

EC Compliance Report

SEIAA/GUJ/EC/5(F)/941/2018

Project Name:- M/s. Privi Organics India Limited. (Formaly known as a M/s. Yashvi Rasayan Pvt. Ltd.)

Address:- Plot no. 765, GIDC Estate, Jhagadia, Dist Bharuch, Gujarat.

Product Name :- Synthetic Organic Chemicals

Compliance Reporting Date: 14 July 2020

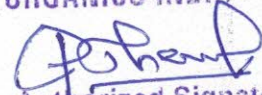
Sr.no.	Environment Clearance condition	
A.		
A-1	SPECIFIC CONDITIONS	COMPLIANCE STATUS
1.	Spent solvents (946.24 MT/month) shall be recovered by in-house distillation in such a manner that recovery shall not be less than 95 % and recovered solvent shall be completely reused in the process	Noted, Shall be complied
2.	Leak detection and repair program shall be prepared and implemented as per the CPCB guidelines.	Noted, Shall be complied
3.	Unit shall comply all the conditions & recommendations mentioned in the guidelines for the management of the spent solvents published by GPCB in letter and spirit.	Noted, Shall be complied
4.	Entire quantity of spent sulphuric acid - 30 to 40 % (553.6 MT/ Month) generated from the manufacturing process (Carvacrol- 211.49 MT/Month, Ethyl Fruittate ./ Fruberry - 342.3 MT/Month, Maltol - 71.7 MT/month) shall be converted to conc. Sulphuric acid and it shall be sold out to GPCB authorized and users who are authorized to receive the waste stream as a raw material as per the rule 9 of Hazardous and other	Noted, Shall be complied
5.	Entire quantity of column tops (21731.19 MT/Month) and column bottom mass (17671.56 MT/M) generated from the manufacturing process shall be sold out to GPCB authorized and users who are authorized to receive the waste stream Rule 2016 after obtaining prior permission from CPCB/SPCB/ PCC.	Noted, Shall be complied
6.	Above mentioned wastes qualifying the hazardous and other wastes rule 2016 and its amendment time to time shall only be sold only to the potential users who are authorized by the competent authority (MoEF&CC/CPCB/SPCB)	Noted, Shall be complied
7.	The unit shall submit the list of authorized end users of above mentioned wastes along with MoU signed with them at least two moth in advance prior to commencement of production In absence of potential buyers of these items, the unit shall restrict the production of respective item.	Noted, Shall be complied
8.	Unit shall provide continuous emission monitoring system and an arrangement shall also be done for reflecting the online monitoring results on the company's server, which can be assessable by the GPCB on real time basis.	Noted, Shall be complied
9.	Unit shall comply all the condition & recommendations mentioned in the guidelines for the coal handling units published by GPCB in letter and spirit.	Noted & complied
10.	All measures shall be taken to prevent soil and ground water contamination.	Noted & complied
A-2 WATER		
11.	Total water requirement for the project shall not exceed 710.54 Kill/day. Unit shall reuse 17.42 Kill/day of treated waste water for utility section. Hence, freshwater requirement shall not exceed 693.1 Kill/day and it shall be met through GI?DC water supply only. prior permission from the concerned authority shall be obtained for withdrawal of water.	Noted & Shall be complied
12.	The industrial effluent generation from the project shall not exceed 250.5 Kl/day.	Noted & Shall be complied
13.	The domestic waste water generation shall not exceed 22.4 Kl/day and it shall be treated with industrial waste water within premises.	Noted & complied
14.	The industrial wastewater i.e. Process water (High COD/TDS) + Process water (High TDS)+ RO Reject (42.41 + 37.21+ 5.5 = 85.12 KILL/day) shall be treated in multiple effect evaporator MEE (Capacity 5 Kill/Hr).	Noted & Complied,
15.	Total 272.92 KLD (MEE condensate (84.5 KLD) & Domestic + Cooling Tower make up + Boiler Blow Down + Process water + Aq. Layer from stripper + Scrubber (22.4 + 28 + 14 + 116.52 + 6.5 + 1= 188.42 KLD) shall be treated in ETP comprises of Primary, Secondary and tertiary treatment plants.	Noted, Shall be complied
16.	Part of treated effluent i.e. (22.9 Kl/ Day) shall be treated in RO system (Capacity 5 Kl/Hr) from which RO permeate i.e. 17.42 KILL/Day shall be reused in plant for utility section and RO reject i.e. 5.5 kl/day shall be treated in MEE.	Noted, Shall be complied
17.	Remaining treated waste water (250 Kl/day) shall be discharged to deep sea through underground pipeline of Narmada Clean Tech Ltd. after achieving GPCB norms.	Noted, Shall be complied

35.	The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time. Following indicative guidelines shall also be followed to reduce the fugitive emission.					Noted, & Complied	
	* Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission						
	* Air borne dust shall be controlled with water sprinklers at suitable locations in the plant.						
	* A green belt shall be developed all around the plant boundary and also along the roads to mitigate						
	* Enclosure shall be provided at fuel loading and unloading operations.						
	* Solid fuel and fly ash shall be transported through covered trucks only.						
36.	Regular monitoring of volatile organic compound shall be carried out in the work zone area and ambient air.					Noted & Complied	
37.	For control of fugitive emission, VOCs, following steps shall be followed.					Noted & Complied	
	a. Closed handling and charging system shall be provided for chemicals.						
	b. Reflux condenser shall be provided over reactors/ vessels.						
	c. Pumps shall be provided with mechanical seals to prevent leakages.						
38.	Airborne dust at all transfers operations/ points shall be controlled either by spraying water or providing						
39.	Regular monitoring of ground level concentration of PM10, PM2.5, SO2, NOx and VOC shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and					Noted & Complied	
A-4	SOLID/HAZARDOUS WASTE:						
40.	Solid/ Hazardous waste management shall be as below.					Existing We are sending our Hazardous waste to TSDF site As per existing CC&A & As proposed in EC will be complied in future.	
	Sr. No	Type/ Name of Hazardous waste	Source of generation	Category and schedule as per HW rules.	Quantity MT/Annum		Disposal method
	1	Chemical sludge from waste water treatment.	ETP		35.3 492		Collection, storage, transportation, Disposal at tsdf-BEIL
	2	Used Oil/ Spent Oil	From pumps Etc		5.1 9.72		Collection storage transpiration, disposal by selling authorized vendor or recycler.
	3	Discarded containers MS/ HDPE Drums IBC's Carboys and bag/ liners	From RM/FG storage yard		33.1 60000 No./ Year and 84000 No. / Yr.		Collection storage transpiration, disposal by selling authorized vendor or recycler.
	4	Spent Catalyst	From process		26.5 120		Collection, storage Transpiration & sent to regeneration
	5	Process waste & tarry waste	From ETP/ Stripper etc		26.1 120		Collect storage transportation & sent for co-processing in cement industries or incineration at CHWIF
	6	Sludge from concentration Techniques	MEE		35.3 8870.4		Collection storage transpiration & disposal at TSDF of BEIL
	7	Discarded Asbestos	---		15.2 0.18		Collection, storage, transpiration & disposal at incineration at CHWIF
	8	Waste or residue containing oil (Oil soaked gaskets and cotton waste, filter pads)	---		5.2 1.2		Collection, storage transpiration & disposal at incineration at CHWIF
	9	Spent resin	From process	--			152.4 Collection, storage Transpiration & disposed to BEIL
	10	Dilute sulphuric acid	Form process		26.3 6643.2		Converted to conc. Sulphuric acid and sell to end user having rules-9 permission under HWM rules, 2016
	11	Spent solvent	From process		26.4 11354.88		Company will distill it then completely reuse in process.
	12	Column Bottom mass	From process	--			17671.56 Sale to CPCB registered vendor having Rules-9 permission under HWM rules, 2016.
	13	Column Top mass	From Process	--			21731.19 Sale to CPCB registered vendor having Rule-9 permission under HWM Rule 2016
	14	Acetic acid solution (37-40%)	Form process		26.3 5589.6		Sale to CPCB registered vendor having rule-9 Permission under HWM rule 2016.
	15	Sodium acetate solution	From process	--			8686.08 Sale to CPCB registered vendor having rules-9 Permission under HWM Rule 2016
	16	Fluor boric acid solution	From Process	--			4167.48 Sale to CPCB registered vendor having rules 9 permission under HWM rule- 2016
	17	NaBF4	From process	--			874.44 Sale to CPCB registered vendor having rules-9 permission under HWM Rules 2016.
	18	KBF4	From process	--			986.04 Sale to CPCB registered vendor having rules 9 permission under HWM rule- 2016
	19	Recovered Formic acid	From process	--			63105.6 Sale to CPCB registered vendor having Rules - 9 Permission under HWM rule 2016
	20	Magnesium Chloride salt	From process	--		20283.96 Sale to CPCB registered vendor having Rules-9 Permission under HWM Rule - 2016	
	21	Sodium Hydroxide solution	From process	--		20314.56 Sale to CPCB registered vendor having rule - 9 Permission under HWM rule-2016	
A-5	OTHER						

61	Hazardous waste shall be dried, packed and stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.	
62	The unit shall obtain necessary permission from the nearby TSDF site and CHWIF.	Noted & Complied
63	Trucks/ Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the motor vehicle act, 1988, and rules made there under.	Noted & Complied
64	The design of the trucks/tankers shall be such that there is no spillage during transportation.	Noted & Complied
65	All possible efforts shall be made for Co- Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.	Noted & Complied
66	Management of fly ash shall be as per the fly ash notification 2009 & Its amendment time to time and it shall be ensured that there is 100 % utilization of fly ash to be generated from the unit.	Noted. Shall be complied
B-2.4	SAFETY	
67	The occupier/ manager shall strictly comply the provisions under the factories act 1948 and the Gujarat factories rules 1963.	Noted, & Complied
68	The project authorities shall strictly comply with the provisions made in Manufacture, Storage and import of Hazardous chemicals rule (MHIHC) 1989, as amended time to time and the public liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief controller of Explosives and concerned Govt, Authority shall be obtained before commission of the project. Requisite On- Site and Off- site Disaster Management plans have to be prepared and implemented.	Noted, & Complied
69	Main entry and exit shall be separate and clearly marked in the facility.	Noted, Shall be complied
70	Sufficient peripheral open passage shall be kept in the margin area for free movement of Fire tender/ emergency vehicle around the factory.	Noted & Complied.
71	Storage of flammable chemicals shall be sufficiently away from the production area.	Noted, Shall be complied
72	Sufficient number of fire extinguisher shall be provided near the plant and storage area.	Noted & Complied.
73	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic/ hazardous chemicals.	Noted & Complied.
74	All the toxic/ Hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activity.	Noted & Complied
75	The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the risk assessment report.	Noted & Complied.
76	Only flame proof electrical fittings shall be provided in the plant premises.	Noted & Complied.
77	Storage of Hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks / containers instead of one single large capacity tank/ Container.	Noted, Shall be complied
78	All the storage tank shall be fitted with appropriate controls to avoid any leakages. Bund/ dyke wall shall be provided for storage tanks for hazardous chemicals.	Noted, Shall be complied
79	Handling the charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.	Noted & Shall be complied
80	Tie up shall be done with nearby health care unit/ doctor for seeking immediate medical attention in the case of emergency.	Noted & Shall be complied
81	Personal protective equipments shall be provided to workers and its usage shall be ensured and supervised.	Noted & Complied
82	First aid box and required antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.	Noted & Complied
83	Training shall be imparted to all the workers on safety and health aspects of chemicals handling.	Noted & Complied
84	Occupational health surveillance of the workers shall be done and its records shall be maintained, Pre employment periodical medical examination for all the workers shall be undertaken as per the factories act & rules.	Noted & Complied
85	Transportation of hazardous chemicals shall be done as per the provisions of the motor vehicle act & rule.	Noted & Complied
86	The company shall implement all preventive and mitigation measures suggested in the risk assessment report.	Noted & Complied
87	Necessary permissions from various statutory authorities like PESO, Factory inspectorate and others shall be obtained prior to commissioning of the project.	Noted & Complied
B-2.5	Noise	
88	The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall conform to the standards prescribed under the environment act, 1986 & rules.	Noted & Complied
B-2.6	Cleaner production and waste minimisation	

110	The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the website of SEIAA/SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers each of the same shall be forwarded to the concerned regional office of the Ministry.	Noted & Complied (Published in one local language and one english news paper)
111	It shall be mandatory for the project management to submit half yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, On 1st June and 1 st December of each calendar year.	Noted.
112	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environmental protection act 1986.	Noted.
113	The project authorities shall also adhere to the stipulations made by the GPCB.	Noted.
114	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	Noted
115	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.	Noted
116	The project authorities shall inform the GPCB, regional office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Noted
117	This environmental clearance is valid for seven years from the date of issue.	Noted.
118	Any appeal against this environmental clearance 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.
119	Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance cancelled.	Noted.
END OF REPORT		

For, PRIVI ORGANICS INDIA PVT. LTD.


Authorized Signatory