PRE - FEASIBILITY REPORT

for

PROPOSED EXPANSION OF PESTICIDE & PESTICIDE INTERMEDIATES MANUFACTURING PLANT

of

M/s. COROMANDEL INTERNATIONAL LIMITED.
PLOT NO. Z/103/G, SEZ-2, DAHEJ, DIST: BHARUCH, GUJARAT, INDIA

AQUA AIR ENVIRONMENTAL ENGINEERS PVT. LTD.
(NABET/QCI Accredited EIA Consultant)
NABET/EIA/2023/IA0062 (Rev.03) Valid Up to Oct. 07, 2023
(MoEF Accredited Testing Laboratory): 15018/24/2019-CPW
(NABL Accredited Testing Laboratory): TC - 7328
(GPCB Recognized Schedule-II Environmental Auditor)
ISO 9001: 2015 Certified Company
OHSAS 18001: 2007 Certified Company

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1.0 Executive Summary

1.1 Project Details

M/s. Coromandel International Limited., Proposed Expansion of Pesticide & Pesticide Intermediates Manufacturing Plant at Plot No. Z/103/G, SEZ-2, Dahej, Dist: Bharuch, Gujarat, India.

1.1.1 Products along with Production Capacity

Sr. No.	Products	CAS Nos.	LD50 (mg/kg)	Quantity (MT/Annum)				
				As Per EC Granted	As Per CCA	Additional	Total	Remarks (As Per EC Granted + Additional = Total)
	Agrochemical Formulation							
1	Mancozeb 80% WP	8018-01-7	>5000mg/kg	0.0	26400	0.0	26400	
2	Mancozeb 75% WP	8018-01-7	>5000 mg/kg	0.0	12000	0.0	12000	
3	Mancozeb 75% WDG	8018--01-7	>5000 mg/kg	0.0	12000	0.0	12000	
4	Mancozeb SC (420-600 gm/Ltr)	8018-01-7	>2000 mg/kg	0.0	3300	0.0	3300	
5	Mancozeb SE (420-500 gm/Lit)	8018-01-7	>2000 mg/kg	0.0	3300	0.0	3300	
6	Mancozeb OS 600 gm/lit	8018-01-7	>2000 mg/kg	0.0	3300	0.0	3300	
7	Mancozeb (63%) + Carbendazim (12%)	8018-01-7 10605-21-7	>5000 mg/kg	0.0	1680	0.0	1680	
8	Mancozeb (64%) + Metalyxyl (8%)	8018-01-7 57837-19-1	>5000mg/kg.	0.0	1680	0.0	1680	
9	Mancozeb (64%) + cymoxanil (8%)	8018-01-7 57966-95-7	>2000 mg/kg	0.0	1680	0.0	1680	
10	Propineb 70% WP	9016-72-2	3708 mg/kg	0.0	9240	0.0	9240	
11	Glyphosphate 71% ammonium salt	40465-66-5	>3000 mg/kg	0.0	4620	0.0	4620	

	(prills)	7783-20-2						
12	Chlorpyriphos 20% EC	2912-88-2	500 mg/kg	0.0	11040	0.0	11040	
13	Monocrotophos 36% SL	6923-22-4	20 mg/kg	0.0	7920	0.0	7920	
14	Monocrotophos 40% SL (W/V)	6923-22-4	0.76 mg/kg	0.0	2640	0.0	2640	
15	Diclorovos 76% EC	62-73-7	80 mg/kg	0.0	1980	0.0	1980	
16	Acephate 40% SL	30560-19-1	350 mg/Kg	0.0	1680	0.0	1680	
17	Acephate 75% SL	30560-19-1	350 mg/Kg	0.0	8520	0.0	8520	
18	Acephate 75% Prills	30560-19-1	1030 mg/kg	0.0	660	0.0	660	
19	Acephate 95% Prills	30560-19-1	1030 mg/kg	0.0	1800	0.0	1800	
20	Acephate 97% Prills	30560-19-1	1030 mg/kg	0.0	1800	0.0	1800	
21	Chloropyriphos 38.7% EC	2921-88-2	292 mg/kg.	0.0	1680	0.0	1680	
22	Chloropyriphos 480 gm/lit EC	2921-88-2	240 mg/kg	0.0	1680	0.0	1680	
23	Chloropyriphos 50% EC	2912-88-2	500 mg/kg	0.0	1680	0.0	1680	
24	Chloropyriphos 50% + Cypermethrine 5% EC	2921-88-2 52315-07-8	800 mg/kg	0.0	1680	0.0	1680	
25	Cypermethrine 10% EC	52315-07-8	2400 mg/kg	0.0	4980	0.0	4980	
26	Cypermethrine 25% EC	52315078	321.64 mg/kg	0.0	1980	0.0	1980	
27	Methamidophos 600 gm/lit SL	10265-92-6	51 mg/kg	0.0	5280	0.0	5280	
28	Imidaclopyrid 17.8% SL	138261-41-3	480 mg/kg	0.0	4980	0.0	4980	
29	Alphamethrin 5% EC	67375-30-8	>300-2000 mg/kg	0.0	1200	0.0	1200	
30	Alphamethrin 10% EC	67375-30-8	>300-2000 mg/kg	0.0	1200	0.0	1200	
31	Alphamethrin 2.5% EC	67375-30-8	>300-2000 mg/kg	0.0	2388	0.0	2388	
32	Permethrin 25% EC	52645-53-1	> 5,000 mg/kg	0.0	1200	0.0	1200	
33	Permethrin 40% EC	52645-53-1	> 5,000 mg/kg	0.0	780	0.0	780	
34	Deltamethrin 2.8%	52918-	>300-2000	0.0	6420	0.0	6420	

	EC	63-5	mg/kg					
35	Cypermethrin 5% EC	52315-07-8	355 mg/kg	0.0	9900	0.0	9900	
36	Cypermethrin 20% EC	52315-07-8	355 mg/kg	0.0	2472	0.0	2472	
37	Lambdamethrin 5% EC	91465-08-6	668 mg/kg	0.0	6000	0.0	6000	
38	Lambdamethrin 10% EC	91465-08-6	668 mg/kg	0.0	3000	0.0	3000	
39	Bifenthrin 10% EC	82657-04-3	54 mg/kg	0.0	2400	0.0	2400	
40	Bifenthrin 2.5% EC	82657-04-3	74.90mg/kg	0.0	1200	0.0	1200	
41	Tricyclazol 75% WP	41814-78-2	314 mg/kg	0.0	720	0.0	720	
42	Thiamethoxam 25% WG	153719-23-4	> 5000 mg/kg	0.0	1320	0.0	1320	
43	Sulphur 80% WG	7704-34-9	>5000 mg/kg	0.0	9000	0.0	9000	
44	Sulphur 55.15% SC (800 gm/lit)	7704-34-9	>5000 mg/kg	0.0	9000	0.0	9000	
45	Sulphur 40% SC	7704-34-9	>5000 mg/kg	0.0	9000	0.0	9000	
Total Formulation Production Capacity As Per Valid CCA				**0.0**	**208380**	**0.0**	**208380**	
	GROUP A							
1	m-Phenoxy Benzaldehyde	39515-51-0	1222 mg/kg	2000	0.0	0.0	2000	
2	Cypermethric Acid Chloride	52314-67-7		2000	0.0	0.0	2000	
3	Lamda Cyhalothric Acid Chloride	72748-35-7	92.9 mg/kg	150	0.0	0.0	150	
4	Delta Methric Acid Chloride	55710-82-2		240	0.0	0.0	240	
5	Cypermethrin (T) & Beta, Zeta, Theta etc Isomers	52315-07-8	57500 ug/kg	6000	0.0	0.0	6000	
6	Alphamethrin (T)	67375-30-8	200 mg/kg	180	0.0	0.0	180	
7	Deltamethrin (T)	52918-63-5	5.0 mg/kg	180	0.0	0.0	180	
8	Permethrin (T)	52645-53-1	5.0 mg/kg	600	0.0	0.0	600	
9	Lamda Cyhalothrin (T)	91465-08-6	668 mg/kg	400	0.0	0.0	400	
10	Bifenthrin (T)	82657-04-3	2000 mg/kg	300	0.0	0.0	300	
	MAX. PRODUCTION OF			**6000**	**0.0**	**0.0**	**6000**	

	GROUP A							
	GROUP B							
1	MMP	10265-92-6	08 mg/kg	1200	0.0	0.0	1200	
2	Profenofos	41198-08-7	500 mg/kg	10000	0.0	0.0	10000	
3	DETC (Diethyl Thiophosphoryl Chloride)	2524-04-1	953mg/kg	2000	0.0	0.0	2000	
4	DMTC (Dimethyl Thiophosphory Chloride)	2524-03-1	0.77 ml/kg	2000	0.0	0.0	2000	
5	DMTC Amide (Dimethyl Thiophosphory Chloride Amide)	2524-03-0	540 mg/kg	15000	0.0	0.0	15000	
6	TCAC (Trichloro Acetyl Chloride)	76-02-8	600 mg/kg	5000	0.0	0.0	5000	
7	Chlorpyriphos	2921-88-2	200 mg/kg	3000	0.0	0.0	3000	
	MAX. PRODUCTION OF GROUP B			**15000**	**0.0**	**0.0**	**15000**	
	GROUP C							
1	PMIDA	5994-61-6	2000 mg/kg	2000	0.0	0.0	2000	
2	Glyphosate (T)	1071-83-6	5600 mg/kg	4000	0.0	0.0	4000	
3	Triclopyr Butotyl Ester	64700-56-7	1100 mg/kg	1000	1000	0.0	1000	
4	Bispyribac Sodium	125401-92-5	2635mg/kg	500	0.0	0.0	500	
5	Pichloram	2545-60-0	5000 mg/kg	1000	0.0	0.0	1000	
6	Fluroxypyr	69377-81-7	2405 mg/kg	1500	1500	0.0	1500	
7	Imazethapyr	81335-77-5	5000 mg/kg	1500	0.0	0.0	1500	
8	Glufosinate Ammonia	77182-82-2	1620 mg/kg	1000	0.0	0.0	1000	
9	Ethoxysulfuron	126801-58-9	3270 mg/kg	5000	5000	0.0	5000	
	MAX. PRODUCTION OF GROUP C			**5000**	**5000**	**0.0**	**5000**	
	GROUP D							
1	Mancozeb Tech.	8818-01-7	5000 mg/kg	15000	15000	20016	35016	
2	Propineb	12071-83-9	8500 mg/kg	2000	2000	1000	3000	

3	Azoxystrobin	131860-33-8	5000 mg/kg	2000	2000	0.0	2000	
4	Tebuconazol	107534-96-3	3352 mg/kg	5000	5000	0.0	5000	
5	Wettable Sulphur	0007704-34-9	NA	5000	5000	0.0	5000	
6	Chlorothalonil	1897-45-6	10 gm/kg	1000	1000	0.0	1000	
7	Kresoxim-methyl	143390-89-0	5000 mg/kg	2000	2000	0.0	2000	
8	Picoxystrobin	117428-22-5	2000 mg/kg	2000	2000	0.0	2000	
9	Trifloxystrobin	141517-21-7	5050 mg/kg	2000	0.0	0.0	2000	
	MAX. PRODUCTION OF GROUP D			**15000**	**15000**	**20016**	**35016**	
	GROUP E							
1	Imidacloprid	138261-41-3	410 mg/kg	1000	0.0	0.0	1000	
2	Acetamiprid	135410-20-7	146 mg/kg	1000	1000	0.0	1000	
3	2-Chloro-5- Chloro Methyl Pyridine	70258-18-3	50% Lethal dose	8300	8300	0.0	8300	
4	Nitro Imino Imidazolidine	5465-96-3	50% Lethal dose	600	600	0.0	600	
5	Ethyl-N-Cynoethanimideate	1558-82-3	5000 mg/kg	1000	1000	0.0	1000	
6	Cartap	15263-53-3	650 mg/kg	1000	1000	0.0	1000	
7	Thiamethoxam	153719-23-4	1563 mg/kg	1500	0.0	0.0	1500	
8	Clothianidin	210880-92-5	3044 mg/kg	2000	2000	0.0	2000	
9	Emamectin Benzoate	155569-91-8	1516 mg/kg	2000	3000	0.0	2000	
10	Indoxacarb	173584-44-6	1909 mg/kg	3000	8300	0.0	3000	
	MAX. PRODUCTION OF GROUP E			**8300**	**8300**	**0.0**	**8300**	
	GROUP F							
1	Metiram	9006-42-2	> 500 mg/kg	0.0	0.0	7000	7000	
	MAX. PRODUCTION OF GROUP F			**0.0**	**0.0**	**7000**	**7000**	
	GROUP G							
2	Cyproconazole	94361-06-5	>2000 mg/kg	0.0	0.0	3000	3000	

	MAX. PRODUCTION OF GROUP G		**0.0**	**0.0**	**3000**	**3000**	
	TOTAL PRODUCTION OF ALL GROUPS AS PER EC		**49300**	**28300**	**30016**	**79316**	

Sr. No.	**By product**	**Production capacity, MT/Annum**				**Remarks**
		As Per EC Granted	**As Per CCA Existing**	**Additional**	**Total**	
1	HCl Soln. (30%)	38520	0.0	0.0	38520	
2	HBr Soln. (30%)	10428	0.0	0.0	10428	
3	Na_2SO_3 soln. (20%)	41580	0.0	0.0	41580	
4	Na_2SO_4 99%	6252	12290	20000	26252	
5	$AlCl_3$ soln.	8196	0.0	0.0	8196	
6	Sodium chloride salt	72	0.0	0.0	72	
7	KBr soln W.C	1968	0.0	0.0	1968	
8	CuCl2 soln.	996	0.0	0.0	996	
9	NH4Cl	6096	0.0	0.0	6096	
10	Bromobenzene	156	0.0	0.0	156	
11	NaBr soln.	13092	0.0	0.0	13092	

***EC is not fully Converted into CCA.**

1.2 Raw Material Requirement

Sr. No.	Product Name	Raw Material	CAS NO.	Quantity (MT/Annum)			Source	Mode Of Transport	Distance Of Source From Project Site In Kilometers	Linkage
				Existing	Proposed	Total				
	GROUP-A									
1	**m-Phenoxy Benzaldehyde**	Bromine	7726-95-6	1626	0.0	1626	Domestic	By Road	**520**	Open Market
		Chlorine	7782-50-5	730	0.0	730	Domestic	By Road	**50**	Open Market
		Ethylene dichloride	107-06-2	14908	0.0	14908	Domestic/ Import	By Road	**350**	Open Market
		Anhydrous AlCl3	7446-70-0	1024	0.0	1024	Domestic	By Road	**80**	Open Market
		Benzaldehyde	100-52-7	2110	0.0	2110	Domestic	By Road	**80**	Open Market
		5% Sodium Thio sulphate	10102-17-7	1500	0.0	1500	Domestic	By Road	**80**	Open Market
		Ethylene glycol	107-21-1	1074	0.0	1074	Domestic	By Road	**350**	Open Market
		Toluene	108-88-3	7738	0.0	7738	Domestic	By Road	**350**	Open Market
		Catalyst		70	0.0	70	Domestic	By Road	**250**	Open Market
		Phenol	108-95-2	1518	0.0	1518	Domestic/ Import	By Road	**250**	Open Market
		KOH flakes	1310-58-3	936	0.0	936	Domestic	By Road	**140**	Open Market
		CuCl	7758-89-6	66	0.0	66	Domestic	By Road	**80**	Open Market

		10% NaOH solution	1310-73-2	1000	0.0	1000	Domestic	By Road	**80**	Open Market
		20% H2SO4 solution	7664-93-9	3100	0.0	3100	Domestic	By Road	**25**	Open Market
2	**Cypermethric Acid Chloride**	Acrylonitrile	107-13-1	898	0.0	898	Domestic	By Road	**350**	Open Market
		Carbon tetrachloride	99 56-23-5.	3396	0.0	3396	Domestic	By Road	**250**	Open Market
		Acetonitrile	75-05-8	300	0.0	300	Domestic	By Road	**350**	Open Market
		CuCl2 2H2O	10125-13-0	26	0.0	26	Domestic	By Road	**100**	Open Market
		Diethyl amine hydrochloride	660-68-4	26	0.0	26	Domestic	By Road	**100**	Open Market
		98% H2SO4	7664-93-9	2078	0.0	2078	Domestic	By Road	**25**	Open Market
		SOCl2	7719-09-7	3786	0.0	3786	Domestic	By Road	**258**	Open Market
		DMF	68-12-2.	28	0.0	28	Domestic	By Road	**257**	Open Market
		Hexane	110-54-3	28200	0.0	28200	Domestic	By Road	**254**	Open Market
		Isobutylene	115-11-7	3814	0.0	3814	Domestic	By Road	**159**	Open Market
		TEA	121-44-8	1708	0.0	1708	Domestic	By Road	**550**	Open Market
		NaOH Flakes	1310-73-2	1224	0.0	1224	Domestic	By Road	**140**	Open Market
		HCl (35%)	7647-01-0	600	0.0	600	Domestic	By Road	**25**	Open Market
		Hyflow	68855-54-9	40	0.0	40	Domestic	By Road	**100**	Open Market
3	**lambda Cyhalothric**	Methyl Pentanoate		159.57	0.0	159.57	Imported	By Road	**250**	Open

	acid chloride		624-24-8							Market
		Trichloro trifluoro ethane	76-13-1	195.84	0.0	195.84	Imported	By Road	**250**	Open Market
		Tertiary Butanol	75-65-0	1810.15	0.0	1810.15	Domestic	By Road	**250**	Open Market
		Sodium metal	7440-23-5	30.46	0.0	30.46	Domestic	By Road	**100**	Open Market
		Hexane	110-54-3	1175.05	0.0	1175.05	Domestic	By Road	**254**	Open Market
		DMF	68-12-2.	320.74	0.0	320.74	Domestic	By Road	**250**	Open Market
		H2SO4	7664-93-9	6.38	0.0	6.38	Domestic	By Road	**25**	Open Market
		Caustic flakes	1310-73-2	220.36	0.0	220.36	Domestic	By Road	**140**	Open Market
		Methanol	67-56-1	696.32	0.0	696.32	Domestic	By Road	**250**	Open Market
		HCl (30%)	7647-01-0	515.28	0.0	515.28	Domestic	By Road	**25**	Open Market
		Thionyl chloride	7719-09-7	82.69	0.0	82.69	Domestic	By Road	**100**	Open Market
4	**Delta Methric Acid Chloride**	Cis SS-RR CMA	38609-97-1	932.04	0.0	932.04	Imported	By Road	**250**	Open Market
		C.S.Lye (48%)	1310-73-2	688.31	0.0	688.31	Domestic	By Road	**140**	Open Market
		MDC	75-09-2	2204.27	0.0	2204.27	Domestic	By Road	**250**	Open Market
		30% HCl	7647-01-0	480.00	0.0	480.00	Domestic	By Road	**25**	Open Market

		AlCl3	7446-70-0	180.58	0.0	180.58	Domestic	By Road	**100**	Open Market
		Benzene	71-43-2	850.49	0.0	850.49	Domestic	By Road	**100**	Open Market
		Bromine	7726-95-6	998.68	0.0	998.68	Domestic	By Road	**520**	Open Market
		Sodium thiosulphate	7772-98-7	15.15	0.0	15.15	Domestic	By Road	**100**	Open Market
		n-Hexane	110-54-3	1165.05	0.0	1165.05	Domestic	By Road	**254**	Open Market
		Sulphuric acid	7664-93-9	93.20	0.0	93.20	Domestic	By Road	**25**	Open Market
		Methanol	67-56-1	1025.24	0.0	1025.24	Domestic	By Road	**25**	Open Market
		Soda ash	497-19-8	110.68	0.0	110.68	Domestic	By Road	**100**	Open Market
		Toluene	108-88-3	326.21	0.0	326.21	Domestic	By Road	**350**	Open Market
		DMF	68-12-2.	3.73	0.0	3.73	Domestic	By Road	**25**	Open Market
		Thionyl chloride	7719-09-7	98.80	0.0	98.80	Domestic	By Road	**25**	Open Market
5	**Cypermethrin (T) & Beta, Zeta, Theta etc Isomers**	Cypermethric acid chloride	52314-67-7	3510.00	0.0	3510.00	Domestic/ Import	By Road	**250**	Open Market
		m-Phenoxy benzaldehyde	39515-51-0	3000.00	0.0	3000.00	Domestic	By Road	**250**	Open Market
		NaCN	143-33-9	816.00	0.0	816.00	Domestic	By Road	**250**	Open Market
		n-Hexane	110-54-3	18000.00	0.0	18000.00	Domestic	By Road	**254**	Open Market
		4% Soda ash solution	497-19-8	3000.00	0.0	3000.00	Domestic	By Road	**100**	Open Market
		Sodium hypo solution	7681-52-9	2394.0	0.0	2394.0	Domestic	By Road	**100**	Open

										Market
6	**Alphamethrin (T)**	m-Phenoxy benzaldehyde	39515-51-0	123.58	0.0	123.58	Domestic	By Road	**250**	Open Market
		Cypermethric acid chloride	52314-67-7	144.52	0.0	144.52	Domestic	By Road	**250**	Open Market
		NaCN	143-33-9	33.75	0.0	33.75	Domestic	By Road	**250**	Open Market
		5% Soda ash solution	497-19-8	121.15	0.0	121.15	Domestic	By Road	**90**	Open Market
		IPA	67-63-0	392.71	0.0	392.71	Domestic	By Road	**250**	Open Market
		8% NaOCl solution	7681-52-9	98.65	0.0	98.65	Domestic	By Road	**100**	Open Market
		n-Hexane	110-54-3	744.23	0.0	744.23	Domestic	By Road	**254**	Open Market
7	**Deltamethrin (T)**	Deltamethrin acid chloride	52918-63-5	158.50	0.0	158.50	Domestic	By Road	**100**	Open Market
		m-Phenoxy benzaldehyde	39515-51-0	96.66	0.0	96.66	Domestic	By Road	**250**	Open Market
		n-Hexane	110-54-3	799.61	0.0	799.61	Domestic	By Road	**254**	Open Market
		NaCN	143-33-9	26.30	0.0	26.30	Domestic	By Road	**250**	Open Market
		5% Soda ash solution	497-19-8	133.27	0.0	133.27	Domestic	By Road	**90**	Open Market
		IPA	67-63-0	417.57	0.0	417.57	Domestic	By Road	**250**	Open Market
		8% NaOCl solution	7681-52-9	74.99	0.0	74.99	Domestic	By Road	**100**	Open Market
8	**Permethrin (T)**	Cypermethric acid chloride	52314-67-7	385.2	0.0	385.2	Domestic	By Road	**250**	Open Market
		MPBAL	100-52-7	330	0.0	330	Domestic	By Road	**257**	Open Market

		10% soda ash solution	497-19-8	600	0.0	600	Domestic	By Road	**90**	Open Market
		c.s.lye	1310-73-2	30	0.0	30	Domestic	By Road	**140**	Open Market
		n-hexane	110-54-3	1800	0.0	1800	Domestic	By Road	**254**	Open Market
9	**Lamda Cyhalothrin (T)**	TFP acid chloride	2719-27-9	256	0.0	256	Domestic	By Road	**250**	Open Market
		m-Phenoxy benzaldehyde	39515-51-0	188	0.0	188	Domestic	By Road	**250**	Open Market
		NaCN	143-33-9	51.2	0.0	51.2	Domestic	By Road	**250**	Open Market
		5% Soda ash solution	497-19-8	200	0.0	200	Domestic	By Road	**90**	Open Market
		IPA	67-63-0	420	0.0	420	Domestic	By Road	**250**	Open Market
		8% NaOCl	7681-52-9	592.8	0.0	592.8	Domestic	By Road	**100**	Open Market
		n-Hexane	110-54-3	1021.6	0.0	1021.6	Domestic	By Road	**254**	Open Market
10	**Bifenthrin (T)**	TFPA Acid	359-48-8	177.00	0.0	177.00	Domestic	By Road	**250**	Open Market
		PMBC	824-94-2	168.00	0.0	168.00	Domestic	By Road	**250**	Open Market
		solvent	64742-47-8	180.0	0.0	180.0	Domestic	By Road		Open Market
	GROUP-B									
1	**MMP**	DMPAT	17321-47-0	1233.6	0.0	1233.6	Imported	By Road	**250**	Open Market
		Toluene	108-88-3	1605.6	0.0	1605.6	Domestic	By Road	**350**	Open Market
		Dimethyl Sulphate	77-78-1	57.6	0.0	57.6	Domestic	By Road	**100**	Open Market

2	**Profenofos**	2-Chloro Phenol	99 95-57-8	3820	0.0	3820	Imported	By Road	**250**	Open Market
		Bromine	7726-95-6	4640	0.0	4640	Domestic	By Road	**520**	Open Market
		DETC	2524-04-1	5750	0.0	5750	Domestic	By Road	**450**	Open Market
		Caustic Lye(26%)	1310-73-2	5250	0.0	5250	Domestic	By Road	**140**	Open Market
		Ethanol (99%)	64-17-5	15990	0.0	15990	Domestic	By Road	**100**	Open Market
		NaSH(27%)	16721-80-5	6090	0.0	6090	Domestic	By Road	**100**	Open Market
		n-Propyl Bromide	106-94-5	13150	0.0	13150	Domestic	By Road	**100**	Open Market
3	**DETC**	PSCl3	3982-91-0	2800	0.0	2800	Domestic	By Road	**100**	Open Market
		Ethanol	64-17-5	13140	0.0	13140	Domestic	By Road	**100**	Open Market
		Caustic flakes	1310-73-2	920	0.0	920	Domestic	By Road	**90**	Open Market
		Caustic lye 47%	1310-73-2	1160	0.0	1160	Domestic	By Road	**140**	Open Market
		Benzene	71-43-2	160	0.0	160	Domestic	By Road	**100**	Open Market
4	**DMTC**	PSCl3	3982-91-0	2440	0.0	2440	Domestic	By Road	**250**	Open Market
		Methanol	67-56-1	3492	0.0	3492	Domestic	By Road	**250**	Open Market
		Caustic lye 47%	1310-73-2	2484	0.0	2484	Domestic	By Road	**140**	Open Market
5	**DMTC Amide**	DMTC	753-73-1	18300	0.0	18300	Domestic	By Road	**480**	Open Market

		MDC	75-09-2	18300	0.0	18300	Domestic	By Road	**250**	Open Market
		Ammonia	7664-41-7	4125	0.0	4125	Domestic	By Road	**100**	Open Market
6	**Trichloro Acetyl Chloride**	Acetic acid	64-19-7	2490	0.0	2490	Domestic	By Road	**250**	Open Market
		Cl2	782-50-5	5520	0.0	5520	Domestic	By Road	**140**	Open Market
		S2CL2	10025-67-9	995	0.0	995	Domestic	By Road	**250**	Open Market
7	**Chlorpyriphos**	Trichloro acetyl chloride (TCAC)	76-02-8	4308.00	0.0	4308.00	Domestic	By Road	**200**	Open Market
		Acrylonitrile	107-13-1	1563.00	0.0	1563.00	Domestic	By Road	**250**	Open Market
		Solvent	64742-47-8	6600	0.0	6600	Domestic	By Road	**50**	Open Market
		Caustic lye	1310-73-2	45	0.0	45	Domestic	By Road	**140**	Open Market
		Ethylene dichloride	107-06-2	12054.00	0.0	12054.00	Domestic	By Road	**250**	Open Market
		Salt	7647-14-5	75.00	0.0	75.00	Domestic	By Road	**25**	Open Market
		DETC	2524-04-1	1929.00		1929.00	Domestic	By Road	**480**	Open Market
	GROUP-C									
1	**PMIDA**	Catalyst slurry	7440-02-0	832.00	0.0	832.00	Domestic	By Road	**50**	Open Market
		Diethanol amine (DEA)	111-42-2	1088.00	0.0	1088.00	Imported	By Road	**250**	Open Market
		NaOH (47%)	1310-73-2	2960.00	0.0	2960.00	Domestic	By Road	**80**	Open Market
		HCl(30%)	7647-01-0	4992.00	0.0	4992.00	Domestic	By Road	**25**	Open Market

		H3PO3(70%)	10294-56-1	1340.00	0.0	1340.00	Domestic	By Road	**100**	Open Market
		Formaldehyde (37%)	50-00-0	1010.00	0.0	1010.00	Domestic	By Road	**100**	Open Market
2	**Glyphosate (T)**	PMIDA	5994-61-6.	5424	0.0	5424	Imported	By Road	**250**	Open Market
		Activated carbon	7440-44-0	158.4	0.0	158.4	Domestic	By Road	**200**	Open Market
		Oxygen	*7782-44-7*	704	0.0	704	Domestic	By Road	**100**	Open Market
3	**Triclopyr Butotyl Ester**	Na-HTCP	37439-34-2	920	0.0	920	Imported	By Road	**250**	Open Market
		Methyl chloro acetate	96-34-4	589	0.0	589	Domestic	By Road	**250**	Open Market
		Na2CO3	497-19-8	25	0.0	25	Domestic	By Road	**100**	Open Market
		NaHCO3	144-55-8	20	0.0	20	Domestic	By Road	**100**	Open Market
		TBAB	1643-19-2	30	0.0	30	Domestic	By Road	**100**	Open Market
		Toluene	108-88-3	3760	0.0	3760	Domestic	By Road	**350**	Open Market
		Carbon	7440-44-0	42	0.0	42	Domestic	By Road	**100**	Open Market
		Na2S	1313-82-2	9.66	0.0	9.66	Domestic	By Road	**100**	Open Market
		NaOH	1310-73-2	2260	0.0	2260	Domestic	By Road	**80**	Open Market
		50% H2SO4	7664-93-9	330	0.0	330	Domestic	By Road	**25**	Open Market
		Butyl cellosolve	111-76-2	395	0.0	395	Domestic	By Road	**250**	Open Market
		PTSA	6152-52-5	8	0.0	8	Domestic	By Road	**100**	Open

										Market
		0.5% N2CO3 solution	497-19-8	300	0.0	300	Domestic	By Road	**70**	Open Market
4	**Bispyribac Sodium**	2,6-dihydroxy benzoic acid	98 303-07-1	416	0.0	416	Domestic	By Road	**250**	Open Market
		Na2CO3	497-19-8	572.5	0.0	572.5	Domestic	By Road	**100**	Open Market
		DMSO4	77-78-1	665.5	0.0	665.5	Domestic	By Road	**100**	Open Market
		Acetone	67-64-1	4200	0.0	4200	Domestic	By Road	**250**	Open Market
		9% HCl	1240670-87-4	5000	0.0	5000	Domestic	By Road	**25**	Open Market
		4,6-dimethoxy-2-methyl sulfonyl pyrimidine	113583-35-0	414	0.0	414	Imported	By Road	**250**	Open Market
		K2CO3	584-08-7	540.5	0.0	540.5	Domestic	By Road	**140**	Open Market
		Isopropyl alcohol	67-63-0	5100	0.0	5100	Domestic	By Road	**250**	Open Market
		NaOH 9% solution	1310-73-2	677.5	0.0	677.5	Domestic	By Road	**80**	Open Market
5	**Pichloram**	3,4,5,6-tetra chloro picolinonitrile	17824-83-8	1680	0.0	1680	Imported	By Road	**250**	Open Market
		28% aqueous NH4OH	1336-21-6	8400	0.0	8400	Domestic	By Road	**100**	Open Market
		35% HCl	7647-01-0	1380	0.0	1380	Domestic	By Road	**25**	Open Market
6	**Fluroxypyr**	Pentachloropyridine Trimethyl Ammonium		1875	0.0	1875	Imported	By Road	**250**	Open Market
		Hydrochloride	7647-01-0	21	0.0	21	Domestic	By Road	**50**	Open Market
		Potassium Fluoride	7789-23-3	1650	0.0	1650	Domestic	By Road	**140**	Open Market

		Dimethyl Aceto Acetamide	2044-64-6	2775	0.0	2775	Domestic	By Road	**480**	Open Market
		Toluene	108-88-3	3900	0.0	3900	Domestic	By Road	**350**	Open Market
7	**Imazethapyr**	2-carboxylic acid ethyl ester-3-methyl-6-ethyl pyridine		1002	0.0	1002	Imported	By Road	**250**	Open Market
		Chlorine	7782-50-5	1105.5	0.0	1105.5	Domestic	By Road	**50**	Open Market
		2-Amino -2, 3-Dimethyl bufyramide	40963-14-2	675	0.0	675	Imported	By Road	**250**	Open Market
8	**Glufosinate Ammonia**	Acrolein	107-02-8	289	0.0	289	Imported	By Road	**250**	Open Market
		Acetic Anhydride	108-24-7	526	0.0	526	Domestic	By Road	**550**	Open Market
		Diethyl Methane Phosphonate	683-08-9	722	0.0	722	Domestic	By Road	**200**	Open Market
		NaCl	7647-14-5	253	0.0	253	Domestic	By Road	**80**	Open Market
		HCl	7647-01-0	5370	0.0	5370	Domestic	By Road	**25**	Open Market
		Ammonia solution (25%)	1336-21-6	2320	0.0	2320	Domestic	By Road	**100**	Open Market
9	**Ethoxysulfuron**	O-sulfo Iso Cyanate Ethyl Benzoate	93-89-0	3146.39	0.0	3146.39	Domestic	By Road	**50**	Open Market
		2-Amino 4-Methoxy 6-Methyl 1,3,5 Triazine	1668-54-8	1863.12	0.0	1863.12	Imported	By Road	**250**	Open Market
		Toluene	108-88-3	4277.57	0.0	4277.57	Domestic	By Road	**350**	Open Market
	GROUP-D									
1	**Mancozeb Tech.**	Ethylene diamine	107-15-3	3750	5250	9000	Imported/ Domestic	By Road	**250**	Open Market
		Carbon disulfide	75-15-0	9375	13125	22500	Domestic	By Road	**25**	Open

										Market
		Sodium hydroxide (47%)	1310-73-2	9750	13650	23400	Domestic	By Road	**25**	Open Market
		Manganese Sulphate (27%)	7439-65-5	34740	48636	83376	Domestic	By Road	**25**	Open Market
		Zinc Sulphate (32%)	7733-02-0	2895	4053	6948	Domestic	By Road	**100**	Open Market
		SLS	151-21-3	900	1260	2160	Domestic	By Road	**250**	Open Market
		HMTA	100-97-0	465	651	1116	Imported Domestic	By Road	**250**	Open Market
2	**Propineb**	1,2 –PDA	78-90-0	504	252	756	Imported	By Road	**250**	Open Market
		Carbon disulfide	75-15-0	1200	600	1800	Domestic	By Road	**25**	Open Market
		Ammonia solution (15%)	1336-21-6	1458	729	2187	Domestic	By Road	**100**	Open Market
		Zinc Sulphate solution (21%)	7733-02-0	4792	2396	7188	Domestic	By Road	**100**	Open Market
		SLS	151-21-3	70	35	105	Domestic	By Road	**50**	Open Market
		HMTA	100-97-0	17.2	8.6	25.8	Domestic	By Road	**50**	Open Market
3	**Azoxystrobin**	Trimethyle Ortho Formate	149-73-5	2310	0.0	2310	Imported	By Road	**250**	Open Market
		Acetic Anhydride	108-24-7	5780	0.0	5780	Domestic	By Road	**550**	Open Market
		2(3)Benzofuranon	271-89-6	1790	0.0	1790	Imported	By Road	**250**	Open Market
		Mdc	75-09-2	2918	0.0	2918	Domestic	By Road	**250**	Open Market
		Methanol	67-56-1	3940	0.0	3940	Domestic	By Road	**250**	Open Market

		Toluene	108-88-3	4800	0.0	4800	Domestic	By Road	**350**	Open Market
		Potassium Carbonate	584-08-7	4020	0.0	4020	Domestic	By Road	**100**	Open Market
		Sodium Methoxide	124-41-4	398	0.0	398	Domestic	By Road	**200**	Open Market
		4,6 Dichloro Pyrimidin	1193-21-1	1048	0.0	1048	Imported	By Road	**250**	Open Market
		Teda	280-57-9	160	0.0	160	Domestic	By Road	**250**	Open Market
		Koh	1310-58-3	16554	0.0	16554	Domestic	By Road	**140**	Open Market
		Methyle Sulfonic Acid	75-75-2	116	0.0	116	Domestic	By Road	**250**	Open Market
		Di-Methoxy	109-87-5	2546	0.0	2546	Domestic Imported	By Road	**250**	Open Market
		Acetonitrile	75-05-8	7038	0.0	7038	Domestic	By Road	**350**	Open Market
		2-Cyno Phenol	611-20-1	1042	0.0	1042	Imported	By Road	**250**	Open Market
4	**Tebuconazol**	Ketone	96-22-0	4875	0.0	4875	Imported	By Road	**250**	Open Market
		DMS	77-78-1	8665	0.0	8665	Domestic	By Road	**100**	Open Market
		DMSO4	77-78-1	4405	0.0	4405	Domestic	By Road	**100**	Open Market
		KOH	1310-58-3	3870	0.0	3870	Domestic	By Road	**140**	Open Market
		1,2,4-Triazole	288-88-0	1365	0.0	1365	Imported	By Road	**250**	Open Market
		n- Butanol	71-36-3	2000	0.0	2000	Domestic	By Road	**250**	Open Market
5	**Wettable Sulphur**	Micronized Sulfur	7704-34-9	4105	0.0	4105	Domestic	By Road	**250**	Open

										Market
		Propol DSN	2078-54-8	300	0.0	300	Domestic	By Road	**300**	Open Market
		Propol BX 80	2078-54-8	100	0.0	100	Domestic	By Road	**300**	Open Market
		China Clay	1332-58-7	495	0.0	495	Domestic	By Road	**100**	Open Market
6	**Chlorothalonil**	Tetrachloro isophthalic acid	632-58-6	745	0.0	745	Imported	By Road	**250**	Open Market
		Ammonia	7664-41-7	83	0.0	83	Imported	By Road	**250**	Open Market
		P2O5	1314-56-3	348	0.0	348	Domestic	By Road	**100**	Open Market
7	**Kresoxim-methyl**	2-(α-tolyloxymethyl)phenyl oxo methyl acetate (TMPOMA)	79-20-9	1806.39	0.0	1806.39	Domestic	By Road	**50**	Open Market
		Methoxy amine	67-62-9	308.27	0.0	308.27	Imported	By Road	**250**	Open Market
		Solvent	64742-47-8	9398.50	0.0	9398.50	Imported	By Road	**250**	Open Market
7	**Picoxystrobin**	(E) – 2- (2-Chloromethyl) Phenyl – 3 – methoxy acrylate	117428-51-0	1394	0.0	1394	Domestic	By Road	**50**	Open Market
		2 – Hydroxyl – 6 – trifloro Pyridine	34486-06-1	1108	0.0	1108	Domestic	By Road	**250**	Open Market
		MDC	75-09-2	4762	0.0	4762	Imported	By Road	**250**	Open Market
		TEBA	80904-15-0	6.8	0.0	6.8	Domestic	By Road	**250**	Open Market
8	**Trifloxystrobin**	3-Triflouromethyl acetophenone oxime	99705-50-7	1132	0.0	1132	Imported	By Road	**250**	Open Market

		(E)- 2- (2-Bromomethyl phenyl) - 2-methoxy iminoacetate	13737-37-6	1594	0.0	1594	Imported	By Road	**250**	Open Market
		DMF	68-12-2	8356	0.0	8356	Domestic	By Road	**250**	Open Market
		NaH	7646-69-7	128	0.0	128	Domestic	By Road	**157**	Open Market
		Ethyl acetate	141-78-6	16712	0.0	16712	Domestic	By Road	**250**	Open Market
	GROUP-E				0.0					
1	**Imidacloprid**	Nitro Imino Imidazolidine	5465-96-3	822	0.0	822	Imported	By Road	**250**	Open Market
		2-Chloro-5-Chloro methyl pyridine	70258-18-3	831	0.0	831	Imported	By Road	**250**	Open Market
		NaOH flakes	1310-73-2	246	0.0	246	Domestic	By Road	**140**	Open Market
		DMF	68-12-2	5700	0.0	5700	Domestic	By Road	**250**	Open Market
		HCl (30%)	7647-01-0	100	0.0	100	Domestic	By Road	**25**	Open Market
2	**Acetamiprid**	MMA+ methanol	74-89-5	7750	0.0	7750	Domestic	By Road	**50**	Open Market
		2-Chloro-5-Chloro methyl pyridine	70258-18-3	993	0.0	993	Imported	By Road	**250**	Open Market
		Methanol	67-56-1	525	0.0	525	Domestic	By Road	**250**	Open Market
		Cyano methyl Imidoate	137-05-3	605	0.0	605	Imported	By Road	**250**	Open Market
		NaOH flakes	1310-73-2	240	0.0	240	Domestic	By Road	**140**	Open Market
		HCl (30%)	7647-01-0	100	0.0	100	Domestic	By Road	**25**	Open Market

3	**2-Chloro-5- Chloro Methyl Pyridine**	2- chloro 5- chloro methyl pyridine	70258-18-3	8366.4	0.0	8366.4	Imported	By Road	**250**	Open Market
		Ethylene dichloride	107-06-2	53950	0.0	53950	Domestic	By Road	**250**	Open Market
		Triethyl amine	121-44-8	74.7	0.0	74.7	Domestic	By Road	**250**	Open Market
4	**Nitro Imino Imidazolidine**	Sulphuric acid	7664-93-9	1158	0.0	1158	Domestic	By Road	**25**	Open Market
		Guanidine nitrate	506-93-4	703.8	0.0	703.8	Imported	By Road	**250**	Open Market
		EDA	107-15-3	424.8	0.0	424.8	Domestic	By Road	**250**	Open Market
		NaOH (30%)	1310-73-2	1854	0.0	1854	Domestic	By Road	**80**	Open Market
		Defomer	68554-65-4	213.6	0.0	213.6	Domestic	By Road	**80**	Open Market
5	**Ethyl-N-Cynoethanimideate**	Acetonitrile	75-05-8	456	0.0	456	Domestic	By Road	**350**	Open Market
		Dry HCl	7647-01-0	533	0.0	533	Domestic	By Road	**140**	Open Market
		Methanol	67-56-1	378	0.0	378	Domestic	By Road	**250**	Open Market
		MDC	75-09-2	7220	0.0	7220	Domestic	By Road	**250**	Open Market
		Cyanamide (25%)	420-04-2	2333	0.0	2333	Domestic	By Road	**250**	Open Market
		NaOH (47%)	1310-73-2	1033	0.0	1033	Domestic	By Road	**80**	Open Market
6	**Cartap**	2-Dimethylamino-1,3-Dichloropropane HCl	4584-49-0	796	0.0	796	Imported	By Road	**250**	Open Market
		Sodium thiosulphate	7772-98-7	1403	0.0	1403	Domestic	By Road	**250**	Open Market
		Sodium cyanide	143-33-9	812	0.0	812	Domestic	By Road	**250**	Open

										Market
		NaOH	1310-73-2	459	0.0	459	Domestic	By Road	**80**	Open Market
		Dry HCl	7647-01-0	1000	0.0	1000	Domestic	By Road	**140**	Open Market
		Methanol	67-56-1	6000	0.0	6000	Domestic	By Road	**250**	Open Market
7	**Thiamethoxam**	2-chloro-5-chloromethyl thiazole	105827-91-6	1156.5	0.0	1156.5	Imported	By Road	**250**	Open Market
		3-methyl-4-nitro imino per hydro 1,3,5-oxadiazine	153719-38-1	1215	0.0	1215	Imported	By Road	**250**	Open Market
		DMC	75-09-2	1800	0.0	1800	Domestic	By Road	**100**	Open Market
		Tmac	75-57-0	55.05	0.0	55.05	Domestic	By Road	**250**	Open Market
		K2CO3	584-08-7	1425	0.0	1425	Domestic	By Road	**100**	Open Market
		HCl (30%)	7647-01-0	1665	0.0	1665	Domestic	By Road	**25**	Open Market
		NaOH	1310-73-2	110.1	0.0	110.1	Domestic	By Road	**80**	Open Market
8	**Clothianidin**	2-chloro-5-amino methyl thiazole	105827-91-6	1404	0.0	1404	Imported	By Road	**250**	Open Market
		ACN	75-05-8	2844	0.0	2844	Imported	By Road	**250**	Open Market
		o- methyl –N-nitro urea	684-93-5	1128	0.0	1128	Imported	By Road	**250**	Open Market
		Methyl amine	74-89-5	738	0.0	738	Domestic	By Road	**290**	Open Market
9	**Emamectin Benzoate**	Methyl amine	74-89-5	80	0.0	80	Domestic	By Road	**290**	Open Market

		Avermectin	70288-86-7	2148	0.0	2148	Imported	By Road	**250**	Open Market
		Methanol	67-56-1	2600	0.0	2600	Domestic	By Road	**250**	Open Market
		Acetic acid	64-19-7	108	0.0	108	Domestic	By Road	**250**	Open Market
		Tert butyl dimethyl silyl chloride	18162-48-6	88	0.0	88	Domestic	By Road	**250**	Open Market
		Sodium carbonate	497-19-8	720	0.0	720	Domestic	By Road	**70**	Open Market
		EDC	25952-53-8	2500	0.0	2500	Domestic/ Import	By Road	**350**	Open Market
		Ethyl acetate	141-78-6	1520	0.0	1520	Domestic	By Road	**250**	Open Market
		Benzoic acid	65-85-0	266	0.0	266	Domestic	By Road	**250**	Open Market
10	**Indoxacarb**	Dimethoxy Ethane	110-71-4	8400	0.0	8400	Domestic	By Road	**250**	Open Market
		Dimethoxy Carbonate	616-38-6	1035	0.0	1035	Domestic	By Road	**250**	Open Market
		5 Chloro Indenone	42348-86-7	1650	0.0	1650	Imported	By Road	**250**	Open Market
		Sodium hydride	7646-69-7	960	0.0	960	Domestic	By Road	**100**	Open Market
		HCl 3%solution	7647-01-0	2400	0.0	2400	Domestic	By Road	**25**	Open Market
		Mix Xylene	1330-20-7	13200	0.0	13200	Domestic	By Road	**250**	Open Market
		Cinchonine	118-10-5	300	0.0	300	Imported	By Road	**250**	Open Market
		Butyl Hydro peroxide	75-91-2	960	0.0	960	Domestic	By Road	**250**	Open Market

		Methanol	67-56-1	750	0.0	750	Domestic	By Road	**250**	Open Market
		EDC	25952-53-8	300	0.0	300	Domestic/ Import	By Road	**350**	Open Market
		NaHCO3	144-55-8	180	0.0	180	Domestic	By Road	**100**	Open Market
		IPA	67-63-0	1275	0.0	1275	Domestic	By Road	**250**	Open Market
		Phosgene	75-44-5	1680	0.0	1680	Domestic	By Road	**50**	Open Market
		Hexane	110-54-3	2250	0.0	2250	Domestic	By Road	**254**	Open Market
		MDC	75-09-2	2400	0.0	2400	Domestic	By Road	**250**	Open Market
	GROUP-F									
1	Metiram	Carbon Disulphide	107-15-3	0.0	2604.0	2604.0	Domestic	By Road	**50**	Open Market
		Ethylenediamine	75-15-0	0.0	4074.00	4074.00	Domestic	By Road	**250**	Open Market
		Ammonia solution	1336-21-6	0.0	15512.00	15512.00	Domestic	By Road	**80**	Open Market
		Zinc Sulphate	7664-93-9	0.0	4060.00	4060.00	Domestic	By Road	**80**	Open Market
		Sulphuric acid	7446-19-7	0.0	147.00	147.00	Domestic	By Road	**70**	Open Market
		Sodium Ligno sulphonate	8061-51-6	0.0	231.00	231.00	Domestic	By Road	**250**	Open Market
		Hexamethylene tetramine	100-97-0	0.0	140.00	140.00	Domestic	By Road	**250**	Open Market
	GROUP-G									
2	Cyproconazole	DMS	77-78-1	0.0	1224	1224	Domestic	By Road	**250**	Open Market

		DMSO	67-68-5	0.0	516	516	Domestic	By Road	**250**	Open Market
		DMSO4	77-78-1	0.0	2472	2472	Domestic	By Road	**250**	Open Market
		Toluene	108-88-3	0.0	4920	4920	Domestic	By Road	**90**	Open Market
*		Cp-ketone	78-93-3	0.0	3000	3000	Domestic	By Road	**250**	Open Market
		KOH flakes (85%)	1310-58-3	0.0	1800	1800	Domestic	By Road	**90**	Open Market
		1% HCl Soln	7647-01-0	0.0	1320	1320	Domestic	By Road	**80**	Open Market
		1,2,4 Triazole	288-88-0	0.0	1212	1212	Domestic	By Road	**250**	Open Market
		NMP Solvent	872-50-4	0.0	15000	15000	Domestic	By Road	**70**	Open Market
		EDC Solvent	25952-53-8	0.0	11250	11250	Domestic	By Road	**90**	Open Market
		35% HCl Solution	7647-01-0	0.0	3285	3285	Domestic	By Road	**70**	Open Market
		21% Soda Solution	1310-73-2	0.0	3720	3720	Domestic	By Road	**60**	Open Market

1.3 Water Requirement, Waste Water Generation and Treatment

As Per EC

Water & Waste Water Details:

- Total raw water requirement is Water: 869.0 KLD which is met through GIDC water supply.
- Industrial Waste water generation will be 861 KLD and segregated into high COD/TDS and low COD/TDS effluent streams.
- High COD/Organic waste / toxic aqueous effluent will be incinerated. High COD/TDS effluent stream will be passed though stripper and evaporated though MEE.
- Low COD/TDS effluent stream will be treated in effluent treatment plant (ETP) and treated effluent will be discharged to deep sea though a GIDC conveyance pipelines after conforming to the standards prescribed for the effluent discharge and obtaining permission from the GPCB.

As Per Valid CCA

Water & Waste Water Details:

- Total raw water requirement is Water: 364.7 KL/Day (Fresh: 150.7 KLD + Reuse 214.0 KLD) which is met through GIDC water supply.
- The total effluent generation will be 311.56 KLD (Industrial: 301.56 KLD + Domestic: 10 KLD) and the industrial effluent (291.56 KLD) will be further segregated in two streams as given below:
- **Stream – I (Low COD & TDS): 50.0 KLD** Lean streams [Low COD and LOW TDS] would be taken out separately from each and every product process. These lean streams would be collected separately and would further be mixed with blow down water generated from Cooling Tower and Boiler. The cumulative mixed water would be adjusted for pH as per requirement, followed by filtration and subsequently would be discharge to Common Effluent Treatment Plant [CETP] of PETL.
- **Stream – II (High COD & TDS): 246.56 KLD** it will be treated in MEE installed on premises, condensate from MEE (214.0 KLD) is reused for manufacturing activities, and the MEE salt (31.56 MT/Day) is sent to TSDF site for further treatment & disposal.
- **Domestic wastewater (10 KL/Day)** will be disposed using a septic tank & soak pit.
- **Scrubbing Media** Will be reuse in plant premises or send to end users having rule-9 permission.

Total After EC Expansion

Water & Wastewater Details:

- Total raw water requirement is: 2079.29 KL/Day which is met through GIDC water supply.
- The total effluent generation will be 1958.35 KLD (Industrial: 1902.35 KLD + Domestic: 56.0 KLD).
- **Stream-1: Total 100 KLD** High COD and Low TDS stream of industrial effluent from process shall be treated in Fenton treatment and after filtration clear effluent will treat in ETP. **Total 1373.1.10 KLD** from **(100 KLD Fenton Treated, Boiler Blow Down: 600 KLD, Cooling Blow Down: 400 KLD & Canteen, floor washing, QC & R&D: 25 KLD, MEE Condensate: 248.10 KLD)** of biological industrial effluent shall be sent to ETP for primary, secondary, and tertiary treatment in RO total 530 KLD RO permit recycled back in boiler and cooling tower. Remaining treated effluent total 843.10 KLD shall be sent for disposal into GIDC underground drainage-Dahej Vilayat Disposal System up to the sea.
- **Stream-2: Total 427.35 KLD** Concentrated /high TDS stream of industrial effluent from process shall be treated in in House MEE plant. Total 115.15 KLD Condensate from MEE shall be recycled back to process/scrubber etc. or remaining 248.10 KLD sent to ETP for treatment. The generating solids after settlers, nutch filters and centrifuged shall be sold to end users or disposed of at approved TSDF Site.
- **Stream-3: 250.0 KLD** Concentrated /high TDS stream of industrial effluent from process shall be sent to outside approved Common MEE for evaporation system.
- **Stream-4: 100.0 KLD** of concentrated / high COD Stream effluent shall be sent to common incineration facility.
- **Domestic 56.0 KLD Will Be treated in STP Plant & Reuse in Gardening or Washing for Domestic Purpose.**

1.4 Air Pollution Source and Control Management

As Per EC Flue Gas Stack

Sr. no.	Source of emission With Capacity	Stack Height (meter)	Type of Fuel	Quantity of Fuel	Type of emissions i.e. Air Pollutants	Air Pollution Control Measures (APCM)
1	Boiler -1 (12.0 TPH * 2 Nos.)	30	Natural Gas/FO/LDO	20160 m3/Day	SPM SO2 NOX	Adequate Stack Height
2	Thermic Fluid Heater	11	Natural Gas	500 m3/Day		Adequate Stack Height
3	D G Set 1000 KWH * 2	12	HSD	8000 Lit/Day		Adequate Stack Height
4	Incinerator	45	Natural Gas	800 m3/Hr		Adequate Stack Height

As Per Valid CCA Flue Gas Stack

Sr. no.	Source of emission With Capacity	Stack Height (meter)	Type of Fuel	Quantity of Fuel	Type of emissions i.e. Air Pollutants	Air Pollution Control Measures (APCM)
1	Boiler -1 [10 TPH]	45	Natural Gas	20160 m^3/Day	SPM SO2 NOX	Adequate Stack Height
2	D G Set 1000 KWH * 2	12	HSD	8000 Lit/Day		Adequate Stack Height

As Per EC Expansion Flue Gas Stack

Sr. no.	Source of emission With Capacity	Stack Height (meter)	Type of Fuel	Quantity of Fuel	Type of emissions i.e. Air Pollutants	Air Pollution Control Measures (APCM)
1	Boiler -1 (12.0 TPH * 2 Nos.)	45	Natural Gas/LDO	40360 m3/Day	SPM SO2 NOX	Adequate Stack Height
2	Boiler -2 (25.0 TPH * 1 Nos.)	45	Bio-Briquettes	75MT/Day		ESP + Water Scrubber
3	Thermic Fluid Heater (Kcal/hr)	11	Natural Gas/LDO	500 m3/Day		Adequate Stack Height
4	D G Set 1500 KWH * 2	12	HSD	9000 Lit/Day		Adequate Stack Height
5	Incinerator	45	Natural Gas/LDO	800 m3/Hr		Adequate Stack Height

As Per EC Process Vent

Sr. no.	Source of emission With Capacity	Stack Height (meter)	Type of emissions i.e. Air Pollutants	Air Pollution Control Measures (APCM)
1	Reactor of m-Phenoxy Benzaldehyde & DMAC	20	Cl2	Alkali Scrubber
2	Reactor of CMAC, Lambda Cyhalothric Acid Chloride, DMAC, Permethrin, Bifenthrin, TCAC, chlorpyrifos, picloram, Imazethapyr, Azoxy storbin, chlororthalonil, Picoxy storbin, CCMP, Ethyl-N-Cynoethanimideate, Thiamethoxam, Clothianidin	20	HCL	Water Scrubber, Ventury Scrubber
3	Reactor of m-Phenoxy benzaldehyde, Profenophos	20	HBR	Alkali Scrubber
4	Reactor of CMAC, Lambda Cyhalothric Acid Chloride, DMAC, TCAC, Bispyribac Sodium, Chlorothalonil, CCMP	30	SO2	Alkali Scrubber & Ventury Scrubber
5	Reactor of CMAC, DMAC	20	SO3	Alkali Scrubber & Ventury Scrubber

As Per Valid CCA Process Vent

Sr. No.	Stack attached to	Stack Height	Air Pollution Control Measures	Pollutants	Permissible Limit mg/Nm3
	Existing				
1.	Mancozeb Reactor/ Propineb Reactor	30	Air blower, ventury scrubber	CS2	180 mg/Nm3
2.	Spray Dryer/ Propineb Spray Dryer	30	Bag Filter	PM	20 mg/Nm3
3.	Mancozeb/ Propineb Precipitation Reactor	30	Air blower, ventury scrubber	CS2	180 mg/Nm3
4.	EDA/PDA Dilution Reactor Scrubber	30	Air blower, ventury scrubber	NH3	30mg/Nm3
5.	Mancozeb/ Propineb Bag house blower vent	14	Bag Filter	PM	150 mg/Nm3
6.	Sodium Sulphate Dryer in MEEs	30	Bag Filter	PM	150 mg/Nm3
7.	EDA Storage tank Scrubber.	7	ventury scrubber	NH3	30 mg/Nm3
8.	Formulation Section	15	Bag Filter	HCL CL2 SO2 H2S NH3 NOx HF	20 mg/Nm3 5.0 mg/Nm3 40 mg/Nm3 05 mg/Nm3 30 mg/Nm3 25 mg/Nm3 6.0 mg/Nm3
	Proposed				
1	Kresoxim-methyl/ Amide Reactor Scrubber	30	Acidic scrubber	NH3	30 mg/Nm3
2	Picoxystrobin Reactor scrubber	30	Alkali scrubber	HCL	20 mg/Nm3
3	Reactor of Cartap Hydrochloride	30	Water Scrubber	PM	20 mg/Nm3
4	Mancozeb 75% WDG	30	Water Scrubber	PM	20 mg/Nm3
5	Macozeb/Propineb Conveying line Bag house blower	28	Bag Filter	PM	20 mg/Nm3

	vent				
	Total After proposed expansion				
1.	Mancozeb Reactor/ Propineb Reactor	30	Air blower, ventury scrubber	CS2	180 mg/Nm3
	Reactor of Cartap Hydrochloride		Water scrubber	HCL	20 mg/Nm3
2	Spray Dryer/ Propineb Spray Dryer	30	Bag Filter	PM	20 mg/Nm3
3	Mancozeb/ Propineb Precipitation Reactor	30	Air blower, ventury scrubber	CS2	180 mg/Nm3
	Picoxystrobin Reactor scrubber		Alkali scrubber	HCL	20 mg/Nm3
4	EDA/PDA Dilution Reactor Scrubber	30 30	Air blower, ventury scrubber	NH3	30 mg/Nm3
	Kresoxim-methyl/ Amide Reactor Scrubber		Acidic scrubber	NH3	30 mg/Nm3
5	Mancozeb/ Propineb Bag house blower vent	14	Bag Filter	PM	20 mg/Nm3
6	Macozeb/Propineb Conveying line Bag house blower vent	28	Bag Filter	PM	20 mg/Nm3
7	EDA Storage tank Scrubber.	7	ventury scrubber	NH3	30 mg/Nm3

As Per EC Expansion Process Vent:

Sr. No.	Plant	Stack attached to	Stack Height	Air Pollution Control Measures	Para-meters	Permissible Limit Mg/NM3
Group A						
1	m-Phenoxy Benzaldehyde	Reactor of m-Bromo Benzaldehyde	20	Water Scrubber	HCl	20
2	Cypermethric Acid Chloride	Reactor of Cypermethric Acid Chloride	20	Alkali Scrubber	HCl SO2	20 40
3	Lamda Cyhalothric Acid Chloride	Reactor of Lambda Cyhalothric Acid Chloride	20	Alkali Scrubber	HCl SO2	20 40
4	Delta Methric Acid Chloride	Reactor of Deltamethric Acid Chloride	20	Alkali Scrubber	HCl SO2	20 40
5	Cypermethrin (T) & Beta, Zeta, Theta etc Isomers	All reactors common vent	--	Sodium Hypochloride Solution	--	--
6	Alphamethrin (T)					
7	Deltamethrin (T)					
8	Permethrin (T)	Reactor of Permethrin	20	Water Scrubber	HCl	20
9	Lamda Cyhalothrin (T)	All reactors common vent	--	Sodium Hypochloride Solution	--	--

10	Bifenthrin (T)	Reactor of Bifenthrin acid chloride	20	Water Scrubber	HCl	20
Group B						
1	MMP	No Process Gas Emission	--	--	--	--
2	Profenofos	Reactor of Propfenofos	20	Water Scrubber	HBr	20
3	DETC	Reactor of Monoester and Diester	20	Alkali Scrubber	HCl	20
4	DMTC					
5	DMTC Amide	DMTC Amide Reactor	20	Acidic Scrubber	NH3	30
6	TCAC	Reactor of TCAC	20	Alkali Scrubber Two scrubber in series	HCl SO2	20 40
7	Chlorpyriphos	HTCP Reactor	20	Water Scrubber- Alkali Scrubber	HCl	20
Group C						
1	PMIDA	PMIDA reactor	20	Water Scrubber	HCl	20
2	Glyphosate (T)	--	--	--	--	--
3	Triclopyr Butotyl Ester	--	--	--	--	--
4	Bispyribac Sodium	--	--	--	--	--
5	Pichloram	Picloram Reactors	20	Alkali Scrubber	HCl	20

6	Fluroxypyr	--	--	--	--	--
7	Imazethapyr	Imazethapyr Reactors	20	Alkali Scrubber	HCl	20
8	Glufosinate Ammonia	--	--	--	--	--
9	Ethoxysulfuron	--	--	--	--	--
Group D						
1.	Mancozeb/ Propineb Tech.	Mancozeb/ Propineb Precipitation Reactor scrubber	30	Air blower, ventury scrubber	CS2	180mg/Nm3
		EDA/PDA Dilution Reactor Scrubber	30	Air blower, ventury scrubber	NH3	30mg/Nm3
		Mancozeb/ Propineb Bag house blower vent	14	Bag Filter	PM	20mg/Nm3
		Mancozeb/ Propineb Conveying line Bag house blower vent	28	Bag Filter	PM	20mg/Nm3
		EDA Storage tank Scrubber.	7	ventury scrubber	NH3	30mg/Nm3
3.	Azoxystrobin	--	--	--	--	--
4.	Tebuconazol	--	--	--	--	--
5.	Wettable Sulphur	--	--	--	--	--
6.	Chlorothalonil	--	--	--	--	--
7	Kresoxim-methyl	Kresoxim-methyl/ Amide	20	Acidic scrubber	NH3	30mg/Nm3

		Reactor Scrubber				
8.	Picoxystrobin	Picoxystrobin Reactor scrubber	20	Alkali scrubber	HCL	20mg/Nm3
9.	Trifloxystrobin	Trifloxystrobin Reactor scrubber	20	Alkali scrubber	Br2	5mg/Nm3
10	Metiram					
11	Cyproconazol					
Group E						
1	Imidacloprid	No Process emission	--	--	--	--
2	Acetamiprid	CCMP Reactor	20	Alkali Scrubber	HCl SO2	20 40
3	2-Chloro-5-Chloro Methyl Pyridine Nitro Imino Imidazolidine	--	--	--	--	--
4	Ethyl-N-Cynoethanimidte	--	--	--	--	--
5	Cartap	Reactor of Cartap Hydrochloride	20	Water Scrubber	HCl	20
6	Thiamethoxam	--	--	--	--	--
7	Clothianidin	--	--	--	--	--
8	Emamectin Benzoate	--	--	--	--	--
9	Indoxacarb	--	--	--	--	--
Formulation Stack: -						

1	Mancozeb 75% WDG	WDG Bag House	30	Bag Filter	PM	20mg/Nm3
2	Formulation Area	ACM/Jet Mill	15	Bag Filter	PM	20mg/Nm3

EC Expansion Stack Attached to:

Sr. No.	Plant	Stack attached to	Stack Height	Air Pollution Control Measures	Para-meters	Permissible Limit Mg/NM3
	OTHERS					
1	HCl Storage Tank	HCl Storage Tank	11	Water Scrubber	HCl Cl2	20 05
2	Chlorine Shed	Chlorine Shed	13.5	Alkali Scrubber	Cl2	05
3	Drum filling station	Drum filling	11	Alkali Scrubber	Odour	Nil

1.5 Hazardous Waste

Sr. No.	Type of Waste	Category	Unit	Quantity (MT/Annum)				Mode Of Disposal
				As Per EC	As Per Valid CCA Existing	Additional	Total	
1.	Spent Carbon	29.5	MT/Annum	348.0	432.0	0.0	432	Collection, Storage, transportation, disposal at approved CHWIF or Co-processing facility.
2.	Residue to incinerator	29.1	MT/Annum	1956.0	773.0	3413.0	5369	
3.	Process waste	29.1	MT/Annum	1164.0	2160.0	0.0	2160.0	
4.	Incinerated ash	36.2	MT/Annum	1824.0	0.0	-1824.0	0.0	Collection, Storage, transportation, disposal at approved TSDF facility and /or Co processing
5.	ETP waste	29.2	MT/Annum	240.0	7440.0	1676.0	8000.0	
6.	Salt from MEE	--	MT/Annum	6084.0				
7.	Spent oil	5.5	KL/Annum	0.0036	6.0	6.0	12.0	Collection, Storage, transportation, disposal by selling to registered re-refiners.
8.	Discarded	33.1	Nos./Annum	18000	1670400	0.0	1670400	Collection,

	containers			Nos.	Nos.		Nos.	Storage, transportation, disposal by selling to registered re-processors and/or Incineration or Co processing facility.
9.	Discarded Liners/ HDPE bags/ Paper bags	33.1	MT/Annum	72000 Nos.	144MT	200 MT	344 MT	
10.	Date expired and off-specification pesticides	29.3	MT/Annum	--	600	0.0	600	Collection, Storage, transportation, disposal at approved CHWIF or Co-processing facility.
11.	Sludge from wet scrubber	37.1	MT/Annum	--	120	0.0	120.0	Collection, Storage, transportation, disposal at approved TSDF facility.

1.6 Green Belt

Total Plot Area is 51653.7 m^2 out of which 17045 m2 (i.e. approx. 33 %) in Plant Area of area utilized for green belt development.

1.7 Power & Fuel Requirements

As Per Existing EC Power Requirement: 4000 KVA

As Per EC Expansion Power Requirement: 5000 KVA

As Per EC Fuel Details:

Sr. No.	Fuel	Quantity
1.	Natural Gas/FO/LDO (Boiler)	20160 m3/Day
2.	Natural Gas (TFH)	500 m3/Day
3.	HSD (DG Set)	8000 Lit/Day
4.	Natural Gas (Incinerator)	800 m3/Hr

As Per Valid CCA Fuel Details:

Sr. No.	Fuel	Quantity
1.	Natural Gas	20160 m3/Day
2.	HSD	8000 Lit/Day

As Per EC Expansion Fuel Requirement.

Sr. No.	Fuel	Quantity
1.	Natural Gas/FO/LDO (Boiler)	20160 m3/Day
2.	Natural Gas (TFH)	500 m3/Day
3.	HSD (DG Set)	8000 Lit/Day
4.	Natural Gas (Incinerator)	800 m3/Hr

1.8 Estimated Project cost along with analysis in terms of economic viability of the project.

Total Cost of Project will be Rs. 26.50 Crores. Expenditure on air and water pollution control systems and environmental monitoring devices will also be incurred.

Cost Break Up

Sr. No	Particulars	ESTIMATED COST(INR IN LAKHS)		
		Existing	**Additional**	**Total**
1	Land and Site Development	540.63	100	640.63
2	Building	1764.87	3264.67	5029.54
3	Plant and Machineries (mechanical, Electrical, instrumentation)	5053.31	4992.21	10045.52
4	Environment protection measures (includes cost of ETP, Tree Plantation, Evaporator System and Rainwater Harvesting etc.)	0.0	8026	8026
5	Contingency 10%	681.82	2082.34	2764.16
Total		**8040.63**	**18465.22**	**26505.85**

2.0 INTRODUCTION OF THE PROJECT/BACKGROUND INFORMATION

2.1 Identification of the project and project proponent. In case of mining project, a copy of mining lease/letter of intent should be given.

Identification of the project

M/s. Coromandel International Limited., Proposed Expansion of Pesticide & Pesticide Intermediates Manufacturing Plant at Plot No. Z/103/G, Sez-2, Dahej, Dist: Bharuch, Gujarat, India.

2.2 Brief description of nature of the Project

Proposed Expansion of Pesticides & Pesticide specific intermediates.

2.3 Need for the project and its importance to the country and or region

The demand for products intended to be manufacture is increasing in the country. By expansion of this project, Aero Agro Chemical Industries Limited will be able to meet the demand of various products internationally and locally. This will also generate direct and indirect employment opportunity for various levels of people.

2.4 Demands-Supply Gap

Based on our informal survey of the market with our current customers and various traders, we have found that there is a big potential for the range of the products we are planning. These products will be an addition to the current range of our group's products.

2.5 Imports vs. Indigenous production

Based on the current cost of indigenous raw materials, it will make us very competitive against imported finished products and we will be able to increase the export of our finished products.

2.6 Export possibility

We shall export our products.

2.7 Domestic/Export Markets

Majority of the products will be exported and some products will be sold in local market.

2.8 Employment Generation (Direct and Indirect) due to project.

M/s. Coromandel International Limited., will give direct employment to (Existing: 195 Nos. + Additional: 100 Nos.) Total 295 Nos. of people based on qualification and requirement. In addition to direct employment, indirect employment shall generate additional business to some extent for the local population.

Project Description

2.1 Type of Project including interlinked and interdependent projects, if any.

No interlinked project has been submitted.

Location (map showing general location, specific location and project boundary & project site layout) with coordinates.

- **Map showing general location**

- **Specific location and project boundary (Google Map)**

Plot Layout


273.33
SEZ ROAD (TOP = RL 99.80)
10 MTR WIDE POWER CORRIDOR
189.00
273.00
1001.47 SQ.M.
ADMIN BUILDING CANTEEN CHC
855.36 SQ.M.
FORMULATION SMALL PACK
1574.32 SQ.M.
FORMULATION PLANT
BOILER HOUSE
1051.19 SQ.M.
COOLING TOWER
1150.67 SQ.M.
ETP
2106.25 SQ.M.
WARE HOUSE
2962.65 SQ.M.
GAS SKID
1090.0 SQ.M.
PARKING
641.25 SQ.M.
1468.31 SQ.M.
PLANT 2
ADMIN BLDG.
PLANT 1
1162.53 SQ.M.
PLANT 1
664.05 SQ.M.
SPRAY DRYER BUILDING
311 SQ.M.
MSE PLANT
1360.0 SQ.M.
675.46 SQ.M.
SITE PLAN
(SCALE = 1:500)

Land Break Up of plant

Sr. No.	Land Use	Area Sq. Mtr.
1	Admin, OHC & Canteen Building	855.36
2	Nr. Admin Open Space	1001.47
3	Gas Skid Area	1090
4	Parking Area	641.25
5	Formulation Plant	1574.32
6	Formulation Ware House, Office	339.33
7	Utility area (Boiler, Cooling)	1364.6
8	Transformer Area	74.5
9	Plant-2 Area	1468.31
10	Plant-1 A Area	1162.53
11	Plant-1 B Area	664.05
12	Spray Dryer Area	311
13	Tank Farm Area	853.28
14	Tank Farm and Filter Press	528.72
15	ETP Area	2106.25
16	MEE Plant	1346
17	Hazardous Waste Storage area	351.68
18	Contractor Shed	390.55
19	Petroleum Tank Farm	205.34
20	RW/FW Tank & Pump House	200
21	Nr. ETP Tank Farm Area	76.49
22	Food Composting Area	50.16
23	Toilet Block (Gents & Ladies)	85.12
24	Driver Rest Room	25.8
25	Sodium Sulphate Shed	675.46
26	Scrap Yard	66.98
27	Nr. Scrap Yard Open Space	665.72
28	Ware House	2962.65
29	Green Belt Area	17045
30	Road & Other Area	13471.78
	TOTAL	**51653.7**

3.3 Details of alternate sites considered and the basis of selecting the proposed site, particularly the environmental considerations gone into should be highlighted.

Looking to the market demand of the products in International market, it was decided by M/s. Coromandel International Limited. to expand the existing facility. Over and above major raw material suppliers are available in this region and considering proximity to existing operational unit in Panoli GIDC, it was finally decided to set up new facility.

Major factors involved in the selection of site are listed below:

- Site situated in Notified Industrial Estate.
- Site is well connected by road & Rail
- Proximity to raw material suppliers
- Availability of power and cleaner fuel.
- Availability of water from GIDC water supply
- Availability of effluent discharge pipeline to deep Sea.
- Availability of common TSDF and common incineration sites in nearby area.
- Availability of skilled workmen
- Proximity to cities like Bharuch and Ankleshwar, ensure access to already existing social and commercial infrastructure.

Modern infrastructure support and amenities at par in other global markets, including:

- Efficient transport facilities.
- Environment-friendly zone.
- Uninterrupted power supply.

3.4 Size or Magnitude of Operation

Please refer Section-1.1.1

3.5 Project Description with process details (a schematic diagram/flow chart showing the project layout, components of the project, etc. should be given)

Please refer Form-I, Annexure-III.

3.6 Raw Material required along with estimated quantity, likely source, marketing area of final product/s, mode of transport of raw material and Finished product.

For raw material required along with quantity; Please refer Form-I, Annexure-I. Majority of the products will be used for international market and some products will be sold in domestic market.

3.7 Resource optimization/recycling and reuse envisaged in the project, if any, should be briefly outlined.

Every effort will be put to recycle/reuse the water.

3.8 Availability of water its source, energy/power requirement and source should be given.

Water Source

Total water requirement shall be met through GIDC water supply.

Power & Fuel Requirement

As Per Existing EC Power Requirement: 4000 KVA

As Per EC Expansion Power Requirement: 5000 KVA

As Per EC Fuel Details:

Sr. No.	Fuel	Quantity
5.	Natural Gas/FO/LDO (Boiler)	20160 m3/Day
6.	Natural Gas (TFH)	500 m3/Day
7.	HSD (DG Set)	8000 Lit/Day
8.	Natural Gas (Incinerator)	800 m3/Hr

As Per Valid CCA Fuel Details:

Sr. No.	Fuel	Quantity
3.	Natural Gas	20160 m3/Day
4.	HSD	8000 Lit/Day

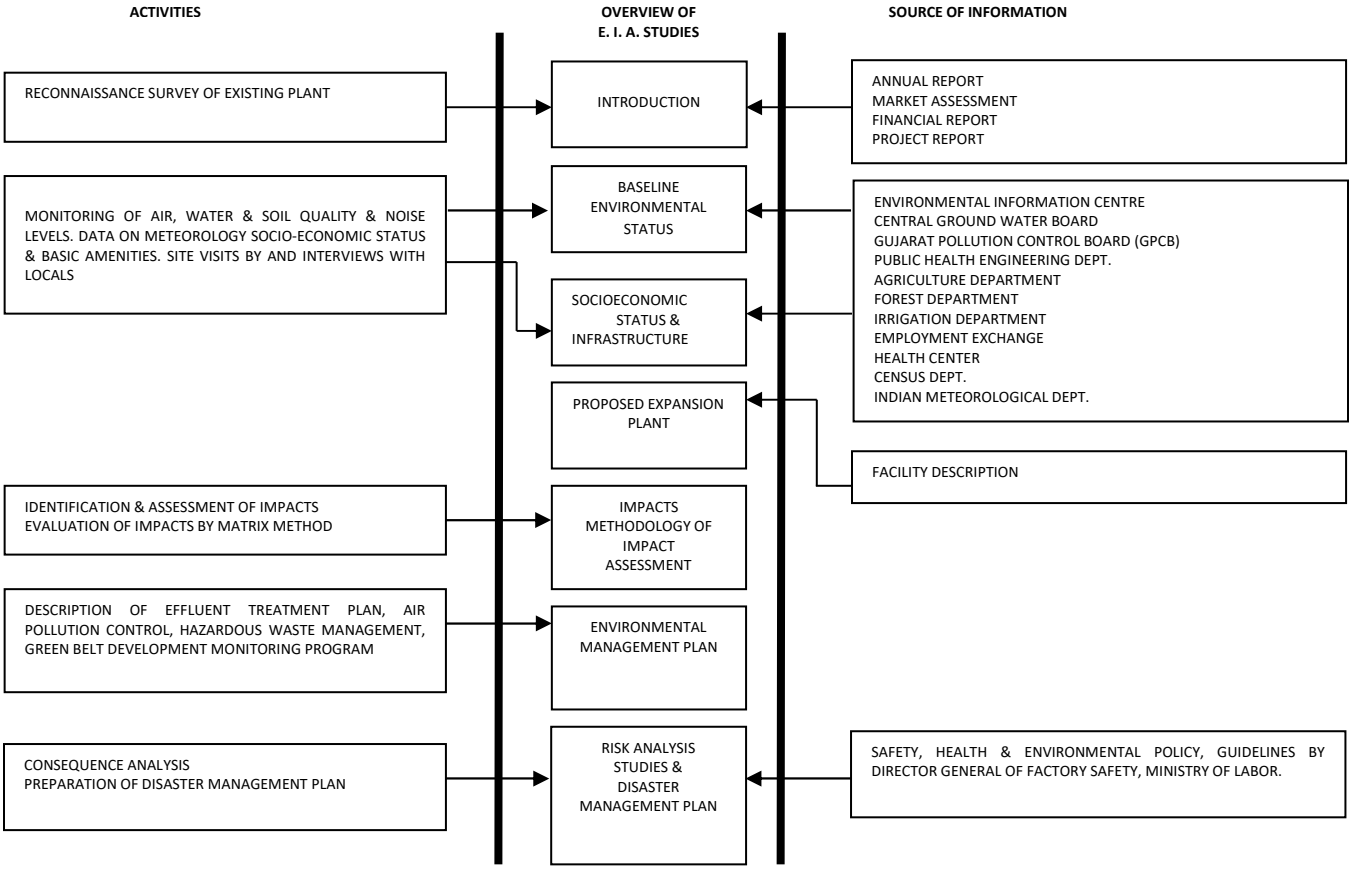
As Per EC Expansion Fuel Requirement.

Sr. No.	Fuel	Quantity
1.	Natural Gas/FO/LDO (Boiler)	20160 m3/Day
2.	Natural Gas (TFH)	500 m3/Day
3.	HSD (DG Set)	8000 Lit/Day
4.	Natural Gas (Incinerator)	800 m3/Hr

3.9 Quantity of wastes to be generated (liquid and solid) and scheme for their management/disposal.

Please refer Form-I, Annexure-V.

3.10 Schematic representations of the feasibility drawing which give information of EIA purpose.



4.0 Site Analysis

4.1 Connectivity

- Site situated in Notified Industrial Estate.
- Site is well connected by road & Rail
- Proximity to raw material suppliers
- Availability of power and cleaner fuel.
- Availability of water from GIDC water supply
- Availability of common TSDF and common incineration sites in nearby area.
- Availability of skilled workmen
- Proximity to cities like Bharuch and Ankleshwar, ensure access to already existing social and commercial infrastructure.

4.2 Land Form, Land Use and Land Ownership

It will be incorporated in EIA Studies.

4.3 Topography (along with map)

We will incorporate topography in EIA Studies.

4.4 Existing land use pattern (agriculture, non-agriculture, forest, water bodies (including area under CRZ)), shortest distances from the periphery of the project to periphery of the forests, national park, wild life sanctuary, eco sensitive areas, water bodies (distance from HFL of the river), CRZ. In case of the notified industrial area, a copy of the Gazette notification should be given.

It will be incorporated in EIA Studies.

4.5 Existing Infrastructure

Existing Infrastructures facilities are listed below:
Site is very well connected by road & rail
Proximity to Raw Material suppliers
Availability of sufficient land free form cultivation.
Availability of power evacuation facilities
Availability of common CETP & TSDF

4.6 Soil Classification

It will be incorporated in EIA Studies.

4.7 Climatic data from secondary sources.

Primary source: our own weather station & Secondary Sources: Indian Meteorological Department, Ahmedabad.

4.8 Social infrastructure available.

Depending on the growth of the company the required social infrastructure will be provided.

5.0 Planning Brief

5.1 Planning Concept (type of industries, facilities, transportation etc) Town and Country planning/Development authority classification.

Type of Industry: Synthetic Organic Chemicals. Pesticides & Its Intermediates.

5.2 Population Projection

It will be incorporated in EIA Studies.

5.3 Land use planning (breakup along with green belt etc.)

Total Plot Area is 51653.7 m^2 out of which 17045 m2 (i.e. approx. 33 %) in Plant Area of area utilized for green belt development. In addition to this, majority of the vacant land shall be planted with trees, shrubs and grasses.

5.4 Assessment of Infrastructure Demand (Physical & Social)

It will be incorporated in EIA Studies.

5.5 Amenities/Facilities

It will be incorporated in EIA Studies.

6.0 Proposed Infrastructure

Proposed project is within the Panoli GIDC.

6.1 Green Belt

Total Plot Area is 51653.7 m^2 out of which 17045 m2 (i.e. approx. 33 %) in Plant Area of area utilized for green belt development. In addition to this, majority of the vacant land shall be planted with trees, shrubs and grasses.

6.2 Social Infrastructure

Depending on the growth of the company the required social infrastructure will be provided.

6.3 Connectivity (Traffic and Transportation Road/ Rail/Metro/ Water ways etc)

Major factors involved in the selection of site are listed below:

- Site situated in Notified Industrial Estate.
- Site is well connected by road & Rail
- Proximity to raw material suppliers
- Availability of power.
- Availability of water from GIDC water supply
- Availability of common TSDF and common incineration sites in nearby area.
- Availability of skilled workmen
- Proximity to cities like Bharuch and Ankleshwar, ensure access to already existing social and commercial infrastructure.

6.4 Drinking water Management (Source & Supply of water)

Total water requirement shall be met through GIDC water supply.

6.5 Sewerage System

Sewage pipes are laid in entire company for the removal and disposal of mainly non-harmful liquid wastes from the offices, canteen and domestic waste coming from different sections of the industry. These liquid wastes are sent to Septic Tank & Soak Pit. After expansion this will be treated in STP and reuse in gardening.

6.6 Solid Waste Management

Please refer Form-I, Annexure-V.

6.7 Power Requirement & Supply/Source

Please refer Section 3.8 of this report.

7.0 Rehabilitation and Resettlement (R & R) Plan

7.1 Policy to be adopted (central/state) in respect of the project affected including home oustees, land oustees and landless laborers (a brief outline to be given)

There is no habitation on the proposed project area and it is open industrial land which is purchased from GIDC for development of factory, so R & R policy is not applicable to this project.

There shall not be displacement of any population in project area. Any major activity that may lead to resettlement of the people is considered as permanent impact. Hence, there is no permanent impact on this account. The increasing industrial activity will boost the commercial and economical status of the locality up to some extent.

8. Project Schedule & Cost Estimates

8.1 Likely date of start of construction and likely date of completion (Time schedule for the project to be given).

All activities related to proposed expansion project shall be started soon after getting Environmental Clearance.

8.2 Estimated Project cost along with analysis in terms of economic viability of the project.

Total Cost of Project will be Rs. 26 Crores. Expenditure on air and water pollution control systems and environmental monitoring devices will also be incurred.

Cost Break Up

Sr. No	Particulars	ESTIMATED COST(INR IN LAKHS)		
		Existing	Additional	Total
1	Land and Site Development	540.63	100	640.63
2	Building	1764.87	3264.67	5029.54
3	Plant and Machineries (mechanical, Electrical, instrumentation)	5053.31	4992.21	10045.52
4	Environment protection measures (includes cost of ETP, Tree Plantation, Evaporator System and Rainwater Harvesting etc.)	0.0	8026	8026
5	Contingency 10%	681.82	2082.34	2764.16
Total		**8040.63**	**18465.22**	**26505.85**

9. Analysis of Proposal (Final Recommendations)

9.1 Financial and social benefits with special emphasis on the benefit to be local people including tribal population, if any, in the area.

- Employment would be as per prevailing norms of state government for skilled and unskilled people for the proposed expansion project.
- Social Welfare shall be done.
- Cordial relation with the industry shall be established and representation shall be made to villagers for help for creation of facilities related to health, education, etc.