

LIST OF ANNEXURES

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ANNEXURE-I**LIST OF PROPOSED PRODUCTS ALONG WITH THEIR PRODUCTION CAPACITY WITH RAW MATERIALS**

Groups	Sr. No.	Product Name	CAS NO.	Qty In Mt/Month	Category	LD50
Group-A	1	6-chloro, 2-nitro toluene and 4-chloro, 2-nitro toluene	--	50	--	--
	1.1	6-chloro, 2-nitro toluene	83-42-1		5(f)-Synthetic Organic Chemical	--
	1.2	4-chloro, 2-nitro toluene	89-59-8		5(f)-Synthetic Organic Chemical	--
Group-B	2	6-chloro 2-amino toluene	87-63-8	20	5(f)-Synthetic Organic Chemical	--
	2.1	6-chloro 2-amino toluene			5(f)-Synthetic Organic Chemical	--
	3	4-chloro 2-amino toluene	95-69-2		5(f)-Synthetic Organic Chemical	--
	3.1	4-chloro 2-amino toluene			5(f)-Synthetic Organic Chemical	--
Group-C	4	1-nitro anthraquinone	-	150	5(f)-Synthetic Organic Chemical	1050 mg/kg
	5	1-amino anthraquinone	82-45-1		5(f)-Synthetic Organic Chemical	1600 mg/kg
	6	Bromamine acid	116-81-4		5(f)-Synthetic Organic Chemical	3480 mg/kg
Group-D	7	4-bromo-1-methyl amino anthraquinone	128-93-8	50	5(f)-Synthetic Organic Chemical	--
	8	4-bromo N-Methyl-1,9-anthrapyridone	6911-87-1		5(f)-Synthetic	--

					Organic Chemical	
	9	1,5- di chloroanthraquinone	82-46-2		5(f)-Synthetic Organic Chemical	--
Group-E	10	Meta chloro aniline	106-47-8	20	5(f)-Synthetic Organic Chemical	100 mg/k
	11	Fast red B Base and Fast Scarlet R Base.	---		--	--
	11.1	Fast red B Base	97-52-9		5(f)-Synthetic Organic Chemical	5000mg/kg
	11.2	Fast Scarlet R Base.	99-59-2		5(f)-Synthetic Organic Chemical	1600 mg/kg
	12	Bordeaux GP.	96-96-8		5(f)-Synthetic Organic Chemical	2000 mg/kg
Group-F	13	Itacomic anhydride	2170-03-8	10	5(f)-Synthetic Organic Chemical	2969 mg/kg
	14	Tris (hydroxymethyl)aminomethane	77-86-1		5(f)-Synthetic Organic Chemical	5900 mg/kg
Group-G	15	Meta phenylenediamine	108-45-2	100	5(f)-Synthetic Organic Chemical	1100 mg/kg
	16	2-chloro-4-flouro-5-nitro benzyl chloride	120890-66-6		5(f)-Synthetic Organic Chemical	--
	17	3-(bromomethyl)-2-chloro-4-(methyl sulfonyl)benzoic acid	120100-05-2		5(f)-Synthetic Organic Chemical	--
Group-H	18	4-chloro-3-ethyl-1-methyl-N-[4-(4-methylphenoxy)benzyl]-1H-pyrazole-5-carboxamide	129558-76-5	20	5(b)-Pesticide Intermedia tes	--
	19	2-chloro-4-(methylsulfonyl)-3-[(tetrahydrofuran-2-yl methoxy) methyl]benzoic acid	120100-77-8		5(b)-Pesticide Intermedia	--

					tes	
	20	N,N'[piperazine-1,4-diyl[bis(2,2,2-trichloroethane-1,1-diyl)]diformamide (PITR)]	122-96-3		5(b)-Pesticide Intermediates	--
	21	Anthraquinone	84-65-1	100	5(f)-Synthetic Organic Chemical	--
	22	Alphamethyl Benzyl Amine	618-36-0	50	5(f)-Synthetic Organic Chemical	--
	23	Quinizarine	81-64-1	20	5(f)-Synthetic Organic Chemical	5000 mg/kg
	24	R & D	--	1	--	--
		Total		591		

RAW MATERIAL CONSUMPTION:

Sr. No.	Product Name	Raw Material	Cas no.	Qty (Mt/Month)	Source	Mode of Transport	Type of Linkage	Distance of source from project site (KM)
1	6-chloro 2-nitro toluene and 4-chloro 2-nitro toluene	o-Nitro Toluene	88-72-2	62.50	Local Market	Road	100	Open Market
		Chlorine	7782-50-5	34.38	Local Market	Road	25	Open Market
		FeCl3	7705-08-0	1.00	Local Market	Road	25	Open Market
2	6-chloro 2-Amino toluene	6-chloro 2-nitro toluene	83-42-1	25.00	Local Market	Road	50	Open Market
		Sodium hydrogen Sulphide (40%)	207683-19-0	29.17	Local Market	Road	50	Open Market
		Emlusifier	68476-34-6	0.25	Local Market	Road	50	Open Market
2.1	6-chloro 2-Amino toluene	6-chloro 2-nitro toluene	83-42-1	25.00	Local Market	Road	50	Open Market
		Raney Nickel	12003-78-0	1.75	Local Market	Road	20	Open Market
		Methanol	67-56-1	125.00	Local Market	Road	200	Open Market
3	4-chloro 2-Amino toluene	4-chloro 2-nitro toluene	89-59-8	25.00	Local Market	Road	50	Open Market
		Raney Nickel	12003-78-0	1.75	Local Market	Road	20	Open Market
		Methanol	67-56-1	125.00	Local Market	Road	20	Open Market
3.1	4-chloro 2-Amino toluene	4-chloro 2-nitro toluene	89-59-8	25.00	Local Market	Road	50	Open Market
		Sodium hydrogen Sulphide (40%)	207683-19-0	29.17	Local Market	Road	25	Open Market
		Emlusifier	68476-34-6	0.25	Local Market	Road	50	Open Market
4	1-Nitro Anthraquinone	Antheaquinone	84-65-1	176.47	Local Market	Road	100	Open Market
		Nitric acid (98%)	7697-37-2	441.18	Local Market	Road	20	Open Market
		C.S.Lye (48%)	1310-73-	146.47	Local	Road	20	Open

			2		Market			Market
		Sodium Sulphite	7757-83-7	74.12	Local Market	Road	20	Open Market
		Di Chloro Methane	75-09-2	1337.65	Local Market	Road	50	Open Market
		Sulphuric acid (98 %)	7664-93-9	882.35	Local Market	Road	20	Open Market
5	1-Amino Anthraquinone	Antheaquinone	84-65-1	166.67	Local Market	Road	100	Open Market
		Nitric Acid (98 %)	7697-37-2	416.67	Local Market	Road	20	Open Market
		Sulphuric acid	1310-73-2	833.33	Local Market	Road	20	Open Market
		Sodium Sulphite	7757-83-7	70.00	Local Market	Road	25	Open Market
		Di Chloro Methane	75-09-2	1263.33	Local Market	Road	50	Open Market
		Sodium Hydrogen Sulphide (40%)	7664-93-9	107.50	Local Market	Road	25	Open Market
		Emulsifier	68476-34-6	6.67	Local Market	Road	50	Open Market
6	Bromamine Acid	Antheaquinone	84-65-1	187.50	Local Market	Road	100	Open Market
		Nitric acid (98%)	7697-37-2	187.50	Local Market	Road	20	Open Market
		C.S.Lye (48%)	1310-73-2	168.75	Local Market	Road	20	Open Market
		Sodium Sulphite	7757-83-7	78.75	Local Market	Road	25	Open Market
		Di Chloro Methane	75-09-2	1421.25	Local Market	Road	50	Open Market
		NaHS (28-30%)	7664-93-9	120.94	Local Market	Road	20	Open Market
		Emulsifier	68476-34-6	7.50	Local Market	Road	50	Open Market
		20 % Oleum	8014-95-7	166.88	Local Market	Road	20	Open Market
		Sodium Sulphate	7757-82-6	150.00	Local Market	Road	25	Open Market
		Iodine	7553-56-2	1.88	Local Market	Road	20	Open Market
		Bromine	7726-95-6	50.63	Local Market	Road	20	Open Market
		Carbon	7440-44-0	7.50	Local Market	Road	20	Open Market
		Sulphuric Acid (98%)	7664-93-9	937.50	Local Market	Road	20	Open Market
7	4-Bromo-1-methyl amino anthraquinone	1-Nitro Anthraquinone	82-34-8	48.00	Local Market	Road	50	Open Market

		Mono Methyl Amine	74-89-5	12.00	Local Market	Road	50	Open Market
		Toluene	108-88-3	50.00	Local Market	Road	20	Open Market
		Sodium Hydroxide	1310-73-2	27.00	Local Market	Road	20	Open Market
		Hydrochloric acid	7647-01-0	110.00	Local Market	Road	20	Open Market
		Bromine	7726-95-6	26.00	Local Market	Road	20	Open Market
8	4-Bromo N-Methyl-1,9Anthrapyridone	4-Bromo 1-Methylamino Anthraquinone	128-93-8	60.00	Local Market	Road	50	Open Market
		Acetic Anhydride	108-24-7	100.00	Local Market	Road	20	Open Market
		2% NaOH Solution	1310-73-2	520.00	Local Market	Road	20	Open Market
		Sulphuric Acid	7664-93-9	290.00	Local Market	Road	20	Open Market
9	1,5- di chloro anthraquinone	Anthraquinone	84-65-1	77.64	Local Market	Road	100	Open Market
		Oleum(65%)	8014-95-7	131.99	Local Market	Road	25	Open Market
		Sodium Hydroxide	1310-73-2	31.06	Local Market	Road	20	Open Market
		Sulphuric acid	7664-93-9	36.80	Local Market	Road	20	Open Market
		Dichloro benzene	95-50-1	38.82	Local Market	Road	50	Open Market
		Sodium Chloride	7647-14-5	18.01	Local Market	Road	20	Open Market
		Sodium chlorate	7775-09-9	16.46	Local Market	Road	20	Open Market
10	Meta Chloro Aniline	Nitro Benzene	98-95-3	20.00	Local Market	Road	35	Open Market
		Chlorine Gas	7782-50-5	12.00	Local Market	Road	20	Open Market
		Methanol	67-56-1	100.00	Local Market	Road	20	Open Market
		Raney Nickel	12003-78-0	2.00	Local Market	Road	20	Open Market
		Hydrogen Gas	1333-74-0	5.00	Local Market	Road	30	Open Market
11	Fast Red B Base and Fast Scarlet R Base	Ortho Anisidine	90-04-0	18.69	Local Market	Road	100	Open Market
		Acetic anhydride	108-24-7	15.89	Local Market	Road	50	Open Market
		Nitric Acid	7697-37-	17.66	Local	Road	25	Open

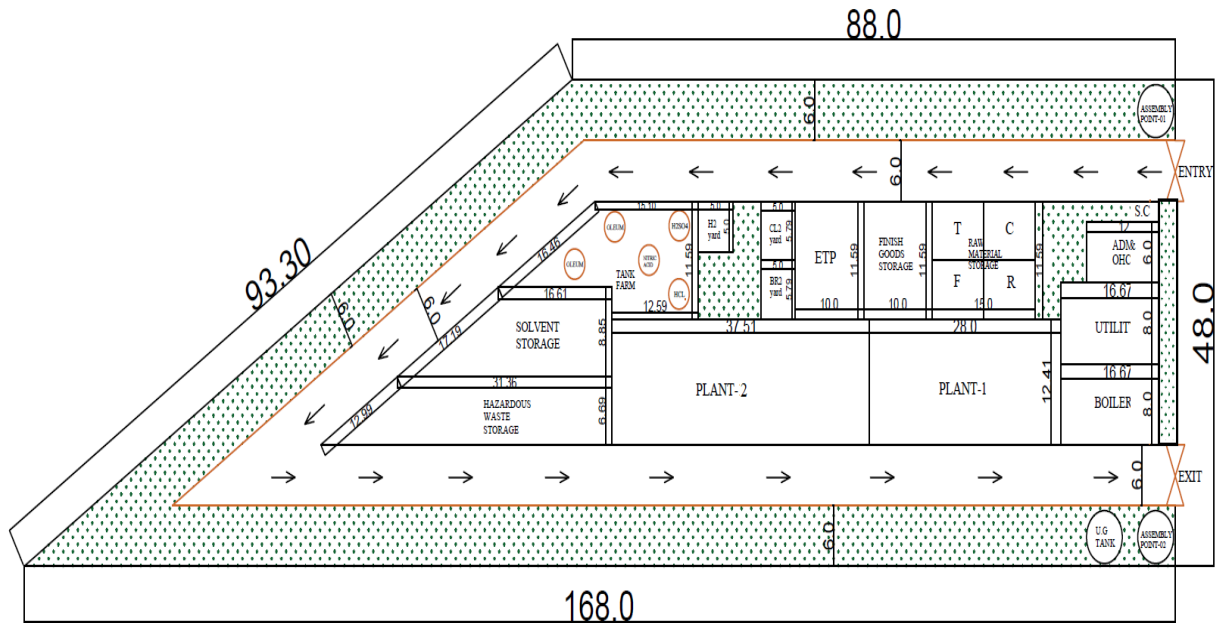
			2		Market			Market
		Di Chloro Methane	75-09-2	69.91	Local Market	Road	50	Open Market
		Sodium Hydroxide	1310-73-2	12.21	Local Market	Road	20	Open Market
		Sulphuric acid	7664-93-9	5.61	Local Market	Road	20	Open Market
12	Fast Bordeaux GP Base	Pera Anisidine	104-94-9	16.96	Local Market	Road	50	Open Market
		Acetic anhydride	108-24-7	15.26	Local Market	Road	50	Open Market
		Nitric Acid	7697-37-2	25.44	Local Market	Road	20	Open Market
		Di Chloro Methane	75-09-2	67.84	Local Market	Road	50	Open Market
		Sodium Hydroxide	1310-73-2	6.36	Local Market	Road	20	Open Market
		Acetic acid	64-19-7	15.22	Local Market	Road	20	Open Market
13	Itaconic Anhydride	Citric Acid Monohydrate	5949-29-1	20.83	Local Market	Road	100	Open Market
14	Tris(Hydroxymethyl)aminomethane	Nitro Methane	75-52-5	5.75	Local Market	Road	100	Open Market
		Formaldehyde	50-00-0	8.62	Local Market	Road	75	Open Market
		Sodium Hydroxide	1310-73-2	3.70	Local Market	Road	20	Open Market
		Methanol	67-56-1	63.22	Local Market	Road	20	Open Market
		Di Chloro Methane	5949-29-1	0.39	Local Market	Road	50	Open Market
		Hydrogen Gas	1333-74-0	0.18	Local Market	Road	35	Open Market
		Raney Nickel	12003-78-0	1.39	Local Market	Road	20	Open Market
		Hydrochloric Acid	7647-01-0	1.15	Local Market	Road	20	Open Market
15	m-Phenylene Diamine	Nitro Benzene	98-95-3	156.25	Local Market	Road	25	Open Market
		Nitric Acid	7697-37-2	93.75	Local Market	Road	20	Open Market
		Spent Acid	7697-37-2	234.38	Local Market	Road	20	Open Market
		Soda Ash	497-19-8	9.38	Local Market	Road	20	Open Market
		Sodium Sulphite Solution	7757-83-7	28.13	Local Market	Road	20	Open Market

		Methanol	67-56-1	781.25	Local Market	Road	20	Open Market
		Raney Nickel	12003-78-0	15.63	Local Market	Road	20	Open Market
		Hydrogen Gas	1333-74-0	11.25	Local Market	Road	35	Open Market
16	2 Chloro 4 Flouro 5 Nitro Benzyl chloride	2- -fluoro-1 trichloroethyle benzene	79-01-6	104.56	Local Market	Road	75	Open Market
		Oleum	8014-95-7	179.61	Local Market	Road	20	Open Market
		Nitric Acid	7697-37-2	83.76	Local Market	Road	20	Open Market
		Sodium Carbonate		91.47	Local Market	Road	20	Open Market
		Methanol	67-56-1	140.19	Local Market	Road	20	Open Market
17	3-(bromomethyl)-2-chloro-4-(methyl sulfonyl)benzoic acid	2-chloro-6-methylthiotoluene	82961-52-2	53.50	Local Market	Road	55	Open Market
		Methanol/EDC	67-56-1	1200.00	Local Market	Road	20	Open Market
		Acetylene Chloride	75-36-5	250.00	Local Market	Road	20	Open Market
		Aluminium Chloride	7446-70-0	300.00	Local Market	Road	20	Open Market
		Bromine	7726-95-6	490.00	Local Market	Road	20	Open Market
		Hydrogen Peroxide	7722-84-1	315.00	Local Market	Road	20	Open Market
		Sodium Peroxide	1313-60-6	50.00	Local Market	Road	35	Open Market
		ODCB	95-50-1	1000.00	Local Market	Road	35	Open Market
18	4-chloro-3-ethyl-1-methyl-1H-pyrazole-5-carboxylic acid	1-[4-(4-methylphenoxy)phenyl]methanamine hydrochloride	262862-66-8	14.01	Local Market	Road	40	Open Market
		Toluene	108-88-3	83.97	Local Market	Road	20	Open Market
		Thionyl Chloride	7719-09-7	8.17	Local Market	Road	20	Open Market
		DMF	4637-24-5	0.20	Local Market	Road	20	Open Market
		NaOH (25% Solution)	1310-73-2	24.17	Local Market	Road	20	Open Market
		Hexane	110-54-3	58.85	Local	Road	20	Open

					Market			Market
		Hydrochloric Acid	7647-01-0	5.01	Local Market	Road	20	Open Market
19	2-chloro-4-(methylsulfonyl)-3-[(tetrahydrofuran-2-ylmethoxy)methyl]benzoic acid	1-chloro-2-methyl-3-(methylsulfonyl)benzene	82961-52-2	12.63	Local Market	Road	100	Open Market
		Dichloroethane	107-06-2	101.07	Local Market	Road	50	Open Market
		Aluminium Chloride	7446-70-0	12.63	Local Market	Road	20	Open Market
		Acetyl Chloride	75-36-5	6.70	Local Market	Road	20	Open Market
		Hydrochloric Acid	7647-01-0	48.38	Local Market	Road	20	Open Market
		Sodium Carbonate	497-19-8	3.78	Local Market	Road	20	Open Market
		Sodium Chloride	7647-14-5	7.00	Local Market	Road	20	Open Market
		Methanol	67-56-1	82.35	Local Market	Road	20	Open Market
		Na ₂ WO ₄ ·2H ₂ O	13472-45-2	0.76	Local Market	Road	35	Open Market
		31%Hydrogen Peroxide	7722-84-1	18.82	Local Market	Road	20	Open Market
		10%Sodium Hypochloride	7681-52-9	151.71	Local Market	Road	20	Open Market
		Toluene	108-88-3	219.89	Local Market	Road	20	Open Market
		Dichloro Benzene	95-50-1	146.54	Local Market	Road	20	Open Market
		Bromine	7726-95-6	25.26	Local Market	Road	20	Open Market
		tetrahydrofuran-2-ylmethanol	97-99-4	33.40	Local Market	Road	70	Open Market
		Sodium Hydroxide	1310-73-2	7.92	Local Market	Road	20	Open Market
		THF	109-99-9	21.68	Local Market	Road	20	Open Market
20	N,N'-(piperazine-1,4-diyl)bis(2,2,2-trichloroethane-1,1-diyl)]diformamide (PITR)	Formaldehyde	50-00-0	4.783	Local Market	Road	35	Open Market

		Trichloro acetaldehyde	75-87-6	16.130	Local Market	Road	60	Open Market
		n-butyl acetate	123-86-4	20.696	Local Market	Road	60	Open Market
		Phosphorous trichloride	7719-12-2	5.261	Local Market	Road	70	Open Market
		Piperazine	110-85-0	4.391	Local Market	Road	70	Open Market
		30 % Sodium Hydroxide	310-73-2	23.130	Local Market	Road	20	Open Market
21	Anthraquinone	Anthracene	120-12-7	90.91	Local Market	Road	40	Open Market
		Acetic Acid	64-19-7	454.55	Local Market	Road	20	Open Market
		Cromium Trioxide	1333-82-0	204.00	Local Market	Road	45	Open Market
22	Alphamethyl Benzyl Amine	Acetophenone	98-86-2	104.17	Local Market	Road	40	Open Market
		Ammonia Gas	7664-41-7	14.58	Local Market	Road	25	Open Market
		Hydrogen Gas	1333-74-0	2.08	Local Market	Road	35	Open Market
		Raney Nickel	12003-78-0	10.42	Local Market	Road	20	Open Market
		Iso Propyl Alcohol	67-63-0	416.67	Local Market	Road	20	Open Market
23	Quinizarine	4-Chloro Phenol	106-48-9	12.6	Local Market	Road	50	Open Market
		Phthalic Anhydride	85-44-9	16	Local Market	Road	100	Open Market
		20% Oluem	8014-95-7	39.5	Local Market	Road	20	Open Market
		Boric Acid	10043-35-3	9	Local Market	Road	20	Open Market
		Sodium Hydroxide	1310-73-2	17.75	Local Market	Road	20	Open Market
		Emulsifier	8012-56-4	1.25	Local Market	Road	50	Open Market

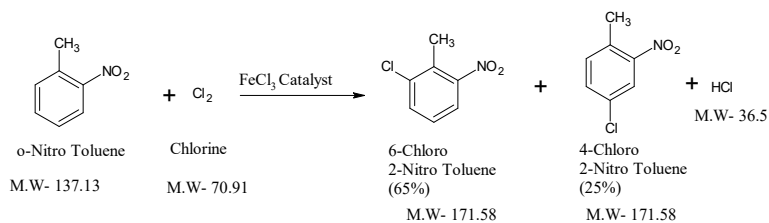
LAYOUT OF MAP OF THE PLANT



ANNEXURE-III

MANUFACTURING PROCESS, CHEMICAL REACTION & MASS BALANCE:

1. 6-chloro 2-nitro toluene and 4-chloro 2-nitro toluene

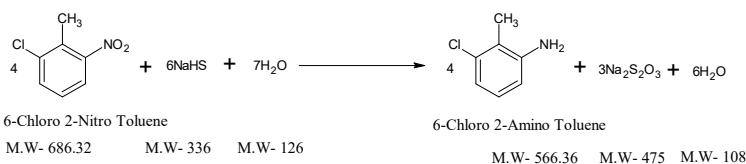


Brief Process

o-Nitro Toluene react with chlorine in presence of ferric chloride catalyst to get mixture of 65-70% 6-chloro 2-nitro toluene and 20-25% 4-chloro 2-nitro toluene. High vacuum distillation to get pure product

Sr.No	Raw Material	In Put in Kg		Out Put in Kg
1	o-Nitro Toluene	1000	6-Chloro 2-Nitro Toluene	800
2	Chlorine	550	4-Chloro 2-Nitro Toluene	296
3	FeCl ₃	16	Hydrochloric acid	266
4	Water	2000	Aq.Layer to ETP	2054
5			Residue	150
6				
		3566		3566

2. 6-chloro 2-Amino toluene

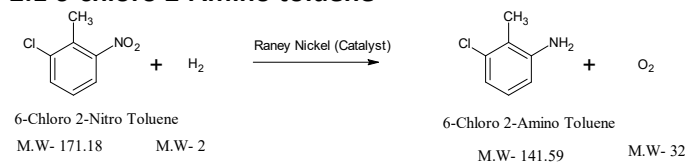


Brief Process

6-chloro 2-nitro toluene react with sodium hydrogen sulphide to get 6-chloro 2-amino Toluene

Sr.No	Raw Material	In Put in Kg		Out Put in Kg
1	6-chloro 2-nitro toluene	300	6-Chloro 2-Amino Toluene	240
2	Sodium hydrogen Sulphide (40%)	350	Filtrate mL to ETP	1713
3	Water	1300		
4	Emlusifier	3		
5				
6				
		3566		3566

2.1 6-chloro 2-Amino toluene

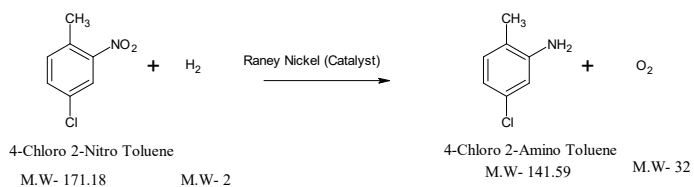


Brief Process

6-chloro 2-nitro toluene react with hydrogen gas in presence of Raney Nickel catalyst to get 6-chloro 2-amino toluene.

Sr.No	Raw Material	In Put in Kg		Out Put in Kg
1	6-chloro 2-nitro toluene	300	6-Chloro 2-Amino Toluene	240
2	Raney Nickel	21	Recovered Methanol	1350
3	Water	900	Recovered Raney Nickel (reuse)	21
4	Methanol	1500	Filtrate mL	1010
			Residue	100
		2721		2721

3. 4-chloro 2-Amino toluene

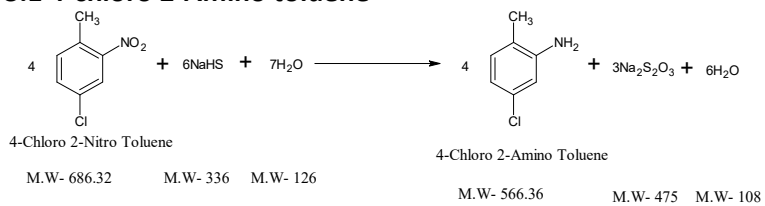


Brief Process

4-chloro 2-nitro toluene react with hydrogen gas in presence of Raney Nickel catalyst to get 4-chloro 2-amino toluene.

Sr.No	Raw Material	In Put in Kg		Out Put in Kg
1	4-chloro 2-nitro toluene	300	4-Chloro 2-Amino Toluene	240
2	Raney Nickel	21	Recovered Methanol	1350
3	Water	900	Recovered Raney Nickel (reuse)	21
4	Methanol	1500	Filtrate mL	1010
			Residue	100
		2721		2721

3.1 4-chloro 2-Amino toluene

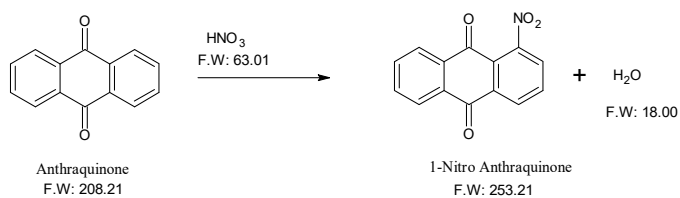


Brief Process

4-chloro 2-nitro toluene react with sodium hydrogen sulphide to get 4-chloro 2-amino Toluene

Sr.No	Raw Material	In Put in Kg		Out Put in Kg
1	4-chloro 2-nitro toluene	300	4-Chloro 2-Amino Toluene	240
2	Sodium hydrogen Sulphide (40%)	350	Filtrate mL to ETP	1713
3	Water	1300		
4	Emlusifier	3		
5				
6				
		1953		1953

4. 1-Nitro Anthraquinone



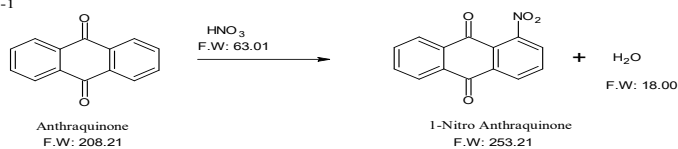
Brief Process

Anthraquinone react with nitric acid and sulphuric acid to get 1-nitro anthraquinone crude purification done in sodium hydroxide, sodium sulphite and do chloro methane to get pure 1-Nitro Anthraquinone.

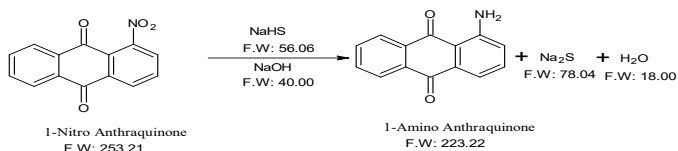
Sr. No	Raw Material	In Put in Kg	Raw Material	Out Put in Kg
1	Antheaquinone	200	Product	170
2	Nitric acid (98%)	500	Filtrate mL -1 (Sulphuric Acid Content)	2500
3	Water	1500	Filtrate mL-2 For ETP	946
4	C.S.Lye (48%)	166	Recovered Di Chloro Methane	1300
5	Sodium Sulphite	84	Residue	50
6	Di Chloro Methane	1516		
7	Sulphuric acid (98 %)	1000		
		4966		4966

5. 1-Amino Anthraquinone

Stage-1



Stage-2



Brief Process

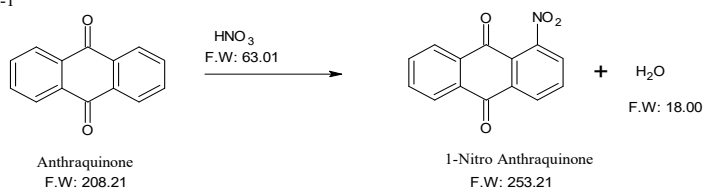
Anthraquinone react with Sulphuric acid to get 1-nitro anthraquinone crude purification done in sodium hydroxide, sodium sulphite and do chloro methane to get pure 1-Nitro Anthraquinone. 1-Nitro Anthraquinone react with sodium hydrogen sulphide to get 1-Amino Anthraquinone

Mass Balance

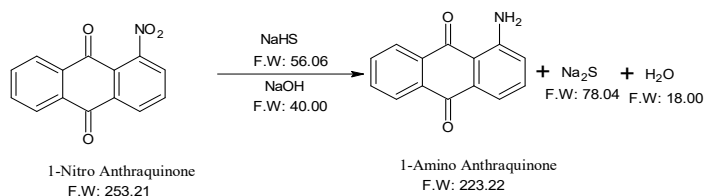
Sr.No	Raw Material	In Put in Kg		Out Put in Kg
1	Antheaquinone	200	Product	180
2	Nitric Acid (98 %)	500	Filtrate mL -1 (Spent Acid)	2119
3	Sulphuric acid	1000	Filtrate mL-2 For ETP	450
4	Water	1200	Recovered Di Chloro Methane	1300
5	Sodium Sulphite	84	Filtrate mL-3 For ETP	257
6	Di Chloro Methane	1516	Filtrate mL-4 For ETP	281
7	Sodium Hydrogen Sulphide (28-30%)	129	Residue	50
8	Emulsifier	8		
		4637		4637

6. Bromamine Acid

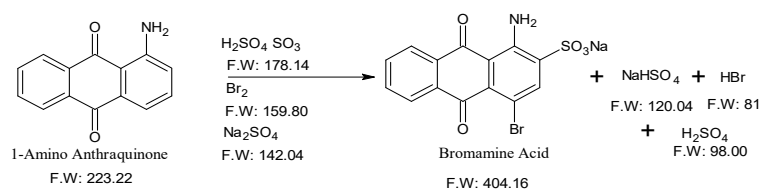
Stage-1



Stage-2



Stage-3



Brief Process

Anthraquinone react with nitric acid to get 1-nitro anthraquinone. 1-Nitro Anthraquinone react with sodium hydrogen sulphide to get 1-Amino Anthraquinone. 1-Amino Anthraquinone react with Oleum and bromine to get Bromamine Acid.

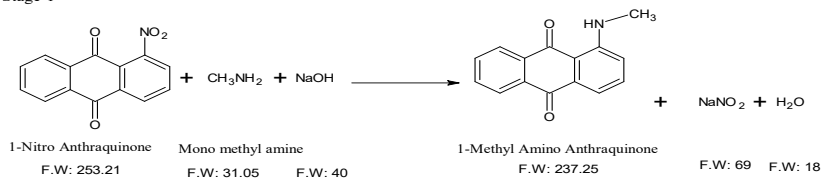
Mass Balance

Sr.No	Raw Material	In Put in Kg	Raw Material	Out Put in Kg
1	Anthraquinone	200	Product	160
2	Nitric acid (98%)	200	Filtrate mL -1 (Sulphuric Acid)	2500
3	Water	1500	Filtrate mL-2	509
4	C.S.Lye (48%)	180	Recovered Di Chloro Methane	1300
5	Sodium Sulphite	84	Filtrate mL-3 for ETP	750
6	Di Chloro Methane	1516		
7	NaHS (28-30%)	129		
8	Emulsifier	8		
9	20 % Oleum	178		
10	Sodium Sulphate	160		

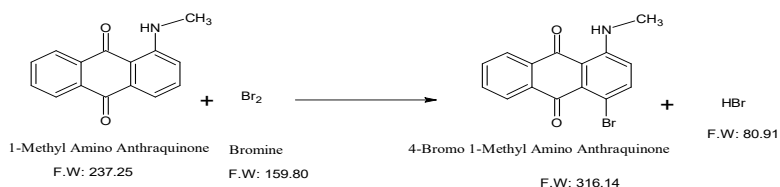
11	Iodine	2		
12	Bromine	54		
13	Carbon	8		
14	Sulphuric Acid (98%)	1000		
		5219		5219

7. 4-Bromo-1-methyl amino anthraquinone

Stage-1



Stage-2

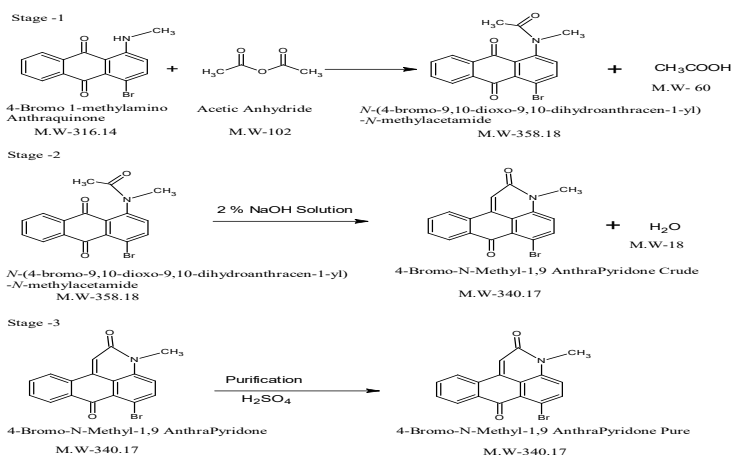


Brief Process

1-Nitro Anthraquinone react with mono methyl amine in presence of toluene to get 1-methyl amino anthraquinone. 1-methyl amino anthraquinone react with bromine in presence of bromine to get 4-bromo 1-methyl amino anthraquinone.

Sr.No	Raw Material	In Put in Kg		Out Put in Kg
1	1-Nitro Anthraquinone	480	Product	500
2	Mono Methyl Amine	120	Recovered Toluene	492
3	Toluene	500	HBr	130
4	Sodium Hydroxide	270	Filtrate mL to ETP	4250
5	Water	2700	Residue	58
6	Hydrochloric acid	1100		
7	Bromine	260		
		5430		5430

8. 4-Bromo N-Methyl-1,9Anthrapyridone



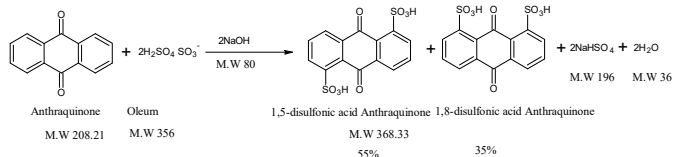
Brief Process

4-Bromo 1-methylamino Anthraquinone react with acetic anhydride to get *N*-(4-bromo-9,10-dioxo-9,10-dihydroanthracen-1-yl)-*N*-methylacetamide. Cyclization of *N*-(4-bromo-9,10-dioxo-9,10-dihydroanthracen-1-yl)-*N*-methylacetamide in presence of sodium hydroxide solution to get 4-Bromo N-Methyl-1,9 Anthrapyridone crude. Crude product purified with sulphuric acid to get pure 4-Bromo-N-Methyl 1,9Anthrapyridone.

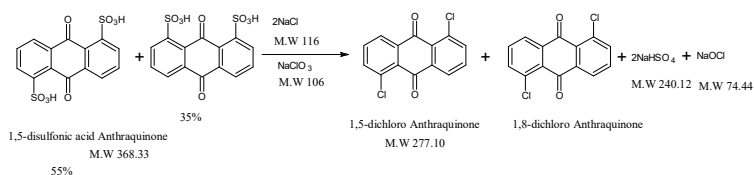
Sr.No	Raw Material	In Put in Kg	Raw Material	Out Put in Kg
1	4-Bromo 1-Methylamino Anthraquinone	300	Product	250
2	Acetic Anhydride	500	Acetic Acid	57
3	2% NaOH Solution	2600	Filtrate mL	647
4	Sulphuric Acid	1450	Filtrate mL Basic	2660
5	Water	1000	Spent Acid	2236
		5850		5850

9. 1,5 Di ChloroAnthraquinone& 1,8 Di ChloroAnthraquinone

Stage-1



Stage-2



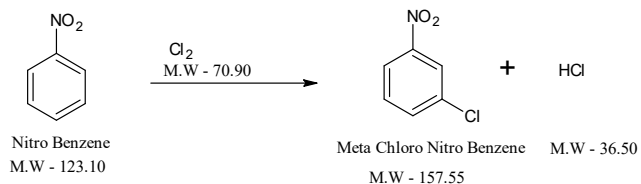
Brief Process

Anthraquinone react with Oleum to get mixture of 1,5 Di Sulphonic acid anthraquinone, 1,8 Di Sulphonic acid and other isomer. Mixture of anthraquinonesulphonic acid isomer react with sodium chloride and sodium chlorate to get 1,5 Di ChloroAnthraquinone, 1,8 Di ChloroAntraquinone and mix isomer crude. Purification of crude product to get pure 1,5 Di ChloroAnthraquinone and 1,8 Di ChloroAntraquinone

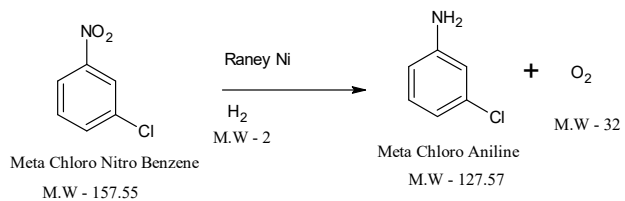
Sr.No	Raw Material	In Put in Kg		Out Put in Kg
1	Anthraquinone	500	1,5 Di Chloro Antraquinone	322
2	Oleum(65%)	850	1,8 Di Chloro Antraquinone	230
3	Water	1500	Filtrate mL -1 To ETP	1650
4	Sodium Hydroxide	200	Recovered Dichloro benzene	235
5	Sulphuric acid	237	Filtrate mL-2 to ETP	1262
6	Dichloro benzene	250	Residue	60
7	Sodium Chloride	116		
8	Sodium chlorate	106		
		3759		3759

10. Meta Chloro Aniline

Stage-1



Stage-2



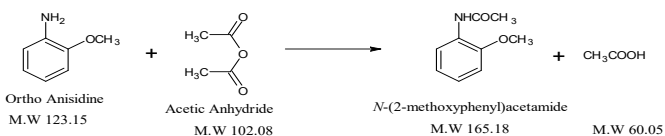
Brief Process

Nitro benzene react with chlorine to get metachloro nitrobenzene. Meta chloro nitrobenzene react with hydrogen in presence of raney nickel to get Meta chloro aniline.

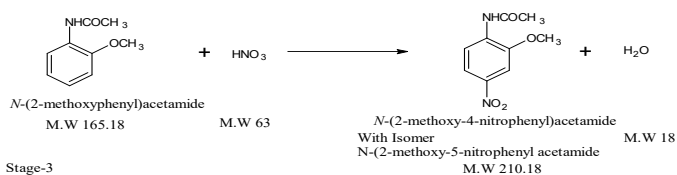
Sr.No	Raw Material	In Put in Kg		Out Put in Kg
1	Nitro Benzene	100	Product	100
2	Chlorine Gas	60	Recovered Methanol	480
3	Methanol	500	Recovered Raney Nickel	12
4	Raney Nickel	10	Hydrochloric Acid	60
5	Hydrogen Gas	25	Residue	43
		695		695

11. Fast Red B Base and Fast Scarlet R Base

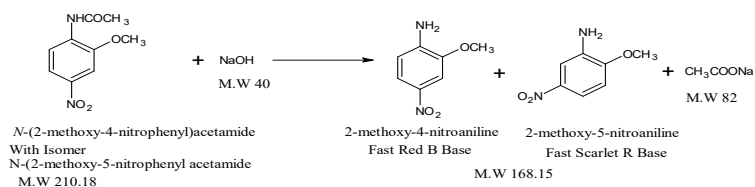
Stage-1



Stage-2



Stage-3



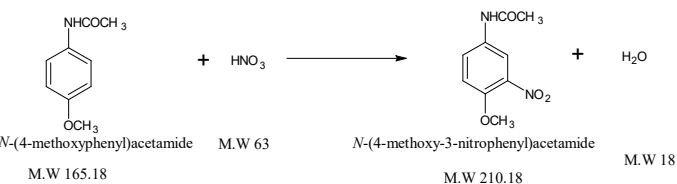
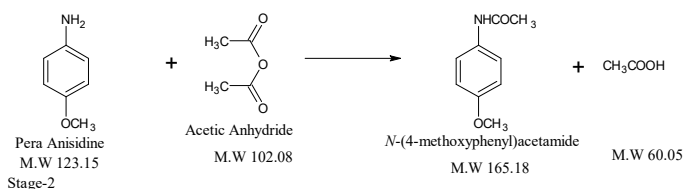
Brief Process

o-anisidine react with acetic anhydride to get *N*-(2-methoxyphenyl) acetamide. *N*-(2-methoxyphenyl)acetamide react with nitric acid to get *N*-(2-methoxy-4-nitrophenyl)acetamide and With Isomer *N*-(2-methoxy-5-nitrophenyl) acetamide. Hydrolysis of *N*-(2-methoxy-4-nitrophenyl)acetamide and With Isomer *N*-(2-methoxy-5-nitrophenyl) acetamide to get Fast Red B Base and Fast Scarlet R Base

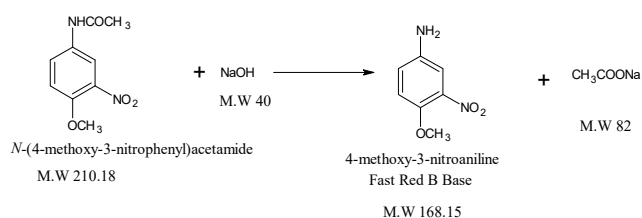
Sr.No	Raw Material	In Put in Kg		Out Put in Kg
1	Ortho Anisidine	1000	Fast Red B Base	1070
2	Acetic anhydride	850	Fast Scarlet R Base	205
3	Nitric Acid	945	Recovered Acetic Acid	490
4	Di Chloro Methane	3740	Recovered Di Chloro Metahne	3590
5	Water	6000	Filtrate mL to ETP	2725
6	Sodium Hydroxide	653	Wash mL to recycle	2050
7	Sulphuric acid	300	Aq.Layer to ETP	4778
		13488		13488

12. Fast Bordeaux GP Base

Stage-1



Stage-3

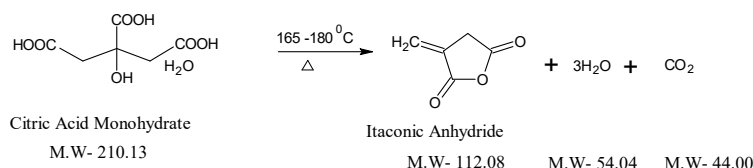


Brief Process

p-anisidine react with acetic anhydride to get N-(4-methoxyphenyl) acetamide. N-(4-methoxyphenyl)acetamide react with nitric acid to get N-(4-methoxy-3-nitrophenyl)acetamide . Hydrolysis of N-(4-methoxy-3-nitrophenyl)acetamide to get Fast Bordeaux GP Base.

Sr.No	Raw Material	In Put in Kg		Out Put in Kg
1	PeraAnisidine	848	Product	1000
2	Acetic anhydride	763	Recovered Acetic Acid	1225
3	Nitric Acid	1272	Aq.Layer -1 to ETP	2650
4	Di Chloro Methane	3392	Recovered Di ChloroMetahne	3300
5	Water	5000	Filtrate mL to ETP	3150
6	Sodium Hydroxide	318	Wash mL to recycle	1029
7	Acetic acid	761		
		12354		12354

13. Itaconic Anhydride:



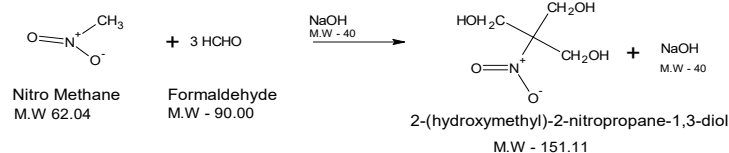
Brief Process

Heat Citric Acid Monohydrate at 165-180°C under vacuum and distil out Itaconic Anhydride.

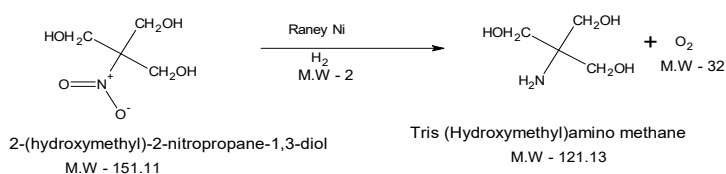
Sr.No	Raw Material	In Put in Kg		Out Put in Kg
1	Citric Acid Monohydrate	500	Product	240
			Water	130
			Carbon Dioxide Gas	105
			Residue	25
		500		500

14. Tris(Hydroxymethyl)aminomethane:

Stage-1



Stage-2



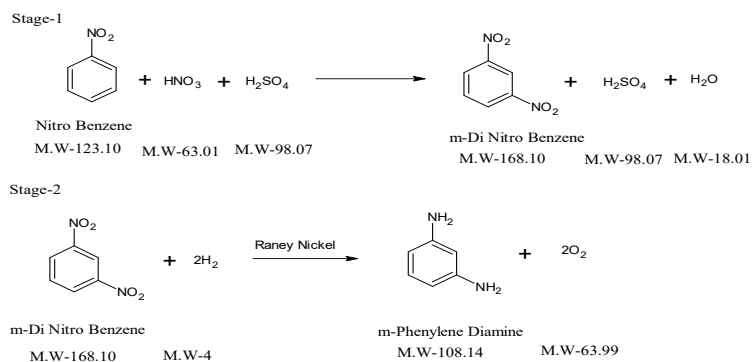
Brief Process

Nitro methane react with formaldehyde in presence of methanol, di chloro methane and sodium hydroxide to get 2-(hydroxymethyl)-2-nitropropane-1,3-diol. 2-(hydroxymethyl)-2-nitropropane-1,3-diol react with hydrogen gas in presence raneynickel to get Tris(Hydroxymethyl)amino methane

Sr.No	Raw Material	In Put in Kg		Out Put in Kg
1	Nitro Methane	500	Product	870
2	Formaldehyde	750	Recovered Methanol	5225

3	Sodium Hydroxide	322	Recovered Raney Nickel	121
4	Methanol	5500	Residue	147
5	Di Chloro Methane	34	Aq.Layer to ETP	980
6	Hydrogen Gas	16		
7	Raney Nickel	121		
8	Hydrochloric Acid	100		
		7343		7343

15. m-PhenyleneDiamine



Brief Process

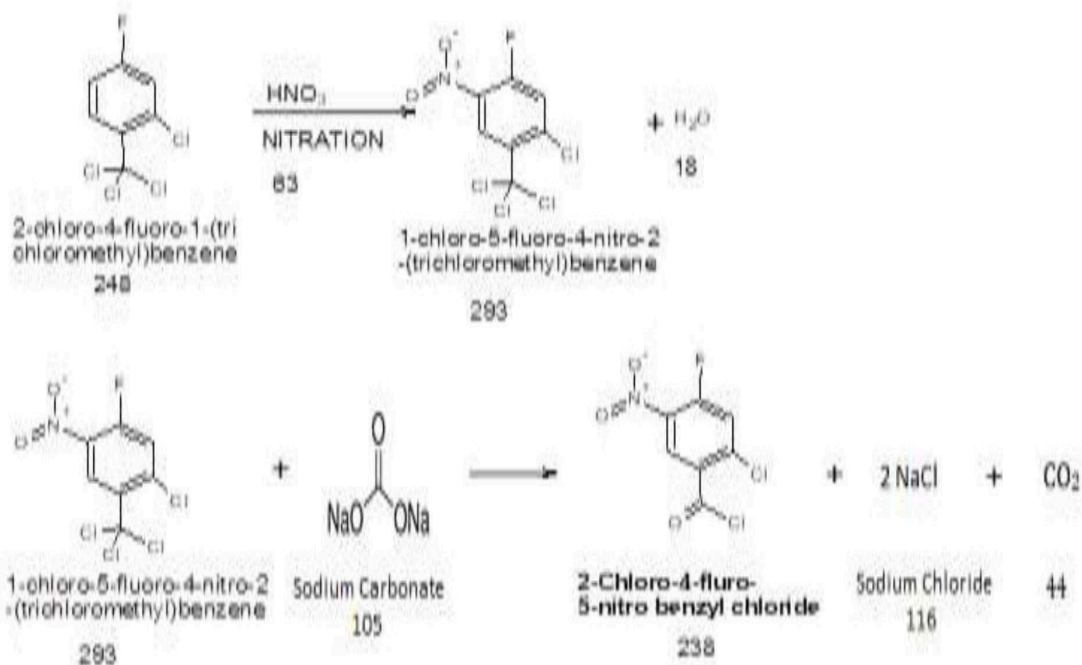
Nitro benzene react with nitric acid in presence of sulfuric acid to get m-di nitro benzene. Reduction of m-di nitro benzene in presence of Raney nickel and hydrogen gas to get m-PhenyleneDiamine

Sr.No	Raw Material	In Put in Kg		Out Put in Kg
1	Nitro Benzene	1000	Product	640
2	Nitric Acid	600	Spent Acid (Sulphuric Acid)	2000
3	Spent Acid	1500	Recovered Methanol	4750
4	Soda Ash	60	Recovered Raney Nickel	100
5	Sodium Sulphite Solution	180	Water Layer + mL	1243
6	Ice	348	Sodium Nitration Solution	277
7	Water	400	Residue	250
8	Methanol	5000		
9	Raney Nickel	100		
10	Hydrogen Gas	72		
		9260		9260

16. 2 Chloro 4 Fluoro 5 Nitro Benzylchloride

Process Description:

- Charge 2-chloro 4-fluoro-1-(trichloromethyl) benzene in reactor. Start addition mixture off oleum&nitric acid. Maintain to complete reaction & check result. Dump mass in water and filter the mass.



- Charge wet cake in other reactor, add water & give wash of Na₂CO₃ & filter mass. Take methanol in other reactor. Charge w/c. heat mass to reflux & chill mass & separate, dry & pack material and M.L recycle into the next batch.

Chemical Reaction:

Mass Balance[Batch Size-1712kg]

Input	Quantity[Kg]	Output	Quantity[Kg]
2-choloro-4-fluoro-1-(trichloromethyl)benzene	1790	Product	1712
Oleum	3075	Spent Acid (sulfuric acid)	7000
Nitric Acid	1434	M.L.Recycle	2352
Sodium Carbonate	1566	Drying Loss	475
Methanol	2400	Waste Water	7328
Water	8602		
Total	18867	Total	18867

17.3-(bromomethyl)-2-chloro-4-(methyl sulfonyl) benzoic Acid

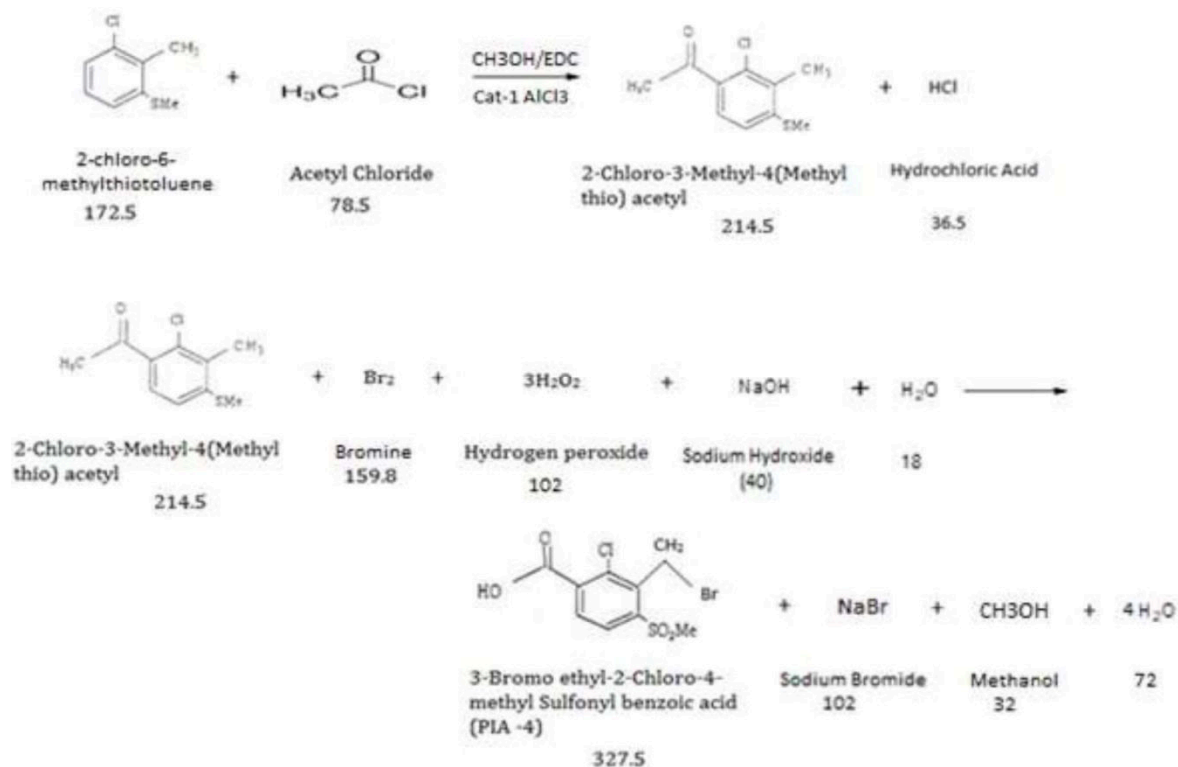
Process Description:

Charge 2-chloro-6-methylthiotoluene and Acetyl chloride in presence of methanol/EDC in to reactor. Maintain to complete reaction & check result

Charge wet cake in other reactor and add Bromine, Hydrogen peroxide and sodium hydroxide in presence of ODCB in to the Reactor.

On completion of reaction, reaction mass is separated, Dried and packed final product and M.L recycle into the next batch

Chemical Reaction:



Mass Balance: [Batch Size – 1000 Kg]

Input	Quantity[Kg]	Output	Quantity[Kg]
2-chloro-6-methylthiotoluene	535	Product	1000
Methanol/EDC	1200	M.L Recycle	2680
Acetyl Chloride	250	Sodium Bromide	320
Aluminium Chloride	300	Waste Water	640
Bromine	490		
Hydrogen Peroxide	315		
Sodium Hydroxide	50		
ODCB	1000		
Water	500		
Total	4640	Total	4640

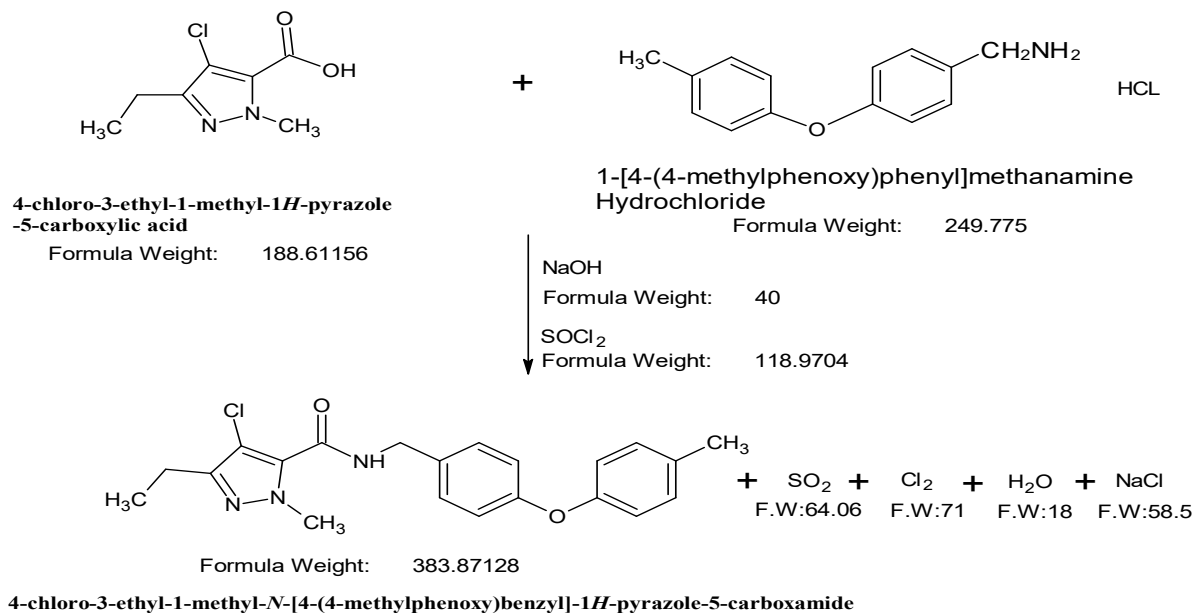
18. 4-chloro-3-ethyl-1-methyl-N-[4-(4-methylphenoxy)benzyl]-1H-pyrazole-5-carboxamide (PIT)

Manufacturing Process:

4-chloro-3-ethyl-1-methyl-1H-pyrazole-5-carboxylic acid reacts with thionyl chloride to get acid chloride of 4-chloro-3-ethyl-1-methyl-1H-pyrazole-5-carboxylic acid. Acid chloride further react with 1-[4-(4-methylphenoxy)phenyl]methanamine hydrochloride in presence of sodium hydroxide to get 4-chloro-3-ethyl-1-methyl-N-[4-(4-methylphenoxy)benzyl]-1H-pyrazole-5-carboxamide.

Chemical Reaction:

4-chloro-3-ethyl-1-methyl-N-[4-(4-methylphenoxy)benzyl]-1H-pyrazole-5-carboxamide

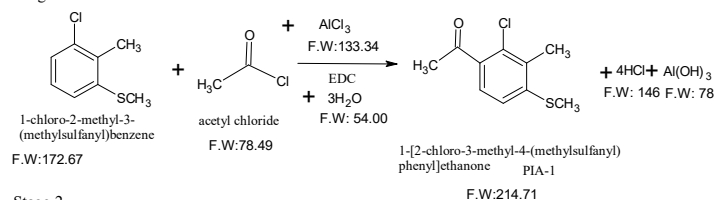


Mass Balance:

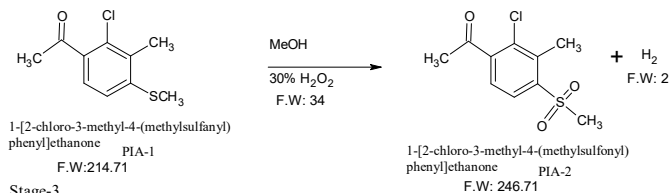
Sr. No	Raw Material	In Put in Kg		Out Put in Kg
1	4-chloro-3-ethyl-1-methyl-1H-pyrazole-5-carboxylic acid	375	Product	695
2	1-[4-(4-methylphenoxy)phenyl]methanamine hydrochloride	487	Recover Toluene	3334
3	Toluene	2918	Aq.Layer to MEE	5811
4	Thionyl Chloride	284	Recover Hexane	1943
5	DMF	7.0	Residue to MEE	190
6	NaoH (25% Solution)	840		
7	DM Water	4843		
8	Hexane	2045		
9	Hydrochloric Acid	174		
		11973		11973

19. 2-chloro-4-(methylsulfonyl)-3-[(tetrahydrofuran-2-ylmethoxy)methyl]benzoic acid.(PIA5)

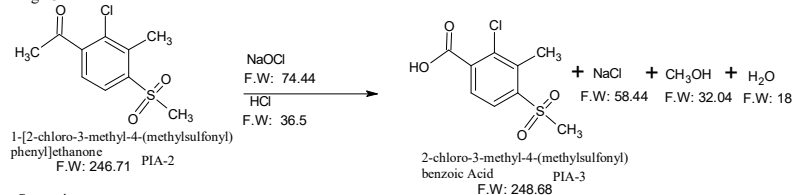
Stage-1



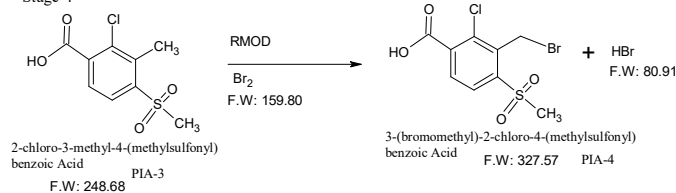
Stage-2



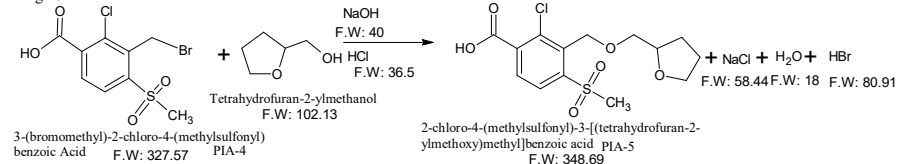
Stage-3



Stage-4



Stage-5



Brief Process

1-chloro-2-methyl-3-(methylsulfonyl)benzene react with acetyl chloride in presence of aluminium chloride to get 1-[2-chloro-3-methyl-4-(methylsulfonyl)phenyl]ethanone. 1-[2-chloro-3-methyl-4-(methylsulfonyl)phenyl]ethanone further react with hydrogen peroxide to get 1-[2-chloro-3-methyl-4-(methylsulfonyl) phenyl]ethanone. 1-[2-chloro-3-methyl-4-(methylsulfonyl) phenyl]ethanone further react with sodium hypochloride to get 2-chloro-3-methyl-4-(methylsulfonyl) benzoic Acid. 2-chloro-3-methyl-4-(methylsulfonyl) benzoic Acid further react with bromine to get 3-(bromomethyl)-2-chloro-4-(methylsulfonyl) benzoic Acid (PIA4). 3-(bromomethyl)-2-chloro-4-(methylsulfonyl) benzoic Acid (PIA4) react with tetrahydrofuran-2-yl methanol in presence of sodiumhydroxide to get 2-chloro-4-(methylsulfonyl)-3-[(tetrahydrofuran-2-ylmethoxy)methyl]benzoic acid.

Material balance :

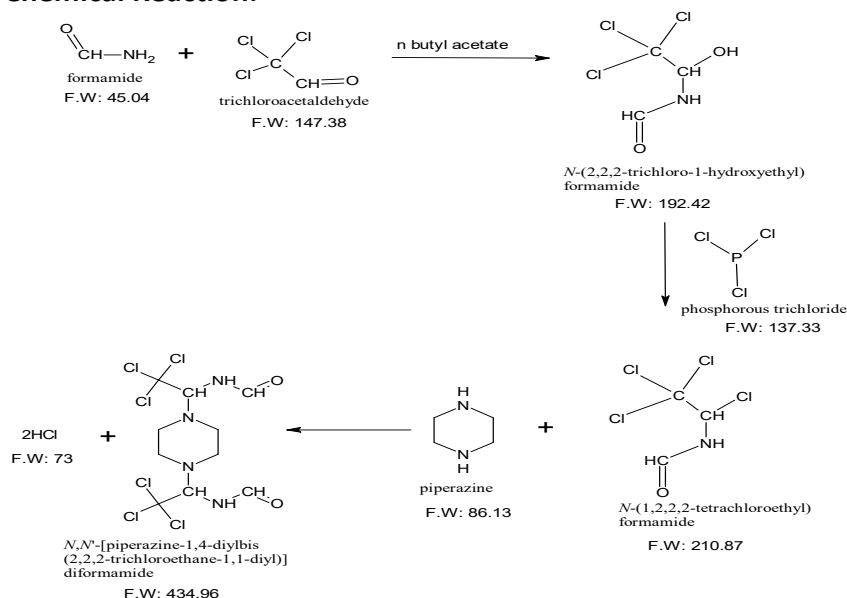
Sr.No	Raw Material	In Put in Kg		Out Put in Kg
1	1-chloro-2-methyl-3-(methylsulfonyl)benzene	247	Product	391
2	Di chloro ethane	1976	Recover Toluene	4084
3	Alluminium Chloride	247	Recover tetrahydrofuran-2-ylmethanol	386
4	Acetyl Chloride	131	Aq.Layer- (PAC/spent alcl ₃ sol)-sale to end user/to etp	2500
5	Water	6620	Aq.Layer 2 to MEE	1520
6	Hydrochloric Acid	946	Recover THF	402
7	Sodium Carbonate	74	Residue to Incinerator	950
8	Sodium Chloride	137	Distill Water to ETP	519
9	Methanol	1610	Recovered EDC	1877
10	Na ₂ WO ₄ ·2H ₂ O	15	Recovered Methanol	1530
11	31%Hydrogen Peroxide	368	Recovered Dichloro Benzene	2721
12	10%Sodium Hypochloride	2966	Aq.Layer after Methanol Recovery sale to end user	2645
13	Toluene	4299	Aq.Layer to sale to end user	3529
14	Dichloro Benzene	2865	HBr Solution	2000
15	Bromine	494	NaBr solution	1173
16	tetrahydrofuran-2-ylmethanol	653		
17	Sodium Hydroxide	155		
18	THF	424		
19	Caustic lye Solution for scrubber	2000		
		26227		26227

20. N,N'[piperazine-1,4-diyl[bis(2,2,2-trichloroethane-1,1-diyl)]diformamide (PITR)

Manufacturing Process:

Formaldehyde react with trichloroacetaldehyde in presence of n butyl acetate to get n-(2,2,2-trichloro-1-hydroxyethyl)formamide. n-(2,2,2-trichloro-1-hydroxyethyl)formamide. Further react with phosphorous trichloride to get n-(2,2,2,2-tetra chloroethyl)formamide. n-(2,2,2,2-tetra chloroethyl)formamide further react with piperazine to get N,N'[piperazine-1,4-diyl[bis(2,2,2-trichloroethane-1,1-diyl)]diformamide PITR.

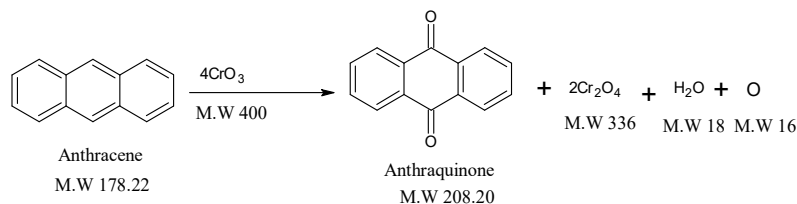
Chemical Reaction:



Mass Balance:

Sr. No	Raw Material	In Put in Kg		Out Put in Kg
1	Formaldehyde	220	Product	920
2	Trichloro acetaldehyde	742	Recovered Butyl Acetate	908
3	n-butyl acetate	952	Aq.Layer to MEE	1754
4	Phosphorous trichloride	242	Filtrate ML to MEE	2243
5	Piperazine	202	Residue to MEE	125
6	Water	2528		
7	30 % Sodium Hydroxide	1064		
		5950		5950

21. Anthraquinone

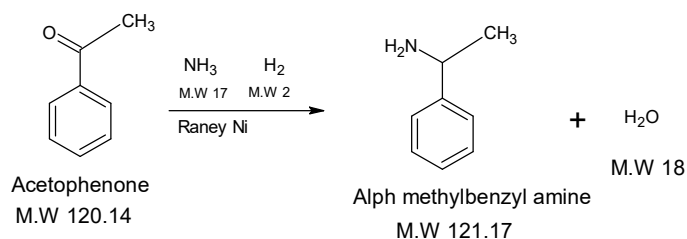


Brief Process

Oxidation of Anthracene in presence of chromium trioxide and acetic acid to get Anthraquinone.

Sr.No	Raw Material	In Put in Kg		Out Put in Kg
1	Anthracene	250	Product	275
2	Acetic Acid	1250	Rec Acetic acid	1188
3	Cromium Trioxide	561	Fitrade ML	1525
4	Water	1000	Residue	73
		3061		3061

22. AlphaMethyl Benzyl Amine:



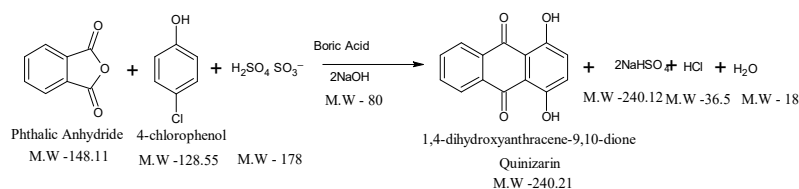
Brief Process

Acetophenone react with ammonia gas and hydrogen gas in presence of Raney nickel catalyst to get Alpha methyl benzyl amine.

Sr.No	Raw Material	In Put		Out Put
-------	--------------	--------	--	---------

		in Kg		in Kg
1	Acetophenone	500	Product	240
2	Ammonia Gas	70	Water	130
3	Hydrogen Gas	10	Recovered Raney Nickel	50
4	Raney Nickel	50	Recovered Isopropyl Alcohol	2200
5	Iso Propyl Alcohol	2000	Residue	10
		2630		2630

23. Quinizarin



Brief Process

4-chloro phenol react with phthalic anhydride I presence of Oluem (20%) and boric acid and neutralization with sodium hydroxide to get Quinizarin..

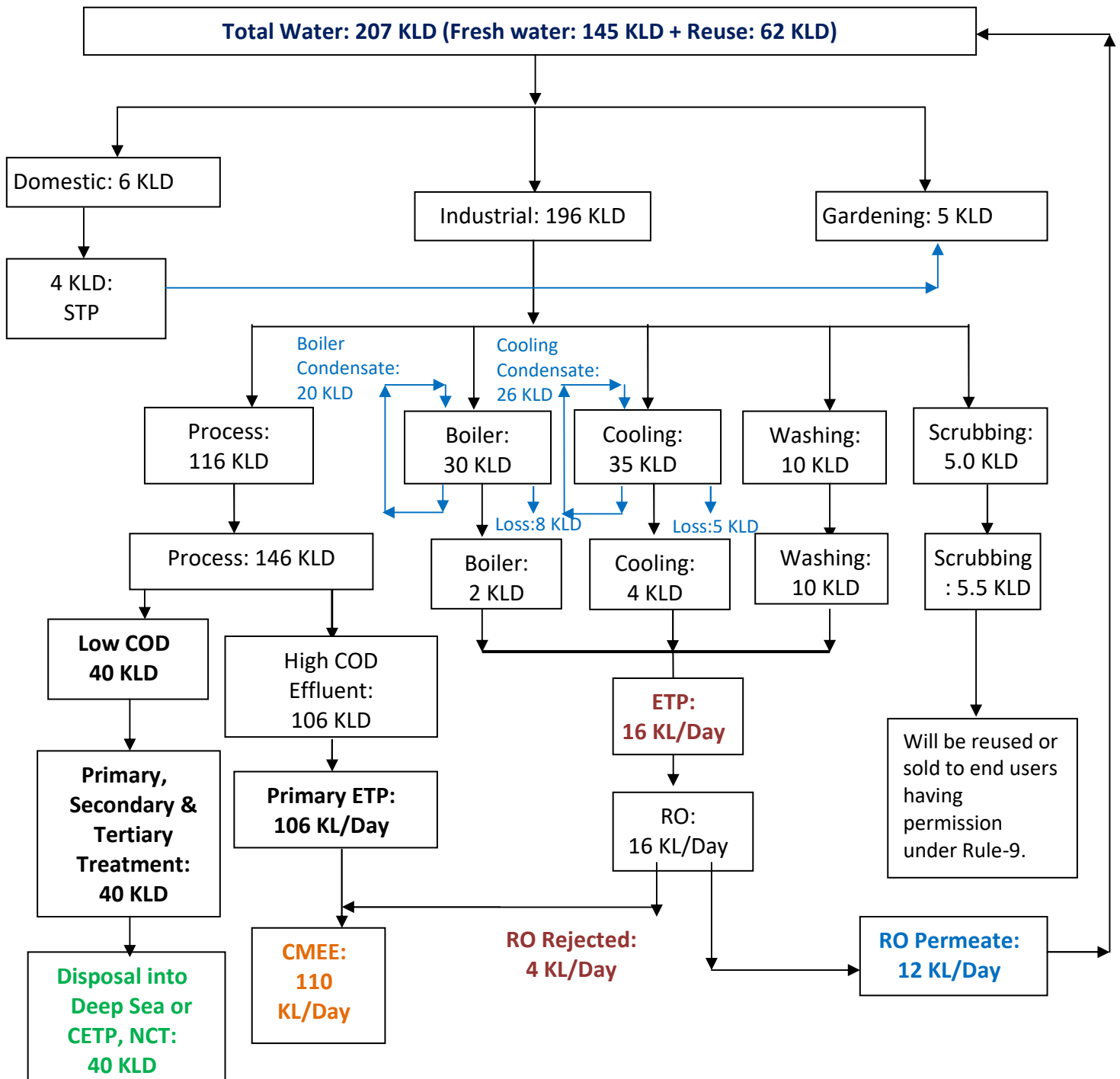
Sr.No	Raw Material	In Put in Kg		Out Put in Kg
1	4-Chloro Phenol	252	Product	400
2	Phthalic Anhydride	320	Main Filtrate mL	5075
3	20% Oluem	790	Wash mL	1250
4	Boric Acid	180	Drying Loss	197
5	Sodium Hydroxide	355		
6	Water	5000		
7	Emulsifier	25		
		6922		6922

Annexure -IV**Details of Water Consumption and Wastewater generation**

	Water Consumption (KLD)	Waste Water Generation(KLD)
(A) Domestic	6	4
(B) Gardening	5	--
(C) Industrial		
Process	116	146
Washing	10	10
Boiler	30	2
Cooling	35	4
Scrubber & Others	5	5.5
Total Industrial Wastewater	196	167.5
Total (A+B+C)	207	171.5

WATER BALANCE (PROPOSED):

Note: All figures are in KL/day



Annexure -V

Details of ETP:

M/s. Pragna Chem-Tech Pvt. Ltd. shall have an Effluent treatment plant consisting of primary & secondary treatment units. The details of upgradation ETP are as follows.

Stream I (Low COD Stream-1)- 40.0 KLD

First all non-toxic and biodegradable streams (low COD) of wastewater shall be collected in 2 nos. of Collection cum Equalisation tanks-1 (CETs-01). Pipe grid is provided at bottom of the CET-01 to keep all suspended solids in suspension and to provide proper mixing. 2 nos. of Air Blowers (1W+1 stand-by) shall supply air through to pipe grid.

Then after, equalized wastewater shall be pumped to Neutralization Tank-1 (NT-01) where the continuous addition and stirring of Alkaline solution is done to maintain neutral pH of wastewater from Alkaline Dosing Tanks (ADT-01-A/B) as per requirement with help of Alkaline Dosing Pumps. Then after, neutralized wastewater shall go to Flash Mixer (FM-01) by gravity. Coagulant shall be dosed from Coagulant Dosing Tanks (CDT-01-A/B) with help of Dosing Pumps. and Polyelectrolyte Dosing Tank (PEDT-01) respectively into FM-1 to carry out coagulation by using a Flash Mixer. Then after, coagulated wastewater shall be settled in Primary Settling Tank (PST-01). Clear supernatant from PST -01 shall be passed in Aeration Tank (AT-01)

Here, biodegradation of organic matter of the wastewater shall be carried out by bacteria (suspended growth) in the AT-01 and for that oxygen shall be supplied by 2 nos. of air blowers (B-02) through diffusers. Air blowers also keep MLSS in suspension.

Then after, wastewater shall go to Secondary Settling Tank (SST-01) from AT-01. Here, the suspended solids shall be settled. Sludge shall be removed from bottom of SST-1 and pumped to AT-1 to maintain MLSS and excess activated sludge shall be sent to Sludge Sump (SS-01). Nutrients will be added from NDTs to Aeration Tank for growth of Bacteria. Clear effluent is then shall be collected in Treated Water Sump (TWS-01) before sent to Deep Sea Discharge Via CETP Saykha.

Sludge settled in PST-01 and excess sludge from SST-01 shall be collected in Sludge Sumps (SSs-01) then sludge shall be pumped to Filter Press (FP-01) for sludge dewatering. Then, dewatered sludge shall be collected in Sludge Drying Beds (SDBs-01-A/C) for further drying. Then, dried sludge shall be stored in HWSA and then ultimate disposal to TSDF. Leachate from FP-01, SDBs-01-A/D shall be sent back to CET-01 for further treatment.

Stream III (RO Streams- 16.0 KLD)

Effluent from Utilities shall be collected in Collection tank (CT-01) then Thereafter, the wastewater shall be passed through Pressure Sand Filter (PSF-01) to remove left out TSS and Activated Carbon Filter (ACF-01) for final effluent polishing. After tertiary treatment of wastewater then effluent shall be collected in RO Feed Tank (ROFT-01). Then it will be passed through RO Unit and RO permeate water shall be reuse in plant and RO reject water will be mixed with High COD effluent in HCCT-01 for further treatment.

Stream II (High COD stream-II) – 106.0 KL & 4.0 KLD Reject.

All High COD & TDS streams of wastewater shall be collected in high COD Collection tank (HCCT-01). Mixer is provided in the tank to keep all suspended solids in suspension. Then effluent shall be pumped to Neutralization Tank-2 (NT-02) where the continuous addition and stirring of Alkaline solution is done to maintain neutral pH of wastewater from Alkaline Dosing Tanks (ADT-01-A/B) as per requirement with help of Alkaline Dosing Pumps. Then after, neutralized wastewater shall go to Flash Mixer (FM-01) by gravity. Coagulant shall be dosed from Coagulant Dosing Tanks (CDT-01-A/B) with help of Dosing Pumps. and Polyelectrolyte Dosing Tank (PEDT-01) respectively into FM-1 to carry out coagulation by using a Flash Mixer. Then after, coagulated wastewater shall be settled in Primary Settling Tank-2 (PST-02). Clear supernatant from PST -02 shall be passed in Aeration Tank (AT-02)

Here, biodegradation of organic matter of the wastewater shall be carried out by bacteria (suspended growth) in the AT-02 and for that oxygen shall be supplied by 2 nos. of air blowers (B-02) through diffusers. Air blowers also keep MLSS in suspension.

Then after, wastewater shall go to Secondary Settling Tank (SST-02) from AT-02. Here, the suspended solids shall be settled. Sludge shall be removed from bottom of SST-1 and pumped to AT-2 to maintain MLSS and excess activated sludge shall be sent to Sludge Sump (SS-01). Nutrients will be added from NDTs to Aeration Tank for growth of Bacteria.

Clear supernatant from SST -02 shall be Collected In Holding Tank (HT-01). before sent to common MEE (Ankleshwar) Facility for further treatment and disposal.

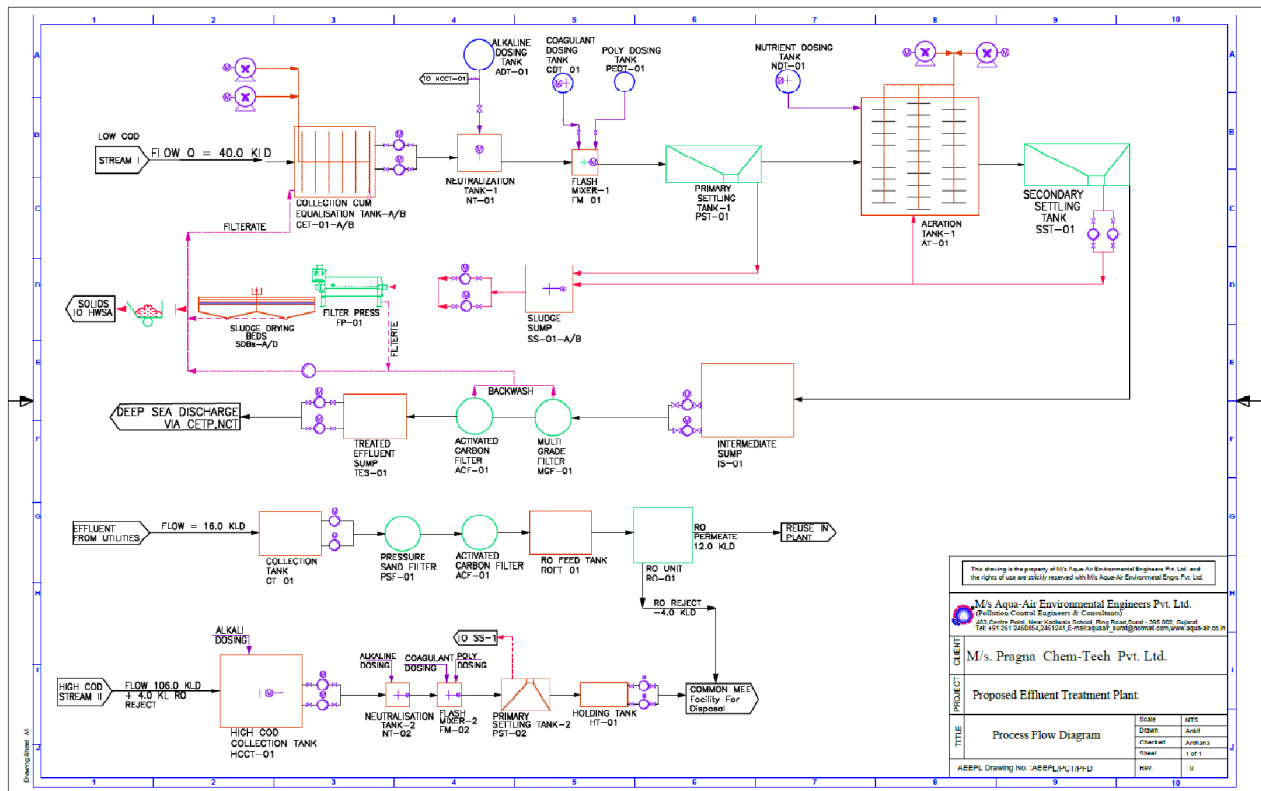
Sludge settled in SST-02 shall be sent to SS-01 for further dewatering.

SIZE OF TANKS

S.N.	Name of unit	Size (m x m x m)	No.	MOC/ Remark
Stream I (Low COD Stream) – 40.0 KLD				
1	Collection cum Equalization Tank (CET-01)-A/B	35 KL	1	RCC M25+A/A Bk. Lining.
2	Neutralization Tank (NT-01)	5 KL	1	RCC M25
3	Flash Mixer (FM-01)	5KL	1	RCC M25
4	Primary Settling Tank (PST-01)	25 KL	1	RCC M25
5	Aeration Tank (AT-01)	30 KL	1	RCC M25
6	Secondary Settling Tank (SST-01)	35 KL	1	RCC M25
7	Alkaline Dosing Tank (ADT-01)	1000 lit	1	HDPE
8	Coagulant Dosing Tank (CDT-01)	1000 lit	1	HDPE
9	Poly Dosing Tank (PDT-01)	500 lit	1	HDPE
10	Nutrient Dosing Tank (NDT-01)	500 lit	1	HDPE
11.	Intermediate Sump (IS-01).	20 KL	1	RCC M25
12	Activated Carbon Filter(ACF-01)	8 m3/hr	1	MSFRP
13	Multi Grade Filter(MGF -01)	8 m3/hr	1	MSFRP

14	Filter Press- (FP-01)	20 m3/D	1	MS+PP
15	Treated Effluent Sump (TES-01)	35KL	1	RCC M25
16	Sludge Drying Beds-(SDBs-01)	4.0 x3.0	1	Bk. With PCC bedding
Stream III (RO- Effluent – 16.0 KLD)				
1	Collection tank (CT-01)	10 KL	1	RCC M25
2	Pressure Sand Filter (PSF-01)	3 m3/hr	1	MSEP/FRP
3	Activated Carbon Filter (ACF-01)	3 m3/hr	1	MSEP/FRP
4	RO Feed Tank (ROFT-01)	13 KL	1	RCC M25
5	RO-01 Unit (RO-01)	15 KL	1	Polyamide/SS
Stream II (High COD stream)- II (106.0 KLD + 4.0 KLD) RO Reject.				
1	High COD Collection Tank (HCCT-01)	60 KL	1	RCC M25+A/A Bk. Lining
2	Neutralization Tank-3 (NT-03)	10 KL	1	RCC M25
3	Flash Mixer-2 (FM-02)	10 KL	1	RCC M25
4	Primary Settling Tank-2 (PST-02)	40 KL	1	RCC M25
5	Holding Tank (HT-01)	60 KLD	1	RCC M25

EFFLUENT TREATMENT PLANT FLOW DIAGRAM



CHARACTERISTICS OF WASTEWATER BEFORE & AFTER TREATMENT

EXPECTED CHARACTERISTICS OF EFFLUENT LOW COD STREAM-I:

Sr. No.	Parameter	Characteristics (mg/L)				NCT Norms
		Untreated	Primary Treated	Secondary treated	Tertiary Treatment	
1.	pH	3.5	7.5	7.5	7.5	6.5-8.5
2.	COD	8000	3500	1500	800	1000
3.	BOD ₃	1700	1500	600	200	300
4.	Ammonical Nitrogen	50	50	30	30	50

EXPECTED CHARACTERISTICS OF EFFLUENT HIGH COD STREAM-II:

Sr. No.	Category of Wastewater	Before Treatment	After Treatment
1	pH	3.5	7.5
2	COD (mg/L)	80000	22000
3	BOD ₃ (mg/L)	9000	7000
4	TDS (mg/L)	33000	36000

EXPECTED CHARACTERISTICS OF EFFLUENT UTILITY STREAM STREAM-III:

Sr. No	Parameters	Untreated Effluent	After Primary Treatment	RO Permeate	RO Rejected
1	pH	6.5-8.5	6.5-7.5	6.5-7.5	6.5-7.5
2	COD (mg/L)	405	75	30	1650
3	BOD ₃ (mg/L)	189	25	10	820
4	TDS (mg/L)	2160	250	100	9550

Annexure -VI
DETAILS OF HAZARDOUS WASTE GENERATION, STORAGE & DISPOSAL:

Sr. No.	Type of Waste	Source of Generation	Category	Proposed Quantity (Mt/Annum)	Disposal Method
1	ETP Sludge	ETP	Sch -I (35.3)	1359	Collection, storage, transportation and dispose common TSDF site.
2	Discarded Drums/Bags/ Liners	Storage & Handling of Raw Materials	Sch -I (33.1)	243	Collection, decontamination, storage, transportation, & sale to GPCB approved recyclers/vendors.
3	Used Oil	Equipment & Machineries	Sch -I (5.1)	0.2 KL	Collection, storage, transportation & sale to GPCB approved recyclers or use as lubricant within unit's premises.
4	Spent Catalyst	Process	Sch -I (26.3)	250	Collection, storage, transportation and sent to registered regenerator having rule-9 permission.
5	Organic Residue	Process	Sch -I (26.1)	1856	Collection, storage, transportation and sent to co-processing /Preprocessing/ CHWIF.
6	Distillation residue	Process	Sch -I (26.1)	990	
7	Off Specification Product	Process (Batch Failure)	Sch -I (26.4)	24	
8	HCL (30% Solution)	Process (From Product No. 1, 10) & Scrubber	Sch-II- Class- B (15)	684 & 720	Collection, storage, transportation and reuse within premises or sold to end user having permission under rule-9.
9	Spent Sulphuric Acid (60-70%)	Process (From Product No. 6, 8,& 18)	Sch -I (26.1)	3400	Collection, storage, transport and will be reuse in the production of m-Phenylene Diamine(1500 Mt/Annum) within premises or sold to end user having permission under rule-9
10	Spent Solvent	Process (From Product No. 2, 4, 9, 11, 15, 19, 21, 22)	Sch -I (26.6)	44714	Collection, storage, distill inhouse and reuse within plant premises or sold to end user having permission under rule-9

11	Spent Sodium Nitrite	Process (From Product No. 15) & Scrubber	Sch -I (26.1)	520 & 180	Collection, storage, transportation and sold to end user having permission under rule-9.
12	Spent Acetic Acid	Process (From Product No. 8)	Sch -I (26.1)	137	Collection, storage, transportation and sold to end user having permission under rule-9.
13	NaBr/HBr Solution	Process (From Product No. 7&19) & Scrubber	Sch -I (26.1)	3996 & 648	Collection, storage, transportation and sold to end user having permission under rule-9.
14	Sodium Sulfite(20% Solution)	Process (From Product No.15)& Scrubber	Sch -I (26.1)	210 & 252	Collection, storage, transportation and sold to end user having permission under rule-9.
15	NaHS Solution (40% Solution)	Process (From Product No. 6)	Sch -I (26.1)	1133	Collection, storage, transportation and sold to end user having permission under rule-9.
16	Inorganic salt	Process (From Product No.16)	Sch -I (26.1)	92	Collection, storage, transportation and dispose common TSDF site.
17	PAC (5-10 % Solution)	Process (From Product No. 19)	Sch-I/ (26.1)	1534	Collection, Storage, Transportation and sold to end user having permission under rule-9.
18	Waste from containment / clean-up of spills.	--	Sch-I/ 26.1	5	SEND for Disposal at co-processing/preprocessing/ CHWIF
19	Contaminated Cotton Waste, Containers, liners	--	Sch-I/ 26.1	10	Send for Disposal at CHWIF
	Waste insulation and lining material	--	Sch-I/ 26.1	30	Send for Disposal at CHWIF
	Used PPE	--	Sch-I/ 26.1	5	Send for Disposal at CHWIF
Non-Hazardous waste					
20	Fly Ash	Utility	--	216	Collection, storage, transportation and sell to brick manufacturer.

Annexure -VII

Details of flue gas & proposed pollution control equipment:

Flue gas emissions

Particulars	Stack height	Fuel used with Qty.	Air pollution control Measures	Parameter	Permissible Limit
Steam Boiler-1 (Capacity: 850 Kg/Hrs.)	20 m	Natural Gas= 1500 SCM/Day or LDO = 0.1 KL/hr	Adequate Stack Height	SPM SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
Steam Boiler-2 (Capacity: 3 TPH & 2 TPH)	30 m	Imported Coal= 6 MT/day or Briquette= 7 MT/day	Multicyclone Separator with bag filter+ Scrubber	SPM SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
Thermic fluid heater (Capacity: 10 lakh kcal/hr.)-2 Nos.	30 m	Imported Coal= 7 MT/day or Briquette = 10 MT/day	Multicyclone Separator with bag filter+ Scrubber	SPM SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
DG Set (500 KVA-4 Nos) in emergency case only	12 m	Diesel= 240 Liters/day	Adequate stack height	SPM SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm

Process Vents

Particulars	Stack height	Parameter	Air Pollution Control Measure
Process Vent -1 (Product No.:10)	11 Meters	HCl & Cl ₂	Two Stage Water Scrubber + One stage Alkali Scrubber
Process Vent-2 (Product No.:19)	11 meters	HBr	Two Stage Alkali Scrubber
Process Vent-3 (Product No. 6)	11 meters	NO _x	Two Stage Alkali scrubber
Process Vent-4 (Product No.:15)	11 meters	SO ₂	Two Stage Alkali scrubber
Process Vent-5 (Product No.:18)	11 meters	HCL SO ₂	Two Stage Water + Alkali Scrubber

Annexure –VIII

Storage Details of Hazardous Chemicals

Sr. No.	Name of the Hazardous Substance	Maximum Storage (MT)	No of Vessels	Vessel Capacity	Type of Storage & MOC	Possible type of Hazards
1	Sulphuric Acid	20	1	20 KL	Tank	Corrosive/Toxic
2	Hydrochloric acid	20	1	20 KL	Tank	Corrosive
3	Nitric acid	20	1	20 KL	Tank	Corrosive
4	Oleum	20	1 (+ 1 Spare)	10 KL	Tank	Corrosive
5	Caustic Lye (48%)	20	1	20	Tank	Toxic
6	Acetic Acid	15	75	200 Lit	Drum	Corrosive
7	NaHs	1	5	200 Lit	Drum	Corrosive/Toxic
8	Methanol	10	50	200 Lit	Drum	Flammable/Toxic
9	Toluene	2	10	200 Lit	Drum	Flammable/Toxic
10	Acetic anhydride	1	5	200 Lit	Drum	Flammable/Toxic
11	Nitro Benzene	2	10	200 Lit	Drum	Flammable/Toxic
12	FeCl ₃	0.2	1	200 Lit	Drum	Corrosive
13	Raney Nickel	0.2	1	200 Lit	Drum	Flammable/Toxic
14	Sodium Nitrite	1	5	200 Lit	Drum	Toxic
15	ODCB	4	20	200 Lit	Drum	Flammable/ Toxic
16	Hydrogen Peroxide	5	25	200 Lit	Drum	Toxic/Corrosive
17	Thionyl Chloride	3	15	200 Lit	Drum	Toxic/Corrosive
18	Iodine	1	20	50 KG	Bag	Toxic
19	Sodium Chloride	2	20	100 KG	Bag	--
20	Sodium Sulphate	2	20	100 KG	Bag	--
21	Antheaquinone	1	20	50 KG	Bag	Toxic
22	Sodium Sulphite	2	20	100 KG	Bag	Toxic
23	Ammonia Gas	0.6	10	60 KG	Cylinder	Corrosive/Flammable
24	Hydrogen Gas	0.72	12	60 KG	Cylinder	Explosive
25	Chlorine gas	1.8	2	0.9 MT	Cylinder	Toxic
26	Bromine	2.7	300	3 KG	Bottle	Toxic
27	Formaldehyde	3	15	200 Lit	Drum	Flammable/Corrosive
28	Haxane	1	10	200 Lit	Drum	Flammable/ Toxic
29	Sodium Hypochloride	2	20	200 Lit	Drum	Toxic
30	Nitro Benzene	1	10	200 Lit	Drum	Toxic
31	Anthraquinone	1	10	200 Lit	Drum	Flammable/ Toxic

Socio - Economic Impacts

1) Employment Opportunities

The manpower requirement for the proposed project is being expected to generate some permanent jobs and some secondary jobs for the operation and maintenance of plant. This will increase direct / indirect employment opportunities and ancillary business development to some extent for the local population.

The project is expected to create a beneficial impact on the local socio-economic environment.

2) Industries

Required raw materials and skilled and unskilled laborers will be utilized maximum from the local area. The increasing industrial activity will boost the commercial and economical status of the locality, to some extent.

3) Public Health

The company regularly examines, inspects health of its workers. There is use of hazardous chemicals for which all safety norms such as safety during handling, use of PPEs will be followed strictly. All measures will be taken to control process gas emissions so health of the people will not be adversely affected. Hence, there will not be any significant change in the status of sanitation and the community health of the area, as sufficient measures will be taken as proposed under the EMP.

4) Transportation and Communication

Since the proposed industry is having proper linkage for the transport and communication, the development of this project will not cause any additional impact.

In brief, as a result of the proposed project there will be no adverse impact on sanitation, communication and community health, as sufficient measures have been proposed to be taken under the EMP. The proposed scenario is not expected to make any significant change in the status of the socio - economic environment of this region.

Proposed Terms of Reference for EIA Studies

1. Project Description

- Justification of project.
- Promoters and their back ground
- Project site location along with site map of 5 km area and site details providing various industries, surface water bodies, forests etc.
- Project cost
- Project location and Plant layout.
- Existing infrastructure facilities
- Water source and utilization including proposed water balance.
- List of Products & their capacity
- Details of manufacturing process of proposed products
- List of hazardous chemicals
- Mass balance of each product
- Storage and Transportation of raw materials and products.

2. Description of the Environment and Baseline Data Collection

- Micrometeorological data for wind speed, direction, temperature, humidity and rainfall in 10 km area.
- Environmental status Vis a Vis air, water, noise, soil in 10 km area from the project site.
- Ground water quality at 8 locations within 10 km.
- Complete water balance

3. Socio Economic Data

- Socio-economic status, land use pattern and infrastructure facilities available in the study area were surveyed.

4. Impacts Identification And Mitigatory Measures

- Identification of impacting activities from the proposed project during construction and operational phase.
- Impact on air and mitigation measures including green belt
- Impact on water environment and mitigation measures
- Soil pollution source and mitigation measures
- Noise generation and control.
- Solid waste quantification and disposal.
- Control of fugitive emissions

5. Environmental Management Plan

- Details of pollution control measures
- Environment management team

- Proposed schedule for environmental monitoring including post project

6. Risk Assessment

- Objectives, Philosophy and methodology of risk assessment
- Details on storage facilities
- Process safety, transportation, fire fighting systems, safety features and emergency capabilities to be adopted.
- Identification of hazards
- Consequence analysis
- Recommendations on the basis of risk assessment done
- Disaster Management Plan.

7. Information for Control of Fugitive Emissions

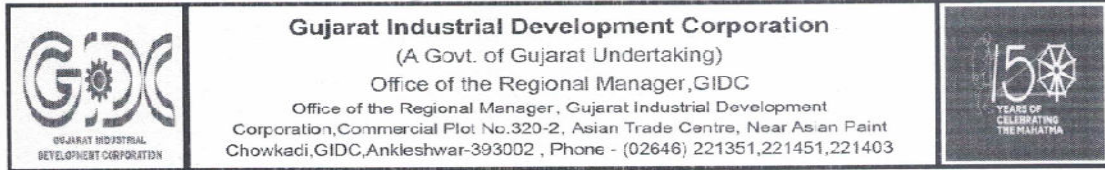
8. Post Project Monitoring Plan for Air, Water, Soil and Noise.

9. Information on Rain Water Harvesting

10. Green Belt Development plan

Annexure-XI

GIDC Plot Allotment Letter



No. GIDC/RM/ANK/TRF/PTO/ANK1/1770

Date :31/05/2021

BY RPAD:

To,
PRAGNA FINE CHEM PVT LTD
Plot No. 707-D,
Ankleshwar GIDC Estate,
Ankleshwar

Sub.: Intimation for change in Company's Name and Transfer of **Industrial Plot No. 707-D**
area **6144.00** Sq. mtr.

Dear Sir/Madam,

The Corporation has allotted / transferred on **06/02/1980**, having plot no.707-D area adm. of **6144.00** Sq.mtrs. to you in **Ankleshwar** Indl. Estate / Area of the Corporation. The License Agreement has been executed on dtd **15/02/1980**. You have applied to the Corporation for Change in Constitution / Company's Name & transfer in favour **PRAGNA CHEM TECH PRIVATE LIMITED** . for manufacturing of .

Your request for transfer can be considered provided the following conditions are fulfilled and the permission of transfer can be granted as provided in the Clause of Lease Deed executed with you as mentioned above.

[1] All outstanding dues, installments, revenue charges, water charges, drainage charges etc. shall be paid by you before the transfer is effected i.e. within a period of 30 days and produce "No Due Certificate" / Payment Receipt from Account Officer, GIDC, **Ankleshwar**.

(A) You shall have to make online payment of **Rs. (Nil)** towards applicable Transfer fee i.e. including **18.00%** GST, out of which transfer fees is **Rs. (Nil)** and **18.00%** GST amounting to **Rs. (Nil)**.

Signature valid

Digitally signed by DS GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION 424
Date: 2021.05.31 17:45:00
Reason: D S VASAVA , REGIONAL MANAGER
Location: Ankleshwar

This Document has been digitally signed, no physical signature is required.

Page 1 of 3

- [2] Since land is held by you on lease hold, you shall have to execute a Deed of Declaration for change in partnership firm duly with notarized on stamp paper of Rs.200/- the same and produce to this office before final transfer order.
- [3] Since the Service of Ankleshwar Industrial Estates maintained by the Association/Notified Area and G.I.D.C. you shall have to obtain "No Dues Certificate" from ^{Ankleshwar} Vapi Industries Association / Notified Area officer, GIDC, Ankleshwar from Notified Tax & DEE's Certificate for Water Charges.
- [4] The Transferor and Transferee shall have to execute Annexure 'A' & 'B' respectively duly got affixed Special Adhesive Stamp of Rs. 300/- for removal/ regularisation of the unauthorized construction in the form prescribed by the Corporation (specimen copy enclosed).
- [5] In the event of increase in Bank rate or in the minimum rate of lending by the financial institution or on account of increase in the over all borrowing rate of interest in the money markets, the rate of interest shall be suitably revised by the Corporation from time to time and Hirer/ Licensee/ Lessee shall be called upon to pay the interest on outstanding amount at such higher rate from the date of such revision and in such event, the amount of installment will be so refixed so as to absorb the higher rate of interest. Hirer/ Licensee/ Lessee shall be bound to pay such installments as may be refixed.
- [6] You shall have to regularize the unauthorized non-violative construction by approving plants from our Executive Engineer, GIDC, Ankleshwar, or Competent Authority concerned, within 30 days.
- [7] You shall have to give an undertaking for removal of violative unauthorized Construction on stamp paper Rs. 300/- as per enclosed proforma "A" & "B".
- [8] In case any financial institution or Bank is having any lien charge over the Plot, you will bring in its NDC.
- [9] Transferor & Transferee Party shall have to given an notarized undertaking of Rs.300/- Stamp Paper stating that, if in future, any legal / financial complications will arises, the whole responsibility for the same will rests with him, and the Corporation will not be held responsible for the instant.
- [10] This permission will not be in any case considered as permission for building by-laws of the Corporation. This transfer order will not be considered as valid for regularization of unauthorized construction. If any unauthorized construction exists on the allotted property it will not be considered as authorized one and it shall be the sole responsibility of the transferee to get such non-violative construction regularized or removed. Unauthorized removed accordingly to the building Regulations of the Corporation.

Page 2 of 3

If the above conditions laid down are not fulfilled within a period of One Month (30 days) from the date of received of this letter, this letter will automatically stand cancelled. It may also be noted that if the transfer policy and transfer fee of the Corporation has been revised during the given stipulated time limit and you failed to comply all or any of above terms and conditions within the stipulated time limit, revised transfer policy or transfer fee will automatically be applicable and binding to you. Your representation/ disputes in this regard shall not be entertained at all which may please be noted.

Thanking you,

Yours faithfully,

**Regional Manager,
G.I.D.C., Ankleshwar**

To,
**PRAGNA CHEM TECH PRIVATE LIMITED,
PLOT NO. 707/D, GIDC, ANKLESHWAR, 393002**

Copy to:

- (1) Executive Engineer, GIDC, Ankleshwar
- (2) Deputy Chief Account Officer, GIDC, Ankleshwar
- (3) Deputy Executive Engineer, GIDC, Ankleshwar
- (4) Chief Officer, Notified Area, GIDC, Ankleshwar
- (5) Computer Branch, DM/RM office, GIDC, Ankleshwar

Signature valid

Digitally signed by DS GUJARATI INDUSTRIAL
DEVELOPMENT CORPORATION 424
Date: 2021.05.31 17:45:00
Reason: D B VASAVA , REGIONAL MANAGER
Location: Ankleshwar


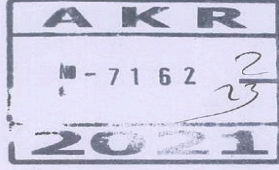
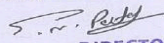
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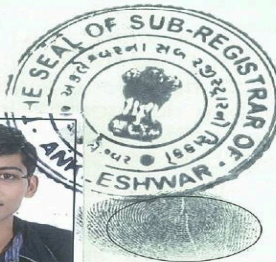
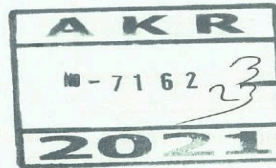
Page 3 of 3

Deeds of Rectification:

SCAN OK

e- Challan						
Login ID PDEN		2021098027747		BARCODE		Printed On 16/06/2021 13:00:52
Department		Superintendent of Stamps And Inspector General Of Registration		Payer Details		
Property Details		દસ્તાવેજ મુજબ		TAX ID (If Any)		
				PAN No. (If Applicable) NA		
				Full Name MS PRAGNA CHEM TECH PRIVATE LTD		
Office Name		S.R.O - Ankleshwar		Address		
Location		BHARUCH		ANKLESHWAR		
Year		2021-2022 One time				
Transaction No	Account Head Details		Amount (RS.)	Bank CIN	Date	Bank-Branch
20210616298016019	Registration Fee (0030-03-104-00) 900.00		900.00	57000013551003016062142863	16/06/2021	SBIEPAY
Total Amount :-			900.00			
Total Amount In Words :-			Rupees Nine Hundred Only			
Remarks (If Any)						
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> AKR NO - 7162 23 2021 </div> <div style="text-align: center;"> (પી. જે. રથવી) સબ રજીસ્ટ્રાર, અંકલેશ્વર. </div> </div> <div style="text-align: center; margin-top: 10px;"> PRAGNA CHEM TECH PRIVATE LIMITED DIRECTOR 17 JUN 2021 </div>						
SS&IGR-GUJARAT Note : (1) Stamp duty paid by the E-Challan is valid up to 6 months from the date of generation subject to provision of Sec52/c of the Gujarat stamp Act-1958. (2) The Registration fee paid by E-challan is valid up to 4 month from the date of execution of the instrument, u/s.23 of the Registration Act-1908. Disclaimer: This is a digitally system generated e-Challan, Which does not require signature.						

e- Challan						
Login ID PDEN 2021098027747		BARCODE			Printed On 16/06/2021 13:01:04	
Department Superintendent of Stamps And Inspector General Of Registration		Payer Details				
Property Details		TAX ID (If Any)		PAN No. (If Applicable)		
Office Name		Full Name		Address		
Location		MS PRAGNA CHEM TECH PRIVATE LTD		ANKLESHWAR		
Year		2021-2022 One time				
Transaction No	Account Head Details	Amount (RS.)	Bank CIN	Date	Bank-Branch	
20210616575055084	Stamp Duty (0030-02- 102-01) 300.00	300.00	57000013551003016062142929	16/06/2021	SBIEPAY	
Total Amount :-		300.00				
Total Amount In Words :-		Rupees Three Hundred Only				
Remarks (If Any)						
<div style="display: flex; justify-content: space-between; align-items: center;"> <div>  </div> <div style="text-align: center;">  </div> <div style="text-align: right;"> <p>(પી. જે. રથવી)</p> <p>સબ રજીસ્ટ્રાર, અંકલેશ્વર.</p> <p>PRAGNA CHEM TECH PRIVATE LIMITED</p> <p> DIRECTOR</p> <p>17 JUN 2021</p> </div> </div>						
SS&IGR-GUJARAT						
<p>Note : (1) Stamp duty paid by the E-Challan is valid up to 6 months from the date of generation subject to provision of Sec52/c of the Gujarat stamp Act-1958.</p> <p>(2) The Registration fee paid by E-challan is valid up to 4 month from the date of execution of the instrument, u/s.23 of the Registration Act-1908.</p> <p>Disclaimer: This is a digitally system generated e-Challan, Which does not require signature.</p>						




PRAGNA CHEM TECH PRIVATE LIMITED

DEED OF RECTIFICATION

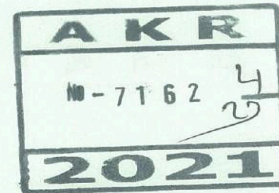
THIS DEED OF RECTIFICATION MADE at 17-JUNE on Two Thousand Twenty One between the GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION, a Corporation constituted under the Gujarat Industrial Development Act, 1962 (Guj.XXIII of 1962 and having its Head Office at Udyog Bhavan, Sector-11, "GH" Road Gandhinagar- 382 001(hereinafter referred to as " the Corporation " which expression shall, unless does not so admit, include its successors and assigns) of the first part and M/s. Pragna Chem Tech Pvt Ltd, Plot No.707-D GIDC, Ankleshwar 393 002 a firm registered under companies Act and having its registered office at Plot No.707-D, G.I.D.C. Ankleshwar -393 002 (hereinafter referred to as the " the Lessee " of the other part) which expression shall, unless the context does not so admit, include his/heirs, executors and legal representatives/its successors and assigns) of the other part.

PRAGNA CHEM TECH PRIVATE LIMITED

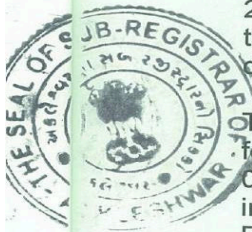

DIRECTOR

 17 JUN 2021

.... 2.



And whereas in the Ankleshwar Industrial Estate of the Corporation within the village limit of Piraman Taluka Ankleshwar District Bharuch Plot No.707-D area admeasuring 6144.00 sq.mtrs land has been allotted licensee vide allotment letter No.GIDC/ACE/BR/ALT/282 dated 06-02-1980. Agreement for Sale was executed on dated 22-02-1980. The lease deed has been executed between Gujarat Industrial Development Corporation and M/s.D R Synthetic Textile Pvt.Ltd and registered in the office of Sub Registrar Ankleshwar on dated 28-07-1980. The Deed of Assignment of lease hold rights has been executed between (D R Softech And Industries (in Liquidation) (Formerly known as D R Industries Limited) through The Official Liquidator , High Court of Gujarat And Gujarat State Financial Corporation and M/s. Pragna Fine Chem and registered in the office of Sub Registrar Ankleshwar on dated 20-07-2020 and then after the said plot transferred in the name of M/s.Pragna Fine Chem a partnership firm having five partners 1) Bhavikkumar M Patel 20.00% 2) Dipakkumar S Patel 22.50% 3) Jigneshkumar K Patel 22.50% 4) Maheshbhai J Patel 20.00% 5) Sitaram N Patel 15.00% by virtue of final transfer order No.GIDC/RM/ANK/TRF/FTO/ANK1/1139 dated 14-09-2020.



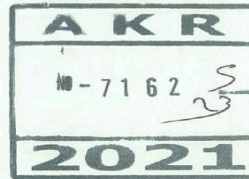
The Deed of Rectification was executed between declaration for change in company's name was executed on dated 05-11-2020 and then after change in constitution of industrial plot No.707-D was issued in favour of M/s. Pragna Fine Chem Pvt Ltd vide order No.GIDC/RM/ANK/TRF/FTO/ANK1/1216 dated 05-11-2020.

M/s. Pragna Fine Chem Pvt Ltd has applied to the corporation vide their application dated for change in Company's name of Plot No.707-D area admeasuring 6144.00 sq.mtrs in favour of M/s. Pragna Chem Tech Private Limited and Corporation has considered their request and issued the provisional change in Company's name of plot order vide No.GIDC/RM/ANK/TRF/PTO/ANK1/1770 dated 31-05-2021. This is a formal nature of change and corporation has not charged any transfer fee.

PRAGNA CHEM TECH PRIVATE LIMITED

S. R. R. R. R.
DIRECTOR

7 JUN 2021



.... 3.....

The said change in Company's name in favour of M/s. Pragna Chem Tech Pvt Ltd with lease hold rights are to be transferred as per provisional order No.GIDC/RM/ANK/TRF/PTO/ANK1/1770 dated 31-05-2021 by registering this Deed of Rectification with Sub-Registrar, Ankleshwar. Now therefore, it is hereby agreed by and between the parties hereto as follows:

1. M/s.Pragna Fine Chem as a lessee accepted all the terms and conditions of the said lease deed dated 28-07-1980 & The Deed of Assignment of lease hold rights executed on dated 20-07-2020 & Deed of Rectification on dated 05-11-2020 and issued provisional transfer of plot vide order No.GIDC/RM/ANK/TRF/PTO/ANK1/1770 dated 31-05-2021.
2. With effect from _____ the rights and liabilities under the said lease deed dated 28-07-1980 & The Deed of Assignment of lease hold rights executed on dated 20-07-2020 & Deed of Rectification on dated 05-11-2020 will be the rights and liabilities of M/s. Pragna Fine Chem Private Limited and shall be read and construed as if for the words M/s. Pragna Chem Tech Private Limited.
3. M/s. Pragna Fine Chem Private Limited m has already paid the revenue charges up to 3/2021 and henceforth such charges shall be paid by M/s. Pragna Chem Tech Private Limited during the every year.
4. Hence the lease hold rights are now transferred from M/s.Pragna Fine Chem Pvt Ltd Plot No.707-D area admeasuring 6144.00 sq.mtrs, GIDC, Ankleshwar to M/s. Pragna Chem Tech Private Limited by registering this document in the office of Sub Registrar Ankleshwar.

The party hereof has therefore, recorded the terms and conditions of this deed rectification in respect of the land shown in the schedule hereunder

PRAGNA CHEM TECH PRIVATE LIMITED

lp

S. R. P. P. P.
DIRECTOR

7 JUN 2021





.... 4....

SCHEDULE

(Description of plot)

ALL THAT piece of land known as plot No.707-D in Ankleshwar industrial Estate/Area consisting of Revenue Survey No.344/1 P, 345 P within the village limits Piraman Taluka : Ankleshwar District : Bharuch containing by area admeasurements 6144.00 sq.mtrs or thereabout and bounded as follows, that is to say :

On or towards the North by	16.00 meter road.
On or towards the South by	Plot No.707/C.
On or towards the East by	16.00 meter road.
On or towards the West by	Kotar Land.

IN WITNESS WHEREOF the Lessor has caused Shri M V Rathva Assistant an officer authorized by it to set his hand and affix the common seal hereto and the lessee has hereunto set his hands and seal on the day and year first above written.

SIGNED SEALED AND DELIVERED BY

By Shri M V Rathva Assistant

Officer of the

Gujarat Industrial Development Corporation

In the presence

Assistant
G.I.D.C., Ankleshwar

1) Shri. K. C. Parvat

2) L. R. Vamshi

SIGNED SEALED AND DELIVERED BY

M/s. Pragna Chem Tech Private Limited

Plot No.707-D GIDC Ankleshwar

In the presence of.....

PRAGNA CHEM TECH PRIVATE LIMITED

DIRECTOR

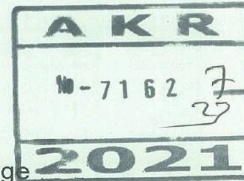
1) K.P. Patel

2) DS



17 JUN 2021

...5.....



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Place:

Date: 27/06/2021

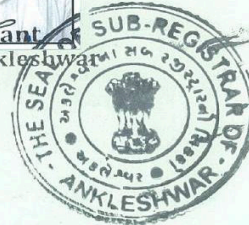
SIGNED SEALED AND DELIVERED BY

Shri M V Rathva
Assistant



Assistant
G.I.D.C., Ankleshwar

Assistant
G.I.D.C., Ankleshwar



SIGNED SEALED AND DELIVERED

By the Second Party

M/s. Pragna Chem Tech Private Limited

Plot No.707-D GIDC Ankleshwar

Mr. Sitaram N Patel

Authorized person



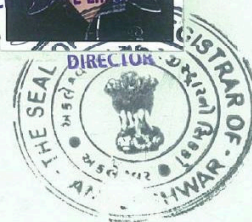
PRAGNA CHEM TECH PRIVATE LIMITED

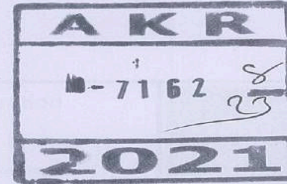
DIRECTOR

PRAGNA CHEM TECH PRIVATE LIMITED



17 JUN 2021





Gujarat Industrial Development Corporation
(A Govt. of Gujarat Undertaking)
Administrative office building,
Commercial Plot No.320/22 ATC Centre
Near Asian Paints chowkdi, GIDC, Ankleshwar
Dist. Bharuch. Phone: +91-02646-221351, 221451, 221403
Fax: +91-02646-251451 Email- rmank@gidcgujarat.org

No: GIDC/DM/ANK/ 315

Date: 25-08-2020
26 AUG 2020

To

The Sub Registrar
Ankleshwar

Sub: Authority letter.

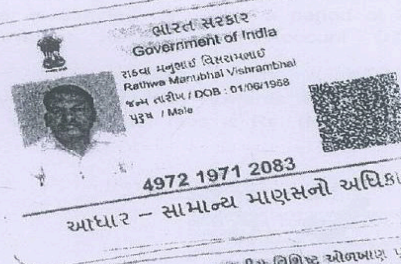
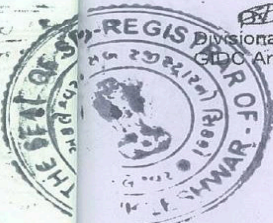
Dear Sir,

In context to the above, I hereby authorized Shri M V Rathva, Assistant working under this office to appear before on behalf of GIDC official in the office of Sub Registrar Ankleshwar to sign the lease deed, conveyance deed and rectification deed etc pertaining to GIDC industrial estate Ankleshwar and Panoli. This is for your information and further necessary action please.

Thanking you,

Yours faithfully

Divisional Manager
GIDC Ankleshwar



ભારતીય વિશિષ્ટ ઓળખાણ પ્રાધિકારક
Unique Identification Authority of India
સરનામું: 908/47, હરિદ્રા પ્રોજેક્ટ, વાલી
કોલોની ની બાજુ, કુ.આઇ.ડી.સી. અંકલેશ્વર.
મહેસાણા, ભુજા રોડ, 392001
Address: 908/47, Haridra project, Vadi
Am Colony, G.I.D.C., Ankleshwar
Ankleshwar, Bharuch, Gujarat, 392001

4972 1971 2083



Help Gujarat govt

www.uidai.gov.in



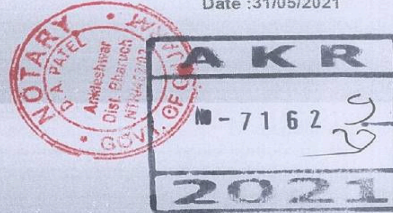
Gujarat Industrial Development Corporation
(A Govt. of Gujarat Undertaking)
Office of the Regional Manager, GIDC
Office of the Regional Manager, Gujarat Industrial Development
Corporation, Commercial Plot No.320-2, Asian Trade Centre, Near Asian Paint
Chowkadi, GIDC, Ankleshwar-393002, Phone - (02646) 221351, 221451, 221403



No. GIDC/RM/ANK/TRF/PTO/ANK1/1770

Date :31/05/2021

BY RPAD:



To,
PRAGNA FINE CHEM PVT LTD
Plot No. 707-D,
Ankleshwar GIDC Estate,
Ankleshwar

Sub.: Intimation for change in Company's Name and Transfer of Industrial Plot No. 707-D
area 6144.00 Sq. mtr.

Dear Sir/Madam,

The Corporation has allotted / transferred on 06/02/1980, having plot no.707-D area adm. of 6144.00 Sq.mtrs. to you in Ankleshwar Indl. Estate / Area of the Corporation. The License Agreement has been executed on dtd 15/02/1980. You have applied to the Corporation for Change in Constitution / Company's Name & transfer in favour PRAGNA CHEM TECH PRIVATE LIMITED for manufacturing of.

Your request for transfer can be considered provided the following conditions are fulfilled and the permission of transfer can be granted as provided in the Clause of Lease Deed executed with you as mentioned above.

- [1] All outstanding dues, installments, revenue charges, water charges, drainage charges etc. shall be paid by you before the transfer is effected i.e. within a period of 30 days and produce "No Due Certificate" / Payment Receipt from Account Officer, GIDC, Ankleshwar.

You shall have to make online payment of Rs. (Nil) towards applicable Transfer fee i.e. including 18.00% GST, out of which transfer fees is Rs. (Nil) and 18.00% GST amounting to Rs. (Nil).

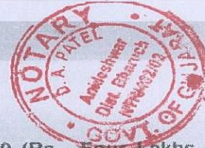


Signature valid

Digitally signed by D N VASAVA, O GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION, CN 424
Date: 2021.05.31 17:45
Reason: D N VASAVA, O GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION, CN 424
Location: Ankleshwar

This Document has been digitally signed, no physical signature is required.

Page 1 of 3



(B) You shall have to make online payment of Rs. 450947.00 (Rs. Four Lakhs Fifty Thousand Nine Hundred Forty-Seven Only) towards applicable N.U. Penalty i.e. including 18.00% GST, out of which N.U. Penalty is Rs. 382,157.00 calculated @2.00% and 18.00% GST amounting to Rs. 68,790.00.

[2] Since land is hold by you on lease hold, you shall have to execute a Deed of Declaration for change in partnership firm duly with notarized on stamp paper of Rs.200/- the same and produce to this office before final transfer order.

[3] Since the Service of Ankleishwar Industrial Estates maintained by the Association/Notified Area and G.I.D.C. you shall have to obtain "No Dues Certificate" from Ankleishwar Industries Association / Notified Area officer, GIDC, Ankleishwar from Notified Tax & DEE's Certificate for Water Charges.

[4] The Transferor and Transferee shall have to execute Annexure 'A' & 'B' respectively duly got affixed Special Adhesive Stamp of Rs. 300/- for removal/ regularisation of the unauthorized construction in the form prescribed by the Corporation (specimen copy enclosed).

[5] In the event of increase in Bank rate or in the minimum rate of lending by the financial institution or on account of increase in the over all borrowing rate of interest in the money markets, the rate of interest shall be suitably revised by the Corporation from time to time and Hirer/ Licensee/ Lessee shall be called upon to pay the interest on outstanding amount at such higher rate from the date of such revision and in such event, the amount of installment will be so refixed so as to absorb the higher rate of interest. Hirer/ Licensee/ Lessee shall be bound to pay such installments as may be refixed.

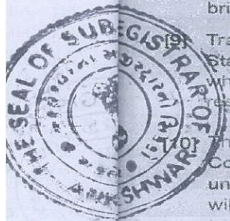
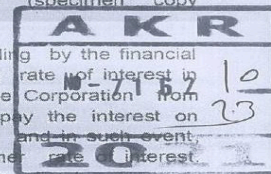
[6] You shall have to regularize the unauthorized non-violative construction by approving plants from our Executive Engineer, GIDC, Ankleishwar, or Competent Authority concerned, within 30 days.

[7] You shall have to give an undertaking for removal of violative unauthorized Construction on stamp paper Rs. 300/- as per enclosed proforma "A" & "B".

[8] In case any financial institution or Bank is having any lien charge over the Plot, you will bring in its NDC.

[9] Transferor & Transferee Party shall have to given an notarized undertaking of Rs.300/- Stamp Paper stating that, if in future, any legal / financial complications will arises, the whole responsibility for the same will rests with him, and the Corporation will not be held responsible for the instant.

[10] This permission will not be in any case considered as permission for building by-laws of the Corporation. This transfer order will not be considered as valid for regularization of unauthorized construction. If any unauthorized construction exists on the allotted property it will not be considered as authorized one and it shall be the sole responsibility of the transferee to get such non-violative construction regularized or removed accordingly to the building Regulations of the Corporation.



This Document has been digitally signed, no physical signature is required.

Page 2 of 3

If the above conditions laid down are not fulfilled within a period of One Month (30 days) from the date of received of this letter, this letter will automatically stand cancelled. It may also be noted that if the transfer policy and transfer fee of the Corporation has been revised during the given stipulated time limit and you failed to comply all or any of above terms and conditions within the stipulated time limit, revised transfer policy or transfer fee will automatically be applicable and binding to you. Your representation/ disputes in this regard shall not be entertained at all which may please be noted.

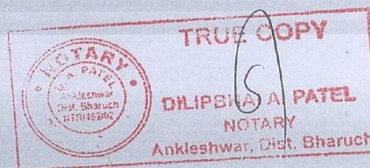
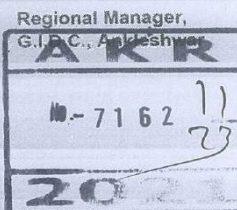
Thanking you,

Yours faithfully,

To,
PRAGNA CHEM TECH PRIVATE LIMITED,
PLOT NO. 707/D, GIDC, ANKLESHWAR, 393002

Copy to:

- (1) Executive Engineer, GIDC, Ankleshwar
- (2) Deputy Chief Account Officer, GIDC, Ankleshwar
- (3) Deputy Executive Engineer, GIDC, Ankleshwar
- (4) Chief Officer, Notified Area, GIDC, Ankleshwar
- (5) Computer Branch, DM/RM office, GIDC, Ankleshwar



Signature valid

Digitally signed by D.B. VASAVA, INDUSTRIAL
DEVELOPMENT CORPORATION, CN=424
Date: 2023.03.31 17:47:40
Reason: D.B. VASAVA, REGIONAL MANAGER
Location: Ankleshwar

This Document has been digitally signed, no physical signature is required.

Page 3 of 3

आयकर विभाग
INCOME TAX DEPARTMENT

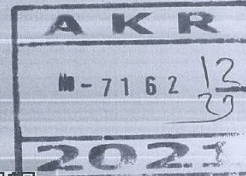


भारत सरकार
GOVT. OF INDIA

ई-स्थायी लेखा संख्या कार्ड
e - Permanent Account Number (e-PAN) Card
AALCP9851G

Name / PRAGNA CHEM TECH PRIVATE LIMITED

Date of Incorporation / Formation / 10/05/2021



Permanent Account Number (PAN) facilitate Income Tax Department linking of various documents, including payment of taxes, assessment, tax demand tax arrears, matching of information and easy maintenance & retrieval of electronic information etc. relating to a taxpayer.

स्थायी लेखा संख्या (पैन) एक करदाता से संबंधित विभिन्न दस्तावेजों को जोड़ने में आयकर विभाग को सहायक होता है, जिसमें करों के भुगतान, आकलन, कर मांग, टैक्स बकाया, सूचना के मिलान और इलेक्ट्रॉनिक जानकारी का आसानी से रखरखाव व बहाली आदि भी शामिल हैं।

Quoting of PAN is now mandatory for several transactions specified under Income Tax Act, 1961 (Refer Rule 114B of Income Tax Rules, 1962)

आयकर अधिनियम, 1961 के तहत निर्दिष्ट कई लेनदेन के लिए स्थायी लेखा संख्या (पैन) का उल्लेख अब अनिवार्य है (आयकर नियम, 1962 के नियम 114B, का संदर्भ लें)

Possessing or using more than one PAN is against the law & may attract penalty of upto Rs. 10,000.

एक से अधिक स्थायी लेखा संख्या (पैन) का रखना या उपयोग करना, कानून के विरुद्ध है और इसके लिए 10,000 रुपये तक का दंड लगाया जा सकता है।

The PAN Card enclosed contains Enhanced QR Code which is readable by a specific Android Mobile App. Keyword to search this specific Mobile App on Google Play Store is: "Enhanced QR Code Reader for PAN Card."

संलग्न पैन कार्ड में एनहांस्ड क्यूआर कोड शामिल है जो एक विशिष्ट एंड्रॉइड मोबाइल ऐप द्वारा पढ़नीय है। Google Play Store पर इस विशिष्ट मोबाइल ऐप को खोजने के लिए कीवर्ड "Enhanced QR Code Reader for PAN Card" है।

Cut



आयकर विभाग
INCOME TAX DEPARTMENT
स्थायी लेखा संख्या कार्ड
Permanent Account Number Card
AALCP9851G



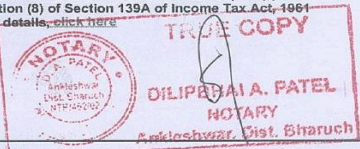
Name / PRAGNA CHEM TECH PRIVATE LIMITED
Date of Incorporation / Formation / 10/05/2021



इस कार्ड के खोने/पाने पर कृपया सूचित करें/बोझें:
आयकर विभाग, पुणे, 5वीं मंजिल, मंत्रि स्तरिंग,
प्लॉट नं. 441, सर्वे नं. 997/8,
मॉडल कॉलोनी, नरार, डी.डी. बंगला चौक, पुणे - 411 016.

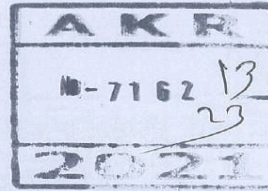
If this card is lost / someone's lost card is found, please inform / return to:
Income Tax PAN Services Unit, NSDL
5th Floor, Mantri Sterling,
Plot No. 441, Survey No. 997/8,
Model Colony, Narar, D.D. Bungalow Chowk,
Pune - 411 016.
Tel: 91-20-2721 8080, Fax: 91-20-2721 8081
e-mail: unit@nsdl.co.in

Electronically issued and Digitally signed ePAN is a valid mode of issue of Permanent Account Number (PAN) post amendments in clause (c) in the Explanation occurring after sub-section (8) of Section 139A of Income Tax Act, 1961 and sub-rule (6) of Rule 114 of the Income Tax Rules, 1962. For more details, click [here](#)





GOVERNMENT OF INDIA
MINISTRY OF CORPORATE AFFAIRS
Central Registration Centre



Certificate of Incorporation

rsuant to sub-section (2) of section 7 and sub-section (1) of section 8 of the Companies Act, 2013 (18 of 2013) and rule 18 of the Companies (Incorporation) Rules, 2014]

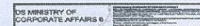
reby certify that PRAGNA CHEM TECH PRIVATE LIMITED is incorporated on this Tenth day of May Two and twenty-one under the Companies Act, 2013 (18 of 2013) and that the company is limited by shares.

Corporate Identity Number of the company is U24299GJ2021PTC122474.

Permanent Account Number (PAN) of the company is AALCP9851G *

Tax Deduction and Collection Account Number (TAN) of the company is BRDP05891E *

en under my hand at Manesar this Tenth day of May Two thousand twenty-one .



Digital Signature Certificate
KAMAL HARJANI

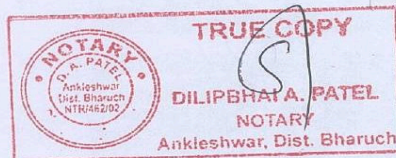
For and on behalf of the Jurisdictional Registrar of Companies
Registrar of Companies
Central Registration Centre

claimer: This certificate only evidences incorporation of the company on the basis of documents and declarations the applicant(s). This certificate is neither a license nor permission to conduct business or solicit deposits or funds in public. Permission of sector regulator is necessary wherever required. Registration status and other details of the company can be verified on www.mca.gov.in

iling Address as per record available in Registrar of Companies office:

PRAGNA CHEM TECH PRIVATE LIMITED
D-6/1, GIDC, GIDC, ANKLESHWAR, ANKLESHWAR, Bharuch,
Gujarat, India, 393002

s issued by the Income Tax Department



PRAGNA CHEM TECH PRIVATE LIMITED

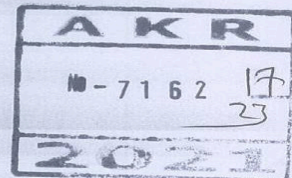
PLOT. NO. 707/D, G.I.D.C. ANKLESHWAR – 393 002.

CERTIFIED TRUE COPY OF THE RESOLUTION PASSED BY THE BOARD OF DIRECTORS OF M/S. PRAGNA CHEM TECH PRIVATE LIMITED THEIR MEETING HELD ON DT. 11/05/2021 AT THEIR REGISTERED OFFICE ADDRESS AT PLOT NO. 707/D, GIDC, ANKLESHWAR, DIST. BHARUCH.

Resolved that with a view of Name Change Application of Pragna Fine chem Private Limited to Pragna Chem Tech Private Limited In GIDC of at M/s. PRAGNA CHEM TECH PRIVATE LIMITED PLOT NO. 707/D, GIDC, ANKLESHWAR, Tal. Ankleshwar, Dist. Bharuch, Gujarat, 393002.

The Board is hereby authorized Mr. Sitaram N. Patel to apply and approach the concerned authorities to sign and execute necessary form papers deed and Agreement Documents and to do and the matter and things as are requisite and expedient for the purpose for and on behalf of the company.

//Certified to be true//



FOR M/S. PRAGNA CHEM TECH PRIVATE LIMITED

1. MAHESHKUMAR I. PATEL (DIRECTOR)

(DIN:-00632466)

1. SITARAM N. PATEL (DIRECTOR)

(DIN:-07011098)

2. SITARAM N. PATEL (DIRECTOR)

(DIN:-07011098)

3. BHAVIKKUMAR M. PATEL (DIRECTOR)

(DIN:-07011085)



E-mail :- pragnafinechem@gmail.com , Contact No. 09723812606 , CIN:- U24299GJ2021PTC122474

(W) 17/06/2021 12:58 PM

AKR		
7162	20	23
2021		

Serial No. 7162 Presented of the office of the Sub-Registrar of S.R.O - Ankleshvar Between the hour of 12 To 13 on Date 17/06/2021

Receipt No :- 2021098011954

Received Fees as following

Rs.

Registration

100.00

Side Copy Fee (40)

800.00

Other Fees

0.00

TOTAL :-

900.00

20210616298016019



S. P. Patel

M/s. Pragna Chem Tech Pvt. Ltd. Mr. Sitaram N Patel
Authorized Person

P J Rathvi
P J Rathvi
Sub Registrar
S.R.O - Ankleshvar

P J Rathvi
P J Rathvi
Sub Registrar
S.R.O - Ankleshvar

Sl.no	Party Name and Address	Age	Photograph	Thumb Impression	Signature
1	M/s. Pragna Chem Tech Pvt. Ltd. Mr. Sitaram N Patel Authorized Person Plot No. 707-D, GIDC, Ankleshwar	32			<i>S. P. Patel</i>

Executing Party
admits execution

S. P. Patel

(W) 17/06/2021 12:59 PM

AKR		
7162	21	27
2021		

- 1 Kalpeshkumar Parsottambhai Patel
B-101,Vidhi Co Op Ha So.500 Quarters Road
GIDC,Ankleshwar
- 2 Dhavalbhai Shitalchandra Trivedi
64,Shreyansnath Prabhu Soc.Near Vyas Vadi Naroda
Ahmedabad



State that they personally known above named
executant and Indetifies him/them.

1. K.P. Patel
2. [Signature]

Date: 17 Month: June -2021

[Signature]
P J Rathvi
Sub Registrar
S.R.O - Ankleshvar

Received Copies of Certified Evidence of Seller, Buyer and
Identifiers of Document
Date: 17/06/2021



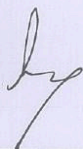
[Signature]
P J Rathvi
Sub Registrar
S.R.O - Ankleshvar

આ લેખ સાથે એક બીજીપત્ર અનુ. નં.7163,થી નોંધવા રજુ
થયેલ છે.

[Signature]
P J Rathvi
Sub-Registrar
S.R.O - Ankleshvar

AKR		
7162	22	33
2021		

(W) 17/06/2021 5:18 PM

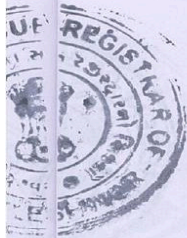
Sl.no	Party Name and Address	Age	Photograph	Thumb Impression	Signature
Executing					
1	Shri M V Rathva Assistant Officer GIDC, Ankleshwar GIDC, Ankleshwar	50			

Executing Party
admits execution

and he is personally
known to u/s. S. R.

Date:-
Sub Registrar, Ankleshwar,

7 JUN 2021

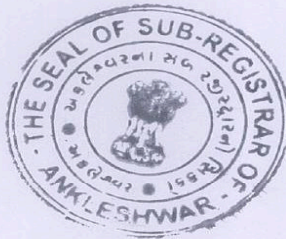


(W) 17/06/2021 5:27 PM

AKR		
7162	23	23
2021		

1	Book No.	7162	Registered No.
Date: 17-06-2021			


P J Rathvi
Sub Registrar
S.R.O - Ankleshwar



અનુક્રમશિક્ષા નંબર - ૨

સબ-રજીસ્ટ્રાર ડ્રેરી

Sub-Registrar Office(SRO) Ankleshwar

ગામનું નામ	દસ્તાવેજનો પ્રકાર અને અવેજ (ભાડા પટાના ઉત્તરણો આપત પટે આપનાર અથવા પટે રાખનાર આપે છે તે જણાવવું)	સર્વે નંબર પેટા વિભાગ નંબર અને ઘર નંબર (જો કંઈ પણ હોય તો)	કેસદાન	આકાર અથવા જમીન આપવામાં આવે ત્યારે તે	GIDC, Ankleshwar	દસ્તાવેજ કોઈ બેનાર પાસેથી આવે અથવા દિવાની કેટલાક દુકાનવાળા અથવા અન્ય સંસ્થામાં ગઈ હોય તે	સહીની તારીખ	અનુક્રમ, વોલ્યુમ અને પૃષ્ઠ નંબર	શેરો
PIRAMAN..	સુધારો	રે. સર્વે નં. ૩૪૪/૧ પી. ૩૪૫ પી. પ્લોટ નં. ૩૦૭-ડી	કેસદાન નં. ૬૧૪૪.૦૦ ચો.મી.			M/s. Pragna Chem Tech Pvt. Ltd.	17/06/2021	7162	બીજામત અનુ. નં. ૭૧૬૩
	રૂ. ૦.૦૦						17/06/2021		

મુકાબલ કરનાર

ખરી નફલ



સબ-રજીસ્ટ્રાર

Sub-Registrar Office(SRO) Ankleshwar

પી.ડી. પરમાર ની તારીખ 19/06/2021 ના રોજની

અરજી નંબર : 4340

તારીખ : 19-06-2021

સબ-રજીસ્ટ્રાર

Sub-Registrar Office(SRO) Ankleshwar



નોંધ: કોપાયર ધિન્દમાં કોઈ પણ રીતે કરેલ સુધારો માન્ય ગણાશે નહીં.

ધિન્દ તારીખ : 19/06/2021

રજીસ્ટ્રેશન પહોંચ

પહોંચ નંબર ૨૦૨૧૦૮૮૦૧૧૮૧૪ દસ્તાવેજ નંબર ૭૧૬૨ દસ્તાવેજ વર્ષ ૨૦૨૧
તારીખ ૧૭ માહે જૂન સને ૨૦૨૧

દસ્તાવેજનો પ્રકાર: સુધારો

અવેજ ૦.૦૦

રજુ કરનારનું નામ M/s.Pragna Chem Tech Pvt.Ltd.Mr.Sitaram N Patel Authorized Person

નીચે પ્રમાણે શ્રી પહોંચી

રૂ. પૈસા

રજીસ્ટ્રેશન ફી.....

૧૦૦.૦૦

નકલ કરવા ની ફી સાઈડ / ફોલીયો.....

૮૦૦.૦૦

શેરોની નકલ કરવા માટે ફી.....

ટપાલ ખર્ચ.....

નકલો અથવા યાદીઓ (કલમ ૬૪ થી ૬૭).....

શોધ અગર તપાસણી.....

દંડ કલમ-૨૫.....

કલમ-૩૪ (કલમ-૫૭).....

નકલ ફી બેટીયો.....

ઈન્ડેક્સ-૨ ફી.....



કુલ એકદરે રૂ. ૮૦૦.૦૦

અંકે રૂપીયા નવ સો પુરા

દસ્તાવેજ

ના દિવસે તૈયાર થશે અને

તે રજીસ્ટર ઉપાલથી મોકલવામાં

આવશે.

નકલ

કચેરીમાં આપવામાં

દસ્તાવેજ રજીસ્ટર ટપાલથી ગીચેના સરનામે મોકલશે.

Plot No.707-D,GIDC, Ankleshwar

અગર

ને આપશે

રજુ કરનારની સહી

P. J. Rathvi
સબ રજીસ્ટ્રાર
અંકલેશ્વર

અંકે રૂ. : 900.00

20210616298016019

સબ રજીસ્ટ્રાર, અંકલેશ્વર

Copy of CTE



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 010

Phone : (079) 23226295

Fax : (079) 23232156

Website : www.gpcb.gov.in

By R.P.A.D.

Consent to Establish (NOC)

CTE NO: 112140

NO: GPCB/ANK/CCA-2198/ID-80750/ 587606

DT: 05/04/2021

To
✓ M/s. PRAGNA FINE CHEM PVT. LTD.,
PLOT NO:707/D,
GIDC ESTATE ANKLESHWAR,
DIST-BHARUCH.

SUB: Consent to Establish (NOC) under Section 25 of Water Act 1974 and Section 21 of Air Act 1981.

REF: Your NOC application No. 189366 dated **09/02/2021**.

Sir,

Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act-1974, the Air (Prevention and Control of Pollution) Act-1981 and the Environment (Protection) Act-1986 and without reducing your responsibilities under the said Acts in anyway, this is to inform you that this Board grants **Consent to Establish (NOC)** for setting up of an industrial plant/ activities at **PLOT NO:707/D, GIDC ESTATE ANKLESHWAR, DIST: BHARUCH** to manufacture the following products.

The Validity of this order will be up to 08/02/2028.

1. The list of proposed products to be manufactured shall be as follows:

Sr. No.	Products	Quantity (MT/Month)
1	Drying of various chemicals and Fine Chemicals (Job Work & Sell)	1000
2	"Formulation, Packing, Repacking various types of Pesticide (i.e. Insecticides Herbicides, fungicides weedicides etc.) and fine chemicals (Liquid, Powder, Granules)" (Job Work & Sell)	500

2. SPECIFIC CONDITIONS:

- Unit shall maintain ZLD.
- Unit shall use fresh raw material only.
- Unit shall not use banned pesticide.
- Unit shall not carryout any activity / production which attracts EIA Notification dated 14/09/2006 and amended thereafter without obtaining Environment Clearance for the same.
- Unit shall strictly follow the Solid Fuel guideline framed by Board and shall install APCM as per guideline.
- Unit shall strictly follow the Fly Ash Notification for disposal of generated ash.
- Unit shall follow coal handling guideline framed by Board and provide close ash handling facility.

- h. Unit shall sell out their hazardous waste to authorized end-users who is having authorization with valid CCA and rule 9 permission to receive this waste. Unit shall make MoU with such authorized end-users and submit MoU at time of application of CCA.
 - i. All the efforts shall be made to send hazardous waste to cement industry for Co-processing first & there after it shall be disposed through other option.
3. **CONDITIONS UNDER THE WATER ACT:**
- 3.1 There shall be **no generation and discharge** of the industrial effluent from the manufacturing process and other ancillary industrial operations, **Hence the unit shall strictly adhere to zero discharge.**
 - 3.2 The quantity of total water consumption shall not exceed **16 KL/Day** as per below break up as mentioned in form D submitted for consent application under Water Act- 1974.
 - a) Domestic: 5 KL/Day
 - b) Industrial: 6 KL/Day
 - c) Gardening: 5 KL/Day
 - 3.3 The quantity of total waste water generation shall not exceed **4.55 KL/Day** as per below break up as mentioned in form D submitted for consent application under Water Act- 1974.
 - a) Domestic: 4.5 KL/Day
 - b) Industrial: 0.05 KL/Day
 - 3.4 Mode of disposal of wastewater:
 - a) Generated waste water from boiler blow down/cooling bleed off will be mixed with scrubbing water and used for ash quenching, Hence unit shall maintain ZLD.
 - b) Sewage shall be disposed off through septic tank/soak pit system.
 - 3.5 Unit shall affix of water meters as per Section 4 (1) of the water (Prevention and Control of Pollution) Cess Act - 1977 for the purpose of measuring and recording the quantity of water consumed at such places as may be required, within 15 days and it shall be presumed that the quantity indicated by the meter has been consumed by the unit until the contrary is proved.
 - 3.6 The GIDC drainage connection given by the GIDC for discharge of industrial effluent shall be disconnected & the outlet shall be sealed.
 - 3.7 Leachate from the hazardous solid waste, if any shall also be connected into a collection tank through leachate collection facilities and shall be treated along with industrial effluent.
 - 3.8 In case of incinerators & evaporator, the flow measuring devices for mother liquor/ toxic effluent/ Non-biodegradable effluent, light diesel oil, Furnace oil, etc. i.e. fuel used for combustion, air used for combustion shall be separately provided. Incinerator temperature recording devices as well as gaseous flow measuring devices for scrubber shall also be provided. These data of temperature & flow should be recorded every day & submitted to GPCB on monthly basis.
 - 3.9 The Board reserves the right to review and/or revoke the consent and/or make modifications in the conditions which it seems fit in accordance with provisions of the Water Act-1974.



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 010

Phone : (079) 23226295

Fax : (079) 23232156

Website : www.gpcb.gov.in

4. CONDITIONS UNDER THE AIR ACT:

4.1 The following fuel shall be used in utilities:

Sr. No.	Name of fuel	Quantity
1	NAUTURAL GAS	5000 SCM/Day
2	LDO	0.5 KL/Hr
3	Coal/Briquette	17 MT/Day OR 13 MT/Day
4	Diesel	240 lit/Hr

4.2 Unit shall install comprehensive adequate air pollution control measures / system in order to achieve prescribed norms so as to achieve standards.

4.3 The flue gas emission through stack shall conform to the following standards:

Stack No.	Stack attached to	Stack Height in Meter	Air Pollution Control Measure (APCM)	Parameter	Permissible limit
1	Steam Boiler [1 Nos.] [850 Kg/Hrs]	12	Multi cyclone	PM SO _x NO _x	150 mg/Nm ³ 100 ppm 50 ppm
2	Steam Boiler [1 Nos.] [5 TPH]	12	Bag Filter + Water scrubber		
3	Thermic Fluid Heater [2 Nos.] [10 lac kCal/Hr.]	12	Multi cyclone separator + Water scrubber		
4	D.G.Set [4 Nos] [500 KVA]- Emergency Stand-By	9	--		

4.4 The Process emission through various stacks/ vent of reactors, process, vessel shall conform to the following standards:

Stack No.	Stack attached to	Stack Height in Meter	Air Pollution Control Measure (APCM)	Parameter	Permissible limit
1	Blenders	3	Bag Filter	PM	150 mg/NM ³
2	Carbon Coloum	3	Carbon Tower	VOC	--
3	Dryer	--	--	PM	150 mg/NM ³

* The Carbon Tower will be provided for the control of VOC.

Page 3 of 5

Clean Gujarat Green Gujarat

ISO - 9001 - 2008 & ISO - 14001 - 2004 Certified Organisation

- 4.5 The concentration of the following parameters in the ambient air within the premises of the unit shall not exceed the limits specified hereunder.

Sr. No.	Parameters	Permissible Limit (microgram /M ³)	
		Annual	24 Hours Average
1.	Particulate Matter (PM ₁₀)	60	100
2.	Particulate Matter (PM _{2.5})	40	60
3.	Oxides of Sulphur (SO _x)	50	80
4.	Oxides of Nitrogen (NO _x)	40	80

- Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.
 - 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.
- 4.6 Stack monitoring facilities like porthole, platform/ ladder etc., shall be provided with stacks/vents chimney in order to facilitate sampling of gases being emitted into the atmosphere.
- 4.7 All measures for the control of environmental pollution shall be provided before commencing production.
5. **CONDITIONS UNDER HAZARDOUS & OTHER WASTES (MANAGEMENT & TRANSBOUNDARY MOVEMENT) RULES, 2016:**
- 5.1 Unit shall have to comply with provisions of Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 as amended from time to time.
- 5.2 Unit shall obtain membership of common TSDF site & CHWIF for disposal Hazardous waste as categorized in Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 as amended from time to time, if required.
- 5.3 Unit shall provide temporary storage facilities for each type of Haz. Waste as per Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 as amended from time to time.
6. **GENERAL CONDITIONS:**
- 6.1 Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is at least 1000 trees per acre of land and a green belt of 5 meters width is developed.
- 6.2 In case of change of ownership/ management the name and address of the new ownership/ partners/ directors/ proprietor should immediately be intimate to the Board. Also any change in equipment or working conditions as mentioned in the consents form/ order should immediately be intimated to this Board.
- 6.3 Unit shall however, not without the prior consent of the Board bring into use any new or altered outlet for the discharge of effluent or gaseous emission or sewage waste from the proposed industrial plant. Unit is required to make applications to this Board for this purpose in the prescribed forms under the provisions of the Water Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986.



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 010

Phone : (079) 23226295

Fax : (079) 23232156

Website : www.gpcb.gov.in

- 6.4 The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering control like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall conform to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.
- 6.5 The concentration of Noise in ambient air within the premises of industrial unit shall not exceed following levels:
Between 6 A.M. and 10 P.M. : 75 dB(A)
Between 10 P.M. and 6 A.M. : 70 dB(A)
- 6.6 Unit is required to comply with the manufacturing, Storage and Import of Hazardous Chemicals Rules-1989 framed under the Environment (Protection) Act-1986.
- 6.7 Unit shall put up at the entrance a board displaying the name of unit, particulars of the products/ process and the name of proprietor/partners /directors of the unit and the electricity consumer number as on the record of DGVCL.

For and on behalf of
GUJARAT POLLUTION CONTROL BOARD


(M.P.Solanki)
Dy. ENVIRONMENT ENGINEER

Page 5 of 5

Clean Gujarat Green Gujarat

ISO - 9001 - 2008 & ISO - 14001 - 2004 Certified Organisation

(Note: Unit has not converted CTE to CTO. Unit has not started any project activity at the proposed site. After getting EC and CTE for proposed project, unit has applied environmental clearance for proposed speciality chemicals and pesticide intermediates manufacturing plant to MOEFCC, New Delhi.)

Name Change Application online status

In present, unit has applied for the name change from M/s. Pragna Fine Chem Pvt Ltd. to M/s. Pragna Chem Tech Pvt Ltd. in CTE.

The screenshot displays the Gujarat Pollution Control Board (GPCB) CTN Application portal. The browser address bar shows the URL: gpcbvgp.gujarat.gov.in/IND/CTNApp/CTNApp_Application.aspx. The page header includes the user name "PRAGNA FINE CHEM PVT LTD[Login:]" and the GPCB logo. The main content area is titled "Consent Order List for Correction Application" and "Ongoing List for Correction Application". A note states: "Note: To Update Correction Application, Click on Inward ID". Below this, a table lists the application details:

CTN Inw ID	Consent Details	CTN Inw Date	CTN Inw Type	CTN Inw Status	CTN Grant By
7000307		02/09/2021	CTN-NMC	ONL	MSC

The bottom of the page shows the Windows taskbar with the search bar, taskbar icons, and system tray information including the date "02-Sep-2021" and time "13:17".



Pragna Chem Tech

Private Limited

CERTIFIED TRUE COPY OF THE RESOLUTION PASSED BY THE BOARD OF DIRECTORS OF M/S. PRAGNA CHEM TECH PRIVATE LIMITED THEIR MEETING HELD ON DT. 06/07/2021 AT THEIR REGISTERD OFFICE ADDRESS OFFICE AT PLOT NO. 707/D, GIDC, ANKLESHWAR, DIST.BHARUCH, 393002.

Resolved that with a view to **Name Change Application from Gujarat pollution control borad of Pragna Fine chem Pvt. Ltd. to Pragna Chem Tech Pvt. Ltd. at M/s. PRAGNA CHEM TECH PRIVATE LIMITED PLOT NO. 707/D, GIDC, Ankleshwar, 393002, Tal. Ankleshwar, Dist.Bharuch, Gujarat.**

The Board hereby authorized Mr. Sitaram N. Patel to apply and approach the concerned authorities to sign and execute necessary form papers deed and Agreement Documents and to do and the matter and things as are requisite and expedient for the purpose for and on behalf of the company.

// Certified true copy //

FOR, M/S. PRAGNA CHEM TECH PRIVATE LIMITED


1. MAHESHKUMAR J. PATEL (DIRECTOR)


1. SITARAM N. PATEL (DIRECTOR)

Office : Plot No. 707/d, G.I.D.C. Industrial Estate, Ankleshwar - 393 002, Dist. Bharuch (Gujarat) India.
Regi. Office : Plot No. 1210, G.I.D.C. Estate, Ankleshwar - 393 002, Dist. Bharuch (Gujarat) India.
Email : pragnachemtech@gmail.com

Contact : +91 9913 014035
+91 97238 12606
CIN : U24299GJ2021PTC122474

Annexure-XIII

Undertaking of no banned chemicals/products are proposed to be manufactured



Pragna Chem Tech
Private Limited

UNDERTAKING

We, **M/s. Pragna Chem Tech Pvt Ltd.**, At Plot No.707-D, Ankleshwar GIDC Estate, Ankleshwar, Bharuch, Gujarat-393002, India hereby solemnly undertake that company will not manufacture any banned pesticides products or chemicals in future.

Thanking You,

Yours faithfully,

For **M/s. Pragna Chem Tech Pvt Ltd.**

BY
PRAGNA CHEM TECH PRIVATE LIMITED

DIRECTOR

Mr. Sitaram Patel

(Director)

Office : Plot No. 707/d, G.I.D.C. Industrial Estate, Ankleshwar - 393 002, Dist. Bharuch (Gujarat) India.
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Annexure-XIV

NCT Discharge Letter



NARMADA CLEAN TECH
(A subsidiary of GIDC)

NCT/BQC /2021/September- 36

3rd September, 2021

TO WHOMSOEVER IT MAY CONCERN

The FETP of Narmada Clean Tech has been granted CC&A by GPCB for 40 MLD quantity.

This is to certify that M/s. Pragna Chem Tech Pvt. Ltd. plot No. 707/d GIDC, Industries Estate, Ankleshwar 393 002 is a Member of our Company for booked effluent quantity of 130 KL/day booked under 40 MLD CC&A of FETP issued by GPCB dated 22.11.2019 valid till 24.07.2021

Other Details are as under:

At FETP Ankleshwar:

1. Total Treatment Capacity of Common Facility - 60 MLD
2. Consented Capacity of Common Facility -40 MLD

It is direct discharge to NCT with the condition that unit will switch over to respective CETP's after obtaining CC&A from GPCB.

For, Narmada Clean Tech

Praful Panchal
Chief Executive Officer

Surti Bhagor, Nr. Gujarat Gas Office, Umarwada Road, Ankleshwar - 393 001, Dist. Bharuch (Gujarat)
Tel : 84697 45285, 97267 45635, E-mail : info@nctc.co.in, Website : www.nctc.co.in • CIN : U40101GJ2000NPL037236