

F. No. IA-J-11011/6/2017-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(IA- II Section)

Indira Paryavaran Bhawan
Jorbagh Road, New Delhi - 3

Dated: 26th July, 2018

To

M/s PI Industries Ltd (Unit-II)
Plot No. SPM-29, Sterling SEZ & Infrastructure Ltd
Post Sarod, Taluka Jambusar
District **Bharuch** (Gujarat) - 392180

Sub: Setting up Pesticides, Pesticide Intermediates and Fine Chemicals Manufacturing Unit at Plot No. SPM-29, Sterling SEZ & Infrastructure Ltd, Post Sarod, Taluka Jambusar, District Bharuch (Gujarat) by M/s PI Industries Ltd (Unit-II) - Environmental Clearance - reg.

Sir,

This has reference to your proposal No. IA/GJ/IND2/61491/2017 dated 7th March, 2018 submitting the EIA/EMP report on the above subject matter.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for setting up pesticides, pesticide intermediates and fine chemicals manufacturing unit of total capacity 43240 TPA by M/s PI Industries Ltd (Unit-II) in a total area of 87300 sq.m at Plot No. SPM-29, Sterling SEZ & Infrastructure Ltd, Post Sarod, Taluka Jambusar, District Bharuch (Gujarat).

3. Industry proposed to develop greenbelt in 33 % of the total area i.e. 28810 sqm. The estimated project cost is Rs. 393.0 crores. Total capital cost earmarked towards environmental pollution control measures will be Rs. 26.0 crores and the recurring cost (operation and maintenance) will be about Rs.6.85 crores per annum. Total employment including direct and indirect will be 300 persons. Industry proposes to allocate Rs.9.825 crores towards Corporate Social Responsibility.

4. There are no National parks, Wildlife sanctuaries, Biosphere reserves, Tiger/Elephant reserves, Wildlife corridors etc. within 10 km from the project site. Coastal area of Gulf of Cambay is at 2.5 km from project site.

5. The details of products and by-products are as under:-

S. No	Product	IUPAC Name	Quantity (TPA)
A Pesticides and Intermediates			
Insecticides and Intermediates			4800
1	Amino Triazines		
a	THM	Bis (1,2,3 - Trithiacyclohexyl Dimethyl Ammonium) Oxalate	
2	Diamides		
a	Flub	3-Iodo-N2-(2-Methyl-1-(Methyl sulfonyl) Propan-2-yl)-N1-(2-Methyl-4-(Perfluoropropan-2-yl) phenyl) Phthalamide	
b	SOD	N2-(2-Methyl-1-(Methylsulfinyl)propan-2-yl)-	



		N1-(2-Methyl-4-(perfluoropropan-2-yl)phenyl) phthalamide	
c	MMTPA/SAA	2-Methyl 1-Methylthio-2-Propanamine	
3	Hydazinopyridine		
a	CHDP	3-Chloro-2-Hydrazino Pyridine	
4	Nicotinamides		
a	TFNA	2,6-Dichloro-4-(Trifluoromethyl) pyridine-3-Carbonitrile	
5	Nitroguanidines		
a	BNHT	5-Benzyl-1-Methyl, 2-Nitro 2 imino-tetrahydro 1, 3, 5-triazan.	
b	AETF	3-Amino methyl Tetrahydrofuran	
6	Organophosphorus Insecticide		
a	MTN	3-(Dimethoxy Phosphinothioyl sulfanyl methyl) -5-Methoxy-1,3,4-thiadiazol-2-one	
7	Phenyl organo thiophosphate		
a	PTF	(RS)-(O-2,4-Dichlorophenyl O-Ethyl S-Propyl Phosphorodithioate)	
8	Phthalimides		
a	PMT	Phosmet	
9	Pyrazole-diamides		
a	Q4039	3-Methyl Antranilic Acid	
b	YB449	3-Methyl-2-Nitrobenzoic acid	
c	DPX	2-Amino-5-Chloro-N,3-Dimethyl Benzamide	
d	BPCA	3-Bromo-1-(3-Chloropyridin-2-yl)-1H-pyrazole-5-Carboxylic Acid	
10	Quinazoline		
a	FNZQ	3-[2-[4-(1,1-Dimethylethyl) phenyl] ethoxy] Quinazoline	
11	Quinoliny carbonates		
a	FMTQ	2-Ethyl-3,7-Dimethyl-6-[4-(trifluoromethoxy) phenoxy]-4-Quinolyl Methyl Carbonate	
12	Thiazolidines		
a	CCITM	Dimethyl Cyano Dithioimido Carbonate	
b	CCMP	2-Chloro-5-Chloromethyl Pyridine	
Herbicides and Intermediates			5650
1	Alkylazines		
a	DMI	2,6-Dimethylindanone	
b	DMAI	2,6-Dimethyl-2,3-Dihydro-1H-inden-1-amine	
2	Amide-triazolones		
a	IAT	3H-1,2,4-Triazol-3-one, 4-amino-2,4-dihydro-5-(1-methylethyl)-	
3	Aryloxyphenoxy propionates		
a	FPES	Ethyl(2R)-2-{4-[6-chloro-1,3-benzoxazol-2-yl]oxy} phenoxy} propanoate	
4	Benzoyl cyclohexanediones		
a	AE 473	(2-{2-chloro-4-mesyl-3-[(RS)]-tetrahydro-2-furylmethoxymethyl} benzoyl)-cyclohexane-1, 3-Dione)	
b	Tembutrion	2-{2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl}cyclohexane	

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		-1,3-dione	
c	747 Either	2-Chloro-4-(methyl sulfonyl)-3-[(2, 2, 2-trifluoroethoxy) methyl] Benzoic acid	
d	2C6SMT	3-Chloro-2-Methylthioanisole	
5	Furanones		
a	FLURT	5-(Methylamino)-2-Phenyl-4-[3-(Trifluoromethyl) phenyl] furan-3(2H)-one	
6	Intermediate of Herbicide		
a	MTAA	Methyl (methylthio) Acetate	
7	Active nitrile Herbicide		
a	PYCL	1-(3-Chloro-4,5,6,7-tetra hydro-pyrazolo [1,5-a] pyridin-2-yl)-5-[methyl (prop-2-ynyl)amino] pyrazole-4-carbonitrile	
8	Oxazinones		
a	MY-100	3-[1-(3,5-dichlorophenyl)-1-methylethyl]-3,4-dihydro-6-methyl-5-phenyl-2H-1,3-oxazin-4-one	
9	Oxazoles		
a	Lake Palace	3-[[2,5-dichloro-4-ethoxyphenyl) methyl] sulfonyl]-4,5-dihydro-5,5-dimethylisoxazole	
10	Oxazolidinediones		
a	KPP	Pantoxazone	
11	Phosphinates		
a	MPBS	Methyldichlorophosphine	
12	Pyrimidinediones		
a	PCM	N-(2 Chloro-4 Fluoro-5-((ethoxy carbonyl)-amino)-benzoyl)-N-iso-propyl-N-methyl-sulfamid	
b	EATB	Ethyl 3-amino-4,4,4-trifluorobut-2-enoate	
13	Pyrimidinyloxybenzoic acid		
a	Bispyribac sodium	2,6-bis(4,6-dimethoxypyrimidin-2-yloxy)benzoic acid	
14	Pyrimidinylsulfonylurea		
a	FRSF	N,N-Dimethyl-2-[N-[N-(4,6-dimethoxy pyrimidin-2-yl)-Amino carbonyl] Amino sulfonyl]-4-(N-formylamino) benzamide, sodium salt	
b	ESPS	3-ethylsulfonyl-2-pyridine sulfonamide	
15	Sulfonylurea		
a	AMSB(Mesyamide)	Methyl 2-Amino-4-[[methyl sulfonyl)amino] methyl] benzoate	
b	OTMA	2-(Trifluoro Methoxy) Aniline	
16	Triazines		
a	CNZ	Cyanazine	
17	Triazopyrimidine sulfonamides		
a	DTPBS	N-(5,8-Dimethoxy [1,2,4] Triazolo [1,5-c] pyrimidine-2-yl)-2-Fluoro-6-(Trifluoro Methyl) Benzene Sulfonamide	
Fungicides and intermediates			3550
1	Active amide Fungicides		
a	SSF-126/OXIME	(2E)-2-(methoxyimino)-N-Methyl-2-(2-Phenoxy Phenyl) Acetamide	
b	TRFRN	N,N'-[1,4-Piperazinediyl]-bis(2,2,2-Trichloro	

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		Ethylidene)]-Bis-[Formamide]
c	FNXL	N-(1-Cyano-1,2-Dimethylpropyl)-2-(2,4-Dichlorophenoxy) Propanamide
d	MIPD	(1E)-1-(2,5,5-Trimethyl-1,3-dioxan-2-yl) Propane -1,2-dione 1-(O-Methyloxime)
e	ORST	Orysastrobin
2	Benzamides	
a	ZXMD	(RS)-3,5-Dichloro-N-(3-Chloro-1-Ethyl-1-Methyl-2-Oxopropyl)-p-Toluamide
3	Carboxamides	
a	AMB	3,4,5-Trifluoro-Amino biphenyl
4	Organophosphates	
a	KTZ(Kitazin)	S-benzyl O,O-Diisopropyl Phosphorothioate
5	Pyridine Fungicides	
a	CTPE	2-[3-Chloro-5-(Trifluoro methyl) Pyridin-2-yl] Ethanamine
6	Pyrimidines	
a	AZST	Methyl (E)-2-{2-[6-(2-Cyanophenoxy) pyrimidin-4-yloxy] phenyl}-3-Methoxy acrylate
7	Quinoxalines	
a	CMTH	4-(Methoxy-6-(trifluoro methyl)-1,3,5-triazin-2-amine
8	Triazoles	
a	IPCZ	(1RS, 2SR, 5RS; 1RS, 2SR, 5SR)-2-(4-Chlorobenzyl)-5-Isopropyl-1-(1H-1,2,4-triazol-1-ylmethyl) Cyclopentanol
b	FTL	1-(2-Fluorophenyl)-1-(4-Fluorophenyl)-2-(1, 2, 4-Triazol-1-yl) Ethanol
c	FOX	2-(2-Fluorophenyl)-2-(4-Fluoro phenyl) Oxirane
d	IBCZ	(4-Chlorophenyl) Methyl N-(2,4-Dichlorophenyl)-1H-1,2,4-Triazole-1-Ethanimidothioate

B Synthetic Organic Chemical

Fine Chemicals

7500

1	Substituted Anthraanilic acid	
a	ACBM	2-Amino-3-Chlorobenzoic Acid Methyl Ester
2	Substituted 1,2,4-Triazole	
a	AMT	5-Amino-1,2,4-Triazole-3-thiol
3	Substituted tetrahydo pyran	
a	ATHP	1-(Tetrahydropyran-4-yl) Ethanone
4	Dimethyl halo substituted benzene	
a	CDMA	4-Chloro-2,6-Dimethyl Aniline
b	CDMB	4-Chloro 2,6-Dimethyl-Bromo benzene.
5	Substituted cyclopropyl ethanone	
a	CPFK	1-Cyclopropyl-2(2 Fluorophenyl) Ethanone
6	Substituted alkyl diamine	
a	DAEEA	N,N'-Bis(2-Hydroxyethyl) Ethylene Diamine
7	Substituted dihalo pyridine	
a	DCTFP	2,3-Dichloro-5-(Trichloromethyl) Pyridine

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8	Substituted dimethyl dioxane methanol		
a	DHD	2, 2-Dimethyl-5-Hydroxymethyl-1, 3-Dioxane	
9	Substituted Butanone		
a	DMB	4,4-Dimethoxy-2-Butanone	
10	Substituted Butanoic acid		
a	EMBA	2-Ethyl-2-Methyl Butanoic acid	
11	Substituted Hydrazine		
a	MMH	Mono Methyl Hydrazine	
b	UDMH	1,1,-Dimethyl Hydrazine	
C	SDMH	1,2-Dimethyl Hydrazine	
12	Substituted Phenothiazine		
a	10-H Phenothiazine	10-H Phenotiazine	
13	Substituted diphenyl ether		
a	Metaphenoxy benzaldehyde	3-Phenoxy Benzaldehyde	
14	Phosgene	Carbonyl dichloride	
Pyrazoles			5500
1	n-alkyl 3,4,5 substituted pyrazoles		
a	PFD	N-{3-Isobutyl-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl) ethyl] phenyl}-1,3,5-Trimethyl Pyrazole -4- Carboxylic Amide	
b	TBFN	4-Chloro-N-[[4-(1,1-Dimethylethyl) Phenyl] Methyl]-3-Ethyl-1-Methyl-1H-Pyrazole-5-Carboxamide	
c	TLF	Tolfenpyrad	
d	IBA	3-Isobutylanoline	
e	OCTOPUSSY	3-[[[5-(Difluoro methoxy)-1-methyl-3-(Trifluoromethyl)-1H-pyrazol-4-yl] methyl] sulfonyl]-4,5-Dihydro-5,5-Dimethyl isoxazole	
f	MY-71	3-[1-(3,5-Dichlorophenyl)-1-Methylethyl]-3,4-Dihydro-6-Methyl-5-Phenyl-2H-1,3-oxazin-4-one	
g	MTP	1-Methyl-3-(Trifluoro methyl)1H-Pyrazol-5-ol	
h	DCPA	1,3-Dimethyl-5-Chloro-4-Pyrazolyl Carboxylic Acid Chloride	
i	CFPA	3,4-Dichloro-5-Fluoro Biphenyl-2-Amine	
j	ACH	3-(Difluoro Methyl)-1-Methyl-1H-Pyrazole-4-Carboxylic Acid	
k	BDB	4-Bromo- 1,2-Dichloro Benzene	
l	PRZ	Difluoro Methyl-N-Methyl Pyrazolic acid	
Fluoro-speciality products			2000
1	Fluoro substituted alkyl amine		
a	DFEA	2,2-Difluoro Ethylamine	
Specialty Chemicals			1000
1	Substituted cyclohexane carboxylate		
a	ETMD	Methyl cis-1-[2-(2,5-Dimethyl phenyl)-Acetyl amino]-4-Methoxy-Cyclohexane Carboxylate	
2	Hepta Fluoro Alkane		
a	HFMOP	1,1,1,3,3,3-Hexafluoro Isopropyl Methyl	

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		Ether	
3	Substituted 1,3-dioxalane		
a	MDO	2,2-Dimethyl-4-Methylene-1,3-Dioxalane	
4	Substituted Isobutyrate		
a	CMIBA	Chloromethyl 2-Methyl Propanoate	
5	Substituted phenyl ether		
a	CMTB	2-Chloro-4-(Methyl sulfonyl)-3-[(2,2,2-trifluoro ethoxy) methyl] Benzoic Acid	
Performance Chemicals			13000
1	Substituted phenyl morpholine Ketone		
a	PCBM	1-(4-Chlorophenyl)-2-methyl-2-(morpholin-4-yl)propan-1-one	
2	Catechol mixed salt		
a	Negolyte	Titanium Biscatecholate Monopyrogallate Sodium Potassium Salt	
New R&D product for Pilot scale			240
Total			43240

By-Products

S. No	List of By-products	Quantity (TPA)
1	27% NaSH	1000
2	30 % HCl	12000
3	Ammonia Solution 15%	1000
4	H ₂ SO ₄	300
5	Distill Solvent	6900
6	Sodium Propionate	2400
7	NaBr/MgBr	60000
8	Acetic Acid	1200
9	Orthocresol	300
10	Propionic Acid	900
11	Ammonium Chloride	500
12	HBr	1000
13	Sodium hypochloride solution	900
14	AlCl ₃	1800
Total		90200

6. Total water requirement is estimated to be 2625 cum/day, of which fresh water demand of 2491 cum/day is to be met from SEZ water supply. Effluent of 734 KLD shall be treated through ETP of adjacent sister concern unit of PI Industries (Unit-I), of which 134 KLD will be recycled and reused for industrial operations and 500 KLD of treated waste water will be discharged to SEZ sump for final disposal into Gulf of Cambay through approved channel of M/s VECL.

Power requirement of 15000 kVA will be met from DGVCL. Six D.G set of 4000 kVA capacity each will be installed and used as standby during power failure. Stack (height 30 m) will be provided as per CPCB norms to the proposed DG sets.

The unit will have boilers of 6 TPH (1 no.) & 12 TPH (2 nos.) and Thermic Fluid Heater (60 lakhs kcal/hr) with furnace oil/natural gas (204 MT/day/195440 Nm³/day) will be used as fuel. Boiler & thermic fluid heater is connected with stacks of adequate height of 30 m & 20 m respectively.

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Alkali scrubber will be used as APCM to control the process emission from the stack attached to reactors of multipurpose plant.

The solid /hazardous waste generation and its management are as under:

S. No	Type of waste	Category as per HWM rules, 2016	Quantity	Method of Disposal
1.	MEE salt	35.3	235 TPM	Collection, Storage, Transportation & Disposal in approved common TSDF/ co-processing.
2.	Used Oil	5.1	25 KLPM	Collection, storage and reused or sold to registered refiners.
3.	Residues after distillation, fractionation, condensation recovery etc./ Solvent Distillation Residue	20.3	300 TPM	Collection, storage, & Incineration at PI Unit-I or in approved common incineration facility or co-Processing/ incineration
4.	Spent Carbon	36.2	50 TM	Collection, storage & Incineration at PI, Unit-I or in approved common incineration facility or Send to Authorized recyclers/ re-processors for recovery/ co-processing
5.	Process Waste (Process Waste Sludge/residue)	29.1	1800 TPM	Collection, storage, & Incineration at PI, Unit-I or in approved common incineration facility or Co-processing/co-incineration facility
6.	Discarded containers / drums/ liners	33.1	300 TPM & 50000 nos./month	Recycled or sold to authorized scrap dealer or end users or disposal in approved common TSDF/incineration at PI, Unit-I as well approved common facility or sent for common decontamination facility
7.	Date Expired off specification products	29.3	100 TPM	Collection, storage, & Incineration at PI, Unit-I or in approved common incineration facility/co-processing
8.	Spent/Crude Solvent	29.4	1500 TPM	Collection, storage, & Incineration at PI, Unit-I or at authorized CHWIF facility or Co-processing or reuse by in-house

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				solvent distillation. Sold to GPCB Authorized recyclers/ distillators/ re-processor
9.	Spent Catalyst	29.5	50 TPM	Collection, storage & Incineration at PI, Unit-I or in approved common incineration facility or co-processing, Send to Authorized recyclers/ re-processors for recovery or sent for regeneration to supplier.
10.	Spent Acid	29.6	1500 TPM	Collection, storage, & sold to authorized recyclers/re-processors, re-user
11.	Spent Resin	34.2	2 TPM	Collection, storage, transportation and disposal in approved common TSDF

7. The project/activity is covered under category A of item 5(b) 'Pesticide industry and pesticide specific intermediates' and 5(f) 'Synthetic Organic Chemical Industries' of Schedule to the Environment Impact Assessment (EIA) Notification, 2006, and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.

8. The Terms of Reference (ToR) for the project was granted on 29th April, 2017, and amended on 22nd June, 2017 for exemption from public hearing and on 5th February, 2018 for addition of one product.

9. The proposal was placed before the EAC (Industry-2) in its meeting held on 27-28 March, 2018 in the Ministry. The project proponent and their consultant M/s San Envirotech Pvt Ltd presented the EIA/EMP report as per the ToR. The committee found the EIA/EMP report satisfactory, in consonance with the ToR, and recommended the proposal for environmental clearance with certain conditions.

10. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **Setting up pesticides, pesticide intermediates and fine chemicals manufacturing unit of total capacity 43240 TPA** by M/s PI Industries Ltd (Unit-II) at Plot No. SPM-29, Sterling SEZ & Infrastructure Ltd, Post Sarod, Taluka Jambusar, District Bharuch (Gujarat), under the provisions of EIA Notification, 2006 and the amendments made therein, subject to the compliance of terms and conditions, as under:-

- (i) Total production of pesticides shall include manufacturing at least 25% of bio-pesticides.
- (ii) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.

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- (iii) Treated effluent of 500 cum/day, shall conform to the discharge standards prescribed under the Environment (Protection) Rules, 1986, to take it to the common SEZ sump followed by discharge into Gulf of Cambay through approved channel of M/s VECL. Prior permission in this regard for additional discharge of 0.5 MLD shall be obtained from M/s Sterling Biotech and/or M/s VECL.
- (iv) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.
- (v) National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.
- (vi) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- (vii) Solvent management shall be carried out as follows:
 - (a) Reactor shall be connected to chilled brine condenser system.
 - (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.
 - (c) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.
 - (d) Solvents shall be stored in a separate space specified with all safety measures.
 - (e) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
 - (f) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.
 - (g) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (viii) Total fresh water requirement shall not exceed 2491 cum/day to be met from SEZ water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.
- (ix) Industrial/trade effluent shall be segregated into High COD/TDS and Low COD/TDS effluent streams. High TDS/COD shall be passed through stripper followed by MEE and ATFD (agitated thin film drier). Low TDS effluent stream shall be treated in ETP/RO to meet the prescribed standards.
- (x) Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- (xi) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.
- (xii) Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- (xiii) 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.

- (xiv) Fly ash should be stored separately as per CPCB guidelines so that it should not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust should be avoided.
- (xv) The company shall undertake waste minimization measures as below:-
 - (a) Metering and control of quantities of active ingredients to minimize waste.
 - (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - (c) Use of automated filling to minimize spillage.
 - (d) Use of Close Feed system into batch reactors.
 - (e) Venting equipment through vapour recovery system.
 - (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xvi) The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- (xvii) At least 1.5 % of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.
- (xviii) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- (xix) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
- (xx) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (xxi) Continuous online (24X7) monitoring system for stack emissions and the effluent, shall be installed for measurement of flow/discharge and the pollutants concentration, and the emission and effluent monitoring data to be transmitted to the CPCB and SPCB server as per the directions of CPCB in this regard.

10.1. The grant of environmental clearance is subject to compliance of other general conditions, as under:-

- (i) The project authorities shall adhere to the stipulations made by the State Pollution Control Board, Central Pollution Control Board, State Government and any other statutory authority.
- (ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.

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- (iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- (iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.
- (v) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (vi) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
- (vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- (viii) The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (ix) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. ESC activities shall be undertaken by involving local villages and administration.
- (x) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (xi) A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- (xii) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.
- (xiii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (xiv) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six




monthly compliance status report shall be posted on the website of the company.

- (xv) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
- (xvi) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <http://moef.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
- (xvii) The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.

11. The Ministry may revoke or suspend the clearance, at subsequent stages, if implementation of any of the above conditions is not satisfactory.


12. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.

13. The above conditions will be enforced, *inter alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


26/7/2018
(S. K. Srivastava)
Scientist E

Copy to:-

1. The Additional PCCF(C), MoEF&CC Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal -16
2. The Principal Secretary, Forests and Environment Department, Government of Gujarat, Block 14, 8th Floor, Sachivalaya, Gandhinagar (Gujarat) -10
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhinagar (Gujarat) - 10
5. Guard File/Monitoring File/Website/Record File


26/7/2018
(S. K. Srivastava)
Scientist E