - | Less than 30 mg/L. | Less than 20 mg/L. | Minimum 0.5 ppm |

Effluent Analysis (R.O. Permeate)

| No | Parameters | Unit | Month wise Results | | | | | | Min. | Max. |
|----|----------------|--------|--------------------|----------|----------|---------|--------|---------|--------------|--------------|
| | | | 16/10/18 | 20/11/18 | 11/12/18 | 16/1/19 | 5/2/19 | 12/3/19 | | |
| 1 | Colour | Pt.co. | 05 | 00 | 05 | 05 | 00 | 00 | 00 | 05 |
| 2 | Temp. | oC | 25 | 26 | 27 | 26 | 27 | 26 | 25 | 27 |
| 3 | pH | unit | 6.88 | 6.92 | 7.08 | 6.78 | 7.10 | 6.80 | 6.78 | 7.10 |
| 4 | S.S. | mg/l | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| 5 | T.D.S. | mg/l | 82 | 85 | 79 | 83 | 88 | 80 | 79 | 88 |
| 6 | COD | mg/l | 12.60 | 14.40 | 11.60 | 13.70 | 15.20 | 13.70 | 12.60 | 15.20 |
| 7 | Chlorides | mg/l | 60 | 63 | 55 | 60 | 67 | 57 | 55 | 67 |
| 8 | Oil/Grease | mg/l | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| 9 | Sulphates | mg/l | 20 | 23 | 17 | 20 | 26 | 18 | 17 | 26 |
| 10 | NH3-N | mg/l | 5.00 | 3.40 | 4.20 | 5.20 | 3.80 | 4.20 | 3.40 | 5.20 |
| 11 | Phenolic comp. | mg/l | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |

Effluent Analysis (Condensate water from MEE)

| No. | Parameters | Unit | Month wise Results | | | | | | Min. | Max. |
|-----|------------|--------|--------------------|----------|----------|---------|--------|---------|-----------|-----------|
| | | | 16/10/18 | 20/11/18 | 11/12/18 | 16/1/19 | 5/2/19 | 12/3/19 | | |
| 1 | Colour | Pt.co. | 05 | 10 | 05 | 15 | 10 | 05 | 05 | 15 |

| | | | | | | | | | | |
|----|----------------|------|------|------|------|------|------|------|------|------|
| 2 | Temp. | oC | 36 | 33 | 35 | 34 | 35 | 34 | 33 | 36 |
| 3 | pH | unit | 7.08 | 6.93 | 7.24 | 7.32 | 7.28 | 6.88 | 6.88 | 7.32 |
| 4 | S.S. | mg/l | N.D. |
| 5 | T.D.S. | mg/l | 35 | 37 | 34 | 40 | 38 | 36 | 35 | 40 |
| 6 | COD | mg/l | 318 | 324 | 298 | 308 | 314 | 320 | 298 | 324 |
| 7 | BOD | mg/l | 100 | 105 | 91 | 95 | 98 | 102 | 91 | 105 |
| 8 | Chlorides | mg/l | 24 | 26 | 23 | 28 | 26 | 24 | 23 | 28 |
| 9 | Oil/Grease | mg/l | N.D. |
| 10 | Sulphates | mg/l | 10 | 13 | 09 | 14 | 14 | 12 | 09 | 14 |
| 11 | NH3-N | mg/l | 6.2 | 5.8 | 4.6 | 5.8 | 4.6 | 7.0 | 4.6 | 7.0 |
| 12 | Phenolic comp. | mg/l | 0.04 | 0.06 | 0.03 | 0.04 | 0.05 | 0.06 | 0.03 | 0.06 |

Effluent Analysis (E.T.P. Outlet)

| Month wise Results | | | | | | | | | | | |
|--------------------|----------------|-------|----------|----------|----------|---------|--------|---------|------|------|---------|
| No | Parameters | Unit | 16/10/18 | 20/11/18 | 11/12/18 | 16/1/19 | 5/2/19 | 12/3/19 | Min | Max. | Limits |
| 1 | Colour | Pt.co | 50 | 70 | 40 | 50 | 60 | 50 | 40 | 70 | 100 |
| 2 | Temp. | °C | 27 | 27 | 26 | 26 | 27 | 27 | 26 | 27 | 40 |
| 3 | pH | unit | 7.42 | 7.64 | 7.13 | 8.14 | 7.72 | 7.52 | 7.13 | 8.14 | 6.5-8.5 |
| 4 | S.S. | mg/l | 36 | 40 | 44 | 38 | 42 | 41 | 36 | 44 | 100 |
| 5 | T.D.S. | mg/l | 1154 | 1173 | 1181 | 1096 | 1124 | 1156 | 1096 | 1181 | 2100 |
| 6 | COD | mg/l | 132 | 128 | 137 | 142 | 140 | 147 | 128 | 147 | 250 |
| 7 | BOD | mg/l | 22 | 20 | 23 | 27 | 26 | 28 | 20 | 28 | 30 |
| 8 | Chlorides | mg/l | 532 | 553 | 560 | 483 | 517 | 538 | 483 | 560 | 600 |
| 9 | Oil/Grease | mg/l | 1.20 | 1.00 | 1.20 | 0.90 | 1.30 | 1.40 | 0.90 | 1.40 | 10 |
| 10 | Sulphates | mg/l | 388 | 410 | 416 | 357 | 370 | 388 | 357 | 416 | 1000 |
| 11 | NH3-N | mg/l | 8.2 | 9.6 | 7.4 | 8.2 | 9.6 | 7.4 | 7.4 | 9.6 | 50 |
| 12 | Phenolic comp. | mg/l | 0.06 | 0.08 | 0.05 | 0.04 | 0.06 | 0.04 | 0.04 | 0.08 | 01 |

Effluent Analysis (E.T.P. Inlet)

| Month wise Results | | | | | | | | | | | |
|--------------------|----------------|--------|----------|----------|----------|---------|--------|---------|------|------|--|
| No. | Parameters | Unit | 16/10/18 | 20/11/18 | 11/12/18 | 16/1/19 | 5/2/19 | 12/3/19 | Min. | Max. | |
| 1 | Colour | Pt.co. | 130 | 120 | 100 | 120 | 110 | 130 | 100 | 130 | |
| 2 | Temp. | oC | 30 | 29 | 28 | 30 | 30 | 31 | 28 | 31 | |
| 3 | pH | unit | 9.54 | 9.62 | 9.38 | 9.86 | 8.93 | 9.44 | 8.93 | 9.86 | |
| 4 | S.S. | mg/l | 142 | 156 | 138 | 163 | 159 | 164 | 138 | 164 | |
| 5 | T.D.S. | mg/l | 2850 | 2830 | 2870 | 2790 | 2800 | 2850 | 2790 | 2870 | |
| 6 | COD | mg/l | 1080 | 1126 | 1152 | 1096 | 997 | 1100 | 997 | 1152 | |
| 7 | BOD | mg/l | 316 | 330 | 342 | 310 | 296 | 306 | 296 | 342 | |
| 8 | Chlorides | mg/l | 1524 | 1508 | 1542 | 1462 | 1470 | 1520 | 1462 | 1542 | |
| 9 | Oil/Grease | mg/l | 4.80 | 6.00 | 5.50 | 5.20 | 4.70 | 5.30 | 4.70 | 6.00 | |
| 10 | Sulphates | mg/l | 1108 | 1092 | 1123 | 987 | 1054 | 1100 | 987 | 1123 | |
| 11 | NH3-N | mg/l | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | |
| 12 | Phenolic comp. | mg/l | 0.12 | 0.09 | 0.10 | 0.13 | 0.11 | 0.08 | 0.08 | 0.13 | |

Effluent Analysis (R.O. Reject)

| Month wise Results | | | | | | | | | | | |
|--------------------|------------|--------|----------|----------|----------|---------|--------|---------|------|------|--|
| No. | Parameters | Unit | 16/10/18 | 20/11/18 | 11/12/18 | 16/1/19 | 5/2/19 | 12/3/19 | Min. | Max. | |
| 1 | Colour | Pt.co. | 30 | 10 | 20 | 20 | 30 | 20 | 10 | 30 | |

| | | | | | | | | | | |
|----|----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2 | Temp. | oC | 33 | 34 | 33 | 31 | 31 | 33 | 31 | 34 |
| 3 | pH | unit | 8.60 | 8.88 | 9.14 | 8.72 | 9.16 | 8.72 | 8.60 | 9.16 |
| 4 | S.S. | mg/l | 28 | 25 | 23 | 20 | 26 | 24 | 20 | 28 |
| 5 | T.D.S. | mg/l | 12540 | 11870 | 12200 | 12000 | 11990 | 12720 | 11870 | 12720 |
| 6 | COD | mg/l | 804 | 776 | 793 | 824 | 808 | 830 | 776 | 830 |
| 7 | Chlorides | mg/l | 8286 | 8138 | 8254 | 8200 | 8163 | 8324 | 8138 | 8324 |
| 8 | Oil/Grease | mg/l | 2.80 | 3.00 | 3.60 | 3.00 | 3.20 | 2.90 | 2.80 | 3.60 |
| 9 | Sulphates | mg/l | 891 | 830 | 873 | 852 | 847 | 906 | 830 | 906 |
| 10 | NH3-N | mg/l | 8.4 | 9.2 | 9.2 | 7.6 | 8.4 | 7.6 | 7.6 | 9.2 |
| 11 | Phenolic comp. | mg/l | 0.20 | 0.16 | 0.10 | 0.17 | 0.13 | 0.12 | 0.10 | 0.20 |

Monitoring of waste water is carried out by NABL Accredited laboratory M/S Ecosystem Resource Management Pvt. Limited, Surat. (NABL Certificate No. TC- 6603 (in lieu of T02013) dated 26/10/2017 valid until: 25/10/2019)

x Automatic/ online monitoring system (24 x 7 monitoring devices) for flow measurement and relevant pollutants in the treatment system to be installed.
The data to be made available to the respective SPCB and in the Company's website.

We are not covered under 17 category of industries and hence online monitoring system is not applicable to us. However we have provided flow meter at the inlet and out let of ETP also flow meter is provided at the recycled point.



| | | |
|------|--|---|
| | | We will put the water consumption, waste water generation and recycled treated effluent data on our web site. We are regularly submitting the water consumption, waste water generation and recycled treated effluent data on GPCB xgn site on monthly basis. |
| xi | <p>No effluent shall be discharged into river.</p> <p>In the event of failure of any effluent treatment plant adopted by the unit, the organic Chemical plant shall not be restarted until the control measures are rectified to achieve the desired efficiency.</p> | <p>We are not discharging any industrial effluent into River.</p> <p>We have provided adequate capacity of collection tank having capacity of 205 m3. In case of failure of effluent treatment plant we can store the entire effluent into collection tank till the ETP is restart and achieve the desired efficiency. Also there is provision in plant level to store industrial effluent in case of failure of ETP.</p> |
| xii | <p>Process effluent/any wastewater shall not be allowed to mix with storm water.</p> <p>Storm water drain shall be passed through guard pond.</p> | <p>We have provided separate storm water drain line and industrial effluent drain and ensure that; both the streams are not mixed.</p> <p>To collect storm water we have provided guard pond of 20 m3 capacity.</p> |
| xiii | <p>Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc.</p> <p>Flame arresters shall be provided on tank farm.</p> <p>Solvent transfer shall be by pumps.</p> | <p>We have provided isolated storage for hazardous chemicals like solvents.</p> <p>We have already provided flame arrester on tank farm.</p> <p>We are transferring the solvents through pumps and closed pipe line only.</p> |

xiv As proposed, process organic residue and spent carbon should be sent to cement industries. ETP sludge, process inorganic & evaporation salt should be disposed off to the TSDF.

We are disposing our organic residue, spent carbon for incineration at M/S BEIL, Ankleshwar. For which we are having valid membership of BEIL, Ankleshwar.

Now onwards we will sent our organic residue, spent carbon to M/S RSPL, Panoli for co-processing, for which we will obtain membership of M/S RSPL, Panoli for co-processing.

ETP waste, inorganic waste and MEE waste are regularly dispose off into TSDF of Vapi. For which we are having valid membership of TSDF, Vapi.



BHARUCH ENVIRO INFRASTRUCTURE LIMITED

REF: BEIL/ANK/2018 3rd February, 2018

To,
Asha Cellulose (I) Pvt. Ltd.
S. No. 303/2 & 302/P,
Near Water Works,
Abrama, Valsad - 396 001

Sub : Membership Certificate for Common Solid Waste Disposal Facility.

Dear Sir,

We hereby certify that you have become member of the common Solid/Hazardous Waste Disposal Facility developed by Bharuch Enviro Infrastructure Ltd., at GIDC, Ankleshwar and Dahej. You have booked solid waste quantity **500 MT/ Year** (Original Booked Quantity **325 MT** + Increased Quantity **175 MT**). Your Membership No. is **0th/039**.

Thanking you,

Yours faithfully,
For, BHARUCH ENVIRO INFRASTRUCTURE LTD.

[Signature]
AUTHORISED SIGNATORY

CIN No.: U48300GJ1907PLC032688
Works Office : Plot No. 8705-14 GIDC Estate, Post Box No. 82, Ankleshwar 393 002, Dist. : Bharuch (Gujarat)
Phone: (07944) 367139, 238238 • Fax : (07944) 222849 • E-mail : psw@beil.com
Regd. Office : Plot No. 111-118, GIDC Estate, Ankleshwar 393 602, Dist. : Bharuch, (Gujarat)



SMALL SCALE INDUSTRIES ASSOCIATION OF VALSAD DISTRICT

Public Trust Reg. No. F / 347 / Valsad Dt. 15-3-85
Society Act Regn. G4 / 82 / Valsad Dt. 15-3-85
I.P.P: RAJESH DODIA 0262-C028644 P0242794 090232 75276 Fax : 257879 / 248694

44, Satsaba Apt., Opp. Head R O, Titval Road, Valsad - 396001
Phone : (02632) 099903
Fax : 257879 / 248694

| | | | | |
|--|--|--|---|---|
| MAHESH H. SHAH President (C) 220005 (M) 94271 4849 | CHETAN CHAMPANERI Vice-President (C) 227386 (M) 98251 1903 | MUKESH DESAI Hon. Secretary (C) 24038 23300 (M) 94251 5902 | MADHUBHAIJIJI MATHALE Hon. Jt. Secretary (C) 224802 (M) 947962779 | CHANDRAKANT LAD Treasurer (C) 24038 2470 (M) 94242214 |
|--|--|--|---|---|

DUPLICATE (March 22, 2006)

03-05/Pollution-Member:171 April 18, 2005

TO WHOM SO EVER IT MAY CONCERN

M/s Asha Cellulose (I) Pvt. Ltd
Near Water Works,
Abrama,
Valsad

is a registered member of the Association.

The Association is registered under:
Vapi Waste & Effluent Management Co. Ltd - common solid waste project -
Membership No. 362
Gujarat Pollution Control Board - Gandhinagar - Authorisation no. 3516

Subject to rules and regulations of the GPCB/VWEMCL/SSI Assn. Of Valsad District- is hereby permitted to dispose solid waste.

for
S. S. I. ASSOCIATION OF VALSAD DISTRICT.

[Signature]
President

| | | |
|----|--|--|
| xv | <p>The company shall obtain Authorization of for collection storage and disposal hazardous waste under the hazardous wastes (management handing and trans-boundary movement) Rules, 2008 and amended as on date for management of hazardous wastes and prior permission from GPCB shall be obtained for disposal of solid /hazardous waste in the TSDF.</p> <p>Measures shall be taken for firefighting facilities in case of emergency.</p> | <p>We have already obtained CCA of the board under water act 1974, air act 1981 and authorization under hazardous waste rule 2016.</p> <p>We have provided in-house fire fighting facilities within the premises in case of emergency.</p> |
|----|--|--|

DETAILS OF FIRE FIGHTING SYSTEM

DETAILS OF FIRE EXTINGUISHERS

| Type | Capacity | Nos. | Other Emergency Services |
|-----------------------|----------|------|--|
| CO2 | 4.5 Kgs | 23 | Fire Water – 150 KL |
| DCP | 10 Kgs | 4 | No. Of Hydrants- 21 with Hose Boxes |
| DCP | 5 Kgs | 26 | No. Of Monitor- 01 |
| ABC | 10 Kgs | 2 | Hose Reels – 3 Nos. |
| ABC | 6 Kgs | 7 | Sand Buckets Stand – 8 Nos. |
| ABC | 4 Kgs | 16 | Self-Contained Breathing Apparatus- 1 No. |
| ABC | 2 Kgs | 2 | Emergency Siren |
| ABC | 0.5 Kgs | 2 | Emergency Communication system thru intercoms |
| Foam | 9 L | 13 | Provision of 3 Hooter to communicate emergency of hazardous location |
| Portable Foam Trolley | 100 L | 1 | Fire proxy Suit – 1 |

Fire Hydrant System:
 Availability of water: 100 KL
 Electrical Motor: 100 M³/Hr
 Hydrant Points: 22 Nos.
 Hose reels: 3 Nos.
 Fix Water Monitor: 01



Fire Fighting Appliances Near Solvent Tank

Membership of TSDF for hazardous waste disposal shall be obtained.

We have obtained membership of M/S VGEL, Vapi and M/S BEIL, Ankleshwar.

xvi The company shall strictly comply with the rules and guidelines under manufacture storage and import of hazardous chemicals (MSIHC) Rules 1989 as amended time to time.

We are strictly following the rules and regulation of MSIHC rules 1989 as amended time to time. And the same is inspected by factory inspector periodically.

All transportation of Hazardous chemicals shall be as per the motor vehicle Act (MVA), 1989.

We are transporting all hazardous chemicals as per the motor vehicle Act (MVA), 1989.



Green Belt Behind Office



Green Belt Behind Office



Factory Main Road



Open Green Belt



Green Belt Behind ETP

Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.

We have selected plant species as per the CPCB guidelines in consultation with the DFO.

xx

All the commitments made to the public during the

We have complied with all the

| | Public Hearing/ Public Consultation meeting held on 15 th December, 2012 should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional office at Bhopal. | commitment made during the public hearing/public consultation held on 15/12/2012. We have also made separate budget for the implementation. | | | | | | | | | |
|--------|--|--|--------|------------|------------|---|--|--|---|--|---|
| xxi | At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/ details should be prepared and submitted to the Ministry's Regional office at Bhopal, Implementation of such program should be ensured accordingly in a time bound manner. | We have earmarked 5% of the total project cost (i.e. Rs. 75 lakhs) for the Enterprise Social Commitment (ESC) based on local needs. We have done CSR i.e. Rs. 14.19 lakhs in the year of 2015 to 2017 and Rs. 2.57 lakhs in the year of 2017-2018. Balance will be done in 2-3 years period. " | | | | | | | | | |
| xxii | Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment. | We had appointed local contractors for the expansion project and hence there was no need to construct housing and other necessary infrastructure for the labours. Drinking water, toilets and medical health care was utilized from our existing set up. Not applicable Not applicable | | | | | | | | | |
| | B.GENERAL CONDITIONS | | | | | | | | | | |
| i | The project authorities shall strictly adhere to the stipulations made by the state Pollution Control Board (GPCB), State Government and any other statutory authority. | We are strictly following the stipulation made by the GPCB. | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Sr. No</th> <th>CONDITIONS</th> <th>COMPLIANCE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Consent Order No.: AWH-87084, Date of issue: 12/07/2017.</td> <td>We have obtained CCA of the Board vide No. AWH-87084 which is valid up to 31/03/2022.</td> </tr> <tr> <td>2</td> <td>The consents shall be valid up to 31/03/2022 for use of outlet for the discharge of trade effluent & emission due to operation of industrial plant for manufacture of the following</td> <td>We are manufacturing products as per consented quantity only.</td> </tr> </tbody> </table> | | Sr. No | CONDITIONS | COMPLIANCE | 1 | Consent Order No.: AWH-87084, Date of issue: 12/07/2017. | We have obtained CCA of the Board vide No. AWH-87084 which is valid up to 31/03/2022 . | 2 | The consents shall be valid up to 31/03/2022 for use of outlet for the discharge of trade effluent & emission due to operation of industrial plant for manufacture of the following | We are manufacturing products as per consented quantity only. |
| Sr. No | CONDITIONS | COMPLIANCE | | | | | | | | | |
| 1 | Consent Order No.: AWH-87084, Date of issue: 12/07/2017. | We have obtained CCA of the Board vide No. AWH-87084 which is valid up to 31/03/2022 . | | | | | | | | | |
| 2 | The consents shall be valid up to 31/03/2022 for use of outlet for the discharge of trade effluent & emission due to operation of industrial plant for manufacture of the following | We are manufacturing products as per consented quantity only. | | | | | | | | | |

| | | |
|-----|--|---|
| | items/products: | |
| | SUBJECT TO THE FOLLOWING CONDITIONS: | |
| | <ul style="list-style-type: none"> Management of Solid Waste generated from industrial activities shall be as per Solid Waste Management Rules 2016, (Solid waste as defined in Rule -3 (46). | We are generating hazardous waste as per authorization issued by the board and dispose off as per hazardous waste rules 2016 |
| | <ul style="list-style-type: none"> As per provision of Rule-18 of Solid Waste Management Rules-2016 all Industrial units using fuel and located within 100 Km from the refused derived fuel (RDF) plant shall made an arrangement to replace at least five percent of their fuel requirement by refused derived fuel so produced. | Will be implemented |
| | 3 CONDITIONS UNDER THE WATER ACT : | |
| 3.1 | <p>The quantity of total water consumption shall not exceed 155.48 KLD as per below break up. Source of fresh water shall be only from Borewell. Unit shall submit NOC from central ground Authority (CGWA) for use of Borewell water.</p> <p>a) Domestic : 2.2 KLD b) Industrial : 149.48 KLD</p> | <p>We are using water consumption @ 11.48 m³/day.</p> <p>We are using fresh water from our own Bore well. We will apply for permission for central ground Authority (CGWA) for use of Bore well water.</p> |
| 3.2 | <p>The quantity of the trade effluent discharge from the industry shall not exceed 121.5 KLD.</p> <p>Entire effluent shall be treated in ETP, followed by RO and MEE and achieve zero liquid discharge condition.</p> | <p>We are generating maximum 121.5 KLD of industrial waste water.</p> <p>We have provided adequate capacity of primary, secondary and tertiary ETP followed by RO and MEE to achieve zero liquid discharge.</p> |
| 3.3 | <p>The quantity of Sewage effluent from the industry shall not exceed 1.5 KLD.</p> | <p>We are generating maximum 1.5 KLD of domestic effluent.</p> |
| 3.4 | <p>Domestic effluent shall be disposed off through septic tank/soak pit system.</p> | <p>We have provided adequate capacity of septic tank/soak pit for the disposal of domestic effluent.</p> |
| | 4 CONDITIONS UNDER THE AIR ACT: | |
| 4.1 | <p>The following shall be used as fuel in the boilers, Hot Air Generation & D.G. Sets.</p> | <p>We have installed utilities for process heat requirement as per CCA only. Also we are using fuel in utilities as per CCA.</p> |
| 4.2 | <p>The flue gas emission through existing stack shall conform to the following standards:</p> | <p>We are operating our air pollution control system and maintain the norms of flue gas emission as specified by the board.</p> |
| 4.3 | <p>The process emission through various stacks</p> | <p>We are maintaining the norms of</p> |

| | | |
|----------|---|--|
| | / Vent of reactors, process, vessel shall conform to the following standards. | process gas emission. |
| 4.4 | The concentration of the following substances in the ambient air within the premises of the industry and at a distance of 10 meters from the source (other than the stack/ vent with height of more than 9 meters from the ground level) Shall not exceed the following levels: | We are maintaining the ambient air quality within the premises and analyze regularly to ensure the quality within the premises as per norms. |
| 4.5 | The applicant shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted / displayed to facilitate identification. | We have provided adequate stack monitoring facility like portholes, ladder, platform etc at chimney(s) for monitoring. |
| 4.6 | The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB (a) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6 a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m. | Controlling noise level by regular maintenance and close acoustic enclose to DG set. |
| 5 | GENERAL CONDITIONS: | |
| 5.1 | Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board. | Agreed |
| 6 | AUTHORISATION UNDER HAZARDOUS WASTE AND OTHER WASTE (MANAGEMENT AND TRANSBOUNDARY MOVEMENT) RULES-2016, FORM-2 (SEE RULE 6(2)) | |
| 6.1 | Number of authorization: AWH-87084, Date of issue: 12/07/2017. | Agreed |
| 6.2 | Reference of authorization: AWH-122307 and Date: 23/05/2017. | Agreed |
| 6.3 | M/s. ASHA CELLULOSE (I) PVT. LTD is hereby granted an authorization based on the enclosed signed inspection report for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre- | Agreed |

| | | |
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| | processing, co-processing, utilization, treatment, disposal or any other use of hazardous or other waste or both on the premises situated at Plot No. Shed No. 303/2,302/P, Village: Abrama, Abrama-369001, Dist: Valsad. | |
| 6.4 | The authorization shall be valid for a period of 31/03/2022. | Agreed |
| 6.5 | The authorization is subject to the following general and specific conditions: | Agreed |
| A | GENERAL CONDITIONS UNDER HAZARDOUS AND OTHER WASTES (M&TM) RULES-2016. | |
| 1 | The Authorised person shall comply with the provisions of the Environment (Protection) Act-1986 and rules made there under. | Complied with |
| 2 | The Authorization or its renewal shall be produced for inspection at the request of an officer Authorized by the State Pollution Control Board. | We will not rent, land, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through authorization. |
| 3. | The persons authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization. | Complied with |
| 4. | Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the persons authorized shall constitute a breach of this authorization. | Complied with |
| 5. | The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time. | We have already made emergency response plan and implemented the same. We have also carried out mock drill for possible scenarios such as spillages, leakages, fire etc |
| 6. | The person authorize shall comply with the provisions outlined in the Central Pollution Control Board guidelines on “ implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous | We are complying with the guide line of CPCB for implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Wastes and penalty”. |

| | | |
|---|---|---|
| | Wastes and penalty”. | |
| 7. | It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility. | Agreed |
| 8. | The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean- up operation. | Complied with |
| 9. | The record of consumption and fate of the imported hazardous and other wastes shall be maintained. | Complied with |
| 10. | The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization. | Not applicable, as we are not importing any hazardous waste |
| 11. | The importer or exporter shall bear the cost of import or export and mitigation of damages if any. | Agreed |
| 12. | An application for the renewal of an authorization shall be made as laid down under these rules. | Complied with |
| 13. | Any other conditions for compliance as per the guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time. | We are regularly submitting return filed by June 30th for the period ensuring 31 st March of the year. |
| 14. | Annual return shall be filed by June 30th for the period ensuring 31 st March of the year. | Complied with |
| B. SPECIFIC CONDITIONS (WHICHEVER IS APPLICABLE) | | |
| 1. | The authorized actual of hazardous and other waste shall maintain records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorization. | We are maintaining the records for the hazardous and other waste as per authorization |
| 2. | Handling over the hazardous and other wastes to the authorized actual user shall be only after making the entry into the passbook of the actual user. | Complied with |
| 3. | In case of renewal of authorization, a self-certified compliance report in respect of effluent, emission standards and the | Agreed |

| | | | |
|------|---|--|---|
| | | conditions specified in the authorization for hazardous and other wastes shall be submitted to SPCB. | |
| | 4. | The occupier of the facility shall comply standards operating procedure/guidelines published by MoEF&CC or CPCB or GPCB from time to time. | We are complying with standards operating procedure/guidelines published by MoEF&CC or CPCB or GPCB from time to time. |
| | 5. | Unit shall comply provisions of E-Waste (Management) Rules, 2016. | Complied with |
| ii | No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests in case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any. | | We assure you that; we will not carry out any expansion or modification without approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, we will submit the fresh application to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required. |
| iii. | The locations of ambient air quality monitoring stations shall be decided in consultation with the state Pollution Control board (SPCB) and it shall be ensured that at least one stations in installed in the up wind and downwind direction as well as where maximum ground level concentrations are anticipated. | | We have decided the location of the ambient air monitoring station in consultation with the GPCB officers and it is in the up wind and downwind direction as well as where maximum ground level concentrations are anticipated. We are regularly monitored level of PM ₁₀ ,SO ₂ ,NO _x , VOC and CO ,in ambient air through NABL accredited laboratory M/S Ecosystem Resource Management Pvt. Limited, Surat on monthly basis. |
| iv. | The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (protection) Act, 1986 Rules,1989 viz. 75 dBA (day time) and 70 dBA (night time). | | We have taken adequate measures to control noise level within the premises by carrying our regular maintenance to the machineries and provided acoustic enclosure to the D G set. We are regularly monitored level of noise at various places within the premises through NABL accredited laboratory M/S Ecosystem Resource Management Pvt. Limited, Surat on monthly basis. Summary of the noise level monitoring |

are as under;

| No. | Date | Locations & Results (Day Time) | | | | Locations & Results (Night Time) | | | |
|-----|------------------------|--------------------------------|-------------------|----------------|--------------------------|----------------------------------|-------------------|----------------|--------------------------|
| | | Near ETP | Near Boiler House | Near Main Gate | Outside Production Plant | Near ETP | Near Boiler House | Near Main Gate | Outside Production Plant |
| 1 | 16/10/2018 | 67.8 | 69.7 | 64.7 | 65.3 | 66.0 | 67.7 | 62.7 | 63.6 |
| 2 | 20/11/2018 | 67.6 | 70.0 | 64.4 | 65.5 | 65.9 | 68.0 | 62.5 | 63.3 |
| 3 | 11/12/2018 | 68.0 | 69.6 | 65.0 | 65.6 | 66.6 | 68.3 | 63.0 | 64.1 |
| 4 | 16/01/2019 | 68.4 | 70.8 | 64.5 | 66.2 | 67.0 | 68.5 | 62.8 | 63.7 |
| 5 | 05/02/2019 | 68.1 | 70.6 | 64.8 | 66.4 | 66.8 | 67.9 | 62.6 | 64.2 |
| 6 | 12/03/2019 | 68.0 | 70.8 | 65.2 | 65.8 | 66.7 | 68.4 | 63.2 | 63.9 |
| | Min. | 67.6 | 69.6 | 64.4 | 65.3 | 65.9 | 67.7 | 62.6 | 63.3 |
| | Max. | 68.4 | 70.8 | 65.2 | 66.4 | 67.0 | 68.5 | 63.2 | 64.2 |
| | G.P.C.B. Limits | 75.0 dB(A) | | | | 70.0 dB(A) | | | |

Noise level monitoring was carried out by NABL accredited laboratory M/S Ecosystem Resource Management Pvt. Limited, Surat. (NABL Certificate No. TC- 6603 (in lieu of T02013) dated 26/10/2017 valid until: 25/10/2019

V. The Company shall harvest rainwater from the roof-tops of the building and storm water drains to recharge the surface as well as rainwater from the roof-tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.

We have provided rain water harvesting at the top of the office area and made collection tank of 100 m3 capacity for the collection of rain water. The collected rain water is utilized for process to minimize the fresh water consumption. We have also made arrangement to recharge the bore well with storm water.



| | | |
|-------|--|---|
| vi. | During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste water and storm water drains. | We have constructed garland drain nearby by the storage tanks of liquid raw materials to avoid mixing of accidental spillages with domestic waste water and storm water drains. |
| vii | Usage of Personnel Protection Equipments by all employees/workers shall be ensured. | We have provided PPE'S like hand gloves, gum boot, helmet, mask etc to the each worker and ensure that to use it within the factory premises. |
| viii. | Training shall be imparted to all employees on safety and health aspects of chemicals handling. | We have regularly carried out training on safety and health once in a six month through authorized agency. |

SHE TRAINING PROGRAM

| Sr. No. | Name of Training Programs | Training Conducted Date | Trainees Category | Faculty & Duration |
|---------|---|-------------------------|-------------------|---|
| 1 | Training on Fire | 23.01.2017 | Staffs | Faculty: Mr. S. B. Parmar (Internal) Duration: 1 Hr. 10 Min. |
| 2 | Hazard on Static Electricity | 25.01.2017 | Staffs | Faculty: Mr. S. B. Parmar (Internal) Duration: 1 Hr. |
| 3 | Personal Health & Hygiene | 10.02.2017 | Staffs | Faculty: Mr. Nantu Das (Internal) Duration: 1 Hr. |
| 4 | Video Flim on Safety | 06.03.2017 | Staffs | Faculty: Mr. S. B. Parmar (Internal) Duration: 1 Hr. |
| 5 | Video Flim on Safety (Workmen) | 08.03.2017 | Workers | Faculty: Mr. S. B. Parmar (Internal) Duration: 1 Hr. |
| 6 | Pollution Prevention | 05.06.2017 | Staffs | Faculty: Mr. S. B. Parmar (Internal) Duration: 1.5 Hrs. |
| 7 | Electrical Safety | 22.07.2017 | Staffs & Workers | Faculty: Mr. H. S. Prajapati (External) Duration: 4 Hrs. |
| 8 | MSDS | 11.08.2017 | Staffs | Faculty: Mr. S. B. Parmar (Internal) Duration: 1 Hr. |
| 9 | Self-Contained Breathing Apparatus & Use of Fire Extinguisher | 23.08.2017 | Staffs & Workers | Faculty: Mr. S. B. Parmar (Internal) Duration: 1 Hr. |

| | | | | |
|----|-------------------------------|------------|--------|--|
| 10 | Static Electricity | 19.09.2017 | Staffs | Faculty: Mr. S. B. Parmar (Internal) Duration: 1 Hr. |
| 11 | Fire, Fire Cause & Prevention | 22.12.2017 | Staffs | Faculty: Mr. S. B. Parmar (Internal) Duration: 1 Hr. |

ASHA CELLULOSE (D) PVT. LTD.

Effectiveness of Training

Training Topic: Environment Pollution
 Actual Training given Date: 06/06/18
 Post Training Assessment Date: 06/06/18
 Observation from Trainer / Evaluator:

All the participants were evaluated through training assessment questionnaires and their assessment results are as follows:
 "Excellent" Grade -> All 11 employees!
 Emprgs obtained 9-10 out of 10

Hence the assessment results shows that the effectiveness of training is fruitful.

Mr. S. B. Parmar
-> Trainer

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ASHA CELLULOSE (D) PVT. LTD.

Training Assessment Result

Training Topic: Environment Pollution
 Training Date: 06/06/18 Assessment Date: 06/06/18
 Trainer: Mr. S. B. Parmar

| Sr No. | Name of Participants | Score | Remarks |
|--------|----------------------|-------|-----------|
| 1. | Ashish G. Rajgopal | 09 | Excellent |
| 2. | Vijay N. Shah | 10 | Excellent |
| 3. | Dr. A. K. Rana | 10 | Excellent |
| 4. | Jigar D. Patel | 09 | Excellent |
| 5. | Rajesh R. Vanki | 10 | Excellent |
| 6. | Jayant M. Gaudam | 09 | Excellent |
| 7. | Devas G. Ghodiyali | 10 | Excellent |
| 8. | Hemant R. Patel | 10 | Excellent |
| 9. | Nandu Dab | 10 | Excellent |
| 10. | Dr. Gaurav Vaidya | 10 | Excellent |
| 11. | Smit A. Patel | 10 | Excellent |

Rating Scale:
 09-10 : Excellent ; 08-07 : Good
 06 : Very Good ; 00-05 : Retraining

Rev. No. 00 Date Effective: 01/01/2017 PAF/PRO Page No. 1 of 1
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ASHA CELLULOSE (I) PVT. LTD.

TRAINING ATTENDANCE SHEET

Subject: Environment Pollution
 Date & Time: 06/06/18 Duration: 1 hr.
 Faculty/Trainer: S.B. Parmar

| No. | Name of Participant | Dept. | Signature | Remarks |
|-----|---------------------|--------|-------------|---------|
| 1 | S. J. Ghodiyali | Prod. | [Signature] | |
| 2 | Dr. A. K. Rana | PROD. | [Signature] | |
| 3 | Dr. P. R. Vanki | PROD. | [Signature] | |
| 4 | V. N. Shah | SIC | [Signature] | |
| 5 | Hemant R. Patel | Prod. | [Signature] | |
| 6 | Vijay N. Shah | Admin. | [Signature] | |
| 7 | Jayant M. Gaudam | DDM | [Signature] | |
| 8 | Jigar D. Patel | DDM | [Signature] | |
| 9 | Dr. Gaurav Vaidya | R&D | [Signature] | |
| 10 | Smit A. Patel | ETP | [Signature] | |
| 11 | Nandu Dab | HR | [Signature] | |

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આશા સેલ્યુલોઝ (D) પ્રાઇવેટ લિમિટેડ - ૧૦૧૨૬

કોર્સ નો નામ: પર્યાવરણ પ્રદુષણ કોર્સ નો કોડ: 06/06/18
 કોર્સ શરૂ થયેલ તારીખ: 06/06/18 કોર્સ અંતર્યાય તારીખ: 06/06/18
 કોર્સના અધ્યાપક નામ: S.B. Parmar

| ક્રમ | વ્યક્તિ નો નામ/વિભાગ | હાજરી | નોંધ |
|------|--------------------------|-------|------|
| 1 | શ્રી. સ. જી. ગોધિયાલી | હાજરી | |
| 2 | શ્રી. વી. ની. શાહ | હાજરી | |
| 3 | શ્રી. ડી. એ. કે. રાના | હાજરી | |
| 4 | શ્રી. જી. ડી. પટેલ | હાજરી | |
| 5 | શ્રી. રાજેશ. આર. વાંકી | હાજરી | |
| 6 | શ્રી. જયંત. મી. ગાંધામ | હાજરી | |
| 7 | શ્રી. દેવસ. જી. ગોધિયાલી | હાજરી | |
| 8 | શ્રી. હેમંત. આર. પટેલ | હાજરી | |
| 9 | શ્રી. નાંદુ. ડાબ | હાજરી | |
| 10 | શ્રી. ડી. ગૌરવ વાઇડ્યા | હાજરી | |
| 11 | શ્રી. સમિત. આ. પટેલ | હાજરી | |

કોર્સના અધ્યાપકનો સહી: [Signature]
 કોર્સના અધ્યાપકનો નામ: S.B. Parmar

વિભાગ: ૦૫ સી.ઈ.એમ. ૧-૩ મી. ૧-૫ મી. ૧-૧૦ ટી.એમ.

आशा सेल्युलोज (अ) प्राइवेट लिमिटेड - व ल साऽ

प्रतिन आरोग्यक केंद्र

| | | |
|-----------------------|------------------|-----------------|
| प्रतिन नै विभाग | प्रदुषण नियंत्रण | तारीख: 04/06/18 |
| प्रतिन केंद्र नुं नाम | गुणन | अवधि |
| प्रतिन नुं नाम | वेतन | वर्ग |
| प्रतिन नुं नाम | वेतन | वर्ग |

| क्र.सं. | विवरण | आवृत्ति | वर्ग |
|---------|--|---------------|------|
| 1 | प्रत्येक महीने नौ महीने/दोपहर के दौरान नौ प्रदुषण के | प्रति 3 महीने | 1 |
| 2 | प्रति महीने के दो घंटे के दौरान नौ महीने के दौरान | प्रति 3 महीने | 1 |
| 3 | दोपहर के दौरान प्रत्येक महीने | प्रति 3 महीने | 1 |
| 4 | प्रत्येक महीने प्रत्येक महीने के दौरान नौ महीने के दौरान | प्रति 3 महीने | 1 |
| 5 | प्रत्येक महीने प्रत्येक महीने के दौरान नौ महीने के दौरान | प्रति 3 महीने | 1 |
| 6 | प्रत्येक महीने प्रत्येक महीने के दौरान नौ महीने के दौरान | प्रति 3 महीने | 1 |
| 7 | प्रत्येक महीने प्रत्येक महीने के दौरान नौ महीने के दौरान | प्रति 3 महीने | 1 |
| 8 | प्रत्येक महीने प्रत्येक महीने के दौरान नौ महीने के दौरान | प्रति 3 महीने | 1 |
| 9 | प्रत्येक महीने प्रत्येक महीने के दौरान नौ महीने के दौरान | प्रति 3 महीने | 1 |
| 10 | प्रत्येक महीने प्रत्येक महीने के दौरान नौ महीने के दौरान | प्रति 3 महीने | 1 |

प्रतिन नै विभाग

04/06/18

ASHA CELLULOSE (I) PVT. LTD.

List of Employees Identified for Training

| Training Type | | Training Facility | | | |
|---------------|--------------------|-------------------|----------|--------------|--|
| No. | Name of Employee | Design & Dept. | Attended | Not Attended | |
| 1 | Shamant R. Patel | Sup. f. Packing | ✓ | | |
| 2 | Jayant R. Gaudam | Sup. f. Packing | ✓ | | |
| 3 | Narayan Das | Sup. f. H&D | ✓ | | |
| 4 | Vijay N. Shah | Se.Chemist f. H&D | ✓ | | |
| 5 | Dhruv J. Ghodigali | Officer f. H&D | ✓ | | |
| 6 | Shant B. Patel | Sup. f. H&D | ✓ | | |
| 7 | Dr. Gauram Vaidya | H&D f. H&D | ✓ | | |
| 8 | Sujeet R. Naidu | H&D f. H&D | ✓ | | |
| 9 | Arun G. Rajapoti | Sup. f. H&D | ✓ | | |
| 10 | Dr. A. K. Rana | H&D f. H&D | ✓ | | |
| 11 | Jigar D. Patel | Sup. f. H&D | ✓ | | |

Signature & Date: *[Signature]* + 04/06/18

Rev: 00 Date: 04/06/18 Page 1 of 1

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Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.

We are regularly carried out pre-medical of each worker through private medical officer and maintain the records as per factory act rules.

Training to all employees on handling of chemicals shall be imparted.

We have regularly carried out training on handling of hazardous chemicals once in a six month through competent authority.

ix. The company shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted to the Ministry.
All the recommendation made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.

We are complying with all the environmental protection measures and safe guards mentioned in the project report submitted to the Ministry.
We have complied with all the suggestion/observations made in risk assessment report, EIA and EMP.

COMPLIANCE OF RISK ASSESSMENT REPORT

| | |
|--|---------------------------------|
| Asha Cellulose (India) Pvt. Ltd. | |
| Document : IMS Manual | Doc. No. : IMS/05 |
| Title : Hazard Identification And Risk Assessment Register | Page : 1 of 5 |
| Revision No. : 0 | Revision Date : Not Yet Revised |

| Sr. | Department & Process | Identified Hazard | Various Types Of Risks Involved | | | | | | | | Hazard Probability | Risk Severity & Rating | Risk Acceptable Yes / No | Legal Requirement Y / N | Reference OCP | Existing Control - Training / Visual Display / Automation | |
|-----|---|---|---------------------------------|--------|--------------|------|----------------|---------------|-------|-------|--------------------|------------------------|--------------------------|-------------------------|---------------|---|----------|
| | | | Ill Health | Injury | Occ. Disease | Fire | Electric Shock | Toxic Release | Noise | Other | | | | | | | |
| | General Work Practices & Administration | | | | | | | | | | | | | | | | |
| | Use of wooden, corrugated or card board box, b) cleaning chemicals, c) plastic bags or boxes, d) fuel, oil and lubricants for vehicle or machine, e) water, f) cotton rags or cloths, g) paper, files, stationary, ink cartridge, Xerox cartridge and lamination papers | Fire Hazards Injury due improper house keeping | | ⊗ | | ⊗ | | | | | | L | C2/20 | Yes | No | IMS/OCP/26 | Training |

| | | | |
|-------------------|--------------------------|--------------------------|--------------------------|
| Approved by : SBP | Approved by : K Srinivas | Approved by : March 2021 | Approved by : April 2018 |
|-------------------|--------------------------|--------------------------|--------------------------|

| | |
|--|---------------------------------|
| Asha Cellulose (India) Pvt. Ltd. | |
| Document : IMS Manual | Doc. No. : IMS/05 |
| Title : Hazard Identification And Risk Assessment Register | Page : 2 of 5 |
| Revision No. : 0 | Revision Date : Not Yet Revised |

| Sr. | Department & Process | Identified Hazard | Various Types Of Risks Involved | | | | | | | | Hazard Probability | Risk Severity & Rating | Risk Acceptable Yes / No | Legal Requirement Y / N | Reference OCP | Existing Control - Training / Visual Display / Automation | |
|-----|---|--|---------------------------------|--------|--------------|------|----------------|---------------|-------|-------|--------------------|------------------------|--------------------------|-------------------------|---------------|---|-------------------------|
| | | | Ill Health | Injury | Occ. Disease | Fire | Electric Shock | Toxic Release | Noise | Other | | | | | | | |
| 2 | Entering of transport vehicle in the premises | Fire possibility due to hot air from exhaust | | | | ⊗ | | | | | | UL | B2/10 | Yes | No | IMS/OCP/26 | Training |
| 3 | Parking of the vehicle inside the premises | Collision with other vehicle | | ⊗ | | | | | | ⊗ | | L | C2/20 | Yes | No | IMS/OCP/26 | Administrative control |
| 4 | Climbing and coming down from the stair case | Injury due to falling | | ⊗ | | | | | | | | L | C2/20 | Yes | No | IMS/OCP/26 | Training |
| 5 | Wear Safety helmet while on two wheeler and safety belt while driving car | Road Accident | | ⊗ | | | | | | ⊗ | | L | C2/20 | No | Yes | IMS/OCP/26 | Training |
| 6 | Long working on computers / PC | Strain / Stress | | | ⊗ | | | | | | | L | C2/20 | Yes | No | IMS/OCP/26 | Adjustable work station |
| 7 | Use of mobile phone inside production/ control panel/ solvent/ ethyl acetate storage area | Fire Hazard | | | | ⊗ | | | | | | UL | B2/10 | Yes | No | IMS/OCP/26 | Training and Checklist |

| | | | |
|-------------------|--------------------------|--------------------------|--------------------------|
| Approved by : SBP | Approved by : K Srinivas | Approved by : March 2021 | Approved by : April 2018 |
|-------------------|--------------------------|--------------------------|--------------------------|

| | | | |
|--|--|---------------------------------|--|
| Asha Cellulose (India) Pvt. Ltd. | | | |
| Document : IMS Manual | | Doc. No. : IMS/05 | |
| Title : Hazard Identification And Risk Assessment Register | | Page : 3 of 5 | |
| Revision No. : 0 | | Revision Date : Not Yet Revised | |

| Sr. | Department & Process | Identified Hazard | Various Types Of Risks Involved | | | | | | | | Hazard Probability | Risk Severity & Rating | Risk Acceptable Yes / No | Legal Requirement Y / N | Reference OCP | Existing Control - Training / Visual Display / Automation |
|-----|---|--------------------------|-------------------------------------|-------------------------------------|--------------|-------------------------------------|----------------|---------------|-------|-------|--------------------|------------------------|--------------------------|-------------------------|---------------|---|
| | | | Ill Health | Injury | Occ. Disease | Fire | Electric Shock | Toxic Release | Noise | Other | | | | | | |
| 8 | Chewing of tobacco, Gutka and other pan masala inside the premises | Health deterioration | <input checked="" type="checkbox"/> | | | | | | | | L | C2/20 | Yes | N | IMS/OCP/26 | Training |
| 9 | Emergency exists are blocked | Injury Spreading of Fire | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | | | | L | C2/20 | Yes | N | IMS/OCP/26 | Instructions |
| 10 | Inadequate illumination at work area | Stress on eye and Injury | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | L | C2/20 | Yes | Y | IMS/OCP/26 | Adequate lightings at work area |
| 11 | Electrical FLP fittings sockets are not covered | Spark | | | | <input checked="" type="checkbox"/> | | | | | UL | B1/5 | Yes | N | IMS/OCP/26 | Physical Inspection |
| 12 | Scheduled drug kept in First Aid box and consumed by person without knowledge of Medical Practitioner | Adverse health effect | <input checked="" type="checkbox"/> | | | | | | | | L | C2/20 | Yes | N | IMS/OCP/26 | First Aid box checking |

| | | | |
|-------------------|--------------------------|--------------------------|--------------------------|
| Approved by : SBP | Approved by : K Srinivas | Approved by : March 2021 | Approved by : April 2018 |
|-------------------|--------------------------|--------------------------|--------------------------|

| | | | |
|--|--|---------------------------------|--|
| Asha Cellulose (India) Pvt. Ltd. | | | |
| Document : IMS Manual | | Doc. No. : IMS/05 | |
| Title : Hazard Identification And Risk Assessment Register | | Page : 4 of 5 | |
| Revision No. : 0 | | Revision Date : Not Yet Revised | |

| Sr. | Department & Process | Identified Hazard | Various Types Of Risks Involved | | | | | | | | Hazard Probability | Risk Severity & Rating | Risk Acceptable Yes / No | Legal Requirement Y / N | Reference OCP | Existing Control - Training / Visual Display / Automation |
|-----|---|--|-------------------------------------|-------------------------------------|--------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------|--------------------|------------------------|--------------------------|-------------------------|---------------|---|
| | | | Ill Health | Injury | Occ. Disease | Fire | Electric Shock | Toxic Release | Noise | Other | | | | | | |
| 13 | Moving part of the machinery not guarded | Injury | | <input checked="" type="checkbox"/> | | | | | | | L | C2/20 | N | N | IMS/OCP/26 | Training to mechanics |
| 14 | Security arrangement to keep watch on unauthorized entry and infiltration | Undesired event in the premises | | | | | | | <input checked="" type="checkbox"/> | | L | C1/10 | Y | N | IMS/OCP/26 | Round o'clock security |
| 15 | Reporting Near Miss and Accidents | Event severity increase if not reported | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | L | C2/20 | N | Y | IMS/OCP/26 | Reporting procedure in place |
| 16 | Inspection of Fire Hydrant system | Injury | | <input checked="" type="checkbox"/> | | | | | | | L | C2/20 | N | Y | IMS/OCP/26 | Regular inspection |
| 17 | Inspection of Fire Extinguishers | Injury / suffocation | <input checked="" type="checkbox"/> | | | | | | | | L | C2/20 | N | N | IMS/OCP/26 | Regular inspection |
| 18 | Use of Personal Protective Equipment | Injury , Exposure to chemicals, Exposure to high Noise | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | <input checked="" type="checkbox"/> | | L | C2/20 | N | N | IMS/OCP/26 | Training |

| | | | |
|-------------------|--------------------------|--------------------------|--------------------------|
| Approved by : SBP | Approved by : K Srinivas | Approved by : March 2021 | Approved by : April 2018 |
|-------------------|--------------------------|--------------------------|--------------------------|

ASHA CELLULOSE (INDIA) PVT LTD

ASHA HOUSE, PLOT NO.808/C
DR.B.A.ROAD, DADAR T.T.
MUMBAI - 40014
TEL : (022) 40641400, FAX : (022) 4137190
WORKS : NEAR WATER WORKS, ABRAMA,
DIST. : VALSAD - 396001, TEL : (02632) 57919

DONATION A/C

01-04-2017 To 30-06-2017

| Date | Vouc. No. | Name | BILL NO | Debit | Credit | Balance |
|------------|----------------|--|---------------------|------------------|--------|--------------------|
| | | | DONATION A/C | | | |
| 05-05-2017 | Pmt:17-18/0215 | BANK OF BARODA VALSAD SHREE VALSAD TALUKA PATEL SAMAJ PRAGATI MANDAL | | 11,000.00 | | 11,000.00Dr |
| 16-05-2017 | Pmt:17-18/0296 | PROGRESSIVE FOUNDATION OF HUMAN RIGHTS | | 35,000.00 | | 46,000.00Dr |
| | | Total (Rupees) | | 46,000.00 | | 46,000.00Dr |

ASHA CELLULOSE (INDIA) PVT LTD

WORKS : NEAR WATER WORKS, ABRAMA,
DIST. : VALSAD - 396001, TEL : (02632) 57919 9687610411 / 9687617011
GST NO. 24AACCA3502G1ZD

REGD. OFFICE : ASHA HOUSE, PLOT NO.808/C
DR. B. A. ROAD, DADAR T.T.
MUMBAI - 40014
TEL : (022) 40641400, FAX : (022) 4137190

DONATION A/C

01-07-2017 To 31-03-2018

| Vouc. No. | Date | Name | BILL NO. | Bill No | Debit | Credit | Balance |
|--------------------|------------|--|---------------------|---------|--------------------|--------------------|---------------|
| | | | DONATION A/C | | | | |
| | | Opening Balance | | | 46,000.00 | | 46,000.00Dr |
| Cpm:GST/17-18/0156 | 19-08-2017 | CASH - VALSAD BEING AMOUNT PAID TO SARVAJANIK GANESH UTSHAV ABRAMA | Cpm:GST/17-18/0156 | | 3,000.00 | | 49,000.00Dr |
| Pmt:GST/17-18/0266 | 23-08-2017 | BANK OF BARODA, MATUNGA - MUMBAI BERGER PAINTS EMPLOYEES PUJA COMMITTEE | Pmt:GST/17-18/0266 | | 4,000.00 | | 53,000.00Dr |
| Cpm:GST/17-18/0605 | 16-12-2017 | CASH - MUMBAI AMOUNT PAID FOR EXPS AS PER MEMO ATTACHED | Cpm:GST/17-18/0805 | | 1,000.00 | | 54,000.00Dr |
| Pmt:GST/17-18/1269 | 19-12-2017 | BANK OF BARODA, MATUNGA - MUMBAI SAMAST PATIDAR AAROGYA TRUST | Pmt:GST/17-18/1269 | | 2,00,000.00 | | 2,54,000.00Dr |
| Pmt:GST/17-18/1962 | 14-03-2018 | BANK OF BARODA VALSAD PRAKASH K. MODI | Pmt:GST/17-18/1962 | | 3,000.00 | | 2,57,000.00Dr |
| Jm:GST/17-18/0129 | 31-03-2018 | Total (Rupees) | Jm:GST/17-18/0129 | | 2,57,000.00 | 2,57,000.00 | |

ASHA CELLULOSE (INDIA) PVT LTD

WORKS : NEAR WATER WORKS, ABRAMA,
DIST. : VALSAD - 396001, TEL : (02632) 57919 9687610411 / 9687617011
GST NO. 24AACCA3502G1ZD

REGD. OFFICE : ASHA HOUSE, PLOT NO.808/C
DR. B. A. ROAD, DADAR T.T.
MUMBAI - 40014
TEL : (022) 40641400, FAX : (022) 4137190

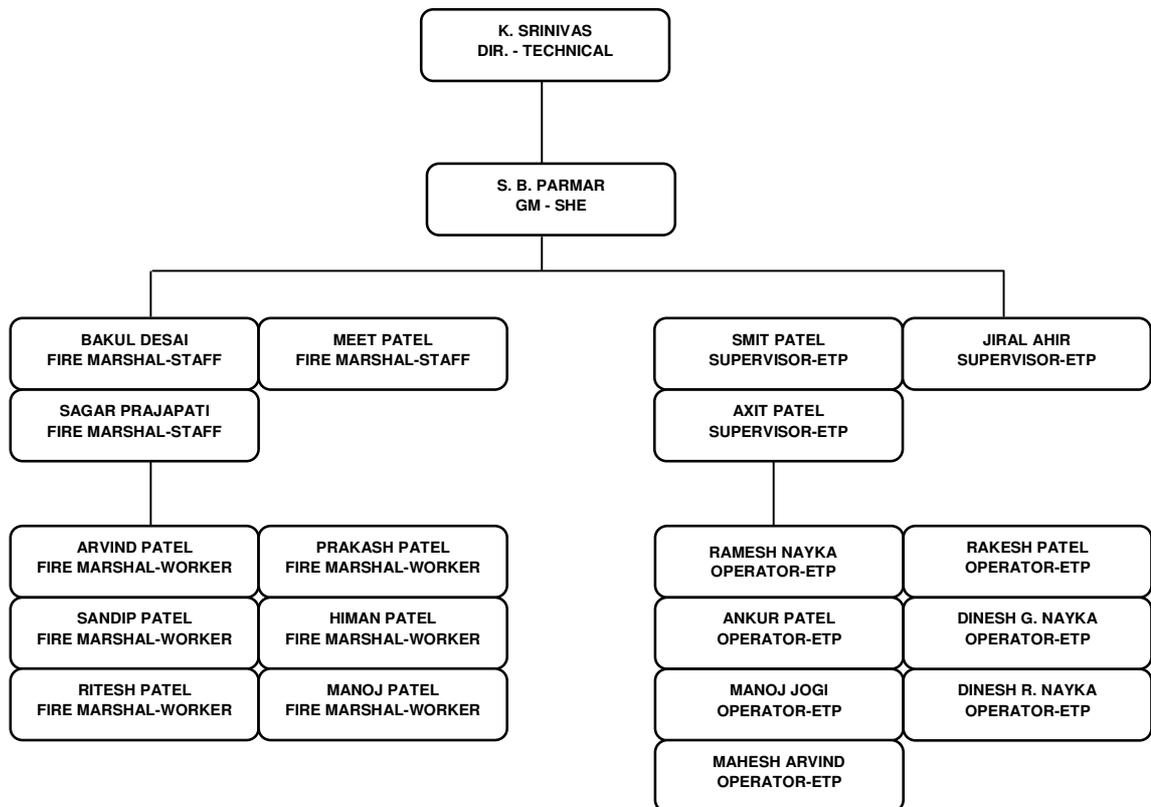
DONATION A/C

01-10-2018 To 31-03-2019

| Vouc. No. | Date | Name | BILL NO. | Bill No | Debit | Credit | Balance |
|------------------|------------|--|---------------------|---------|--------------------|--------|----------------------|
| | | | DONATION A/C | | | | |
| | | Opening Balance | | | 31,000.00 | | 31,000.00Dr |
| Cpm:2018-19/1072 | 26-11-2018 | CASH - MUMBAI | Cpm:2018-19/1072 | | 300.00 | | 31,300.00Dr |
| Pmt:2018-19/2181 | 02-01-2019 | BANK OF BARODA VALSAD KALAVATAN | Pmt:2018-19/2181 | | 25,000.00 | | 56,300.00Dr |
| Pmt:2018-19/2523 | 06-02-2019 | BANK OF BARODA, MATUNGA - MUMBAI SHREE PRABHAV HEM KAMDHENU GIRIVIHAR TRUST | Pmt:2018-19/2523 | | 5,00,000.00 | | 5,56,300.00Dr |
| Pmt:2018-19/2763 | 11-03-2019 | BANK OF BARODA VALSAD SHREE VALSAD TALUKA PATEL SAMAJ PRAGATI MANDAL | Pmt:2018-19/2763 | | 11,000.00 | | 5,67,300.00Dr |
| | | Total (Rupees) | | | 5,67,300.00 | | 5,67,300.00Dr |

| | | |
|------|---|--|
| xi | The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. | We have done CSR activities and all relevant measures for improving socio economic conditions of the surrounding area. |
| xii. | A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring Functions. | We have developed environmental management system within the premises and full-fledge laboratory for the analysis of waste water sample like pH, COD, BOD, TDS, NH3-N etc. Ambient Air monitoring, process gas, flue gas , fugitive and VOC monitoring we have contracted with NABL approved laboratory on monthly basis. We have permanently appointed two chemical engineer and four chemists for the operation of environmental management system and testing of various parameters of the waste water. |

ORGANISATION CHART - EHS



| | | |
|--------------------------------|---|---|
| xiii | <p>The company shall earmark sufficient funds toward capital cost/annum to implement the conditions stipulated by the Ministry Of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein.</p> <p>The funds so provided shall not be diverted for and other purpose.</p> | <p>We have secured funds (i.e Rs. 210 lakhs) for the recurring and none recurring to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government along with the implementation schedule for all the conditions.</p> <p>We ensure that the said fund is already utilized for the development of environmental management system as mentioned in the data sheet.</p> <p>The funds provided for EMS is not diverted for any other purposes.</p> |
| xiv | <p>A Copy of the Clearance letter shall be sent by the project proponent to Concerned Panchayat, Zila Parisad/Municipal Corporation Urban local Body and the local NGO, if any from Whom suggestions / Representations if any were received while processing the proposal.</p> | <p>We have already sent clearance letter to Concerned Panchayat, Zila Parisad/Municipal Corporation Urban local Body and the local NGO. The documentary proof was lost during flood in the month of August 2015.</p> |
| xv | <p>The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including result of monitored data (both in hard copies as well by e-mail) to the respective Regional office of MoEF, the respective Zonal Office of CPCB and the Gujarat Pollution Control Board.</p> <p>A copy of Environmental Clearance and six Monthly Compliance status report shall be posted on the website of the company.</p> | <p>We are submitting herewith our 2nd six monthly EC compliance report and we assure you that now onwards we will submit regularly six monthly compliance report to the Regional office of MoEF, Bhopal.</p> <p>We will upload six monthly compliance reports on our web site.</p> |
| xvi | <p>The environmental statement for each financial year ending 31th March in form –V as is mandated shall be submitted to the concerned state pollution control Board as prescribed under the environment (protection) Rules 1986 as amended subsequently shall also be put on the website of the company along company along with status of compliance environmental clearance conditions and shall also be sent to the respective Regional Office of MoEF by e-mail.</p> | <p>We have regularly submitted form V Environmental statement to GPCB web site.</p> |
| Environmental statement | | |



**ENVIRONMENTAL STATEMENT
 FORM - V
 (SEE RULE 14)**

From: **Ms. Asha Cellulose (I) Pvt.Ltd.**
 Survey No. 303/3, & 302/P, Near water Works, Villager Abrama
 Dist.: Valsad

To: **Gujarat Pollution Control Board,**
 Sector - 10 A,
 Gandhinagar - 382 043.

ENVIRONMENTAL STATEMENT for the financial year ending on the 31st. March, 2019

PART - A

| | |
|---|--|
| (i) Name & Address of the owner/occupier of the industry or process | Name: Mr. K. Srivastava Address: Asha Cellulose (I) Pvt.Ltd., Survey No. 303/3, & 302/P, Near water Works, Village Abrama Dist. Valsad (Gujarat). |
| (ii) Industry category: Primary - (SIC Code) Secondary - (SIC Code) | MSME |
| (iii) Production Capacity - Units MT/Month | Ethyl Cellulose (Aqua Process) - 20 MT Ethyl Cellulose (Solvent Process) - 31.72 MT Ethyl Cellulose Aqueous Dispersion-Non Plasticized 20.124 Ethyl Cellulose Aqueous Dispersion- Plasticized 24.7 MT |
| (iv) Year of establishment | 1999 |
| (v) Date of the last environmental statement submitted: | 08-05-2017 |

* subsection of environmental statement is in accordance with the provisions of sub-14 of the Environment (Protection) Amendment Rules, 1991 of the Environment (Protection) Act, 1986 (29 of 1986) published wide notification dated 22.4.1993 G.S.R.386(L) in the Gazette of India -Extraordinary-Part-II section-3 subsection (i) no 155 dated 28.4.1993 dated 28-4-1993 by the Ministry of Environment and Forests, Government of India, read with the Notification dated 13-2-1999 F.S.R. 329(E) of the Gazette of India - Extraordinary Part-II Section-3 (i) No. 120 dated 13-2-1999.

"Every person carrying on an industry, operation or process requiring Consent under Section-25 of the Water (Prevention & Control of pollution) Act, 1974 (and 1974) or under Section-21 of the Air Prevention & Control of pollution Act, 1981 (41 of 1981) or both or authorization under the Hazardous Waste (Management & Handling) Rule, 1989 Published under the Environment (Protection) Act, 1986 (29 of 1986) shall submit an Environmental Statement for the financial year ending the 31st March in Form -V to the concerned State Pollution Control Board on or before the thirtieth day of September every year, beginning 1993."

PART - B

Water and Raw Material Consumption

(I) **Water Consumption M³/Day - 24**

Domestic : 1.0 M³/Day
 Industrial Process : 18.0 M³/Day
 Boiler & Cooling : 5.0 M³/Day

| Name of product | Process water consumption per unit of product output | |
|--|--|--|
| | During the previous financial year. KLT (1) | During the current financial year. KLT (2) |
| Ethyl Cellulose and Ethyl Cellulose Aqueous Dispersion - Non-Plasticized | 24.7 | 24.62 |

(II) **Raw Material Consumption:**

| Name of Raw Materials | Name of product | Consumption of raw material per unit of output Kgs/Kgs | |
|-----------------------|-----------------|--|---|
| | | During the previous financial year 2017-2018 | During the current financial year 2018-2019 |
| Wood Pulp | Ethyl Cellulose | 0.84 | 0.83 |
| Sodium Hydroxide | | 3.31 | 3.12 |
| Ethyl Chloride | | 3.25 | 3.10 |

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



PART - C

**Pollutants Discharged to environment / unit of output.
 (Parameter as specified in the consent issued)**

| Pollutants | Qty. Of pollutants discharged (Mass / Day) | Concentration of Pollutants in discharges (Mass / Volume) | Percentage of various from prescribed standards with reason |
|------------|---|---|---|
| (a) Water | COD: 1.56 Kgs/day BOD: 0.456 Kgs/day SS: 0.77 Kgs/day | COD: 65 mg/l BOD: 19 mg/l SS: 22 mg/l | Within GPCB Norms |
| (b) Air | PM: 0.9225 Kgs/day SO ₂ : 0.7944 Kgs/day NO _x : 0.281 Kgs/day | PM: 16.00 mg/Nm ³ SO ₂ : 17.789 mg/Nm ³ NO _x : 17.9892 mg/Nm ³ | Within GPCB Norms |

PART - D

As specified under Hazardous Wastes / Management and Handling Rules, 2016

| Hazardous Waste | Total Quantity | |
|--|--|---|
| | During the previous financial year 2017-2018 | During the current financial year 2018-2019 |
| (a) From Process - MEI - Salt (MT) | 222.445 | 442.565 |
| (b) ETP Sludge (MT) | 20.56 | 22.415 |
| (c) Used Oil (Sold to registered recycler) - L | 0.124 | Nil |
| (c) Discarded Containers (MT) (Sold to Authorized recyclers) | 3.511 | 4.866 |
| (d) Dust from Air Filter recycled in process (Kgs) | 52 | 45 |
| (e) Recovered Solvent recycled in the process (MT) Salt (MT) | 108.542 | 176.653 |
| | 93.848 | 34.125 |

PART - E

SOLID WASTE

| | Total Quantity | |
|---|------------------------------------|-----------------------------------|
| | During the previous financial year | During the current financial year |
| (a) From process | - | - |
| (b) From pollution control facility | - | - |
| (d) Quantity recycle or re-utilized within the unit | - | - |

PART - F

Please specify the characterization (in terms of composition and quantity) of hazardous as well as solid and indicate disposal practice adopted for both these categories of wastes.

| Physical form with Description | Qty. | Chemical Form | Disposal Method |
|--------------------------------|------|---|-----------------------------|
| ETP Sludge - Solids | 34.3 | Bio Mass and salt | Disposed to TSDF |
| MEI Waste | - | Neutralization Salt | Disposed to TSDF |
| Used Oil - Liquid | 5.1 | Oil | Sold to Authorized recycler |
| Discarded Container | 35.3 | Polyliner, HDPE, Plastic | Sold to Authorized recycler |
| Recovered Solvent - Liquid | 20.2 | Ethyl Chloride, Toluene, Ether, Ethanol etc | Sold to approved recycler |
| Process waste - Salt - Solids | 25.1 | Neutralization Salt | Disposed to TSDF |

PART - G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production
 Water, Industrial Effluent is treated in ETP having primary Treatment, Secondary treatment and Tertiary Treatment. The treated wastewater from ETP finally made reusable in RO Unit. RO Reject fed to MEI for separation of solids. RO reject water is treated in the plant. MEI condensate water utilized in cooling tower and solids separated from MEI, as a salt, disposed to TSDF.
 Air: (a) Adequate height of chimney provided to steam boiler (b) Steam fan used as fuel in Boiler and Hot Air generator (c) Dust collector installed at Dyeer
 Solid: Hazardous waste stored in covered storage area & disposed to TSDF

PART - H

Additional measures / investment proposals for environmental protection including abatement of prevention of pollution.

Nil.

PART - I

Any other particulars for improving the quality of the environment:

Nil.

Date: 05.06.2019

(Signature of a person carrying out an industry, Operation or Process)
 Name: K. Srivastava
 Designation: Director /
 Address: M/S Asha Cellulose (I) Pvt. Ltd.,
 Near Water Works, Abrama-Valsad

| | | |
|--------------|--|---|
| <p>xvii</p> | <p>The project proponent shall inform the public that the Project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/ committee and may also be seen at website of the Ministry at http://envfor.nic.in.</p> <p>This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the Ministry.</p> | <p>We have already informed to the public by local news paper that we have accorded environmental clearance by the Ministry and copies of clearance letter are available with the state Pollutions Control Board and may also be seen at website of the Ministry of Environmental and Forests at website of the Ministry of Environmental and Forests at http://envfor.nic.in.</p> <p>We have already given advertisement in local news paper on 02/07/2015 regarding obtaining EC clearance issued by MoEF, New Delhi. Copy of the advertisement is lost during flood in August 2015. During flood our so many files and documents were lost.</p> |
| <p>xviii</p> | <p>The project authorities shall inform the Regional office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.</p> | <p>We have completed and commissioned our expansion project in the month of November 2015.</p> |