

**Project details**

- Synthetic Organic Chemicals 5(f)
- For Amendment - Environmental Clearance [EC]
- Earlier EC letter no: SEIAA/GUJ/EC/5(f)/234/2017, Dated: 24/04/2017

**1. Basic Information of the Project:**

<b>i</b>	<b>Name &amp; Address of the Project site</b> (Complete details with plot no./Survey no., Landmark etc. )	M/s. Borax Morarji Limited Plot No. CH-5/1, GIDC Industrial Estate, Dahej, Tal: Vagra, Dist: Bharuch-392130 (GUJ.)
<b>ii</b>	Name of the Applicant	Mr. Prashant Soni
<b>iii</b>	<b>Address</b> for correspondence	M/s. Borax Morarji Limited Plot No. CH-5/1, Dahej Industrial Estate - I, Tal: Vagra, Dist: Bharuch, Gujarat.
<b>iv</b>	<b>Contact no.</b> and e-mail ID of the Applicant	Mo. no. : +919909042123 e-Mail: psoni@dmcc.com
<b>v</b>	<b>Aerial distance</b> of nearest Habitat (KM)	Dahej – 5 Km
<b>vi</b>	Longitude & Latitude of the Project Site: (4 corners of the site)	
<b>vii</b>	<b>Category</b> as per the Schedule to the EIA Notification 2006 i.e. 1(d), 2(b), 5(f) etc.	Synthetic Organic -5(f) <b>Sub-Category:</b> Specialty Chemicals
<b>viii</b>	<b>Applicability of General Conditions of EIA Notification 2006:</b> i.e. Ensure that (1) Protected areas notified under the Wildlife (Protection) Act, 1972; (2) CEPI areas (3) Eco-sensitive areas and (4) Inter-state boundaries and international boundaries; are not located within 5 km or 10 km (as the case may be) area from the boundary of the proposed site.	Not Applicable

**2. Online applicationreg.:**

a) Online application <b>proposal no. :</b>	SIA/GJ/IND2/29725/2013
b) Date online acceptance of EC Amendment application by SEAC:	--
c) Date of presentation for EC Amendment:	--
d) EC issued by SEIAA: Letter no & date.	SEIAA/GUJ/EC/1(d)&5(f)/155/2013 Dated: 15/07/2013

**3. Product profile:**

Sr. No.	Name of the Products	CAS no. /CI no.	Quantity MT/Month	End-use of products
1	Sulphuric Acid	7664-93-9	11000	Industrial Use
2	Oleum 23% and 65%	8014-95-7		Industrial Use
3	Liquid Sulphur Trioxide	7446-11-9		Industrial Use
4	Chloro Sulphonic Acid	7790-94-5	4500	Industrial Use
5	Boron Products	7440-42-8	2000	Industrial Use
6	Sulphonated Products	--	90	Industrial Use
7	Benzene Sulfonyl Chloride	98-09-9	600	Industrial Use
8	Power	--	0.75 MW	Captive Consumption
<b>Total</b>			<b>18190.0</b>	

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006.

**4. Product wise Raw material consumption:**

Sr. no.	Name of the Products	Name of the Raw Materials	CAS no. / CI no. of raw materials.	Quantity MT/Month		
				Existing	Proposed	Total
1	<b>Sulphuric Acid</b>	Sulphur	7704-34-9	3630	00	3630
		Oxygen	7782-44-7	5390	00	5390
2	<b>Oleum</b>	Sulphuric Acid	7664-93-9	1590	00	1590
		SO3	7446-11-9	3690	00	3690
3	<b>Liq. Sulfur Trioxide</b>	SO3 gas	7446-11-9	3690	00	3690
4	<b>Chloro Sulphonic Acid</b>	Sulphuric Acid	7664-93-9	14850	00	14850
		30% HCL	7647-01-0/ 7732-18-5	4500	00	4500
		SO3	7446-11-9	3150	00	3150
5	<b>Boron Products</b>					
i	Boric Acid Powder/ Granules	Colemanite /Ulexite	12291-65-5 /1319-33-1	450	00	450
		Sulphuric Acid	7664-93-9	150	00	150
ii	Boric Acid-CP Grade Powder/Granules	Boric Acid	10043-35-3	345	00	345
iii	Boric Acid-IP Grade Powder	Boric Acid	10043-35-3	110	00	110
iv	Boric Acid-AR Grade Granules	Boric Acid	10043-35-3	55	00	55

v	Boric Acid –SQ Granules	Boric Acid	10043-35-3	110	00	110
vi	Zink Borate Powder	Zinc Oxide	1314-13-2	50	00	50
		Boric Acid	10043-35-3	80	00	80
vii	DOT (Disodium Octaborate Tetrahydrate) Powder	Boric Acid	10043-35-3	218	00	218
		Penta	10043-35-3	225	00	225
viii	Injecta-II Powder (Oxalic Borate)	Boric Acid	10043-35-3	16	00	16
		Oxalic Acid	10043-35-3	4	00	4
ix	Borax Decahydrate Powder Granules	Pentahydrate	12179-04	320	00	320
x	Borax Deca Crystals	Pentahydrate	12179-04	160	00	160
6	<b>Sulphonated Products</b>					
i	Benzene sulfonic Acid	Benzenesulfonyl chloride	98-09-9	6	00	6
ii	4,4' DIHYDROXY DIPHENYLSULFONE	Sulphuric Acid	7664-93-9	20	00	20
		Phenol	108-95-2	38	00	38
		Mesitylene	108-67-8	1	00	1
		MEG	107-21-1	2	00	2
iii	Diphenyl Sulfone	DiphenylSulfone	98-09-9	91	00	91
		BSCL	98-09-9	8	00	8
		Benzene	71-43-2	4	00	4
iv	LASAMIDE	2,4- DCBA	50-84-0	5	00	5
		Chlorosulfonic acid	7790-94-5	22	00	22
		PCl <sub>3</sub>	7719-12-2	2	00	2
		20% Ammonia Solution	1336-21-6	20	00	20
		30% HCL	7647-01-0/ 7732-18-5	24	00	24
V	Para Chloro Thiophenol	Para chlorobenzene sulfonyl chloride	98-60-2	3	00	3
		Red Phosphorous	7723-14-0	0.5	00	0.5
Vi	Thiophenol	Benzene sulfonyl chloride	98-09-9	16	00	16
		Red Phosphorous	7723-14-0	3.2	00	3.2
7	<b>BenzeneSulfonyl Chloride</b>	Benzene	71-43-2	264	00	264
		Chloro Sulphonic Acid	7790-94-5	792	00	792

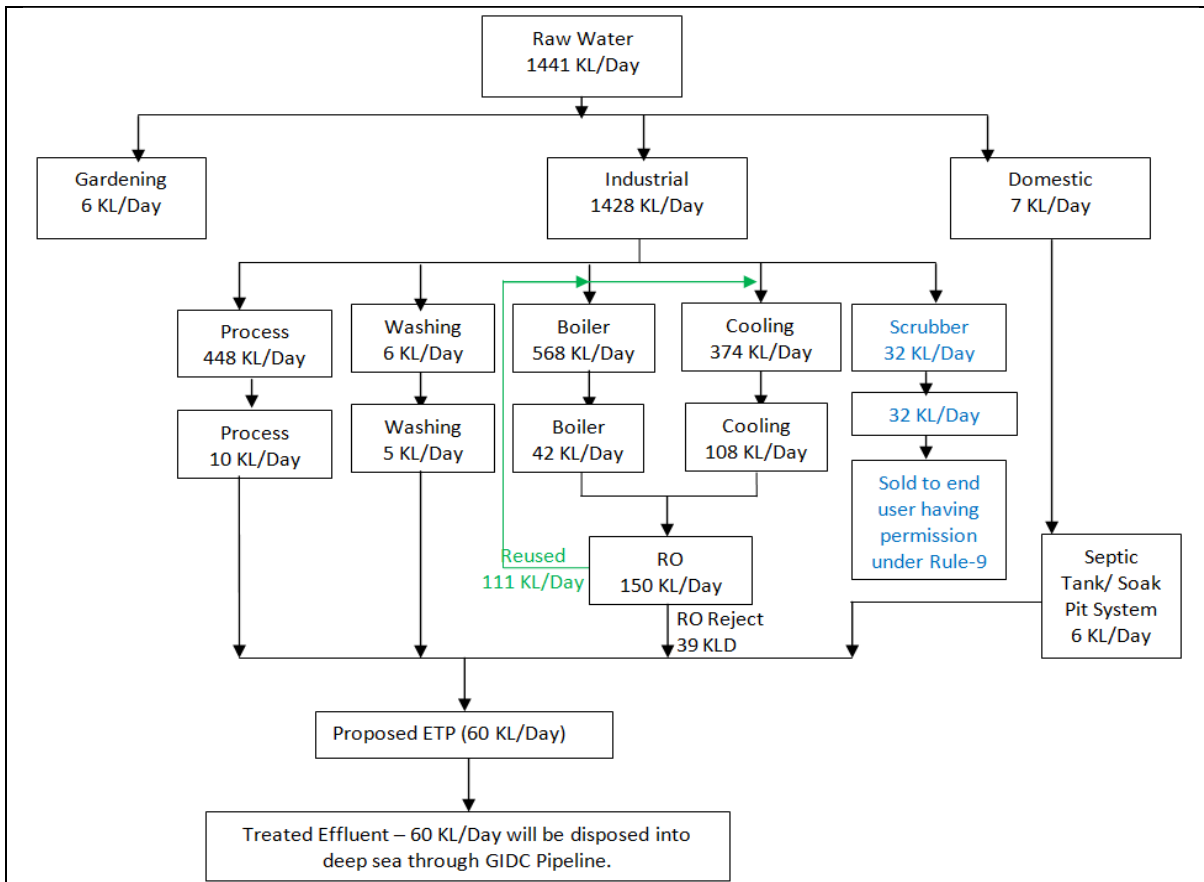
**5. Compliance status of the existing project:**

Sr. no.	Particulars	Brief Information/Details	Remarks
1	<ul style="list-style-type: none"> <li>Earlier EC details</li> <li>In case of EC not obtained, Copy of CTE &amp; CCA obtained before 14.09.2006,</li> </ul>	EC Letter No. SEIAA/GUJ/EC/1(d)&5(f)/155/2013 Dated: 15/07/2013.	--
2	Compliance of EC conditions	Company complies with all the EC conditions.	--
3	Status of inspection by RO-MoEF&CC, Bhopal.i.e. CCR-Certified Compliance Report	EC is not converted into Consent to Operate.	--
4	Status of submission of half yearly returns to concern authorities.	Unit submits half yearly returns to concern authorities regularly.	--
5	Compliance of existing CC&A	Unit complies with all the CC&A conditions.	--
6	Legal actions/Closure directions/SCN etc. issued by GPCB.	1 show-cause notice received	--
7	Any Public Complaints	There are no any public complaints.	--
8	Is there any litigation pending before any court of Law against the Project?	There is no any litigation pending before any court of Law against the Project	--

**6. Salient features of the project including Water, Air and Hazardous waste management:**

Sr. no.	Particulars	Details															
<b>A</b>	Total <b>cost of Proposed</b> Project (Rs. in Crores):	Existing: 24 Crores Proposed: 60 Crores															
<b>B</b>	<b>Total Plot area</b> ( sq. meter)	103327.44 Sq. m.															
	<b>Green belt area</b> ( sq. meter)	34100 Sq. m.															
<b>C</b>	<b>Employment generation</b>	110															
<b>D</b>	<b>Water</b>																
i	Source of Water Supply (GIDC Bore well, Surface water, Tanker supply etc...)	GIDC Water Supply															
	Status of permission from the concern authority.	Company is obtained the permission for water supply from GIDC															
ii	<b>Water consumption (KLD)</b>																
	<table border="1"> <thead> <tr> <th>Category</th> <th>Existing Water Consumption KLD</th> <th>Proposed (Additional) KLD</th> <th>Total after Expansion KLD</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>(A) Domestic</td> <td>7</td> <td>0</td> <td>7</td> <td></td> </tr> <tr> <td>(B) Gardening</td> <td>6</td> <td>0</td> <td>6</td> <td></td> </tr> </tbody> </table>	Category	Existing Water Consumption KLD	Proposed (Additional) KLD	Total after Expansion KLD	Remarks	(A) Domestic	7	0	7		(B) Gardening	6	0	6		
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(B) Gardening	6	0	6														

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iv	Treatment facility within premises with <b>capacity [For existing and Proposed]</b> [In-house ETP (Primary, Secondary, Tertiary), MEE, Stripper, Spray Dryer, STP etc.. ➤ ETP – 150 KL/Day																																													
v	Mode of Disposal & Final meeting point Domestic: Domestic Wastewater is disposed through the Septic Tank or Soak Pit. Industrial: <ul style="list-style-type: none"> <li>150 KLD of Boiler blowdown and cooling water will be subjected to RO and then 111 KLD will be reused in Boiler and cooling.</li> <li>59 KLD of effluent will be discharged in the CETP.</li> <li>Scrubbing media will be sell to end users.</li> </ul>																																													
vi	In case of Common facility (CF) like CETP, Common Spray dryer, Common MEE, CHWIF etc. Name of Common facility ➤ GIDC Discharge Letter Membership of Common facility (CF) <b>(For waste water treatment)</b> Company had obtained discharged letter from GIDC																																													
vii	<b>Simplified water balance diagram with reuse / recycle of waste water</b>																																													



vii	Reuse/Recycle details (KLD) [Source of reuse & application area]		
	<b>Total reuse 0 KLD</b>		
	<b>Source of waste water for reuse with quantity in KLD</b>	<b>Application area with quantity in KLD</b>	<b>Remarks regarding feasibility to reuse i.e. w/w characteristics (COD, BOD, TDS etc.)</b>
	Boiler & Cooling (RO Permeate)	111	COD: 80 mg/L BOD: 30 mg/L TDS: 70 mg/L
	-		

**E Air**

i	Flue gas emission details No. of Boilers/TFH/Furnaces/DG sets etc. with capacities viz. TPH, Kcal/hr, MT/hr, KVA etc.						
	<b>Existing &amp; Proposed</b>						
	<b>SR. no.</b>	<b>Source of emission With</b>	<b>Stack Height (meter)</b>	<b>Type of Fuel</b>	<b>Quantity of Fuel MT/Day</b>	<b>Air Pollution Control</b>	<b>Emission Standard</b>
	-						

		Capacity			Measures (APCM)	
	1	Boiler (0.850 TPH)	18	FO	1.5 MT/Day	SPM SO2 NOx
	2	Hot air Generator (For Spray drier)	15	PNG	1200 m <sup>3</sup> /Day	
	3	Boiler (3.0 TPH)	30	Coal	18 MT/Day	
Proposed						
SR. no.	Source of emission With Capacity	Stack Height (meter)	Type of Fuel	Quantity of Fuel MT/Day	Air Pollution Control Measures (APCM)	Emission Standard
4	Thermic Fluid Heater (2 Lac Kcal/Hr)	30	Coal	2 MT/Day	Cyclone separator followed by Bag filter	SPM SO2 NOx
5	Thermic Fluid Heater (10 Lac Kcal/Hr)	30	Coal	6 MT/Day	Cyclone separator followed by Bag filter	
6	DG Set (500 KVA)	9	HSD	1.225 MT/Day	Adequate Stack Height	
ii	Process gas i.e. Type of pollutant gases (SO <sub>2</sub> , HCl, NH <sub>3</sub> , Cl <sub>2</sub> , NO <sub>x</sub> etc.) <b>Existing &amp; Proposed</b>					
Sr. no.	Source of emission	Type of emission	Stack/Vent Height (meter)	Air Pollution Control Measures (APCM)		
1	Process vent I (Sulphuric Plant)	SO2 <100 ppm Acid Mist	50	DCDA System, catalyst converter Beds & Alkali Scrubber unit & Liquid So2 Scrubber. Mist eliminator		
2	Process Vent II (Chloro Sulphonic Acid Plant)	HCl < 20 mg/Nm <sup>3</sup>	30	Two Stage water Scrubber		
3	Process		30	Two Stage water		

			Vent III (BSCL Plant)			Scrubber																																			
	4	Spray Dryer (1.0 TPH)	SPM < 150 ppm	15		Cyclone separator followed by wet scrubber																																			
Proposed																																									
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	1	Cage Mill Dryer	HCl < 20 mg/Nm <sup>3</sup>	30		Two Stage water Scrubber																																			
	2	MPP –I	SPM < 150 ppm SO <sub>2</sub> <100 ppm NO <sub>x</sub> < 50 ppm	15		Cyclone separator followed by Bag filter																																			
-																																									
iii	<b>Fugitive emission</b> details with its mitigation measures.																																								
	<ul style="list-style-type: none"> <li>• Enclosed Processed</li> <li>• Minimum joints/flanges</li> <li>• Auto handling for charging Raw Materials</li> <li>• Pumps with double mechanical seals</li> <li>• Proper Ventilation</li> <li>• PPEs</li> </ul>																																								
<b>F</b>	<b>Hazardous waste</b> (as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016. <b>Existing &amp; Proposed</b>																																								
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								approved by CPCB or Rules for Machine lubrication	
4	Discarded containers/ barrels / bags	Plant RM	33.3/SC H-I	54996 Nos	00	54996 Nos		Collection, Storage, Transportation & disposal by sale to GPCB authorized vendors.	
5	Spent Catalyst	Converter	17.2/SC H-1	4.2	00	4.2		Collection, Storage, Transportation & sell to regenerator	
6	Diphenyl Sulphone	Processes	26.1/SC H-I	120	00	120		Collection, Storage, Transportation & sale to end user(having permission under Rule-9)	
7	Dilute Sulphuric Acid (68%)	Processes	26.3/SC H-I	3744	30432	34176			
8	Dilute Hydrochloric Acid (30%)	Processes	26.3/SC H-I	16320	79.2	16399.2			
9	Dilute Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Processes	C2	2244	00	2244			
10	Phosphoric Acid	Processes	B15	67.14	00	67.14			
11	Ammonia Solution NH <sub>4</sub> Cl	Processes	-	534	00	534			
12	Gypsum	Processes	B2080	28800	00	28800			
-									
ii	Membership details of <b>TSDF, CHWIF</b> etc. <b>(For HW management)</b>				Company has membership of TSDF/CHWIF				
iii	Details of Non-Hazardous waste & its disposal(MSW and others)				There is no generating the non-hazardous waste.				
<b>G</b>	<b>Solvent management, VOC emissions etc.</b>								
i	Types of solvents, Details of Solvent recovery, % recovery. reuse of recovered Solvents								
	<ul style="list-style-type: none"> <li>All the solvents shall be directly distilled from product mixes and; if required shall be purified in packed column with the help of reflux and therefore there is no generation of any distillation residue from the solvent distillation.</li> <li>The solvent distillation system shall be designed so as to achieve minimum 95% recovery of solvent.</li> </ul>								

	<ul style="list-style-type: none"> <li>• Pure solvent, crude solvent and distilled (recovered) solvent shall be stored only in storage tanks and we shall not be using drums at any stage in the Solvent Management System.</li> <li>• Wherever required, the solvents shall be directly pumped into day tanks from the storage tanks and shall be charged into the reactors without involving any manual handling.</li> <li>• All the pumps shall be mechanical seal type to avoid any leakage of solvent.</li> <li>• All necessary fire fighting systems shall be provided with alarm system. Flame proof wiring and flame proof electrical accessories shall be provided to avoid any mishap.</li> <li>• All the storage tank and day tank shall be connected to a vent system through cooling water and chilled brine condensers to prevent loss of solvents in the atmosphere.</li> <li>• All the distillation column vents will be also connected to cooling water/chilled brine condensers for maximum possible recovery of the solvents.</li> <li>• All the vents will be connected to a common carbon Adsorber for removing traces of solvent from vent gases</li> </ul>
ii	<p><b>VOC emission</b> sources and its mitigation measures</p>
	<p><b>Volatile Organic Content Measures:</b></p> <p>To prevent losses of these solvents in atmosphere, following infrastructure shall be used in addition to LDAR program</p> <ul style="list-style-type: none"> <li>• Leak Free Pumps for transfer of solvents</li> <li>• MSW Gaskets in solvent pipelines to prevent leakage from flanges</li> <li>• Minimum number of flanges, joints and valves in pipelines.</li> <li>• To eliminate chances of leakages from glands of pumps, mechanical seal will be provided at all solvent pumps.</li> <li>• All the rotating equipments like pumps will be installed with Mechanical Seals to arrest any sort of emissions.</li> <li>• Condenser and scrubber post Reactor with cooling arrangement</li> <li>• Enclosures to chemical storage area, collection of emission from loading of raw materials in particular solvents through hoods and ducts by induced draft, and control by scrubber / dust collector to be ensured.</li> <li>• In case the small spillage or leakage observed, first pour the china clay (vermiculate) on material and collect the contaminated china clay (vermiculate) and send to ETP.</li> <li>• If the spillage is of inflammable liquid, switch off all the power supply in the area to prevent Electric Spark.</li> <li>• Two condenser will install with cooling water and chilled brine to recover the solvent.</li> <li>• Primary Condenser HE-01: Cooling Tower water or Chilled water will be used to condense the solvents depend on the vapor pressure at its operating conditions and the non condensed vapors will be condensed in a Secondary Condenser</li> <li>• VOC Trap Condenser HE-02: Chilled Brine at -05 °C will be used to trap any traces of Solvent which is slipped from Secondary condenser</li> </ul>

**7. Details of Environmental Consultants:**

Sr. no.	Particulars	Details
i	Name of the Consultant	Aqua – Air Environmental Engineers Pvt. Ltd.
ii	Contact no. and e-mail ID of the Consultant	Mo. no. : 98980 55574 e-Mail: aqua_eia@yahoo.com
iii	Accreditation for the categories and Validity	Stay Order against NABET/QCI
iv	Any other details	--

**8. Details regarding proposed changes:**

Sr. No.	Point of EC issued by SEIAA	Details as per the EC	To be revised	Justification/Reasons
1	A.2 (Point No. 13)	There are three source of Flue Gas Emissions [Boiler (2 Nos.) and HAG] and four source of Process Gas Emissions.	After amendment there are six source of Flue Gas Emissions [Boiler (2 Nos.), TFH (2 Nos.), D.G. set and HAG] and six source of Process Gas Emissions.	There is addition of Two TFH and One DG set will be added as Flue Gas Emissions & 2 Process Gas Emissions for some products to achieve better air quality norms
2	A.3 (Point No. 16)	Quantity of generation of Dilute Sulfuric Acid (68%) and Dilute HCl (30%) is 3744 & 16320 MT/Annum respectively.	After amendment quantity of generation of Dilute Sulfuric Acid (68%) and Dilute HCl (30%) is 34176 & 16399.2 MT/Annum respectively.	Because of addition of process vents, there will be generation of HCl from Scrubber.

**Name & designation of the Applicant: Mr. Prashant Soni**

**Stamp & Signature of Applicant**

**Date: 15/02/2019**

**General Instructions**

- Format shall be in WORD Format (**Font type- Arial, Font size- 11**)
- Provide authenticated (with stamp & Signature) hard copy during presentation.
- Kindly send e-mail to : [seacgujarat@gmail.com](mailto:seacgujarat@gmail.com)
- Above data shall be as per application **Form-1**.
- Incorporate relevant details in respective column in the Format. Do not attach Annexure except copy of Certificates etc.