

Six Monthly Compliance Report of M/s. HALIDES CHEMICALS PRIVATE LIMITED

April 2019 to May 2019

Environmental Consultant



buildingenvironment

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Submitted By

M/s. "Halides Chemicals Pvt. Ltd."
Plot No. A-2, MIDC Kurkumbh, Taluka -
Daund, Pune, Maharashtra

ENVIRONMENTAL CLEARANCE SIX MONTHLY COMPLIANCE REPORT

1. **Project Type** : 5 (f) – Bulk drugs and intermediates
2. **Name of the Project** : Proposed Expansion of Industrial Project
by M/s. Halides Chemicals Private Limited.
3. **Clearance letter and date** : **SEIAA-EC- 0000001458**
Dated: 23rd April 2019
4. **Location** : Plot No. A-2, MIDC Kurkumbh, Taluka -
Daund, Pune, Maharashtra
- a. District** : Pune
- b. State** : Maharashtra
- c. Latitude/Longitude** : Latitude : 18°23'44.14" N
Longitude : 74°31'36.90" E
5. **Address of correspondence** :
- Mr. Sanket D. Nigudkar**
 M/s. Halides Chemicals Private Limited
 : 3, Neelashri, Plot No. 16, Lane No.02,
 Prashant Co. Op. Hos.Soc., Off Paud Road,
 Kothrud, Pune 411038
- M/s. Halides Chemicals Private Limited**
 (a) Address of concerned project Head : Plot No. A-2, MIDC Kurkumbh, Taluka -
 Daund, Pune, Maharashtra
- (b) Address of Corporate Office** : Plot No. A-2, MIDC Kurkumbh, Taluka -
 Daund, Pune, Maharashtra

Project Background

M/s. Halides Chemicals Private Limited has proposed a project at Plot No. A-2, MIDC Kurkumbh, Taluka: Daund, Dist: Pune, Maharashtra. Industry has obtained Environmental Clearance **SEIAA-EC-0000001458 dated, 23rd April 2019** attached as **Annexure 1** for manufacturing of "Synthetic Organic Chemicals Industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates). Production Capacity granted in Environmental Clearance is 4142.89 MT/Y.

Project site is located in Kurkumbh MIDC hence; it is well connected with the entire basic infrastructure. Pune Solapur Road is located around 0.2km in South direction and Daund r railway station is 18.57km in NNE direction from the project site. As per the granted Environmental Clearance, total plot area of the project is 4050sq.m. and total built-up area is 2227.81sq.m.. Industry has proposed to develop Reserve Green Area of 1042.48sq.m. Estimated cost of the proposed project is Rs.9.05Cr.

Present Status

Industry had simultaneously applied for the Consent to Establish for proposed products and received the Consent on 26th April 2019. Construction of Raw Material Storage Area is started and is in process. Industry shall apply for Consent to Operate for Proposed Expansion once construction and machineries required for proposed production is in place.

Specific Conditions:

Sr. No.	Conditions	Project Proponent's Response / Compliance Status
I	PP to submit design details of the scrubber to achieve out let exposure levels of bromine gas below the TLV level.	The condition is being complied with. The design detail of the scrubber to achieve out let exposure levels of Bromine gas below the TLV level is attached as Annexure 2 for your reference.
II	PP proposes zero liquid discharge. Therefore, PP to ensure that no effluent is discharged to the CETP.	The condition will be complied with. The total fresh water consumption after proposed expansion will be 58.89CMD. The total effluent generation from industrial activities after proposed expansion will be 14.2CMD. Industry has provided 16CMD MEE, RO and DM. 11CMD condensate from MEE will be treated in RO / DM. out of which, 8.8CMD Permeate will be used for Cooling Tower Makeup and 2.2CMD Reject will be treated in STP. Sewage generation from domestic activities after proposed expansion will be 4.5CMD. Hence, total sewage generation will be 6.7CMD. Industry has proposed 15CMD STP with MBBR technology. Total 6CMD treated sewage will be used for gardening. Total Effluent generated will be completely recycled within the Industry premises and no effluent will be discharged outside the factory premises or even to CETP.
III	PP to include water foot print and carbon foot print monitoring in the EMP.	The condition has been complied with. The carbon footprint and water footprint monitoring has been included in the EMP of the EIA/EMP report.
IV	PP to prepare and implement CER plan in consultation with the District Authorities as mentioned in the OM dated 01.05.2018	The condition will be complied with. Industry has allotted 1% of the additional capital investment [Rs. 4.07 Cr] for CER activity i.e. 4.07 Lakhs. The CER plan is prepared in consultation with District Authorities as mentioned in the OM dated 01.05.2018. The acknowledgment copy of the same is attached as Annexure 3 for your reference.
V	PP to ensure to comply with the conditions stipulated in the Office Memorandum issued by MoEF&CC dated 9 th August, 2018.	The tabular compliance of the conditions mentioned in Annexure XX of the O.M. dated 9.08.2018 is provided below succeeding the compliance of the conditions imposed by the SEIAA.
VI	PP to submit CER plan to collector Pune and submit the acknowledgement copy to submitted to Member Secretary, SEIAA.	Acknowledgment copy of CER plan submitted to collector Pune has been submitted to the Member Secretary, SEIAA. The copy of the same is attached as Annexure 4 for your reference.

General Conditions:

Sr. No.	Conditions	Project Proponent's Response / Compliance Status
I	PP to achieve Zero Liquid Discharge; PP shall ensure that there is no increase in the effluent load to CETP.	The condition will be complied with. The total fresh water consumption after proposed expansion will be 58.89CMD. The total effluent generation from industrial activities after proposed expansion will be 14.2CMD. Industry has provided 16CMD MEE, RO and DM. 11CMD condensate from MEE will be treated in RO / DM. out of which, 8.8CMD Permeate will be used for Cooling Tower Makeup and 2.2CMD Reject will be treated in STP. Sewage generation from domestic activities after proposed expansion will be 4.5CMD. Hence, total sewage generation will be 6.7CMD. Industry has provided 15CMD STP with MBBR technology. Total 6CMD treated sewage will be used for gardening. Total Effluent generated will be completely recycled within the Industry premises and no effluent will be discharged outside the factory premises or even to CETP.
II	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.	Industry assures that no additional land is used or shall be used for any activity prior obtaining obligatory permissions. Proposed expansion shall be done within existing land only.
III	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.	Industry has provided proper pollution control systems in all the existing units and also provided appropriate PPE's to all the employees during construction of proposed plant. PPE's like Helmet, Safety Shoes, Goggles & Hand gloves were provided to construction workers. Safety instructions have been put at relevant locations within factory premises.
IV	Proper Housekeeping programmers shall be implemented.	Good housekeeping is/will be maintained within the project premises.

V	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	All the Pollution Control System are operated and maintained well but in case of any emergencies, Industry will put off the unit and will not restart the unit until the desired efficiency has been achieved.
VI	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).	D.G. Set of 160kVA D.G. Set. With adequate Stack height 3m above roof level of the building is installed.
VII	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.	The detailed scheme for rainwater harvesting has already been prepared and submitted in the EIA/EMP report. The construction of conduits and installation of pipelines is in process. No recharging of ground water will be done as all the collected water will be collected in the storage tank and shall be recycled.
VIII	Arrangement shall be made that effluent and storm water does not get mixed.	Industry has provided different effluent and storm water lines. Industry has provided well-defined effluent network and storm water network.
IX	Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board	The condition will be complied with. Industry will carry out regular monitoring of ground water and analyzed samples will be compared with the previous ones to identify any changes in the quality of ground water. Analyzed results will be submitted to MPCB regularly.
X	Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.	Industry is maintaining noise levels well within permissible norms. Existing D.G. Sets are provided with acoustic enclosures. All equipment's and machineries are maintained and lubricated regularly. Regular noise monitoring is carried out to ensure Noise levels within norms for existing operation. In addition to this, Industry has provided personal protective equipment's like earplugs to the employees working in the high noise area.
XI	The overall noise levels in and around the plant 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 confirm to the standards	Industry is maintaining noise levels well within permissible norms. D.G. Sets are provided with acoustic enclosures. All equipment's and machineries are maintained and lubricated regularly for existing operation. Honking is strictly prohibited within factory premises.

	prescribed under Environment (Protection) Act, 1986 Rules, 1989.	Construction activities are minor and only during the day time. Workers are provided with earplugs as PPE.
XII	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.	Existing greenbelt has been developed and maintained around the plant periphery. Industry has planted 37 No. of plant species in existing scenario. For proposed expansion, 77 No. of plant species were proposed to be planted. The plantation of proposed trees is in process.
XIII	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning	Industry has provided the adequate safety measures to limit the risk zone within the plant boundary, in case of an accident. In addition, Industry has installed leak detection devices for Chlorine & Bromine gas for existing operations. Same shall be followed for proposed operation after start of the proposed production.
XIV	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.	The condition will be complied with. Industry will carry out occupational health surveillance of the workers on a regular basis and records will be maintained as per Factories Act.
XV	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	The condition will be complied with. Industry will provided flame arrestors on tank farms in Hazardous Chemicals storage area as a safety measure to protect from possible fire hazard.
XVI	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes	In Existing Scenario, the generated hazardous waste is being stored and disposed as per Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016 (Amended). In addition, Industry has obtained CTO for existing operations from MPCB, which is attached as Annexure 5 for your reference. For the proposed operations, industry has obtained CTE on 26 th April 2019 and CTO will be applied after all the construction and installation of machineries are in place.
XVII	Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.	The condition will be complied with. Industry carries out regular mock drills for on-site emergency management plan for existing operations and the same shall be followed after commissioning of the proposed project.

XVIII	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Industry has constituted the separate Environment Management Cell with qualified staff who looks after implementation of stipulated environmental safeguard.
XIX	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the Environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department	Industry has allocated separate funds for implementation of environmental protection measures/ EMP and item wise breaks-up. This cost is including as part of project cost. These funds will not be diverted for other purposes.
XX	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://ec.maharashtra.gov.in	Industry has advertised in two local newspapers in two languages [English & Marathi] that the project has been accorded Environmental Clearance and copies of the clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at website http://ec.maharashtra.gov.in . Photograph of the advertisement cutting is attached as Annexure 6 for your reference.
XXI	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1 st June & 1 st December of each calendar year.	Project was granted prior Environmental Clearance vide letter no. SEIAA-EC-0000001458 dated: 23th April, 2019 Industry will submit half yearly compliance report to MPCB and this department time to time.
XXII	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Industry has sent the copy of clearance letter to the Municipal Corporation, Daund, Deputy Engineer, MIDC, Pune and MPCB. The Acknowledge copy of the same is attached as Annexure 7 for your reference. Industry has put the copy of the EC Letter on the company's website, screenshot of which is attached as Annexure 8 for your reference.
XXIII	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their 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 SPCB. The criteria pollutant levels namely;	Project have been accorded prior Environmental Clearance vide letter no. SEIAA-EC-0000001458 dated: 23rd April, 2019 . Industry shall upload the status of the compliance of the stipulated EC conditions including results of monitored data on the company website after submission of the first compliance

	SPM, RSPM. SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	report. Moreover, It shall be updated periodically. In addition, industry has simultaneously sent the compliance report to regional office of MoEF&CC, the respective zonal office of CPCB and the SPCB. In addition to this, Industry will display criteria pollutants levels namely SPM, RSPM, SO ₂ , NO _x at the convenient location near main gate of the company after commissioning of the proposed project.
XXIV	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC 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 SPCB.	Project have been accorded prior Environmental Clearance vide letter no. SEIAA-EC-0000001458 dated: 23rd April, 2019 . Industry is submitting half-yearly compliance report both in hard copies as well as by e-mail to respective Regional office of MoEF&CC, the Respective Zonal office of CPCB and SPCB.
XXV	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent 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 with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Industry had submitted the Environmental Statement Report for the financial 2017-18 to MPCB as prescribed in Environment (Protection) Rules, 1986, as amended subsequently and will upload on the website of the company along with the status of compliance of Environmental Clearance conditions. The Environment Statement Report 2017-18 is attached as Annexure 9 for your reference.

Standard EC Condition for Pharmaceutical/chemical Industry Sector

Statutory Compliance		
1.	The Project Proponent shall obtain forest clearance under the provisions of Forest(Conservation) Act,1986, in case of the diversion of forest land for non-forest purpose involved in project	Not Applicable as no forest land is involved for proposed project.
2.	The Project Proponent shall obtain clearance from the National Board for Wildlife, if applicable	Not Applicable
3.	The Project Proponent shall prepare a site-specific conservation plan & wildlife management plan and approved by the chief wildlife Warden. The	Not Applicable

	recommendations of the approved site-specific conservation plan & wildlife management plan shall be implemented in consultation with the state forest department. The implementation report shall be furnished along with the six-monthly compliance report.(in case of the presence of schedule-1 species in the study area)	
4.	The Project Proponent shall obtain consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/Committee.	Industry has obtained CTO for existing operations from MPCB, which is attached as Annexure 5 for your reference. For the proposed operations, Industry has been granted CTE on 26 th April, 2019. The same is attached as Annexure 10 for your reference. Construction activities have started from 30 th April, 2019. Industry will apply for CTO after the construction activities and installation of all the machineries are in place.
5.	The Project Proponent shall obtain authorization under the Hazardous and other waste Management Rules, 2016 as amended from time to time	Industry has obtained CTO for existing operations from MPCB. Industry has been granted CTE on 26 th April, 2019. Industry will apply for CTO after the construction activities and installation of all the machineries are in place.
6.	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. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989	Industry has strictly complied with all the rules and guidelines under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. Fire NOC has been obtained from the concerned departments for existing project.
II. Air Quality Monitoring and Preservation		
1.	The Project Proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor Stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Rules 1986 or NABL accredited labs.	The condition will be complied with. PP will install 24x7 continuous emission monitoring system at process and connect to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Rules 1986 or NABL accredited labs after commissioning of the proposed project.

2.	The Project Proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Rules 1986.	The condition will be complied with. Industry will monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Rules 1986.
3.	The Project Proponent shall install system to carryout Ambient air Quality Monitoring for common/ criterion parameters relevant to the main pollutants released (e.g. PM ₁₀ and Pm _{2.5} in reference to PM emissions, and SO ₂ and NO _x in reference to SO ₂ and NO _x emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.	The condition will be complied with. Industry will install system to carryout Ambient Air Quality Monitoring for common/ criterion parameters relevant to the main pollutants released within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each) covering upwind and downwind directions.
4.	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emission within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/ SPCB guidelines	<p>For existing operations, to control emissions from process, industry has installed Three Scrubbers to the process vent. Scrubbers are attached to Bromination/ Chlorination Plant, Imide Formulation and Drying Section with adequate stack height of 6m, 4.5m and 4.5m respectively. For proposed operation, additional Venturi scrubber followed by Tail gas scrubber to attain better efficiency to meet the prescribed norms has been installed as on date. Adequate stack height of 6m has been provided to proposed scrubber.</p> <p>To control emissions from utilities in existing operation, Industry has two Boilers of capacity 750kg/hr and Boiler and thermopac of capacity 600kg/hr with FO and LDO as a fuel. Adequate stack height of 10m and 14m has been provided respectively. For proposed operations, industry has proposed one Boiler of 1000Kg/hr with adequate stack height of 28m. FO will be used as a fuel in the proposed Boiler.</p> <p>Regular sprinkling of water is done on road side and loading/unloading area to reduce fugitive emissions. All raw materials are placed in closed containers to avoid</p>

		fugitive emissions.
5.	Storage of raw materials, coal etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions	Raw materials are stored in covered area to prevent dust and fugitive emission for existing operation. For proposed expansion, construction of raw material storage area is in process.
6.	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the ministry vide G.S.R.608(E) dated 21 st July ,2010 and amended from time to time shall be followed	National Emission Standards for Organic Chemicals Manufacturing Industry shall be followed after commissioning of the proposed activities.
7.	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 shall be complied with	The condition will be complied with. For existing operations, Industry follows the NAAQS standards and the same shall be followed after commissioning of the proposed project.
III. Water quality Monitoring and Preservation		
1.	The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises(applicable in case of the projects achieving ZLD)	The condition will be complied with. Industry will provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD)
2.	As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the project achieving the ZLD).	The condition has been complied with. There will be no discharge of effluent outside factory premises and Industry will adopt ZLD for the proposed project.
3.	The effluent discharge shall conform to the standard prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting consent under the Air/Water Act, whichever is more stringent.	The condition will be complied with. The effluent discharge shall conform to the standard prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting consent under the Air/Water Act, whichever is more stringent.
4.	Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior Permission shall be obtain from the concerned regulatory authority/CGWA in this regard.	Noted. Total fresh water requirement will not exceed the proposed quantity i.e. 58.89CMD. Fresh water is sourced from MIDC, Kurkumbh and permission for same has been obtained.
5.	Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be	Agreed. The condition is being complied with for existing operations. Separate storm water drain lines and effluent lines

	collected and discharged through a separate conveyance system.	are provided and the same shall be followed after commission of the proposed activities.
6.	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.	The condition will be complied with. The construction of conduits and installation of pipelines for rain water harvesting is in process. However, harvested water shall be used within the factory
7.	The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.	D.G. Set of 160kVA has been installed as on date. Adequate stack height of 3m above roof from building has been provided to the D.G. Set.
IV. Noise Monitoring and Prevention		
1.	Acoustic enclosure shall be provided to D.G set for Controlling the noise pollution.	The condition has been complied with. D.G. Set of 160kVA has been installed as on date with acoustic enclosure.
2.	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 condition is being complied with for the existing operations. The overall noise levels are well within standards in and around the plant premises. Industry has provided all requisite equipment's and measures to reduce noise levels. Honking is strictly prohibited within premises during construction period. Construction activities are very less and are restricted during day time only.
3.	The ambient noise levels Should confirm to the standard prescribed under E(P)A Rules, 1986 viz. 75 dB(A)	The condition is being complied with for existing operations and construction activities and the same shall be followed after operation of proposed activities.
V. Energy Conservation Measures		
1.	The energy sources for lighting purpose shall preferably be LED based.	The condition is being complied with. Industry has installed 80 Nos. of LED in production area, storage building, Boiler house etc. in the period of April 2019 to May 2019.
VI. Waste Management		
1.	Hazardous chemicals shall be stored in tanks, tank farms drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.	All the hazardous chemicals are stored in tanks, drums, carboys etc. in a designated storage area and solvent is transferred through pumps for existing operations. Flame arresters will be provided on tank farm.
2.	Process organic residue and spent carbon, if any, shall be sent to cement	The condition is being complied with for existing operations. ETP Sludge, Spent

	industry. ETP Sludge, Process inorganic & evaporation salt shall be disposed off to TSDF.	Catalyst and Salt solutions has been disposed off to CHWTSDF, MEPL, Ranjhangaon. The same shall be followed after operation of proposed project.
3.	The company shall undertake waste minimization measures as below:	
	a. Metering and control of quantities of active ingredients to minimize waste.	The condition is complied for existing operations and the same shall be followed after operation of proposed project.
	b. Reuse of by-products from the process as raw materials or as raw materials substituted in other processes.	The condition is complied for existing operations and the same shall be followed after operation of proposed project.
	c. Use of automated filling to minimize spillage.	The condition will be complied with after operation of proposed project.
	d. Use of Close Feed system into batch reactors.	The condition is complied for existing operations and the same shall be followed after operation of proposed project.
	e. Venting equipped through vapor recovery system.	The condition is complied for existing operations and the same shall be followed after operation of proposed project.
	f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.	The condition will be complied with after operation of proposed project.
VII. Green Belt		
1.	The belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road side etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the \State Forest Department.	Industry has already developed 294.02sq.m. of land for greenbelt and has dedicated additional 1042.48sq.m. for proposed greenbelt development. Plantation of trees is in process after grant of EC. Total Green Belt area shall be 33% of Plot Area.
VIII. Safety, Public Hearing and Human Health Issues		
1.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	The condition has been complied with. Industry has already prepared Risk Assessment and Disaster Management Plan and submitted along with the EIA. All the safety measures proposed in the risk assessment are being followed for existing operations and construction activities.
2.	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	The condition has been complied with. Industry has installed 8 Nos. of Fire Hydrant points, 31 Fire Extinguishers etc. to prevent fire in worst case scenario.

3.	The PP shall provide Personal Protection Equipment's (PPE) as per the norms of Factory Act.	Industry has provided appropriate PPE's to the employees and wearing of the same is ensured regularly for existing operations. During construction phase, Industry has provided proper PPE's like Helmet, Safety Shoes, Goggles & Hand gloves to workers involved in construction activities.
4.	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 on undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Regular training is being imparted to the employees for safety and health for existing operations. Same shall be followed after start of production activities.
5.	Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	The construction activities are minor. Only 15 Nos. of construction labours have been employed for construction activities which are sourced from local area itself. Hence, there has been no need of providing shelter to the construction labour. Electricity and one no. of Toilet have been provided to workers. Drinking water have been sourced from MIDC which is further filtered through RO.
6.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	The condition will be complied with. Occupational health surveillance of the workers will be done on a regular basis and records will be maintained as per the Factories Act.
7.	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places	The condition will be complied with. In existing scenario, 70.56sq.m. is already provided for parking of vehicles and 425.13sq.m. area is proposed for parking facilities for proposed activities. Industry assures that no parking will be allowed outside on public places
IX. Corporate Environment Responsibility		
1.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-IA. III dated 1 st May 2018, as applicable, regarding Corporate Environment Responsibility.	Industry has allotted 1% of the additional Capital Investment [Rs. 4.07 Cr] for CER activity i.e. 4.07 Lakhs. The CER plan is prepared in consultation with District Authorities as mentioned in the OM dated 01.05.2018. The acknowledgment copy of the same is attached as Annexure 3 for your reference. The activities will be carried out after acquiring CTO from MPCB.

2.	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedure to have proper check and balance and to bring into focus any infringement/deviation/violation of the environmental/ forest/wildlife norms/ conditions. The company shall have defined system of reporting infringements/ deviations/ violation of the environmental/ forest/ wildlife norms/ conditions and/or shareholders/ stock holders. The copy of the board resolution in this regard shall be submitted to the MoEF & CC as a part of six-monthly report.	The company has well laid out EHS Policy. The company has well defined system for reporting of infringement/ deviation/violation. In the period of April 2019 to May 2019, there was no violation of environmental condition; hence, there is no board resolution for the same.
3.	A separate Environmental cell both at the project and company head quarter level, with qualified personal shall be set up under the control of senior Executive, who will directly to the head of the organization.	There is a separate Environmental Cell with qualified personal under the control of Senior Executive, who will directly to the head of the organization.
4.	Action plan for implementation EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional office along with Six Monthly Compliance Report.	The condition will be complied. Separate funds have been allocated towards EMP. The implementation of the same shall be furnished after completion of the construction activities and start of operation activities time to time.
5.	Self-Environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	The condition will be complied with after start of the proposed expansion.
6.	All the recommendations made in the charter of Corporate Responsibility for Environment Protection (CREP) for the Iron and steel plants shall be implemented.	Not Applicable
X. Miscellaneous		
1.	The Project proponent shall make public the environmental clearance granted for	Noted. The condition has been complied with.

	<p>their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspaper of the District or state, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent website permanently.</p>	<p>Industry has advertised in two local newspapers in two languages [English & Marathi] that the project has been accorded Environmental Clearance. Photograph of the advertisement cutting is attached as Annexure 6 for your reference.</p> <p>Industry has also displayed the copy of the EC Letter on the company's website, screenshot of which is attached as Annexure 8 for your reference.</p>
2.	<p>The copies of the environmental clearance shall be submitted by the project proponent to the Head of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the government who in turn has to display the same for 30 days from the date of receipt.</p>	<p>Noted. The condition has been complied with.</p> <p>Industry has sent the copy of clearance letter to the Dy. Engineer, MIDC, Kurkumbh, MPCB and Municipal Corporation, Daund and Acknowledge copy of the same is attached as Annexure 7 for your reference.</p>
3.	<p>The Project proponent shall upload the status of the compliance of the stipulated environment clearance conditions, including results of monitoring data on their website and update the same on half-yearly basis.</p>	<p>Noted. The condition will be complied with.</p> <p>Industry will upload the status of the compliance of the stipulated EC conditions including results of monitored data on the company website time to time.</p>
4.	<p>The Project proponent shall monitor the criteria pollutant level namely; PM₁₀, SO_x, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company</p>	<p>Noted</p> <p>Shall be complied with after getting CTO from MPCB. Industry has been granted CTE on 26th April 2019. Industry will apply for CTO after all the construction activities and installation of all the machineries.</p>
5.	<p>The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of environment, Forest and Climate change at the environmental clearance portal.</p>	<p>Noted. The condition shall be complied with.</p>
6.	<p>The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State pollution Control Board as</p>	<p>Noted. The condition is being complied with.</p> <p>Industry had submitted the Environmental</p>

	prescribed under the Environment (Protection) Rules, 1986,as amended subsequently and put on the website of the company	Statement Report for the financial 2017-18 to MPCB as prescribed in Environment (Protection) Rules, 1986, as amended subsequently and will upload on the website of the company along with the status of compliance of Environmental Clearance conditions. The Environment Statement Report 2017-18 is attached as Annexure 9 for your reference.
7.	The project proponent shall inform the Regional Office as well as the ministry, the date of the financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Noted
8.	The Project authorities must strictly adhere to the stipulations made by the state pollution Control Board and the state Government	Noted
9.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also during their presentation to the Expert Appraisal Committee.	Noted
10.	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC).	Noted
11.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986	Noted
12.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
13.	The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	Noted
14.	The Regional Office of this ministry shall monitor Compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of	Noted

	the Regional Office by furnishing the requisite data/information/monitor reports.	
15.	The above conditions shall be enforced, inter-alia under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1986, Hazardous and Other waste (management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991, along with their amendments and rules and any other orders passed by the Hon'ble Supreme court of India/ High courts and any other court law relating to the subject matter.	Noted
16.	Any Appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the national Green Tribunal Act, 2010	Noted

List of Annexure

Annexure	Particulars
1.	Environmental Clearance Copy
2.	Design Detail of Scrubber
3.	Acknowledgment copy submitted to District Collector for CER
4.	Acknowledgment copy of CER submitted to Member Secretary, SEIAA
5.	Existing Consent to Operate Copy
6.	Newspaper advertisement copy regarding grant of EC
7.	Ack. copy of Letter submitted to local Authorities regarding grant of EC
8.	Screenshot of EC copy uploaded on company website
9.	Environment Statement Report 2017-18 Copy
10.	Copy of Consent to Establish for Proposed Expansion



STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Environment department,
Room No. 217, 2nd floor,
Mantralaya, Annexe,
Mumbai- 400 032.
Date: April 23, 2019

To,
Mr. Sanket .D. Nigudkar
at Plot No. A-2, MIDC Kurkumbh, Taluka -Daund, Pune

Subject: Environment Clearance for Environment Clearance for Environmental Clearance for proposed expansion of M/s. Halides Chemicals Pvt. Ltd from 636.00 MT/Year to 4142.89 MT/Year

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee-I, Maharashtra in its 157th (A)th meeting and recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 163rd meetings.

2. It is noted that the proposal is considered by SEAC-I under screening category Category B: 5 (f) as per EIA Notification 2006.

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

1.Name of Project	M/s. Halides Chemicals Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Sanket .D. Nigudkar
4.Name of Consultant	Building Environment (India) Pvt. Ltd.
5.Type of project	Industrial Estate-Industry 5 (f) Category
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No, As per the EIA Notification the existing project does not need Environmental Clearance
8.Location of the project	Plot No. A-2, MIDC Kurkumbh, Taluka -Daund, Pune
9.Taluka	Daund
10.Village	Not Applicable
Correspondence Name:	Mr. Sanket .D. Nigudkar
Room Number:	Not Applicable
Floor:	Not Applicable
Building Name:	Neelashri
Road/Street Name:	Off Paud Road
Locality:	Kothrud
City:	Pune
11.Whether in Corporation / Municipal / other area	Kurkumbh MIDC Area
12.IOD/IOA/Concession/Plan Approval Number	No Industry has applied for revised layout IOD/IOA/Concession/Plan Approval Number: Plan Approval No. SWC/66/3/20160417/396347 Approved Built-up Area: 2227.81
13.Note on the initiated work (If applicable)	It is an already existing industry and is in operation since 1995. No activity has been initiated for the proposed expansion.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	4050.00 Sq. m.
16.Deductions	Not applicable
17.Net Plot area	4050.00 Sq. m.

SEIAA Meeting No: 163 Meeting Date: April 2, 2019 (SEIAA-STATEMENT-000000762)
SEIAA-MINUTES-0000001796
SEIAA-EC-0000001458

18 (a).Proposed Built-up Area (FSI & Non-FSI)	FSI area (sq. m.): 2227.81
	Non FSI area (sq. m.): Not Applicable
	Total BUA area (sq. m.): 2227.81
18 (b).Approved Built up area as per DCR	Approved FSI area (sq. m.): 2227.81
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 30-06-2010
19.Total ground coverage (m2)	1478.8
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	36%
21.Estimated cost of the project	90500000



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22. Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	N- Bromosuccinimide	360.00	420.00	780.00
2	N-Chlorosuccinimide	240.00	-120	120
3	N-Iodosuccinimide	36.00	00	36.00
4	Bromo OTBN (2-cyano-4-Bromomethyl biphenyl)	0.00	600.0	600.0
5	2-Bromopropionic Acid	0.00	180.0	180.0
6	Propionyl bromide	0.00	180.0	180.0
7	N- Hexyl bromide	0.00	240.0	240.0
8	tert- Butyl bromoacetate	0.00	240.0	240.0
9	Sodium Bromide Solution	0.00	966.00	966.00
10	Hydrogen Bromide Solution in water	0.00	695.00	695.00
11	Spent Iodine	0.00	21.52	21.52
12	phosphorous Acid	0.00	84.36	84.36

23. Total Water Requirement

Dry season:	Source of water	MIDC
	Fresh water (CMD):	58.9
	Recycled water - Flushing (CMD):	0.00
	Recycled water - Gardening (CMD):	6.0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	73.7
	Fire fighting - Underground water tank(CMD):	20.0
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Wet season:	Source of water	MIDC
	Fresh water (CMD):	58.9
	Recycled water - Flushing (CMD):	0.00
	Recycled water - Gardening (CMD):	0.00
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	67.7
	Fire fighting - Underground water tank(CMD):	20.0
	Fire fighting - Overhead water tank(CMD):	NA
Excess treated water	6.0	
Details of Swimming pool (If any)	Swimming pool not applicable	

24.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
	Existing	Proposed	Total	Existing	Proposed	Total	Existing	Proposed	Total
Domestic	5.0	0	5.0	0.5	Nil	0.5	4.5	0	4.5
Cooling tower & thermopack	42.55	6.54	49.09	41.62	6.39	48.01	0.94	0.14	1.08
Industrial Process	6.9	6.7	13.6	0.25	0.25	0.5	5.5	7.6	13.1
Gardening	2.0	4.0	6.0	2.0	4.0	6.0	0.0	0.0	0.0
Fresh water requirement	45.64	13.24	58.89	34.7	5.5	40.21	5.5	8.7	14.2

25.Rain Water Harvesting (RWH)	Level of the Ground water table:	1.18-1.98m
	Size and no of RWH tank(s) and Quantity:	1 tank of 2.5m*2.5m*3.20m; Volume-20,000 Lit
	Location of the RWH tank(s):	Behind parking near M.S.E.B yard
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	100000
	Budgetary allocation (O & M cost) :	12002
	Details of UGT tanks if any :	Two UG tanks are installed : UG water tank of 30,000 Litres capacity is installed for domestic use UG water tanks of 20,000 Litres capacity is installed for fire fighting purpose

26.Storm water drainage	Natural water drainage pattern:	Yes
	Quantity of storm water:	24.15 m3/hr.
	Size of SWD:	width -340 mm ; depth-260 mm

27.Sewage and Waste water	Sewage generation in KLD:	4.5KLD
	STP technology:	Currently having Septic tank. Industry has proposed STP with MBBR Technology for proposed expansion
	Capacity of STP (CMD):	1 (Proposed)- 15 CMD
	Location & area of the STP:	Behind L.D.O storage/furnace oil tank
	Budgetary allocation (Capital cost):	85.0 Lakh (Existing +Proposed)
	Budgetary allocation (O & M cost):	6 Lakh (Existing +Proposed)

28.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	Waste generation:	Construction debris
	Disposal of the construction waste debris:	Industry is already in operation. PP has proposed construction of sheds, storage tanks. Waste likely to generate is concrete which will be very less. The waste will be utilised within site for internal roads, higher plinth and filling low laying areas.
Waste generation in the operation Phase:	Dry waste:	Paper bags: 21000 Nos./Y, Fibre Drum with Lids- 19632 Nos./Y, HDPE Drums -5220 Nos./Y
	Wet waste:	No wet waste is generated
	Hazardous waste:	Used/Spent oil- 900 lit/Y; Spent catalyst- 8000Kg/Y; Chemical sludge from wastewater treatment- 500 ton/Y; Salt Solution- 78 ton/Y; Contaminated cotton rags or other cleaning materials- 180kg/Y; Empty barrels/containers- 1680 Nos/Y
	Biomedical waste (If applicable):	No Bio-medical waste is generated
	STP Sludge (Dry sludge):	0.32Ton/Y
	Others if any:	Not Applicable
Mode of Disposal of waste:	Dry waste:	Paper bags and fibre drums will be sold to Authorized recycler ; HDPE drums will be used to refill byproduct; STP sludge will be used as manure
	Wet waste:	Not Applicable
	Hazardous waste:	Used spent oil will be disposed off to Authorized Re-processor; Spent Catalyst, Chemical sludge from waste water and salt solution will be disposed to CHWTSDF , Contaminated cotton rags or other cleaning materials & Empty barrels/containers will be sent to Authorized recycler
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Will be used as manure
	Others if any:	Not Applicable
Area requirement:	Location(s):	Near STP plant; Behind Boiler room
	Area for the storage of waste & other material:	Separate Hazardous Waste storage area, Segregated metallic scrap yard, Segregated paper and plastic scrap yard is made for storage of waste
	Area for machinery:	Not Applicable
Budgetary allocation (Capital cost and O&M cost):	Capital cost:	1 lakh
	O & M cost:	0.5 lakh

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Maharashtra

29. Effluent Characteristics

Serial Number	Parameters	Unit	Inlet Effluent Characteristics	Outlet Effluent Characteristics	Effluent discharge standards (MPCB)
1	pH	NA	7.14	6.2	5.5-9.0
2	TSS	mg/Lit	87.0	12.0	<=100.0
3	BOD	mg/Lit	6800.0	<10.0	<=100.011
4	COD	mg/Lit	24666.67	26.67	<=250.0
5	Sulphates	mg/Lit	2015.0	4.10	<1000
6	Chlorides	mg/Lit	7448.67	3.43	<=600
Amount of effluent generation (CMD):		14.2 CMD			
Capacity of the ETP:		16.0 CMD			
Amount of treated effluent recycled :		8.8 CMD			
Amount of water send to the CETP:		Waste water generated in industry is recycled and used for various other processes, gardening etc.			
Membership of CETP (if require):		Yes; Industry has obtained CETP membership			
Note on ETP technology to be used		Industry has provided RO + MEE of capacity 16.0 CMD			
Disposal of the ETP sludge		ETP sludge generated will be disposed to CHWTSDF			


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30.Hazardous Waste Details							
Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used/Spent Oil	5.1	Lit/Y	800	100	900	Autho. Re-processor
2	Spent catalyst/Spent carbon	28.2	Kg/Y	3600	4400	8000	CHWTSDF
3	Chemical Sludge from wastewater treatment	35.3	Ton./Y	360	140	500	CHWTSDF
4	Salt Solution	26.1	Ton/y	Nil	78	78	CHWTSDF
5	Contaminated cotton rags or other cleaning materials	33.2	kg/y	Nil	180	180	Authorized Recycler
6	Empty barrels/containers	33.1	Nos./y	Nil	1680	1680	Authorized Recycler
31.Stacks emission Details							
Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases	
1	Boiler 750kg/Hr	Furnace Oil; 1450 Lit/Day	1	19.5	0.254	137	
2	Boiler+Thermopack 600 kg/Hr	LDO; 1000 Lit/Day	1	18	0.254	110	
3	Bromination/Chlorination	Not applicable	1	6	0.1016	54	
4	Imide Formation	Not Applicable	1	4.5	NA	NA	
5	Drying Section	Not Applicable	1	4.5	NA	NA	
6	D. G Set 160 KVA	Diesel	1	3	0.1016	112	
7	Boiler 1000kg/hr	Furnace Oil; 1728 Lit/Day	1	28	0.300	180	
32.Details of Fuel to be used							
Serial Number	Type of Fuel	Existing	Proposed	Total			
1	Diesel	37 Lit/Hr	Nil	37 Lit/Hr			
2	L.D.O	1000 Lit/Day	Nil	1000 Lit/Day			
3	Furnace Oil	1450 Lit/Day	1728 Lit/Day	3178 Lit/Day			
Source of Fuel		Industry /Market					
Mode of Transportation of fuel to site		Fuel is brought to site by tankers					
33.Energy							

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Power requirement:	Source of power supply :	MSEDCL
	During Construction Phase: (Demand Load)	Not applicable as industry is already under operation
	DG set as Power back-up during construction phase	Industry is having D. G. Set of 160KVA (Existing DG Set of 62.5 KVA shall be replaced by 160 KVA)
	During Operation phase (Connected load):	140 KW
	During Operation phase (Demand load):	150 KW (Existing -120 KW +Proposed 30 KW)
	Transformer:	200 KVA
	DG set as Power back-up during operation phase:	160 KVA (Existing DG Set of 62.5 KVA shall be replaced by 160 KVA)
	Fuel used:	37 Lit/Hr
	Details of high tension line passing through the plot if any:	No

34. Energy saving by non-conventional method:

Halides Chemicals have taken the effort to use natural resources available such as solar heat and light. They have installed solar water heating system which gives heated water for boiler input so that the fuel load of the boiler reduces thereby reducing the pollution. The industry is also using solar street light to lighten up the internal road.

36. Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Reduction in energy consumption	8-10%
2	Reduce in fuel consumption	10-11%

37. Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
DG Set 160 KVA	Acoustic enclosure with adequate height	Not applicable
Boiler 1 [750 kg/hr]	Adequate height	Not applicable
Boiler +Thermopack 600 kg	Adequate height	Not applicable
Chlorine Section	Leakage Alarm System	Not applicable
Bromine Section	Leakage Alarm System	Not applicable
Boiler 1000kg/hr	Adequate height	Not applicable

Budgetary allocation (Capital cost and O&M cost):	Capital cost:	1320000
	O & M cost:	50000

38. Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Not Applicable as industry is already under operation	NA	NA

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
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1	Air Pollution Control System	Existing +Proposed cost	15	1
2	Water Pollution Control Systems (ETP + STP)	Existing +Proposed Cost	85.0	6
3	Noise Pollution Control	Existing +Proposed	9.0	0.50
4	Green Belt Development / Maintenances	Exiting +Proposed	2.0	0.25
5	Environmental Monitoring/Environmental Management	Exiting +Proposed	0.00	2.0
6	Occupational health and safety	Exiting +Proposed	4.0	1.5
7	Solid Waste Management	Exiting +Proposed	1.0	0.5
8	Rain Water Harvesting	Exiting +Proposed	1.0	0.12
9	Energy Saving Measures	Exiting +Proposed	13.20	0.50

39.Storage of chemicals (inflammable/explosive/hazardous/toxic substances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
Acetic Acid	Liquid	Proposed Storage	2.0	2.0	2.9	Industry/Market	By Road
Chlorine	Gas	900kg Tonner	0.9	0.9	5.35	Industry/Market	By Road
OTBN	Solid	RM Store	9.0	9.0	40.3	Industry/Market	By Road
AIBN	Solid	RM Store	0.1	0.1	1.35	Industry/Market	By Road
Propionic Acid	Liquid	RM Store	5.0	5.0	15.74	Industry/Market	By Road
Red Phosphorous	Solis	RM Store	1.0	1.0	1.59	Industry/Market	By Road
Phosphorous Tribromide	Liquid	RM Store	1.0	1.0	9.9	Industry/Market	By Road
n-Hexanol	Liquid	RM Store	1.0	1.0	13.02	Industry/Market	By Road
Acetyl Bromide	Liquid	RM Store	1.0	1.0	13.62	Industry/Market	By Road
Tert Butanol	Liquid	RM Store	5.0	5.0	7.6	Industry/Market	By Road
H3PO3	Solid	RM Store	2.0	2.0	4.0	Industry/Market	By Road
Diesel	Liquid	DG Set Tank	0.4	0.4	08	Industry/Market	By Road
Furnace Oil	Liquid	FO Tank	10.0	10.0	45.0	Industry/Market	By Road
LDO	Liquid	LDO Storage	5.0	5.0	10.0	Industry/Market	By Road
Methylene Dichloride	Liquid	Near HBr Storage Tnank	10.0	10.0	59.24	Industry/Market	By Road
Caustic Soda Iye	Solid	Storage Tank	17.0	17.0	22.75	Industry/Market	By Road
Ethylene Dichloride	Liquid	Storage Tank	12.5	12.5	10.69	Industry/Market	By Road
Sulphuric Acid	Liquid	Storage Tank	10.0	10.0	21.66	Industry/Market	By Road
Succinic Acid	Solid	Proposed Shed	20	20	82.56	Industry/Market	By Road
Iodine	Crystalline Solid	Proposed Shed	0.5	0.5	3.6	Industry/Market	By Road
Liquid Bromine	Liquid	Proposed Storage Shed	10.80	10.80	87.45	Industry/Market	By Road
Sodium Bromate	Solid	Proposed Storage Shed	4.0	4.0	26.4	Industry/Market	By Road
Succinimide	Solid	Proposed Storage	5.0	5.0	67.12	Industry/Market	By Road

40.Any Other Information

No Information Available

	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No protected areas near project site
	Category as per schedule of EIA Notification sheet	Category B: 5 (f)
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	24-08-2017

3. The proposal has been considered by SEIAA in its 163rd meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:

Specific Conditions:

I	PP to submit design details of the scrubber to achieve out let exposure levels of bromine gas below the TLV level.
II	PP proposes zero liquid discharge. therefore PP to ensure that no effluent is discharged to the CETP.
III	PP to include water foot print and carbon foot print monitoring in the EMP.
IV	PP to prepare and implement CER plan in consultation with the District Authorities as mentioned in the OM dated 01.05.2018
V	PP to ensure to comply with the conditions stipulated in the Office Memorandum issued by MoEF&CC dated 9th August, 2018.
VI	PP to submit CER plan to collector Pune and submit the acknowledgement copy to submitted to Member Secretary, SEIAA.

General Conditions:

I	(i)PP to achieve Zero Liquid Discharge ; PP shall ensure that there is no increase in the effluent load to CETP.
II	No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
III	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.
IV	Proper Housekeeping programmers shall be implemented.
V	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.
VI	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).
VII	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
VIII	Arrangement shall be made that effluent and storm water does not get mixed.
IX	Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
X	Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.
XI	The overall noise levels in and around the plant are 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 confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
XII	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
XIII	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.
XIV	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.

XV	(The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
XVI	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.
XVII	Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
XVIII	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
XIX	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department
XX	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://ec.maharashtra.gov.in
XXI	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
XXII	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
XXIII	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their 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 SPCB. The criteria pollutant levels namely; SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
XXIV	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC 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 SPCB.
XXV	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent 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 with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.

Government of Maharashtra

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

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

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

7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, and amendments by MoEF&CC Notification dated 29th April, 2015.

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

9. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

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



Shri. Anil Diggikar (Member Secretary SEIAA)

Copy to:

1. SHRI JOHNY JOSEPH, CHAIRMAN-SEIAA
2. SHRI UMAKANT DANGAT, CHAIRMAN-SEAC-I
3. SHRI M.M.ADTANI, CHAIRMAN-SEAC-II
4. SHRI ANIL .D. KALE. CHAIRMAN SEAC-III
5. SECRETARY MOEF & CC
6. IA- DIVISION MOEF & CC
7. MEMBER SECRETARY MAHARASHTRA POLLUTION CONTROL BOARD MUMBAI
8. REGIONAL OFFICE MOEF & CC NAGPUR
9. MUNICIPAL COMMISSIONER PUNE
10. MUNICIPAL COMMISSIONER SATARA
11. REGIONAL OFFICE MPCB PUNE
12. REGIONAL OFFICE MIDC PUNE
13. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
14. COLLECTOR OFFICE PUNE
15. COLLECTOR OFFICE SATARA
16. COLLECTOR OFFICE SOLAPUR

Annexure 2: Design Detail of Scrubber

Design Details of Proposed Bromine Scrubber

A. Working of proposed Bromine Scrubber

- With new scrubbers, there would be two scrubbers in line for the scrubbing of the gases.
- The first would be venturi scrubber and then it would be followed by tail gas scrubber [Wet type]
- In the venturi scrubber, the venturi effect is produced by flow of neutralization media through venturi. This effect produces the vacuum to suck the gases from the reactors in the venturi
- The gases which escape the venturi system then flows to the wet type scrubber which has the pall ring column. This scrubber works on the cross current principle of the neutralization media and gases
- Due to the pall rings and counter current design, the tail gases will be further neutralized
- Finally the neutralized and clear air with the gas content below TLV would be released to the air after wet type scrubber.
- Output concentration of Bromine Gas after passing through proposed scrubber will be 0.2ppm i.e. within the Threshold limit mentioned in MSDS of Bromine i.e. 0.2ppm

B. Schematic Diagram of Proposed Bromine Gas Scrubber

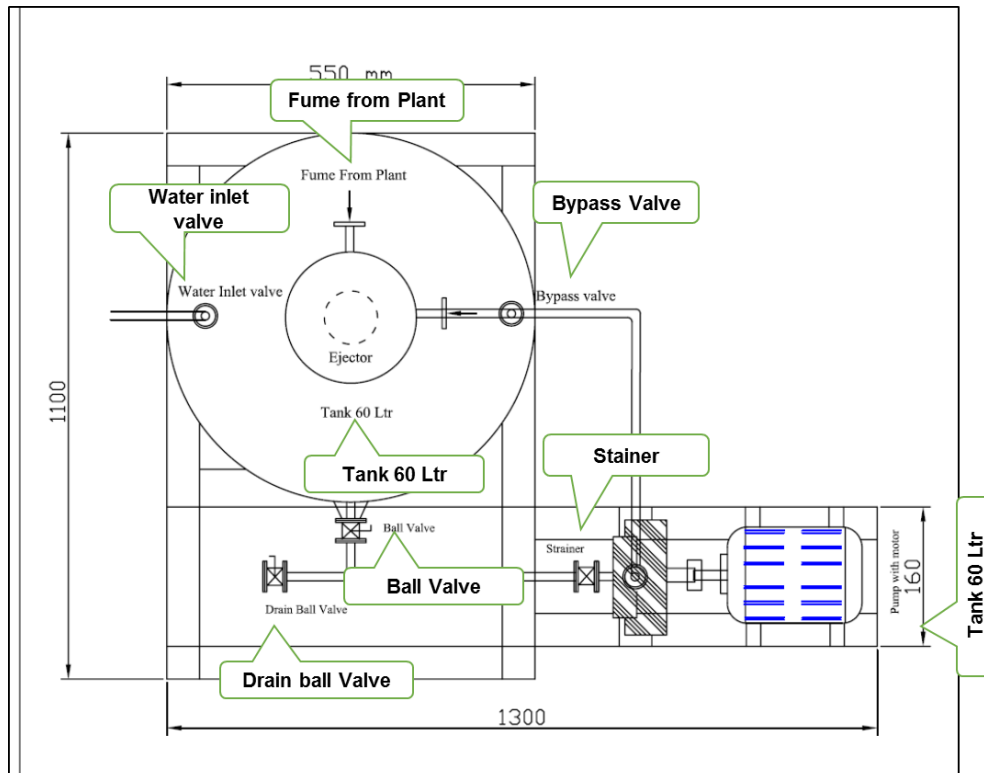


Figure 1: Venturi Scrubber [Top View]

1. First Stage Scrubbing

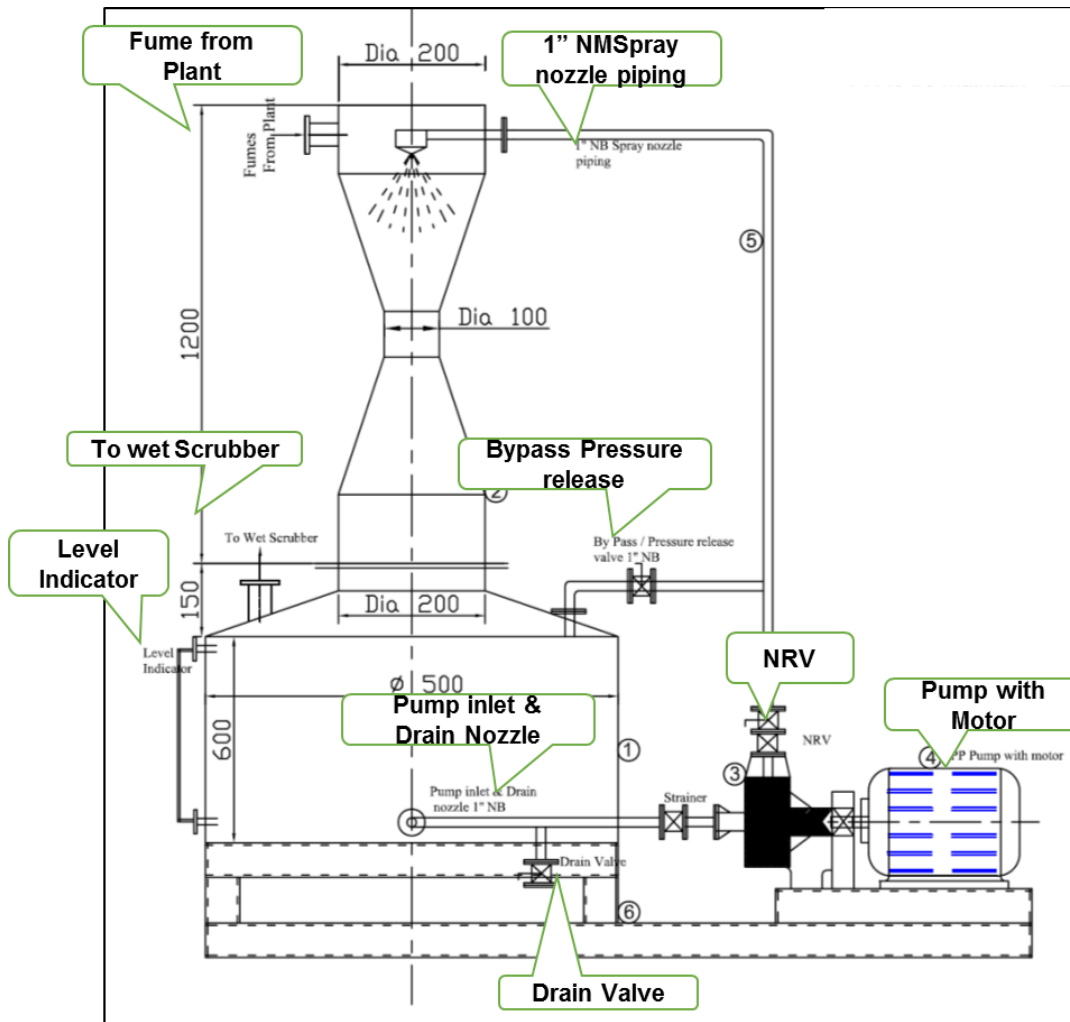


Figure 2: Cross Section of Venturi Scrubber

$$\text{Efficiency} = \frac{[\text{Outlet} - \text{Inlet}] * 100}{\text{Inlet}}$$

- Inlet = 14.5 ppm
- Outlet = 6.0 ppm

$$\begin{aligned} \text{Efficiency} &= \frac{[14.5 - 6.0] * 100}{14.5} \\ &= 58.62 \% \end{aligned}$$

2. Second Stage Scrubbing

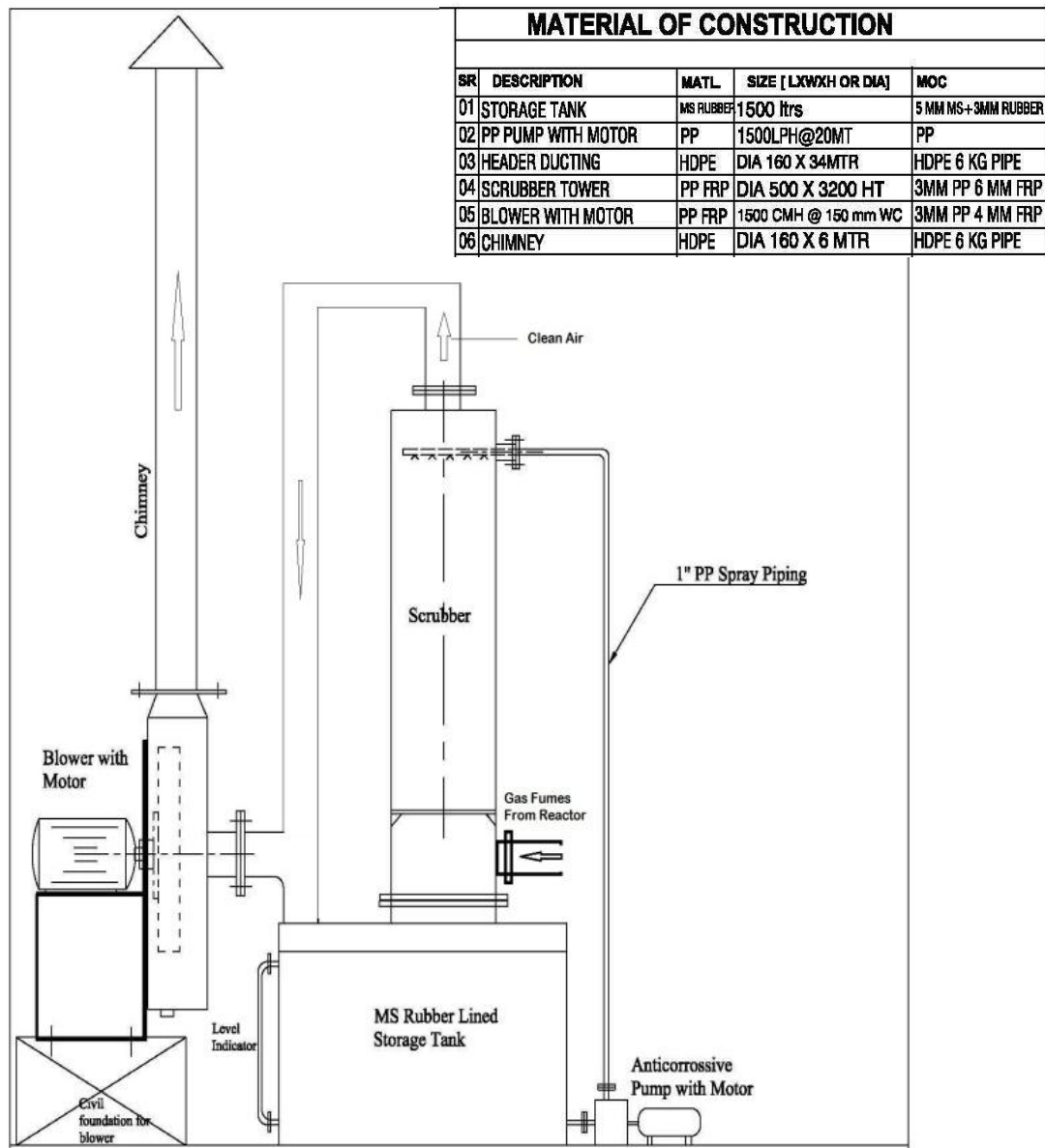


Figure 3: Tail Gas Scrubber [Wet Type]

$$\text{Efficiency} = \frac{[\text{Outlet} - \text{Inlet}] * 100}{\text{Inlet}}$$

- Inlet = 6.0 ppm
- Outlet = 0.2 ppm

$$\text{Efficiency} = \frac{[6.0 - 0.2] * 100}{6.0}$$

$$= 96.66 \%$$

Overall Efficiency [1st & 2nd Stage]

➤ *Efficiency: 98.62%*

C. Technical Specifications of Proposed Bromine Gas Scrubber

Sr. No.	Part name	Size	Qty	Technical Specification with MoC	Thickness [In mm PP+FRP]	Make/remark
1	PPFRP Caustic Storage Tank	Dia 500*750	1	PP FRp with required Nozzels	3+3	Airoteck
2	Venturi Scruber	Dia 200*1200	1	PP FRp with required Nozzels	3+3	Airoteck
3	Recirculation PP pump	STD	1	Cap- 0.5 m3/hr @ 3M Head	As per OEM	ANTICO
4	Motor for Pump	GD80	1	CGL make E2 1HP 1450RPM	As per OEM	CGL
5	Spray Nozzle Piping	1"NB	Lot	HDPE Pipe with Fittings and Ball valves	PN6	HDPE
6	Base Frame	As shown in diagram	1	Channel frame in 75*40*5mm	--	Airoteck

D. Bromine Inlet & Outlet Concentrations Calculations for Existing and Proposed Scrubber

Particulars	Existing Scrubber	Proposed Scrubber
Efficiency= [Outlet- Inlet] * 100/Inlet		
Inlet	14.5 ppm	14.5 ppm
Outlet	1.9 ppm	0.2 ppm (Max.)
Efficiency	86.89 %	98.62 %



Date: 31.10.2018

To,
The District Collector,
Opposite Sassoon Hospital,
Station Road, Pune, Maharashtra.

(Signature)
31/10/18
आवक/जावक लिपीक
जिल्हाधिकारी कार्यालय, पुणे

Subject: Regarding Corporate Environment Responsibility (CER) activities to be carried out within 10km radius (aerial distance) of our project site situated at Plot A-2, MIDC Kurkumbh, Tal: Daund, Dist.: Pune, Maharashtra 413802

Respected Sir,

We, M/s. Halides Chemicals Pvt. Ltd., have proposed expansion of our Existing Manufacturing Unit at Plot No. A-2, MIDC Kurkumbh, Tal: Daund, Dist.: Pune, Maharashtra 413802. For the said expansion, we need to procure Environmental Clearance from State Environment Impact Assessment Authority (SEIAA), Maharashtra as per EIA Notification 2006 and amendments thereof (**Attached as Annexure 1**).

Industry had prepared Environment Impact Assessment (EIA) report and presented the case before (State Expert Appraisal Committee) SEAC-1 on 26.07.2018 in its 153rd SEAC Meeting. As per new Office Memorandum published by MoEFCC, New Delhi on 1.05.2018 (**Attached as Annexure 2**) regarding applicability of CER and budget to be dedicated towards CER activities, our industry falls under brownfield project and total proposed additional cost of our expansion project is **4.07 Cr.** For the said reason we have to provide **1%** of the total additional project cost towards CER activities.

Hence, we have dedicated Rupees. **4.07 Lakh** for Corporate Environment Responsibility (CER) activities to be carried out in surrounding villages based on need assessment.

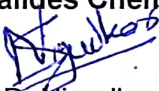
Details of activities which our Industry will carry out and total budget is provided below in Table. We request you to kindly guide us the name of the villages within 10km radius of our project site

1.	Providing Drinking Water Supply (RO)	4.07Lakh
2.	Sanitation (Providing Toilets in Villages, Donating Dustbins in Villages)	
3.	Health (Donation of some instruments in hospitals, camps for encouraging awareness regarding BMW waste generation and its proper disposal methods in hospitals to members and staff etc.)	
4.	Roads (Pucca Road for villages to reduce fugitive emissions)	
5.	Electrification Including Solar Power	
6.	Scientific Support and Awareness to Local Farmers to Increase Yield of Crop and Fodder	
7.	Rain Water Harvesting, Soil Moisture Conservation Works	
8.	Avenue Plantation	
9.	Plantation in Community Areas	
10.	Any Others	

Request you to kindly assist us on the same.

Yours faithfully,

For M/s. Halides Chemicals Pvt. Ltd.


Mr. Sanket D. Nigudkar
Director



Enclosure:

Annexure 1: EIA Notification 2006 and amendments thereof

Annexure 2: CER OM dated 1.05.2018



Date: 20.02.2019

To,
The Chairman,
State Level Expert Appraisal Committee I [SEAC - I],
15th floor, New Administration Building,
Department of Environment, Mantralaya,
Mumbai

Subject: Compliance submission of 157th (A) SEAC-I meeting 20th November 2018

Reference:

1. MoM of SEAC -I Meeting No. 157th (A) dated 20th November 2018

Respected sir,

As per the above mentioned reference, M/s. Halides Chemicals Pvt. Ltd. had presented its case to the SEAC-1 in 157th (A) SEAC-I meeting held on 20th November, 2018 and committee had appraised the project and recommended the proposal to SEIAA for prior Environmental clearance Herewith, industry is submitting point wise reply of 157th (A) SEAC-1 MoM along with all necessary documents.

Thanking you & regards,

For M/s. Halides Chemicals Pvt. Ltd.


Director

Enclosure:

1. **Annexure 1** – MSDS of Bromine
2. **Annexure 2** - Report on Carbon & Water Footprint
3. **Annexure 3** – Ack. of letter submitted to District Collector regarding CER Activities

Date: 31.10.2018

To,
The District Collector,
Opposite Sassoon Hospital,
Station Road, Pune, Maharashtra.


आवक/जावक लिपीक
जिल्हाधिकारी कार्यालय, पुणे

Subject: Regarding Corporate Environment Responsibility (CER) activities to be carried out within 10km radius (aerial distance) of our project site situated at Plot A-2, MIDC Kurkumbh, Tal: Daund, Dist.: Pune, Maharashtra 413802

Respected Sir,

We, M/s. Halides Chemicals Pvt. Ltd., have proposed expansion of our Existing Manufacturing Unit at Plot No. A-2, MIDC Kurkumbh, Tal: Daund, Dist.: Pune, Maharashtra 413802. For the said expansion, we need to procure Environmental Clearance from State Environment Impact Assessment Authority (SEIAA), Maharashtra as per EIA Notification 2006 and amendments thereof (**Attached as Annexure 1**).

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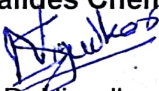
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1.	Providing Drinking Water Supply (RO)	4.07Lakh
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4.	Roads (Pucca Road for villages to reduce fugitive emissions)	
5.	Electrification Including Solar Power	
6.	Scientific Support and Awareness to Local Farmers to Increase Yield of Crop and Fodder	
7.	Rain Water Harvesting, Soil Moisture Conservation Works	
8.	Avenue Plantation	
9.	Plantation in Community Areas	
10.	Any Others	

Request you to kindly assist us on the same.

Yours faithfully,

For M/s. Halides Chemicals Pvt. Ltd.


Mr. Sanket D. Nigudkar
Director



Enclosure:

Annexure 1: EIA Notification 2006 and amendments thereof

Annexure 2: CER OM dated 1.05.2018

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 4010437/4020781
/4037124/4035273
Fax : 24044532/4024068 /4023516
Email : enquiry@mpcb.gov.in
Visit At : <http://mpcb.gov.in>



Kalpataru Point, 3rd & 4th floor, Sion- Matunga
Scheme Road No. 8, Opp. Cine Planet Cinema, Near
Sion Circle, Sion (E),
Mumbai - 400 022

Red / I.S.I

Consent No: Format 1.0/BO/AST/UAN No. 00000 34847/O-1803001221

Date: 23/3/2018

To,
M/s. Halide Chemicals Pvt. Ltd.,
Plot No. A-2, MIDC Kurkumbh,
Tal: - Daund, Dist.Pune.

Sub : Renewal of Consent to Operate in Red Category.
Ref: 1. Consent to operate granted vide no. BO/AST/EIC No.-PN-205861-14/R/4278 dated 16.04.2015 which was valid up to 31.05.2017.
Your Application: - MPCB-CONSENT-0000034847

Dated: 11.10.2017.

For Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous & Other Wastes (M & T M) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

- The consent is granted for a period up to 31.05.2019.
- The capital investment of the industry is 4.98 Cr. as per C.A. certificate submitted by the Industry.
- The Consent is valid for the manufacture of -

Sr. No.	Product / By-Product Name	Maximum Quantity	UOM
1.	N- Bromo Succinimide	30.0	MT/M
2.	N- Chloro Succinimide	20.0	MT/M
3.	N- Iodo Succinimide	3.0	MT/M

(Total production should not exceed 53 MT/M)

- Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. No.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	4.90	As per Schedule I	Zero Liquid Discharge
2.	Domestic effluent	8.40	As per Schedule I	On land gardening

- Conditions under Air (P& CP) Act, 1981 for air emissions:

Sr. No.	Description of stack / source	Number of Stack	Standards to be achieved
1.	Boiler	1	As per Schedule - II
2.	Boiler and Thermopack	1	As per Schedule - II
3.	D.G. Set (62.5 KVA)	1	As per Schedule - II

6. Conditions under Non Hazardous Solid Wastes for treatment and disposal of hazardous waste:

Sr. no.	Type of Waste	Quantity	UOM	Disposal
1.	Paper Bags	500	Kg/M	Sale
2.	Fiber Drums with lids	1200	No's/M	Sale

7. Conditions under Hazardous and other Waste (M & TM) Rules, 2016 for treatment and disposal of hazardous waste:

Sr. no.	Type of Waste	Category	Quantity	UOM	Treatment	Disposal
1.	Used /Spent Oil	5.1	0.8	KL/A	--	Sale to Authorized reprocessor/ CHWTSDF
2.	Spent Catalyst	28.2	3.6	MT/A	--	CHWTSDF
3.	Chemical Waste from WWT	34.3	3.0	MT/A	--	CHWTSDF

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
10. The industry shall not manufacture additional products or carry out extra production without obtaining prior permission of the Board.
11. This consent is issued as per the delegation of power to HOD's vide Board Office Order No. 31/2013 dtd.1/03/2013.

For and on behalf of the
Maharashtra Pollution Control Board

(P. K. Mirashe)
(P. K. Mirashe)

Asst. Secretary (Tech.)

Received Consent fee of -

Sr. No.	Amount (Rs.)	DD. No.	Date	Drawn On
1.	30,000/-	IHDF5309454036	21.04.2017	On Line Transfer

Copy to:

1. Regional Officer - MPCB Pune and Sub-Regional Officer - Pune-I,
- They are directed to ensure the compliance of the consent conditions
2. Chief Accounts Officer, MPCB, Mumbai.

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

- 1) A] As per your application, you have provided Effluent Treatment Plant (ETP) of designed capacity to 15.0 CMD consisting of Primary & Tertiary level treatment for the treatment followed by Reverse Osmosis and MEE.
- B] The treated effluent shall be treated into the ETP to achieve the Zero Liquid Discharge (ZLD). In no case, effluent shall find its way outside Company's premise.
- 1) A] As per your consent application, you have provided the septic tank followed by soak pit for the treatment sewage. Overflow, if any shall be applied on land for gardening purpose within premise.
- B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.
- | | | |
|-----------------------|---------------|-----------|
| (1) Suspended Solids. | Not to exceed | 100 mg/l. |
| (2) BOD 3 days 27°C. | Not to exceed | 30 mg/l. |
- C] The treated domestic effluent shall be used for gardening/plantation purpose within premises. There shall not be any discharge outside the factory premises.

- 3) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system and or extension or addition thereto.
- 4) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
- 5) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act:

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	15.0
2.	Domestic purpose	10.5
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	13.0
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	NIL
5.	Others: i) Gardening	20.0

- 6) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time.



Schedule-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have provided the Air pollution control (APC) system and also erected following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	SO ₂ Kg/Day
1.	Boiler	---	10	F.O.	1.0 KL/Day	10
2.	Boiler + Thermopak	---	14	LDO	1.45 KL/Day	10
3.	D.G. Set (160 KVA)	---	2.5*	HSD	37.0 Lit/Hr.	10
4.	Bromination /Chlorination plant	Scrubber with caustic lay	6	--	--	--
5.	Imide Formation	Water Scrubber	4.5	--	--	--
6.	Drying Section	Water Scrubber	4.5	--	--	--

(*-above the roof level of the building)

2. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Particulate matter	Not to exceed	150 mg/Nm ³ .
Chlorine	Not to exceed	3 ppm
Bromine	Not to exceed	3 ppm
NH ₃	Not to exceed	50 mg/Nm ³

15. The applicant shall provide specific Air Pollution control equipment's as per the conditions of EP Act, 1986 and rule made there under from time to time/Environmental Clearance/CREP guidelines.
16. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement well before its life come to an end or erection of new pollution control equipment.
17. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).



Schedule-III

Details of Bank Guarantees

Sr. No.	Bank Guarantee (C to E/O/R)	Amt. of BG imposed (existing)	Submission period	Purpose of BG	Compliance period	Validity period
1.	C to R	1.0 Lakh	Existing	Towards compliance of the Consent conditions	Existing	Upto 31/05/2019



Schedule-IV
General Conditions:

- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 3) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipment's, the production process connected to it shall be stopped.
- 4) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 5) The firm shall submit to this office, the **30th day of September every year**, the **Environmental Statement Report** for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 6) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW & other waste(M&TM) Rules 2016, which can be recycled /processed/reused/recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 7) The industry should comply with the Hazardous and other Waste (MH & TM) Rules, 2016 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous and other Waste (MH & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
- 8) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 9) **The applicant shall made an application for renewal of consent to operate well before 60 days before expiry of existing consent.**
- 10) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act,1981 and Environmental Protection Act,1986 and industry specific standard under EP Rules 1986 which are available on MPCB website(www.mpcb.gov.in).
- 11) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 12) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 13) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 14) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
- 15) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel
- 16) Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The

- measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
- c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel.
- 17) The industry should not cause any nuisance in surrounding area.
 - 18) 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 standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
 - 19) The applicant shall maintain good housekeeping.
 - 20) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a statement on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end, with the Environment Statement.
 - 21) The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
 - 22) The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipment's provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
 - 23) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
 - 24) The industry shall submit quarterly statement in respect of industries' obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can be downloaded from MPCB official site).
 - 25) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
 - 26) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
 - 27) The industry shall recycle/reprocess/reuse/recover hazardous waste as per the provision contained in the HW (M,H & TM) Rules 2016, which can be recycled/ processed/ reused/ recovered and only waste which has to be incinerated shall go to incineration and waste which cannot be used for land filling and cannot be recycled/ reprocessed etc. should go for that purpose in order to reduce load on incineration and landfill site/ environment.

सूचना

हॅलाईड्स केमिकल्स प्रा. लिमिटेड यांच्याद्वारे सूचना देण्यात येते की, हॅलाईड्स केमिकल्स प्रा. लिमिटेड यांनी औद्योगिक विस्तार प्रकल्प - प्लॉट नं. ए-२, एमआयडीसी कुरकुंभ, तालुका दौंड, पुणे येथे प्रस्तावित केला आहे. येथील प्रकल्पाला पर्यावरणीय दाखला मंजूर झाला आहे (SEIAA-EC-0000001458 dated 23rd April 2019) आणि या दाखल्याच्या प्रती महाराष्ट्र प्रदूषण नियंत्रण महामंडळाकडे उपलब्ध आहेत. तसेच या प्रती वने आणि पर्यावरण मंत्रालयाच्या (<http://ec.maharashtra.gov.in>) या वेबसाईटवर पाहता येतील.

ठिकाण : म. औ. वि. म. कुरकुंभ
दिनांक : १९/०७/२०१९

श्री. संकेत निगुडकर
(हॅलाईड्स केमिकल्स प्रा. लिमिटेड)

दिनांक :- १९/०७/२०१९

५६२१

NOTICE


Notice is hereby given by M/s, Halides Chemicals Pvt. Ltd. that proposed Industrial expansion project located at Plot No.A-2, MIDC Kurkumbh, Taluka -Daund, Pune has been accorded Environmental Clearance vide letter No. SEIAA-EC-0000001458 dated 23rd April 2019 and copy of the Clearance Letter is available with Maharashtra State Pollution Control Board and may also be seen on the website of the Department of Environment Maharashtra at <http://ec.maharashtra.gov.in>.

Kurkumbh, MIDC

Date : 20/07/2019

Mr. Sanket Nigudkar

(Halides Chemicals Pvt. Ltd.)

Daily  Pudkari.
Dt. 20/07/2019.

डुल
देव
से,
तोष
सह
करण
दीसी
वंत,
जल
तांबडे



Date: 11.10.2019

To,
Maharashtra Pollution Control Board
Jog Center, 3rd floor,
Mumbai Pune Road,
Wakdewadi,
Pune- 411003

Subject: Submission of EC letter

Reference: EC Letter Number: SEIAA-EC-0000001458 dated 23rd April 2019

Respected Sir,

As mentioned above, M/s. Halides Chemicals Pvt. Ltd. located at Plot No. A-2, MIDC Kurkumbh, Taluka -Daund, Pune had applied for EC with expansion in existing activity. Industry has obtained Environmental Clearance for the said project from Environment Department on 23rd April 2019. Herewith, submitting the copy of Environmental Clearance for your reference.

M/s. Halides Chemicals Pvt. Ltd. requests your good selves to ack. the same and oblige.

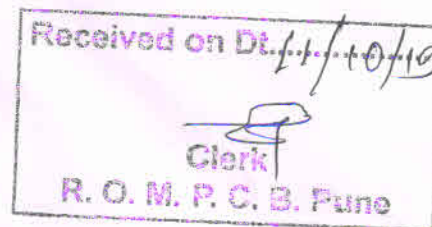
Thanking you,

For, M/s. Halides Chemicals Pvt. Ltd.

Authorized Signatory

Enclosure:

1. Environmental Clearance Letter





Chemicals Pvt. Ltd.
ISO 9001:2015 CERTIFIED
CIN - U24117PN1995PTC087338

To,
The Municipal Corporation,
Daund

Subject: Submission of EC letter

Reference: EC Letter Number: SEIAA-EC-0000001458 dated 23rd April 2019

Respected Sir,

As mentioned above, M/s. Halides Chemicals Pvt. Ltd. located at Plot No. A-2, MIDC Kurkumbh, Taluka -Daund, Pune had applied for EC with expansion in existing activity. Industry has obtained Environmental Clearance for the said project from Environment Department on 23rd April 2019. Herewith, submitting the copy of Environmental Clearance for your reference.

M/s. Halides Chemicals Pvt. Ltd. requests your good selves to ack. the same and oblige.

Thanking you,

For, **M/s. Halides Chemicals Pvt. Ltd.**

Authorized Signatory

Enclosure:

1. Environmental Clearance Letter

7/10/2019

Date:- 17/07/2019

To
The Deputy Engineer
MIDC
Kurkumbh, Tal - Daund,
Dist - Pune - 413 802.

Sub- : EC Copy.

Dear Sir,


With reference to above subject we submitting herewith EC copy No. SEIAA-EC- 00000001458, dt. 23.04.2019 for your reference.

Kindly acknowledge the same.

Regards,
For Halides Chemicals Pvt. Ltd.



Authorised Signatory

Received On 17/07/2019

Clerk, MIDC
Kurkumbh Sub Div.

Factory : A - 2, M. I. D. C., Kurkumbh, Tal. - Daund, Dist. - Pune - 413 802, INDIA
Tel. : +91-2117-235356 Fax : +91-2117-23662

Office : 3, Neelashri, Plot No.16, Lane No. 2, Prashant Co.Op.Society, Paud Road, Kothrud, Pune 411038, INDIA
Tel. : 020-25456520 Fax : 020-25465070 Email : info@halides-pltd.com Website : www.halides-pltd.com

Annexure 8: Screenshot of EC copy uploaded on company website



Project Solar Energy:

We at Halides are always keen to take up paths less travelled. Hence we decided to make good use of the solar energy available in Kurkumbh region owing to its dry and arid environment. We have installed Forbes Solar make solar water heating system with Sun tracking mechanism to supply preheated water to boiler. This will reduce the fuel load of the boilers thereby reducing the pollution by burning of the fuels. We have also installed solar streetlights in our campus.

Compliance:



Environmental Clearance for proposed expansion

Monitoring Report			
Project Details			
Project Name	HALIDES CHEMICALS PVT. LTD.		
Project Location	Kurkumbh, Dist. Solapur, Maharashtra		
Project Type	Expansion of Existing Plant		
Project Category	Greenfield / Brownfield		
Project Status	Operational		
Project Start Date	13.06.2019		
Project End Date	13.06.2019		
Project Duration	06 Months		
Project Budget	Rs. 100 Crores		
Project Sponsor	HALIDES CHEMICALS PVT. LTD.		
Project Manager	Mr. [Name]		
Project Address	[Address]		
Project Contact	[Contact]		
Project Email	[Email]		
Project Phone	[Phone]		
Project Fax	[Fax]		
Project Website	[Website]		
Project Social Media	[Social Media]		
Project Other	[Other]		
Monitoring Parameters			
No.	Parameter	Unit	Value
1	Temperature	°C	28.5
2	Humidity	%	65
3	Wind Speed	km/h	12
4	Wind Direction	°	135
5	Soil pH		7.5
6	Soil Moisture	%	15
7	Soil Temperature	°C	25
8	Water Level	m	10
9	Water Quality	ppm	100
10	Air Quality	ppm	100
11	Water Quality	ppm	100
12	Air Quality	ppm	100
13	Water Quality	ppm	100
14	Air Quality	ppm	100
15	Water Quality	ppm	100
16	Air Quality	ppm	100
17	Water Quality	ppm	100
18	Air Quality	ppm	100
19	Water Quality	ppm	100
20	Air Quality	ppm	100
21	Water Quality	ppm	100
22	Air Quality	ppm	100
23	Water Quality	ppm	100
24	Air Quality	ppm	100
25	Water Quality	ppm	100
26	Air Quality	ppm	100
27	Water Quality	ppm	100
28	Air Quality	ppm	100
29	Water Quality	ppm	100
30	Air Quality	ppm	100

Monitoring Report June 2019



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

Environmental Audit Report for the financial Year ending the 31st March 2018

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000011637

Submitted Date

20-09-2018

Company Information

Company Name

M/s. Halides Chemicals Pvt. Ltd.

Application UAN number

MPCB-CONSENT-0000034847

Address

Plot No. A-2, Daund, MIDC Kurkhumbh, Pune-413802

Plot no

Plot No. A-2

Taluka

Daund

Village

MIDC Kurkhumbh

Capital Investment (In lakhs)

498

Scale

SSI

City

Pune

Pincode

413802

Person Name

Mr. Sanket Nigudkar

Designation

Director

Telephone Number

020-25462755

Fax Number

020-25465070

Email

sanket.n@halideschemicals.com

Region

SRO-Pune I

Industry Category

Red

Industry Type

R22 Organic Chemicals manufacturing

Last Environmental statement submitted online

yes

Consent Number

Format1.0/BO/AST/UAN No. 0000034847/0-1803001221

Consent Issue Date

23.03.2018

Consent Valid Upto

31.05.2019

Product Information

Product Name	Consent Quantity	Actual Quantity	UOM
N-Bromo Succinimide	360	207	MT/A
N-Chloro Succinimide	240	31	MT/A
N-Iodo Succinimide	36	0.544	MT/A

By-product Information

By Product Name	Consent Quantity	Actual Quantity	UOM
NA	0	0	MT/A

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
Cooling	15	15
Domestic	10.5	10.5
All others	20	20

Total 58.5 58.5

1) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Daily quantity of trade effluent from the factory	4.90	4.90	CMD
Daily quantity of sewage effluent from the factory	8.40	8.40	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
N-Bromo Succinimide	0.00571	0.0579	CMD
N-Chloro Succinimide	0.00444	0.2709	CMD
N-Iodo Succinimide	0.00525	0.0	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Succinic acid	0.789	0.766	
Ammonia	0.131	0.127	
Liquid Bromine	0.408	0.395	
Sulphuric Acid	0.191	0.146	
Sodium Bromate	0.260	0.253	
Caustic Soda Lye	0.478	0.390	
Chlorine	0.818	0.760	
Acetic acid	0.423	0.414	
Iodine	1.388	1.276	
Ethylene Dichloride	5.128	5.026	

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
FO	365	150	KL/A
LDO	529.25	16	KL/A
Diesel	324.12	1.8	KL/A

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
pH (ETP)	NA	7.45	NA	5.5-9.0	Within limit
TSS (ETP)	0.049	<10	0	100 mg/l	Within limit
TDS (ETP)	0.0588	12	0	2100 mg/l	Within limit
BOD (ETP)	0.049	<10	0	100 mg/l	Within limit
COD (ETP)	0.049	<10	0	250 mg/l	Within limit

Oil and Grease (ETP)	0.0098	<2	0	10 mg/l	Within limit
Chlorides (ETP)	0.0380	7.76	0	600 mg/l	Within limit
Sulphates (ETP)	0.0049	<1	0	1000 mg/l	Within limit
pH (STP)	NA	7.70	0	5.5-9.0	Within limit
TSS (STP)	0.1000	12.0	0	100 mg/l	Within limit
TDS (STP)	2.5872	308.0	0	2100 mg/l	Within limit
BOD (STP)	0.1176	14.0	0	100 mg/l	Within limit
COD (STP)	0.3982	47.41	0	250 mg/l	Within limit
Oil and Grease (STP)	0.0168	<2.0	0	10 mg/l	Within limit
Chlorides (STP)	0.5055	60.18	0	600 mg/l	Within limit
Sulphates (STP)	0.4751	56.55	0	1000 mg/l	Within limit

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
TPM (DG Set 160 KVA)	0.01592	40.7	0	150 mg/Nm3	Within limit
SO2 (DG Set 160 KVA)	0.0006	0.18	0	10 kg/day	Within limit
TPM (Boiler s3 750 kg/hr)	0.1525	73.5	0	150 mg/Nm3	Within limit
so2 (Boiler S3 750 kg/hr)	0.0032	1.57	0	10 kg/day	Within limit
TPM (Reactor Scrubber Stack)	0.0079	27.1	0	150 mg/Nm3	Within limit
Bromine (Reactor Scrubber Stack)	0.0003	1.2	0	3 ppm	Within limit
TPM (FBD Scrubber)	0.005	25.3	0	150 mg/Nm3	Within limit
Bromine (FBD Scrubber)	0.0001	0.8	0	3 ppm	Within limit

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used /spent oil	0	1.325	KL/A
28.2 Spent catalyst / spent carbo	0	3.45	MT/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
34.3 Chemical sludge from waste water treatment	150.82	166.86	MT/A

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Paper Bags	0	0	MT/A
Fiber drums with lids	0	0	Nos./Y

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
---------------------------------	---	--	------------

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	KL/A

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

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used /spent oil	1.325	KL/A	NA
28.2 Spent catalyst / spent carbo	3.45	MT/A	NA
34.3 Chemical sludge from waste water treatment	166.86	MT/A	NA

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Paper Bags	0	MT/A	NA
Fiter drums with lids	0	Nos./Y	NA

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
NA	NA	NA	NA	NA	NA	NA

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Air Pollution Control System	Air Pollution Control System	15
Water Pollution Control System	Water Pollution Control System	75
Noise Pollution Control	Noise Pollution Control	9
Green Belt Development/ Maintenances	Green Belt Development/ Maintenances	2
Environmental monitoring / Environmental Management	Environmental monitoring / Environmental Management	2
Occupational health & safety	Occupational health & safety	5

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Air Pollution Control System	Air Pollution Control System	15
Water Pollution Control System	Water Pollution Control System	75
Noise Pollution Control	Noise Pollution Control	9
Green Belt Development/ Maintenances	Green Belt Development/ Maintenances	4

Environmental monitoring / Environmental Management	Environmental monitoring / Environmental Management	2
Occupational health & safety	Occupational health & safety	5

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

Particulars

ESR for FY 2017-2018

Name & Designation

Mr. Sanket Nigudkar (Director)

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 4010437/4020781
/4037124/4035273
Fax : 24044532/4024068 /4023516
Email : enquiry@mpcb.gov.in
Visit At : <http://mpcb.gov.in>

Kalpataru Point, 3rd & 4th floor, Sion- Matunga
Scheme Road No. 8, Opp. Cine Planet Cinema, Near
Sion Circle, Sion (E),
Mumbai - 400 022

Red/LSI

Date: 26/04/2019

Consent No: Format 1.0/BO/AST/UAN No. 0000066509/E-1904001139

To,
M/s. Halide Chemicals Pvt. Ltd.,
Plot No. A-2, MIDC Kurkumbh,
Tal: - Daund, Dist.Pune.

Sub : Consent to establish for expansion in Red Category.

Ref.: 1. Consent to operate granted vide no. Format 1.0/BO/AST/UAN No. 00000
34847/O-1803001221 dated 23.03.2018 which is valid up to 31.05.2019.
2. Your Application: - MPCB-CONSENT-0000066509 dtd. 05.02.2019

For Consent to establish under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous & Other Wastes (M & T M) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. The consent to establish is granted for a period up to: - Commissioning of the unit or 5 year whichever is earlier.
2. The capital investment of the industry is 4.07 Crores per C.A. certificate submitted by the Industry.
3. The Consent is valid for the manufacture of

Sr. No.	Product / By-Product Name	Maximum Quantity	UOM
1.	N-Bromosuccinimide	420	MT/A
2.	Bromo- OTBN (2-Cyano-4-Bromomethyl biphenyl)	600	MT/A
3.	2-Bromopropionic Acid	180	MT/A
4.	Propionyl Bromide	180	MT/A
5.	N- Hexyl Bromide	240	MT/A
6.	Tert- Butyl Bromoacetate	240	MT/A
7.	Sodium Bromide Solution [Na2SO4]	966	MT/A
8.	Hydrogen Bromide Solution in Water	695	MT/A
9.	Spent Iodine	21.52	MT/A
10.	Phosphorus Acid	84.36	MT/A

4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. No.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	9.30	As per Schedule I	Zero Liquid Discharge
2.	Domestic effluent	0.0	As per Schedule I	On land gardening

5. Conditions under Air (P& CP) Act, 1981 for air emissions:

Sr. No.	Description of stack / source	Number of Stack	Standards to be achieved
1.	Boiler (1TPH)	1	As per Schedule - II

6. Conditions under Non Hazardous Solid Wastes for treatment and disposal of hazardous waste:

Sr. no.	Type of Waste	Quantity	UOM	Disposal
1.	Paper Bags	15,000	Kg/A	Sold to authorized party
2.	HDPE drums (Large + Small)	5220	No's/A	Used to refill the by-products
3.	Fibre drums with lids	5232	No's/Y	Sold to authorized recycler
4.	STP Sludge	0.15	MT/Y	Used as manure

7. Conditions under Hazardous and other Waste (M & TM) Rules, 2016 for treatment and disposal of hazardous waste:

Sr. no.	Type of Waste	Category	Quantity	UOM	Treat ment	Disposal
1.	Used /Spent Oil	5.1	0.10	KL/A	--	Sale to Authorized reprocessor/ CHWTSDF
2.	Spent catalyst / spent carbon	28.2	4.40	MT/A	--	CHWTSDF
3.	Chemical Waste from WWT	35.3	497	MT/A	--	CHWTSDF
4.	Process waste sludge/residue	29.1	78	MT/A	--	CHWTSDF
5.	Contaminated cotton rags or other cleaning materials	33.2	180	Kg/A	--	CHWTSDF
6.	Discarded containers / barrels / liner	33.4	1680	No's/A	--	Sold to authorized recycler

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.

9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.

10. The industry shall not manufacture additional products or carry out extra production without obtaining prior permission of the Board.

11. Industry shall obtain Environmental Clearance from competent authority before taking any effective steps towards implementation of the project.

As per Para 2 of EIA notification dated-14/09/2006, the effective steps include starting of any construction work or preparation of land by the project management. However as clarified by the MoEF vide office memorandum no. J-1103/41/2006-IA. II(I); Dated-19/8/2010, fencing of the site to protect it from getting encroached & construction of temporary shed(s) for the guard(s) & acquisition of land shall not be treated as an effective steps.

Handwritten signature

12. This consent is issued as per the delegation of power to HOD's vide Board Office Order No. 31/2013 dtd. 01/03/2013.

For and on behalf of the
Maharashtra Pollution Control Board

P. K. Mirashe
26/4/19

(P. K. Mirashe)
Asst. Secretary (Tech.)

Received Consent fee of -

Sr. No.	Amount (Rs.)	DD. No.	Date	Drawn On
1.	15,000/-	PAXG7188379167	06.02.2019	On Line Transfer

Copy to:

1. Regional Officer -MPCB Pune and Sub-Regional Officer - Pune-I,
- They are directed to ensure the compliance of the consent conditions
2. Chief Accounts Officer, MPCB, Mumbai.

Maharashtra Pollution Control Board

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

- 1) A] As per your application, you have provided Effluent Treatment Plant (ETP) of designed capacity to 15.0 CMD consisting of Primary & Tertiary level treatment for the treatment followed by Reverse Osmosis and MEE.
B] The treated effluent shall be treated into the ETP to achieve the Zero Liquid Discharge (ZLD). In no case, effluent shall find its way outside Company's premise.
C] Industry shall provide online monitoring system viz. IP camera and flow meter for ensuring recycling and ZLD and its connectivity to MPCB server
- 2] A] As per your consent application, you have provided the septic tank followed by soak pit for the treatment sewage. Overflow, if any shall be applied on land for gardening purpose within premise.
B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.
 - (1) Suspended Solids. Not to exceed 100 mg/l.
 - (2) BOD 3 days 27oC. Not to exceed 30 mg/l.C] The treated domestic effluent shall be used for gardening/plantation purpose within premises. There shall not be any discharge outside the factory premises.
- 3) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or, in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system and or extension or addition thereto.
- 4) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
- 5) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters and other provisions as contained in the table below:

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	7.20
2.	Domestic purpose	0.0
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	0.69
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	NIL
5.	Others: i) Gardening	0.0

- 6) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time.

[Handwritten Signature]

Schedule-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have provided the Air pollution control (APC) system and also erected following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & HoM	SO ₂ Kg/Day
1.	Boiler (1TPH)	Stack	30.0	F.O.	1728 Kg/Day	155.52

2. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Particulate matter	Not to exceed	150 mg/Nm ³ .
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3. The applicant shall provide specific Air Pollution control equipment's as per the conditions of EP Act, 1986 and rule made there under from time to time/Environmental Clearance/CREP guidelines.
4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement well before its life come to an end or erection of new pollution control equipment.
5. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

Schedule-III
Details of Bank Guarantees

Sr. No.	Bank Guarantee (C to E/O/R)	Amount of BG imposed (existing)	Submission period	Purpose of BG	Compliance period	Validity period
1.	C to E/O/R	1.0 Lakh	Within 15 days	Towards compliance of the Consent conditions and not to take any effective steps till obtaining EC.	31.03.2024	Upto 30.07.2024



Schedule-IV
General Conditions:

- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 3) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipment's, the production process connected to it shall be stopped.
- 4) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 5) The firm shall submit to this office, the 30th day of September every year, the **Environmental Statement Report** for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 6) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and other Waste (M & TM) Rules, 2016, which can be recycled /processed/reused/ recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 7) The industry should comply with the Hazardous and other Waste (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazardous and other Waste (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
- 8) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 9) **The applicant shall made an application for consent to operate before starting actual production from the industry.**
- 10) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act,1981 and Environmental Protection Act,1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
- 11) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 12) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 13) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 14) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
- 15) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel
- 16) **Conditions for D.G. Set:-**
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The



measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.

- c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper sitting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel.
- 17) The industry should not cause any nuisance in surrounding area.
 - 18) 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 standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
 - 19) The applicant shall maintain good housekeeping.
 - 20) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a statement on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end, with the Environment Statement.
 - 21) The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
 - 22) The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipment's provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted, without prior consent of the Board.
 - 23) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
 - 24) The industry shall submit quarterly statement in respect of industries' obligation towards consent and pollution control compliance duly supported with documentary evidences (format can be downloaded from MPCB official site).
 - 25) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
 - 26) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
 - 27) The industry shall recycle/reprocess/reuse/recover hazardous waste as per the provision contained in the Hazardous and other waste (M & T M) Rules 2016, which can be recycled/ processed/ reused/ recovered and only waste which has to be incinerated shall go to incineration and waste which cannot be used for land filling and cannot be recycled/ reprocessed etc. should go for that purpose in order to reduce load on incineration and landfill site/ environment.



