STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

SEAC-2015/CR-375/TC-2
Environment department,
Room No. 217, 2nd floor,
Mantralaya Annexe,
Mumbai- 400 032.
Date: 18 July, 2016.

To,
M/s. IPCA Laboratories Pvt. Ltd.
C-89 to C-95, MIDC Industrial Area,
Dist. Raigad- 402309.

Subject: Environment clearance for proposed expansion of production capacity of Active Pharmaceutical Ingredient & Bulk Drug at the existing plantat plot No.C-89 to C-95,MIDC, Mahad, Dist. Raigad by M/s.IPCA Laboratories Pvt.Ltd

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 117th meeting and decided to 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 99th meeting.

2. It is noted that the proposal is considered by SEAC-I under screening category 5(f) B1 as per EIA Notification 2006.

Brief Information of the project submitted by Project Proponent is as:

1	Name of the Project	Proposed Enhancement in Production Capacity of Active Pharmaceutical Ingredient (API) (From 60 TPA to 86 TPA) & Bulk Drug Intermediate Products (From 647.88 TPA to 1904 TPA) within Existing Plant Premises at Plot No. C – 89 to C – 95, MIDC Mahad, Tehsil Mahad, District Raigad (Maharashtra) by M/s. Ipca Laboratories Limited formally known as Exon Laboratories Pvt. Ltd		
2	Name, address, e-mail & contact number of Proponent	Name	Mr. Paresh Desai (GM – Operation)	Manoj Kumar Mittal Vice President EHS (Corporate)
		Address	Ipca Laboratories Ltd. C - 89 to C - 95 MIDC Area, MIDC Mahad,	Ipca Laboratories Ltd. Ratlam (MP)

<table>
<tr><td></td><td></td><td></td><td>Dist Raigad (MH)</td><td></td></tr>
<tr><td></td><td></td><td>Telephone no</td><td>02145 -232524, 232058</td><td>+91 7412 27 8321</td></tr>
<tr><td></td><td></td><td>Mobile no.</td><td>09699469655</td><td>+91 93000 36263</td></tr>
<tr><td></td><td></td><td>Email ID</td><td>paresh.desai@ipca.com</td><td>manojkumar.mittal@ipca.com</td></tr>
<tr><td>3</td><td>Name, address, e-mail & contact number of Consultant</td><td colspan="3">• Name: J. M. EnviroNet Pvt. Ltd.
• Address: 1st & 2nd Floor, S. C. O. 16, Sector 10-A, Pace City, Gurgaon- Haryana
• Telephone number: 0124-4141926
• Mobile number: 09910494521
• Email ID: jmenviron@hotmail.com</td></tr>
<tr><td>4</td><td>Accreditation of consultant (NABET Accreditation)</td><td colspan="3">J.M. EnviroNet Pvt. Ltd. is listed at serial no. "89" of the List of Accredited EIA Consultant Organization displayed on MoEFCC website (http://www.qcin.org/nabet/EIA/documents/Accredited%20consultants.pdf), updated as on 5th Nov., 2015.</td></tr>
<tr><td>5</td><td>New Project / Expansion in existing project/ Modernization/ Diversification in exiting project</td><td colspan="3">Expansion project</td></tr>
<tr><td>6</td><td>If expansion/ Diversification, whether environmental clearance has been obtained for existing project (If yes, enclose a copy with compliance table)</td><td colspan="3">No, as earlier there was no provision for Environmental clearance for such type of projects. This plant was established in 1989, now we are hereby applying for Environmental Clearance as per EIA notification dated 14th September 2006 as amended from time to time.</td></tr>
<tr><td>7</td><td>Activity schedule in the EIA Notification</td><td colspan="3">As per EIA Notification dated 14.09.2006 and as amended from time to time, the project falls in Category 'B', S. No. - 5(f) (4) (Location in a notified Industrial area/estate).</td></tr>
<tr><td>8</td><td>Area Details</td><td colspan="3">•Total plot area (sq. m.): 26588 sq. m. (6.57 acres)
• Built up area (Sq. m.): 16500 Sq Meter.</td></tr>
<tr><td>9</td><td>Name of the Notified Industrial area/ MIDC area</td><td colspan="3">MIDC Industrial Area, Mahad.</td></tr>
<tr><td>10</td><td>TOR given by SEAC? (If yeas then specify the meeting)</td><td colspan="3">Yes
98th Meeting of SEAC-1, Maharashtra on dated 26.03.2015 (Agenda Item No. 14)</td></tr>
<tr><td>11</td><td>Estimated capital cost of the Project (including cost for land, building, plant and machinery separately)</td><td colspan="3">Total cost of Project: Rs. 3895.38 Lacs
<table>
<tr><th>S. No.</th><th>Particulars</th><th>Amount (in Lakhs)</th></tr>
<tr><td>1</td><td>Land</td><td>35.00</td></tr>
<tr><td>2</td><td>Building</td><td>1030.38</td></tr>
<tr><td>3</td><td>Plant & Machinery</td><td>2005.67</td></tr>
<tr><td>4</td><td>Computer Machinery</td><td>22.24</td></tr>
<tr><td>5</td><td>Effluent Treatment Plant</td><td>438.00</td></tr>
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		6	Env. & Pollution Cont. Equip.	87.00
		7	Furniture & Fixtures	19.61
		8	Electrical Fittings	119.53
		9	Office Equip.	15.78
		10	Laboratory Equip.	122.17
			Total	3895.38
12	Location details of the project :	Latitude - 18°06'38.51"N to 18°06'45.05"N Longitude - 73°29'07.10"E to 73°29'15.05"E Location - Plot No. C - 89 to C – 95, MIDC Mahad, Tehsil: Mahad, District: Raigad (Maharashtra). Elevation above Mean Sea Level (meters) - 35 meters		
13	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas / inter-State boundaries	No Protected Areas/ Critically Polluted Areas /Eco-sensitive areas / inter-State boundaries within 10 km radius.		

14 Raw materials (including process chemicals, catalysts & additives).

1] Para Hydroxy Phenyl Acetamide (PHPA)

S. No.	Raw material Name	Existing Monthly Qty. (MT/ Month)	Additional Monthly Qty. (MT/Month)	Total Monthly Qty. (MT/ Month)	Source & Mode of transport
1	Para Hydroxy Aceto Phenone (PHAP)	40.5	25.19	65.69	BASF South East Asia PTE Ltd/Container
2	Sulphur	9.99	6.20	16.19	Indian Agro Chem Industries Pvt. Ltd/Lorry
3	NH3 Gas	10.125	6.28	16.325	Jaysons Ammonia & Chemicals Pvt. Ltd./Lorry
4	Isopropyl Alcohol	77.22	47.96	125.18	Deepak Fertilizers & Petrochemicals Corporation Ltd./Tanker
5	Toluene	56.7	35.21	91.91	Exxon mobile (Imported)/Tanker
6	Carbon	2.160	1.34	3.5	Universal Carbons (India)/Lorry
7	Acetic Acid	0.297	0.184	0.481	Thana Acid & Chemical Co./Lorry
8	Hyflow	0.108	0.0670	0.175	Silicon Products (P)

					Associates/Lorry
9	Hydrose	0.162	0.1006	0.2626	Rajeshwari Dye-Chem. P. Ltd/Lorry
2] Hydroxy Noval Diamine (HNDA)					
1	Acetyl Butyro Lactone (ABL)	7.5	24.05	31.55	Linhai Realsun Chemical CO., Ltd./Lorry
2	NA Salt	1.8	5.77	7.57	Tata Chem/ Lorry
3	Hydrochloric Acid (HCl)	25.8	82.73	108.53	GHCL, Gujarat/Tanker
4	Para Toluene Sulphonic Acid (PTSA)	0.60	1.92	111.05	D.K. Pharmachem Pvt. Ltd./Lorry
5	Mono Ethylene Glycol (MEG)	3.45	11.06	14.51	Golden Dyechem(Farsa) / Lorry
6	Cyclohexane	13.68	43.86	57.54	International Solvents & Chemical Co./ Tanker
7	Toluene	25.8	82.73	108.53	Exxon mobile (Imported)/Tanker
8	Sodium Iodide (NAI)	0.075	0.240	0.315	Samrat Pharmachem Limited/Lorry
9	Ehylene Amino Ethanol (EAE)	9.75	31.26	41.01	Amines & Plasticizers Ltd./Lorry
10	Caustic lye Methylene Dichloride (MDC)	19.8	63.49	83.29	GHCL, Gujarat/Tanke
11	Raney Nickel	0.308	0.981	1.289	Monarch Catalyst Pvt.Ltd.,/Lorry
12	H2 Cylinder	225 Nos	721.51	946.51	Super Industrial Gases/Lorry
13	N2	150	481	631 nos	Kokan Gases/

		Cylinder	Nos			Lorry
14		NH3 gas	3.15	10.10	13.25	Jaysons Ammonia /Lorry
3] Thioephene – 2 – Aldehyde (T2A)						
1		Thiophene	4.5	NIL	4.5	Lianyungang, China/Loory
2		Dimethyl Farmamide	4.5	NIL	4.5	RCF/Lorry
3		Phosphorous Oxichloride	9.36	NIL	9.36	United Phosphorous /Lorry
4		Ethylene Dichloride	10.8	NIL	10.8	Finolex, Ratnagiri /Lorry
5		Caustic Lye	20.25	NIL	20.25	GHCL, Gujarat /Tanker
4] 2 Mercapto – 5 Mehoxy Benzimidizole (MMBI)						
1		4-Methoxy-2-nitro aniline (MNA)	6.6	124.2	130.82	LEO Tex Industries/Lorry
2		Sodium Hydrogen Sulphide (NaHS)	11.556	218	229.556	Eureka Chemicals/Lorry
3		Carbon Disulphide	4.62	87	91.62	Jinesh Chemicals Private Ltd/Lorry
4		1-Octanol	66 Ltrs	1243	1309	Spectrochem Pvt. ltd./ lorry
5		Methanol	12.54	236.1	248.64	Jupiter Dyechem Pvt. Ltd/ Tanker
6		Caustic Flakes	3.3	62.14	65.44	GHCL, Gujarat/ Lorry
7		Activated Carbon	1.32	24.85	26.17	Global Adsorbents Pvt. LTD.,/ Lorry
8		Hydrochloric Acid	3960 Ltrs	74580	78540	Manish Labchem Private Limited/ Tanker
9		Sodium Hydrosulfide	0.132	2.48	2.612	Rajeshwari Dye-chem. P. Ltd /lorry
1		Ethyl	6600	12429	130899	Laxmi Organic

0	Acetate	Ltrs	9		Industries Limited/ Tanker
5] 3-Methyl Thioephene – 2 – Aldehyde (3MT2A)					
1	Methyle Thiophene	4.25	0.00674	4.25674	Zibo senbao chem. China/ lorry
2	Dimethyl Farmamide	4.016	0.06371	4.07971	RCF/ Lorry
3	Phosphorous Oxychloride	8.33	0.0132	8.3432	United Phosphorous /Lorry
4	Ethylene Dichloride	8.28	0.0131	8.2931	Finolex, Ratnagiri /Lorry
5	caustic lye	20.45	0.03244	20.48244	GHCL, Gujarat/Tanker
6] 6-Floro Tetra Hydro Quinoline (6FTQ)					
1	4 fluoro Aniline	6.6	Nil	6.6	Aarti Industries Ltd./Lorry
2	Hydrochloric Acid (HCl)	18.144	Nil	18.144	GHCL ,Gujarat
3	Crotonaldehyde	4.44	Nil	4.44	Godavari Biorefineries Ltd/Lorry
4	Toluene	12.384	Nil	12.384	Exxon mobile (Imported) /Tankar
5	Caustic lye	15.984	Nil	15.984	GHCL, Gujarat/ Tanker
6	Catalyst	0.002	Nil	0.002	Hindustan Platinum Pvt. Ltd./Lorry
7	H2 gas	120 Nos	Nil	120 Nos	Super Industrial Gases/Lorry
8	N2 cylinder	20 Nos	Nil	20 Nos	Kokan Gases/Lorry
9	Sodium Bicarbonate	0.040	Nil	0.040	GHCL, Gujarat/Lorry
7] 4(2Methoxy Ethyl) Phenol (MEP)					
1	2 Phenyl Ethanol	10.00	Nil	10.00	IPCA Lab Ltd. Ratlam/Lorry
2	Di methyl Sulphide	1.375	Nil	1.375	Aarti Ind. /Lorry
3	Tetra Butyl Ammonium	0.129	Nil	0.129	Dishman Pharmaceutical/ Lorry

		Bromide				
		4	Caustic Flakes	13.125	Nil	13.125	GHCL, Gujarat/Lorry
		5	Sodium Salt	1.00	Nil	1.00	GHCL, Gujarat/Lorry
		6	Nitric Acid	3.9	Nil	3.9	Acid Industries /Lorry
		7	H2SO4	28.341	Nil	28.341	DMC/Tanker
		8	Sodium Bicarbonate	0.558	Nil	0.558	TATA Chem /Lorry
		9	Toluene	22.102	Nil	22.102	Exxon Mobile (IMP)/Tanker
		10	Rany Nickel Catalyst	0.020	Nil	0.020	Monarch Catalyst/Lorry
		11	Hydrogen	0.225	Nil	0.225	Super Ind Gases, Thane/Lorry
		12	Hyflow	0.010	Nil	0.010	Silicon Products (P) Associates/Lorry
		13	Nitrogen	0.050	Nil	0.050	Kokan Gases/Lorry
		14	Methanol	7.98	Nil	7.98	PCC Iran (IMP)/Tanker
		15	Hydrose	0.221	Nil	0.221	Rajeshwari Dye-Chem. P. Ltd /Lorry
		16	sodium Nitrite	2.55	Nil	2.55	Deepak Nitrite/Lorry
		8] Etodolac					
		1	7 Ethyl Tryptophol	4.5	3.61	8.11	Zhejiang Medicines & Health Products Imp.& Exp. Co. Ltd./ Container
		2	Methyl 3 Oxopentanoate	3.69	2.96	6.65	Zhejiang Medicines & Health Products Imp.& Exp. Co. Ltd./ Container
		3	Methanol	18.00	14.46	32.46	PCC Iran (INP)/Tanker
		4	Sulphuric acid	2.25	1.80	4.05	Manish Lab chem Private Limited/Lorry
		5	Caustic flakes	0.900	0.723	1.623	GHCL, Gujarat/Lorry

6	Hydrochloric Acid	2.32	1.863	4.183	GHCL, Gujarat/Tanker
9] Losarton Base					
1	Intermediate – I	6.00	7.5	13.5	Makers Lab Ltd, Dombilval/ Lorry
2	Toluene	11.61	14.5	26.11	Exxon Mobil (Imp)/ Tanker
3	Sodium Azide	4.08	5.1	9.18	Corvine chemicals & pharmaceuticals ltd./ Lorry
4	N-Methyl pynilidinone Triethyl Amine	8.64	10.8	19.44	Alkyl amines chemicals ltd./ lorry
5	Caustic Soda flakes	3.6	4.5	8.1	GHCL, Gujarat/Lorry
6	Carbon	0.600	0.75	1.35	M.M. Corporation /Lorry
7	Hydrose	0.600	0.75	1.35	Rajeshwari Dye-Chem. P. Ltd /Lorry
8	Sodium Nitrite	1.8	2.25	4.05	Deepak Nitrite Limited /Lorry
9	HCl (CP)	6.00	7.5	13.5	Manish Labchem Private Limited/Tanker
10	Hyflow	0.060	0.075	0.135	Silicon Products (P) Associates/ Lorry
11	IPA	4.68	5.85	10.53	Deepak Fertilizers & Petrochemicals Corporation Ltd/ Tanker.
12	N2 Gas	45 Nos	56.25	101.25	Kokan Gases/Lorry
10] Methyl Keto Indole:					
1	1,3 yclohexanedione	0.300	Nil	0.300	Atul Ltd. Valsad/ Lorry
2	Phenyl Hydrazine HCL	0.405	Nil	0.405	Keminova India/Lorry
3	Methanol	0.684	Nil	0.684	PCC Iran (Imp)/Tanker

		4	Caustic Flakes	0.137	Nil	0.137	GHCL, Gujarat/Lorry
		5	Acetic Acid	4500 Ltrs	Nil	4500 Ltrs	Thana Acid & Chemical Co./ Lorry
		6	Zinc Chloride	4.56	Nil	4.56	Vijay Chem Services/ Lorry
		7	Acetone	3.822	Nil	3.822	ICC Chem (Imp)/ Tanker
		8	Dimethyl sulphide	0.294	Nil	0.294	Aarti Industries Ltd./ Lorry
		9	Toluene	1.548	Nil	1.548	Exxon mobil (Imp)/Tanker
		10	Phenyl Hydrazone	0.720	Nil	0.720	Cheminova Ltd, Solapur/ Lorry
		11] DSP					
		1	Caustic Soda flakes	Nil	1540 kg	1540 kg	GHCL, Gujarat/Lorry
		2	Bon Acid	Nil	4000 kg	4000 kg	Suzhou Untong Chem China/ Lorry
		3	Paraformal -Dehyde	Nil	530 kg	530 kg	Ercros Ind/Lorry
		4	Refined Salt	Nil	100 kg	100 kg	GHCL/Lorry
		12] THP					
		1	3 Methyl Amino Propyl Amine	Nil	3600 kg	3600 kg	High Rice Chem/ Lorry
		2	Acetoni-Trile	Nil	1959 kg	1959 kg	Alkyl Amines/ Lorry
		3	Catalyst Hariocat	Nil	87300 kg	87300 kg	Harium/ Lorry
		4	Methanol Fresh (For flushing)	Nil	120 kg	120 kg	PCC Iran (Imp) / Lorry
		13] Losarton Potassium					
		1	Losartan Base	Nil	7400 kg	7400 kg	Ipca Lab Ltd. Mahad
		2	Methanol	Nil	7400 kg	7400 kg	PCC Iran (Imp)/ Tanker
		3	Potassium Hydroxide flakes	Nil	1125kg	1125kg	GHCL, Gujarat/ Lorry
		4	Activated Carbon (Carbopol SC40)	Nil	1200kg	1200kg	Global Adsorbents Pvt. Ltd./Lorry
		5	Acetone	Nil	3135	3135 kg	ICC chemicals,

			kg		USA/ Tanker
6	Hyflow (Celite-545)	Nil	480 kg	480 kg	Silicon Products (P) Associates/Lorry
7	Sodium Hydro Sulphite (Hydrose)	Nil	90 kg	90 kg	Rajeshwari Dye-Chem. P. Ltd /Lorry
8	Methanol For Partial Cleaning	Nil	750 kg	750 kg	PCC Iran (Imp)/ Tanker
9	Nitrogen Gas	Nil	150 no	150 no	Kokan Gases/Lorry
14] CHBP					
1	4-Chloro Benzoyl Chloride	Nil	2225 kg	2225 kg	Nantong Prime,China/Lorry
2	Anisole	Nil	1500 kg	1500 kg	Mithila Raysan/Lorry
3	Anhy.Aluminium Chloride	Nil	4900 Kg	4900 Kg	GHCL, Gujarat/ Lorry
4	Mono Chloro Benzene	Nil	3750 kg	3750 kg	Aarti/ Cromine Organic /Lorry
5	Caustic Flakes	Nil	540 kg	540 kg	GHCL, Gujarat/ Lorry
6	Conc. HCL	Nil	5430 kg	5430 kg	GHCL, Gujarat/ Tanker
7	Activated Carbon (BW 280)	Nil	135 kg	135 kg	Brilex Chem /Lorry
8	Hyflow	Nil	335 kg	335 kg	Silicon Product/Lorry
15] Sulphamethoxy Pyrizine					
1	SCP (PURE)	Nil	1500 Kg	2925 Kg	Jiangxi Long ,China/Lorry
2	Methanol	Nil	23400 Kg	46800 Kg	PCC Iran(Imp)/Tanker
3	KOH	Nil	3100kg	6200 kg	GHCL, Gujarat/ Lorry
4	Activated Carbon (BW-280)	Nil	165 kg	330 kg	MM Corporation/ Lorry
5	Hyflow	Nil	75 kg	150 kg	Silicon Product/Lorry
6	Acetic Acid	Nil	5215 Kg	8700 Kg	Thana Acid /Lorry
7	Activated	Nil	65 kg	130 kg	Brilix Chem

			Carbon (BW-280)			/Lorry
		8	Hyflow	Nil	25 Kg	52 Kg	Silicon Product/Lorry
		16] 5 NSA					
		1	Salycylic acid	Nil	42400 kg	42400 kg	Siddharth Carbochem Products Ltd./ Lorry
		2	58% HN03	Nil	66780 kg	66780 kg	Acid Industries/Lorry
		3	Methanol	Nil	151100 kg	151100 kg	PCC Iran(Imp)/Tanker
		4	Act. Carbon (NS55)	Nil	424 kg	424 kg	Universal Carbons (India)/Lorry
		17] Novaldiamine (NDA)					
		1	ABL	Nil	30000 Kg	30000 Kg	Zhejiang Medicines & Health Products Imp.& Exp. Co.Ltd./Lorry
		2	HCL	Nil	68200 kg	68200 kg	GHCL, Gujarat
		3	Nacl	Nil	9000 Kg	9000 Kg	GHCL, Gujarat
		4	Cyclohexane	Nil	49680 Kg	49680 Kg	International Solvents & Chemical Co /Tanker.
		5	MEG	Nil	13800 Kg	13800 Kg	Golden Dyechem/(Farsa) /Lorry
		6	PTSA	Nil	240 Kg	240 Kg	D.K. Pharmachem Pvt. Ltd./Lorry
		7	TEA	Nil	750 Kg	750 Kg	Balaji Amines Limited/Lorry
		8	Toluene	Nil	72000 Kg	72000 Kg	Exxon Mobile (Imp) /Tanker
		9	DEA	Nil	29340 Kg	29340 Kg	Alkyl Amines /Lorry
		10	KI	Nil	300 Kg	300 Kg	Makers Lab /Lorry
		11	Caustic flakes	Nil	20580 Kg	20580 Kg	GHCL, Gujarat/ Lorry
		12	MeoH	Nil	72000 kg	72000 kg	PCC Iran (Imported)/Tanker
		1	Raney	Nil	1200	1200	Monarch

3	Nickel		Kg	Kg	Catalyst Pvt. Ltd.,/Lorry
14	H2 Cylinder	Nil	1020 No.	1020 No.	Super Ind Gases/Lorry
18] Flumequine					
1	6-FTQ	Nil	4500 kg	4500 kg	Exon Lab.
2	EMME	Nil	6300 Kg	6300 Kg	Amines & Plasticizers, Dombivli
3	Toluene	Nil	6920 Kg	6920 Kg	EXXON Mobile (Imp) /Tanker
4	PPA	Nil	9450kg	9450kg	GHCL, Gujarat
5	Methanol	Nil	20000 Kg	20000 Kg	PCC Iran (Imp)/Tanker
19] ROBO					
1	KDVA	Nil	2400 kg	2400 kg	Zhejiang Medicines & Health Products Imp.& Exp. Co. Ltd./Lorry
2	Acetic Acid	Nil	2400 kg	2400 kg	GHCL, Gujarat
3	Acetic anhydride	Nil	2400 kg	2400 kg	Thomas baker, Gujarat
4	Nitric Acid (65%)	Nil	2540 kg	2540 kg	Acid Industries/ Lorry
5	Oleum	Nil	9600 kg	9600 kg	DMC /(Farsa)/Lorry
6	Nitro-Benzene	Nil	3360 kg	3360 kg	Urvashi chem. Mumbai / Lorry
7	Glycerol	Nil	4800 kg	4800 kg	Triveni Aromatics /Lorry
8	Caustic lye	Nil	1200 kg	1200 kg	GHCL, Gujarat
9	Ethyl Acetate	Nil	70000 kg	70000 kg	Laxmi organics/Tanker
10	Methanol	Nil	5000 kg	5000 kg	PCC iran /Tanker
12	Raney Nickel	Nil	200 kg	200 kg	Monarch Catalyst Pvt. Ltd./Lorry
13	N2 gas	Nil	2400 kg	2400 kg	Kokan gas, Lorry
14	H2 Gas	Nil	4000 kg	4000 kg	Super Ind. Gases, Lorry
20] CLP-II					
1	OCPAA	Nil	1125 Kg	1125 Kg	Zhejiang Medicines &

						Health Products Imp.& Exp. Co. Ltd./Lorry
2	EDC	Nil	18000 kg	18000 kg	Phenolex, Ratnagiri/ Tanker
3	Phosp. Trichloride	Nil	285 kg	285 kg	Sandhya Chem, Gujarat, Lorry
4	Bromine	Nil	2340 kg	2340 kg	DMC chem., Lorry
5	Methanol	Nil	1125 Kg	1125 Kg	PCC Iran, Tanker
6	MDC	Nil	2250 Kg	2250 Kg	Gujrat Alkely, tanker
7	Sodium Metabisulphite	Nil	570 kg	570 kg	Megh mani, Gujarat/ Lorry
8	2-Thiophene Ethylamine	Nil	750 Kg	750 Kg	Zhejiang Medicines & Health Products Imp.& Exp. Co. Ltd./Lorry
9	Paraformaldehyde	Nil	195 kg	195 kg	Triveni aromatics/ lorry
10	DMF+HCl	Nil	1005 kg	1005 kg	DMC, Dombivli / Lorry
12	Sodium carbonate	Nil	1770 kg	1770 kg	AR Entp, Mumbai/ lorry
13	Acetone	Nil	9000 Kg	9000 Kg	Amiriddhi, Mumbai/ tanker
14	H2SO4	Nil	405 kg	405 kg	DMC, dombivli / Lorry
21] TBCA					
1	MCA	Nil	15000 Kg	15000 Kg	Urvashi Chem , Mumbai/ Lorry
2	E-Butanol	Nil	11700 Kg	11700 Kg	Urvashi Chem , Mumbai/ Lorry
3	Sulphuric Acid	Nil	4375 kg	4375 kg	DMC, Domb/ lorry
4	Soda Ash	Nil	2500 kg	2500 kg	Mazda chem. / lorry.
5	MDC	Nil	11250 kg	11250 kg	Gujarat Alkely, / Tanker
22] Di-Benzothiazepine					
1	2-NDS	Nil	3000 Kg	3000 Kg	Mazda Chem, Mumbai/ Lorry
2	Raney Nickel	Nil	200 kg	200 kg	Monarch catalyst , Dombivli/ Lorry
3	Methanol	Nil	16000 kg	16000 kg	PCC Iran/ Tanker

		4	H2 cyllender	Nil	300 kg	300 kg	Super Industrial Gases, / Lorry.
		5	N2	Nil	200 kg	200 kg	Kokan Gases/ Lorry
		6	MDC	Nil	800 Kg	800 Kg	Madhu Chem/ Tanker
		8	PCF	Nil	1000 Kg	1000 Kg	Uravashi Chem. / Lorry.
		9	NAOH	Nil	800 Kg	800 Kg	Gujarat Alkely, /Lorry
		10	Sodium carbonate	Nil	700 Kg	700 Kg	AR ENTP, Mumbai/ lorry
		12	N-Hexane	Nil	2250 kg	2250 kg	Aastha chem./ Lorry
		13	Acetone	Nil	6000 Kg	6000 Kg	Triveni Entp/ tanker
		14	Poly Phosphoric acid	Nil	1200 kg	1200 kg	Sandhya chem. Mumbai/ Lorry

15	Production details	S. No.	Product Name	Max. Qty MT/ month (Existing as per consent)	Max. Qty TPA (Existing as per consent)	New Addition TPA	Deleted production Quantity TPA	Total Proposed Production TPA
		1	Para Hydroxy Phenyl Acetamide	27.50	330.00	270	00	600.00
		2	Hydroxynovaal diamine (HNDA)	2.08	24.96	155.04	00	180.00
		3	Thioephene – 2 – Aldehyde (T2A)	2.16	25.92	00.00	0.92	25.00
		4	2-Mercapto-5Methoxy Benzimidizole (MMBI)	0.42	5.04	74.96	00	80.00
		5	6-Methoxy-8-Amino Quionoline (ROBO)	0.25	3.00	00	00	00.00
		6	3-Methyl Thioephene-2Aldehyde (3MT2A	2.08	24.96	0.04	00	25.00
		7	6-Fluro Terta Hydro Quinoline	2.50	30	15	00	45.00

			(6FTQ)					
		8	MEP	4.00	48.00	00	18.0	30.00
		9	Etodolac	3.00	36.00	36.00	00	72.00
		10	Flumequine	2.00	24.00	00	24.00	00.00
		11	CLP- II	0.30	3.6	00	3.6	00.00
		12	Losarton Base	5.00	60	240.00	00	300.00
		13	Methyl Keto Indole	1.53	18.36	00	15.36	3.00
		14	Di Benzo Thiazepine	1.17	14.04	00	14.04	00.00
		15	T- Butyl Chloro Acetate	5.00	60.00	00	60.00	00.00
		16	DSP	--	--	50.00	--	50.00
		17	THP	--	--	50.00	--	50.00
		18	Losarton Potassium	--	--	50.00	--	50.00
		19	CHPB	--	--	30.00	--	30.00
		20	Sulphamethoxy Pyrizine	--	--	10.00	--	10.00
		21	5 NSA	--	--	200.00	--	200.00
		22	Noveldamine	--	--	240.00	--	240.00
		23	NND	--	--	20.00	--	20.00
		24	CBT	--	--	15.00	--	15.00
		25	HCS	--	--	25.00	--	25.00
		Total		58.99	707.88	1241.00	135.92	2050
		BY PRODUCTS						
		23	Spent Caustic Lye 14%	-	-	800 TPA	-	800 TPA
		24	Spent Azide Solution (10-15%)	-	-	1296 TPA	-	1296 TPA
		25	Spent Sodium Sulphide Solution	-	-	1344 TPA	-	1344 TPA

16	Process details / manufacturing details	S. No.	Product	Process Description
		1	Para Hydroxy Phenyl Acetamide	The process involves Amidation reaction of PHAP in presence of Sulfur, Ammonia and IPA. After recovery of solvent and filter to get PHPA crude.Purification of PHPA Crude by using Acetic Acid, Carbon, and Hydrose get wet pure material which is to be

				dried for PHPA Pure.
		2	Hydroxynovaaldia mine (HNDA)	The process involves conversion of ABL into Chloro Pentanone by using Hydrochloric Acid. Then Chloropentanone is converted into Ketal derivative by using Mono Ethylene Glycol & Para Toluene Sulphonic Acid. Then Ketal derivative is condensed with Ethyl Amino Ethanol to give condensed product which is deketalized in presence of Hydrochloric Acid followed by reductive Ammination with Ammonia Raney Nickel catalyst & Hydrogen to give HNDA Crude which is purified by fractional distillation.
		3	Thioephene – 2 – Aldehyde (T2A)	Conversion of Thiophene to Thiophene-2-Aldehyde in presence of DMF and Phosphrous Oxichloride. Reaction mass quench in water and neutralize with caustic lye to get the T2A Crude which is to be further distil for Thiophene-2-Aldehyde pure material.
		4	2-Mercapto-5 Methoxy Benzimidizole (MMBI)	This Process involves Reduction Of 4 MNA in presence of Sodium Hydrosulfide solution and followed by addition of 1 Octanol and CS2. Resulting MMBI Crude. Purification of MMBI in presence of D.M. Water, Sodium Hydroxide, and decolourise with carbon and precipitation with HCl, CP. Repeat the same process for further purification and precipitated with Ethyl Acetate. Dry the material to get MMBI pure.
		5	6-Methoxy-8-Amino Quionoline (ROBO)	The reduction of Robo -2 to Robo -3 is carried out under pressure in ethyl acetate & in presence of catalyst Raney Nickel BY Using Hydrogen Gas. After hydrogenation filtration is carried out & Ethyl Acetate recovery is carried out. After recovery will get the organic mass as ROBO-3.
		6	3-Methyl	Conversion of Thiophene to

				Thioephene-2Aldehyde (3MT2A)	3Methyl Thiophene-2-Aldehyde in presence of DMF and Phosphrous Oxichloride. Reaction mass quench in water and neutralize with caustic lye to get the 3MT2A Crude which is to be further distilled for 3Methyl Thiophene-2-Aldehyde pure material.
			7	6-Fluro Terta Hydro Quinoline (6FTQ)	4-fluro Aniline on condensation with Croton aldehyde gives fluro quinoline. Fluro quinoline on reduction in presence of Palladium carbon gets 6-fluro tetrahydroquinoline crude. Which on fraction distillation gets 6-fluro tetra hydro quinoline pure
			8	MEP	This process involves methylation of 2 Phenyl Ethanol by using DMS gets 2 Methoxy Ethyl Benzene. 2 Methyoxy Ethyl Benzene further carried out nitration in presence of sulphuric acid and nitric acid with used Nitro compound. Reduction of Nitro compound by using Raney Nickel and hydrogen which gives Amino compound. Amino compound further carried out Diazotization and hydrolysis gives us MEP crude which is further fraction distilled gives MEP Pure.
			9	Etodolac	7-Ethyl tryptophol on condensation with Methyl-3-oxopentanoate in Methanol in presence of Sulphuric acid as a catalyst gives Methyl ester of Etodolac (ETDE). ETDE on hydrolysis with alkaline water gives Etodolac.
			10	Flumequine	This process involves condensation of 6-FTQ with EMME 2 form acrylate further it is hydrolyzed in presence of water with polyphosphoric acid to produce crude flumequine which is further purified in methanol to from pure Flumequine
			11	Clopidogrel (CLP-II)	This process involves Bromination of OCPAA in presence of EDC, Phosphorous Trichloride, bromine, Methanol,

				MDC and followed by washing of Sodium Meta Bi sulphite. Followed by EDC recovery to get CLP 1 – B. Condensation 2 Thiophene Ethylamine to CLP 1-T in presence of EDC, Paraformadehyde & mixture of DMF + HCL gives CLP 1 – T. Condensation of CLP 1-B & CLP-1 T in presenc of Sulfuric acid, acetone and EDC gives us CLP-II.
		12	Losarton Base	This process involves condensation reaction of Intermediate 1st to Losartan Base crude in presence of Toluene, Sodium Azide, Triethyl Amine HCl, and followed by Hydrolysis by using Caustic solution. Organic mass which contain losartan Base which is further decolorised by using carbon and further precipitated with HCl to get the losartan Base crude. Purification of Losartan Base crude is carried out by water as well as IPA followed by drying to get Losartan Base Pure material.
		13	Methyl Keto Indole	This process involves condensation reaction of 1,3,Cyclohexane Dione and Phenyl Hydrazine Hydrochloride, Methanol, D.M.Water followed by filtration and wash with water till PH neutral and dry the material gets MKI crude. Fisher Indole synthesis of Phenyl Hydrazone is carried out in presence of Acetic Acid and Zinc Chloride. Methylation of Keto Indole to Methyl Keto Indole crude in presence of Acetone, NaOH flakes and DMS. Purification of MKI is carried out by using Toluene.
		14	Di Benzo Thiazepine	2-nitro-di-phenyl sulphide on reduction with hydrogen and raney nickel gives amino di phenyl sulphide (ADS). This amino di phenyl sulphide (ADS) on condensation with phenyl chloro formate gives phenyl amino di phenyl sulphide

				(PADS). This phenyl amino di phenyl sulphide on cyclisation with poly phosphoric acid gives Dibenzothiazepine.
		15	T-Butyl Chloro Acetate	Sulfonation of t-Butanol in presence of Mono Chloro Acetic Acid & MDC followed by water washing and after distillation gets T-BUTYL CHLORO ACETATE.
		16	DSP	Conversion of Bon Acid into Disodium Pamoate in presence of Caustic soda flakes, Para Formaldehyde.
		17	THP	This process involves condensation of Methyl Amino Propyl Amine in presence of Acetonitrile and catalyst Hariocat to get THP (Tetra Hydro Peridine)
		18	Losarton Potassium	Losartan Base dissolved in Methanol & KOH solution followed by charcolsation & crystallization in Acetone gives Losartan Potassium.
		19	4-Chloro-4-Hydroxybenzophenone (CHBP)	4-Chloro benzoyl chloride when reacts with anisole under friedel craft acylation condition gives CMBP, which on insitu demethylation with anhydrous aluminum chloride gives CHBP.
		20	Sulphamethoxypyrazine	The process for the synthesis of sulphamethoxy pyrazine is comprises of two steps , first being the coupling of 2,3-dichloro pyrazine with sulphanilamide in the presence of acid binding agent, to produce the intermediate 4-Amino-N-(3-chloro-pyrazinyl)benezene sulphonamide (SCP), which is further reacted with potassium hydroxide and methanol to give the final product Sulphamethoxypyrazine.
		21	5-Nitro Salicylic Acid (5-NSA)	The synthesis of 5-NSA involves Nitration of salicylic acid in aqueous media, followed by purification in Aq. MEOH to isolate 3-NSA isomer which is further purified by MEOH to obtain 5-NSA pure.

<table>
<tr><td></td><td></td><td>22</td><td>Novaldiamine (NDA)</td><td>The synthesis of Novaldiamine from ABL involves 5 steps. ABL is converted to CP by simultaneous addition of both ABL & Conc. HCl at distillation temperature. CP reacted with Monoethylene glycol and converted to CP Ketal. Further CP Ketal is converted to NK Ketal by condensation with diethyl amine. NK ketal is converted to NK by the hydrolysis of Ketal group with HCl and finally NK is converted to NDA (crude) by reductive amination in presence of ammonia, hydrogen gas and raney Ni as catalyst. Pure NDA prepared by fractional distillation.</td></tr>
<tr><td></td><td>Rain Water Harvesting (RWH)</td><td colspan="3">• Level of the Ground water table - 8 meters
• Size and no. of RWH tank(s) and quantity – 35 X2 KL.=70 KLD
• Location of the RWH tank(s) – Near Utility Building
• Size, nos. of recharge pits and Quantity –• Not considered
Budgetary allocation (Capital cost and O&M cost) – 5 L & 1L</td></tr>
<tr><td>18</td><td>Total Water Requirement</td><td colspan="3">Total water requirement:
Fresh water - 475 KLPD & Source: MIDC water
Use of the water:
Process – 105 KLPD
Boiling Water – 134 KLPD
Cooling – 176 KLPD
Others water for process – 30 KLPD
Domestic Consumption – 30 KLPD</td></tr>
<tr><td>19</td><td>Storm water drainage</td><td colspan="3">• Natural water drainage pattern – Towards Kal river
• Size of SWD - 0.75 x 1.25 mtrs</td></tr>
<tr><td>20</td><td>Sewage generation and treatment</td><td colspan="3">• Amount of sewage generation – 25 KLPD
• Proposed treatment for the sewage – Biological treatment
• Capacity of the STP (CMD) (If applicable) – 30 KLPD</td></tr>
<tr><td>21</td><td>Effluent characteristic</td><td colspan="3"><table><tr><td>Parameters (pH, BOD, COD etc)</td><td>Effluent standard limit (Pl mention industry specific standard)</td><td>Propose d Limit</td><td>MPCB Consent</td></tr><tr><td>BOD
COD
pH</td><td>100
250
5.5 to 9.0</td><td>100
250
5.5 to 9.0</td><td>Yes</td></tr></table></td></tr>
</table>

<table>
<tr><td>22</td><td>ETP details</td><td>Amount of effluent generation (CMD) – 165 KLPD (120 KLPD + 45 KLPD)
Capacity of the ETP (CMD) – 120 KLPD (for low TDS / COD) & Capacity of MEE – 75 KLPD (for high TDS / COD)
Amount of treated effluent recycled (CMD): 153 KLPD
Amount of water send to the CETP (CMD): In case of extreme emergency or breakdown effluent will be sent to CETP located at MIDC, Mahad area for further treatment and disposal.
Membership of the CETP (If require): If yes then attach the letter submit the letter as Annexure- 1 : We are already member</td></tr>
<tr><td>23</td><td>Note on ETP technology to be used</td><td>The industrial waste water (Low COD effluent) will be sent to the double stage activated sludge process type effluent treatment plant followed by RO Plant for treatment and the treated water will be utilized within plant for Plant Utilities. Similarly High COD effluent along with RO Reject will be sent to solvent stripper and multi effect evaporator for treatment and treated effluent will be recycled back.</td></tr>
<tr><td>24</td><td>Disposal of the ETP sludge (If applicable)</td><td>TSDF Site for which unit got membership.</td></tr>
<tr><td>25</td><td>Solid waste Management</td><td>
<table>
<tr><th>S. No.</th><th>Source</th><th>Qty (TPM)</th><th>Form (Sludge/Dry / Slurry etc.)</th><th>Composition</th></tr>
<tr><td>1</td><td>Raw Water Treatment Plant</td><td>1</td><td>--</td><td>-</td></tr>
<tr><td>2</td><td>ETP</td><td>25</td><td rowspan="3">--</td><td>Organic</td></tr>
<tr><td>3</td><td>Process</td><td>100</td><td>Organic</td></tr>
<tr><td>4</td><td>Spent Catalyst</td><td>8.33</td><td>Organic</td></tr>
<tr><td>5</td><td>Oily Sludge</td><td>0.208</td><td>oil</td><td>Organic</td></tr>
<tr><td>6</td><td>Others like Battery waste, Waste etc (Pl. Specify)</td><td>10 Nos.</td><td>Dry</td><td>-</td></tr>
</table>
If waste(s) contain any hazardous/toxic substance /radioactive materials or heavy metals then provide quantity, disposal data and proposed precautionary measures.
Collection, Storage, Transportation and Disposal at CHWTSDF-Taloja
What are the possibilities of recovery and recycling of wastes? Maximum recovery & recycling is being/will be done.
Possible users of solid waste
Chemical solid waste to TSDF site at Taloja or cement plants.
Method of disposal of solid waste
The hazardous chemicals and volatile organic solvents are carefully handled in a closed system, thereby preventing any discharge of these chemicals into the air. Finally Hazardous waste shall be sent to TSDF for land disposal or incineration / co-processing with TSDF or cement plant.</td></tr>
<tr><td>26</td><td>Atmospheric Emissions (Flue gas characteristics SPM, SO2, NOx, CO, etc.)</td><td>
<table>
<tr><th>Sr. No.</th><th>Pollutant</th><th>Source of Emission</th><th>Emission rate (kg/hr)</th></tr>
<tr><td>1</td><td>SPM</td><td>Boiler</td><td>0.34</td></tr>
</table>
</td></tr>
</table>

		2	SO_2	Boiler	1.31	
		3	NO_x	Boiler	3.8	

27 Stack emission Details: (All the stacks attached to process units, Boilers, captive power plant, D.G. Sets, Incinerator both for Existing and proposed activity). Please indicate the specific section to which the stack is attached. e.g.: Process section, D.G. Set, Boiler, Power Plant, incinerator etc. Emission rate (kg/hr.) for each pollutant (SPM, SO2, NOx etc. should be specified

Plant Section & units	Stack No.	Height from ground level (m)	Internal Diameter (Top)(m)	Temp. of Exhaust Gases
Boiler	1	30.00	0.75 M	170 Degree centigrade
DG set	1	8.75	0.27 M	-
NH_3 Scrubber & H_2S	1	19.0	100 MM	Ambient

28 Emission Standard

Pollutants (SPM, SO2, etc)	Emission Standard Limit (mg/Nm3)	Proposed Limit (mg/Nm^3)	MPCB Consent (mg/Nm3)
SPM/TPM	150 mg/Nm^3	150 mg/Nm^3	150 mg/Nm^3
SO2	278 kg /d	278 kg /d	278 kg /d
HCL	35 mg/Nm^3	35 mg/Nm^3	35 mg/Nm^3
NH3	50 PPM	50 PPM	50 PPM

29 Ambient Air Quality Data

Pollutant	Permissible Standard	Proposed Concentration (in µg/m3) – Max. Value	Remarks
PM10	100 µg/m3	89.9	-
PM2.5	60 µg/m3	42.3	
SO2	80 µg/m3	12.2	
NO2	80 µg/m3	25.7	
CO	4 µg/m3	0.72	

30 Details of Fuel to be used:

Sr. No	Fuel	Daily Consumption (TPD/KLD)		Calorific value (Kcals /kg)	% Ash	% Sulphur
		Existing	Proposed			
1	Gas	--	--			
2	Naphtha	--	--			
3	HSD	50 Lit/d	50 Lit/d	10270	0.02%	< 1%
4	Fuel Oil	2.4 KL/D	--	10000	0.1 %	3.5 %
5	Coal	15.0 MT/D	Additional 5.0 MT/D	5600 to 6200	15 to 20 %	

<table>
<tr><td></td><td></td><td>
<table>
<tr><td>6</td><td>Lignite</td><td>--</td><td>--</td><td></td><td></td><td></td></tr>
<tr><td>7</td><td>Other (Pl. specify)</td><td>--</td><td>--</td><td></td><td></td><td></td></tr>
</table>
Source of fuel: Nearby market
Mode of transportation of fuel to site: By Road</td></tr>
<tr><td>31</td><td>Energy</td><td>Power supply:
Existing power requirement: 1220 KVA
Proposed power requirement: 1000 KVA
Total – 2220 KVA
Source - Maharashtra State Electricity Development Corporation Ltd. (MSEDCL)
DG sets:
Number and capacity DG sets to be used (existing and proposed)
Existing – 590 KVA & proposed - 610 KVA
Details of the non-conventional renewable energy proposed to be used : Nil</td></tr>
<tr><td>32</td><td>Green Belt Development</td><td>Green belt area (Sq. m.): 9308 sq meter
Number and species of trees to be planted
Existing nos. 2500 of trees along with lawn.
Proposed nos.1500 tree of trees with plant species-
<table>
<tr><th>S. No</th><th>Scientific Name</th><th>Common Name</th></tr>
<tr><td>1</td><td>Acacia senegal</td><td>Kher</td></tr>
<tr><td>2</td><td>Azadirachta indica</td><td>Limdo</td></tr>
<tr><td>3</td><td>Citrus Medica</td><td>Butlimbo</td></tr>
<tr><td>4</td><td>Clerrodendron phlomidis</td><td>Arni</td></tr>
<tr><td>5</td><td>Cocous Nucifera</td><td>Nariyal</td></tr>
<tr><td>6</td><td>Delomix regia</td><td>Gulmohar</td></tr>
<tr><td>7</td><td>Eucalyptus spp</td><td>Nilgiri</td></tr>
<tr><td>8</td><td>Ficus glomerata</td><td>Umbar</td></tr>
<tr><td>9</td><td>Ficus hispida</td><td>Dhed Umbar</td></tr>
<tr><td>10</td><td>Ficus religiosa</td><td>Peepal</td></tr>
<tr><td>11</td><td>Mangifera indica</td><td>Keri</td></tr>
</table>
Number, size, age and species of trees to be cut, trees to be transplanted - Not any</td></tr>
<tr><td>33</td><td>Details of Pollution Control Systems:</td><td>
<table>
<tr><th>S. No.</th><th></th><th>Existing pollution control system</th><th>Proposed to be installed</th></tr>
<tr><td>1</td><td>Air</td><td>Scrubbers & Mechanical Dust Collector</td><td>Scrubbers & Bag Filter</td></tr>
<tr><td>2</td><td>Water</td><td>ETP & MEE</td><td>ETP, RO, MEE & STP</td></tr>
<tr><td>3</td><td>Noise</td><td>acoustic enclosures</td><td>acoustic enclosures</td></tr>
<tr><td>4</td><td>Solid Waste</td><td>Disposal with TSDF & Incinerator</td><td>Disposal with TSDF, Co-gen & Incinerator</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><td>34</td><td>Environmental Management plan Budgetary Allocation</td><td>Capital cost (With break up): Rs. 525 Lacs
Recurring Cost (Rs. Lacs/annum): 79 Lacs/ Annum
<table>
<tr><th>S. No</th><th>Particular</th><th>Recurring cost per annum</th><th>Capital cost</th></tr>
<tr><td>1</td><td>Air pollution control</td><td>0.5 lac</td><td>40.0 Lac</td></tr>
<tr><td>2</td><td>Water pollution control</td><td>40.0 Lac</td><td>438 Lac</td></tr>
<tr><td>3</td><td>Noise pollution control</td><td>0.3 lac</td><td>5.0 lac</td></tr>
<tr><td>4</td><td>Environmental monitoring & management</td><td>12 Lac</td><td>5.0 lac</td></tr>
<tr><td>5</td><td>Occupational Health</td><td>0.7 lac</td><td>5.0 lac</td></tr>
<tr><td>6</td><td>Green Belt</td><td>0.5 lac</td><td>2.0 lac</td></tr>
<tr><td>7</td><td>Solid waste management</td><td>25 Lac</td><td>30 Lac</td></tr>
<tr><td>8</td><td>Others (Pls Specify)</td><td>-</td><td>-</td></tr>
<tr><td colspan="2">Total</td><td>79 lac/annum</td><td>525 Lacs</td></tr>
</table></td></tr>
<tr><td>35</td><td>EIA Submitted (If yes then submit the salient features)</td><td>Period of data collected – Winter Season (Dec. 2012 to Feb. 2013) + Additional one month – May, 2015
Details of the primary data collection (i.e. location of the sample collection, number of visit, etc) – 8 locations have been selected for air, noise, water, soil data collection & monitoring. Results & conclusions have been incorporated in Chapter III of Final EIA/EMP Report.
Details of the secondary data collection (i.e. Source and year of data) – Secondary data for 10 km radius has been collected like socio economic survey, list of flora and fauna etc. and have been incorporated in Chapter III of Final EIA/EMP Report.
Potential hazard and mitigation measures – The list of identified hazards along with their mitigation measures have been incorporated in Chapter VII of Final EIA/EMP Report.
Conclusion of the EIA study – The summary has been incorporated in Chapter XI of Final EIA/EMP Report.</td></tr>
<tr><td>36</td><td>Public hearing report (If public hearing conducted then submit the salient features)</td><td><u>Not Applicable</u>
As per MoEFCC, O.M. dated 10th December, 2014 (Copy enclosed as Annexure - 2), "projects or activity or units located within Industrial Estate or Parks will be exempted from Public hearing." Since, our project falls in Notified Industrial Area (Copy of Gazette Notification of area enclosed as Annexure - 3); thus, the above O.M. is applicable for our proposed enhancement project.</td></tr>
<tr><td>37</td><td>Air pollution, water pollution issues in the project area, If any</td><td>No such issue identified</td></tr>
</table>

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

STORAGE FACILITIES (RAW MATERIALS)

Particulars (Raw Materials)	**UOM**	**Type of storage**	**R.M. Ware House Capacity**	
			Existing	**Proposed**

			(MT)	(MT)
Acetonitrile	Kgs.	BAG	0.5	1
Acrylamide	Kgs.	BAG	1	1
Aceto Butyrolactone	Kgs.	DRUM	18	25
Aluminium Chloride	Kgs.	DRUM	2	3
Anisole	Kgs.	DRUM	1	1
Crotonaldehyde	Kgs.	DRUM	5	7
2,3-Dichloro Pyrazine	Kgs.	DRUM	2	3
Dibromo Dimethyl Hydantion	Kgs.	DRUM	2	3
7-Ethyl Tryptophol	Kgs.	DRUM	2	3
7-Ethyl Tryptophol (7-ETP) [For ED3-A batches)	Kgs.	DRUM	4	6
4-Fluoro Aniline	Kgs.	DRUM	2	3
KETO INDOLE (KI)	Kgs.	F/D	0.5	1
Methyl-3- Oxopentanoate	Kgs.	DRUM	5	7
4-Methoxy-2-Nitroaniline	Kgs.	BAG	9	13
Methyl-3- Oxopentanoate [Non DMF]	Kgs.	DRUM	3	4
2-Ethylamino-Ethanol	Kgs.	DRUM	12	17
Monochlorobenzene	Kgs.	DRUM	1.5	2
Para hydroxy Aceto Phenone(PHAP)	Kgs.	SACK	70	98
Phenyl Hydrazine Hydrochloride	Kgs.	BAG	1	1
Salicylic Acid I.P.	Kgs.	BAG	5	7
Sodium Azide	Kgs.	F/D	18	25
Azobisisobutyl isonitrile(AIBN)	Kgs.	BOX	0.5	1
Hariocat	Kgs.	DRUM	0.1	0
5% Paladium in Charcoal Catalyst (Type 487) / RD-9205	Kgs.	DRUM	0.02	0
Activated Alloy Catalyst - KALCAT1961 (Raney	Kgs.	DRUM	1.5	2
Tetra Butyl Ammonium Bromide	Kgs.	F/D	0.5	1
Activated Charcoal - BW 280 / MM-WC	Kgs.	BAG	0.3	0
Activated Carbon - Grade 55 NS / MM-WC	Kgs.	BAG	10	14
ACTIVATED CARBON [PURCARB SC 40 / MMW SP 1]	Kgs.	BAG	5	7
Carbon Di-Sulphide	Kgs.	DRUM	1	1
HYFLOW (PURIFIED SILICONS-CELITE 545)	Kgs.	BAG	2	3
Diethylamine	Kgs.	DRUM	1.5	2
Dimethyl Sulphate (D.M.S.)	Kgs.	DRUM	1	1
Disodium EDTA	Kgs.	BOTTEL	0.01	0
POTASSIUM HYDROXIDE FLAKES	Kgs.	BAG	1.5	2
Potassium Iodide	Kgs.	DRUM	0.1	0
Para Toulene Sulphonic Acid	Kgs.	BAG	0.3	0
Sodium Bi-Carbonate	Kgs.	BAG	0.5	1
Sodium hydro sulphite(Anhydrous)	Kgs.	TIN DRUM	1	1
SODIUM BOROHYDRIDE	Kgs.	TIN DRUM	0.5	1

Sodium Nitrite	Kgs.	BAG	10	14
SODIUM METABISULPHITE	Kgs.	BAG	1.5	2
Sodium Hydrogen Sulphide 30%	Kgs.	DRUM	5	7
Sodium Iodide	Kgs.	DRUM	0.3	0
SODIUM BOROHYDRIDE [NON DMF]	Kgs.	TIN DRUM	2	3
SODIUM HYPOCHLORITE SOLUTION FOR NND	Kgs.	DRUM	10	14
SALT REFINED	Kgs.	BAG	5	7
SULPHUR	Kgs.	BAG	20	28
Triethylamine	Kgs.	DRUM	1	1
TRIETHYLAMINE HYDROCHLORIDE(FOR LOSARTAN POTA	Kgs.	BAG	12	17
Ammonia Gas	Kgs.	TONNER	3.2	4
Hydrogen Gas	CUM3	CYL	0.57	1
4-AMINO-N-(3-CHLOROPYRAZYNYLE) BENZENE SULFONAMIDE [SULPHOMETHOZYPYRAZINE]	Kgs.	F/D	1.5	2
BCFI (2-Butyl-4-Chloro-5-Formyl Imidazole)	Kgs.	F/D	3	4
BCFI (2-Butyl-4-Chloro-5-Formyl Imidazole) [ND]	Kgs.	F/D	10	14
4-CHLOROBENZOYL CHLORIDE	Kgs.	F/D	1	1
INTERMEDIATE - I (ND) [4¿-{{2-butyl-4-chloro-5-(hydroxymethyl)-1H imidazol-1-yl]methyl}biphenyl-2-Ca	Kgs.	BAG	10	14
2-CYANO-4-BROMOMETHYL-BIPHENYL [OTBB]	Kgs.	BAG	3	4
2-CYANO-4'METHYL-BIPHENYL (OTBN) [NON DMF]	Kgs.	F/D	12	17
SODIUM HYDROXIDE	Kgs.	BAG	20	28
Nitric Acid	Kgs.	CARBOY	5	7
Sulphuric Acid (Commercial grade)	Kgs.	TANK	20	28
THIOGLYCOLIC ACID	Ltrs.	BOTTEL	2	3
RECD. TRIETHYLAMINE HYDROCHLORIDE FOR LOSARTAN BASE	Kgs.	BAG	20	28
ACTIVATED CARBON -GRADE AC-ULTIMA	Kgs.	BAG	0.2	0
CAUSTIC LYE	Kgs.	TANK	20	28
Hydrochloric Acid	Kgs.	TANK	15	21
HYDROCHLORIC ACID [CP GRADE : NLT 35%]	Kgs.	TANK	15	21
Liquor Ammonia	Kgs.	DRUM	2.2	3
Sulphuric Acid (C.P.Grade)	Kgs.	CARBOY	2	3

Acetic Acid	Kgs.	CARBOY	5	7
Acetone	Kgs.	TANK	16	22
Cyclohexane	Kgs.	TANK	16	22
Ethyl Acetate	Kgs.	TANK	11.4	16
Isopropyl Alcohol	Kgs.	TANK	18	25
Methanol	Kgs.	TANK	18	25
METHYLENE CHLORIDE / DICHLOROMETHANE	Kgs.	TANK	18	25
MONO ETHYLENE GLYCOL	Kgs.	DRUM	10	14
1-OCTANOL	Ltrs.	BOTTEL	0.05	0
TOLUENE	Kgs.	TANK	16	22
TOLUENE	Kgs.	TANK	16	22
1,3 CYCLOHEXANEDIONE	Kgs.	BOX	0.5	1

STORAGE FACILITIES (PRODUCTS)

S. NO.	PARTICULARS (Products Finished Goods)	TYPE OF STORAGE	BSR CAPACITY IN MT.	
			EXISTING	PROPOSED
1	PHPA	BAG	30	40
2	LOSARTAN BASE	BAG	10	30
3	ETODOLAC	DRUM	7	10
4	LOSARTAN POTASSIUM	DRUM	2	5
5	MMBI	DRUM	9	9
6	HNDA	DRUM	6	20
7	MKI	DRUM	0.5	0.5
8	SMP	DRUM	0.5	0.5
9	6 FTQ	DRUM	2	2
10	5NSA	DRUM	0.2	0.2
11	NDA	DRUM	0.3	10

3. The proposal has been considered by SEIAA in its 99th 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 :

General Conditions for Pre- construction phase:-

(i) PP to achieve Zero Liquid Discharge (ZLD) by incorporating Multiple Effect Evaporator which shall have an independent energy meter (delinked from ETP energy meter).

(ii) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.

(iii) This environmental clearance is issued subject to implementation of online air monitoring facility equipment.

(iv) PP to provide STP having capacity 25 KLD next to ETP.

(v) All internal roads shall be of 6 M width.

(vi) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.

(vii) Proper Housekeeping programmers shall be implemented.

(viii) 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.

(ix) A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set.(If applicable)

(x) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.

(xi) Arrangement shall be made that effluent and storm water does not get mixed.

(xii) 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.

(xiii) 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.

(xiv) 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.

(xv) 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.

(xvi) 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.

(xvii) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.

(xviii) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.

(xix) 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.

(xx) The company shall undertake following Waste Minimization Measures :

- Metering of quantities of active ingredients to minimize waste.
- Reuse of by- products from the process as raw materials or as raw material substitutes in other process.
- Maximizing Recoveries.
- Use of automated material transfer system to minimize spillage.

(xxi) 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.

(xxii) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.

(xxiii) 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

(xxiv) 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

(xxv) 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.

(xxvi) 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.

(xxvii) 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, NOx (ambient levels as well as stack emissions) or critical sectorai 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.

(xxviii)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.

(xxix) 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.

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. The Environment department reserves the right 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.

6. **Validity of Environment Clearance**: The environmental clearance accorded shall be valid for a period of 7 years as per MoEF & CC Notification dated 29th April, 2015 to start of production operations.

7. 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.

8. 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.

9. Any appeal against this environmental 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.

(S. M Gavai)
Member Secretary, SEIAA.

Copy to:

1. Shri T. C. Benjamin, IAS (Retired), Chairman, SEAC-I, 602, PECAN, Marigold, Behind Gold Adlabs, Kalyani Nagar, Pune – 411014. .
2. Additional Secretary, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
3. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
4. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).
5. Regional Office, MPCB, Raigad.
6. Collector, Raigad
7. IA- Division, Monitoring Cell, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
8. Select file (TC-3)

(EC uploaded on)