

BRIEF SUMMARY OF PROJECT

for

PROPOSED PESTICIDE TECHNICAL & INTERMEDIATES
UNIT

of

M/s. GREENTEC CHEMICALS PVT. LTD.

Plot No. D-2/11/B/3/2, GIDC Dahej-II, Dahej-392 130,
Taluka: Vagra, District: Bharuch (Gujarat)

Prepared By:



NABL Accredited Testing Laboratory
ISO 9001:2008 Certified Company

Aqua-Air Environmental Engineers P. Ltd.

**403, Centre Point, Nr. Kadiwala School, Ring
Road, Surat - 395002**

1.0 BRIEF SUMMARY OF THE PROJECT

1.1 Project Details

M/s. Greentec Chemicals Pvt. Ltd. proposes Pesticide Technical & Intermediates Unit at Plot No. D-2/11/B/3/2, GIDC Dahej-II, Dahej-392 130, Taluka: Vagra, District: Bharuch (Gujarat).

1.1.1 Products along with Production Capacity

Group -I Herbicides			
No.	Name	Capacity (MT/Month)	CAS number
1	Fomesafen	50	72178-02-0
2	Halosafen		77227-69-1
3	Napropamide		15299-99-7
4	Metamifop		256412-89-2
5	Picolinafen		137641-05-5
6	Chlorazifop Propargyl		76120-02-0
7	Clodinafop Propargyl		105512-06-9
8	Cyhalofop Butyl		122008-85-9
9	Diclofopmethyl		51338-27-3
10	Fenoxaprop P Ethyl		66441-23-4
11	Fluazifop P Butyl		79241-46-6
12	Haloxifop Methyl		69806-40-2
13	Quizalofop Ethyl		76578-14-8
14	Cloquintocet Mexyl		99607-70-2
15	Quizalofop P Tefuryl		119738-06-6
16	Haloxifop Ethoxy Ethyl (Etotyl)		87237-48-7
17	Acifluofen		50594-66-6
18	Aclonifen		74070-46-5
19	Chlormethoxyfen		32861-85-1
20	Fluoroglycofen		77501-90-7
21	Lactofen		77501-63-4
22	Oxyfluofen		42874-03-3
23	Dicamba		1918-00-9
24	Fluroxypyr Meptyl		81406-37-3
25	Pichloram		1918-02-1
26	Triclopir Butotyl		64700-56-7
27	Metamitron		41394-05-2
28	Metribuzine		21087-64-9
29	Clethodine		99129-21-2

30	Carfentrazone		128621-72-7
31	Ethofumesate		2625-79-6
32	Sulfentrazone		122836-35-5
33	Thiamethoxam		153719-23-4
34	Bispyribac		125401-75-4
35	Pretilachlor		81690-06-4
	TOTAL	50	
36	Glyphosate Tech and its Intermediates Volume	350	1071-83-6
37	2,4 Di Chloro phenoxy Acetic Acid (2,4,D Acid)		94-75-7
38	Pendimethalin		40487-42-1
	TOTAL	350	
Group -II Fungicides			
39	1,2,4 Triazole	50	288-88-0
40	3 Methyl -1,2,4 Triazole		7170-01-6
41	Difenoconazole		119446-68-3
42	Azaconazole		60207-31-0
43	Bromuconazole		116255-48-2
44	Epoxiconazole		133855-98-8
45	Etaconazole (Itraconazole)		84625-61-6
46	Hexaconazole		79983-71-4
47	Penconazole		66246-88-6
48	Propiconazole		60207-90-1
49	Tebuconazole		107534-96-3
50	Fenfuconazole		114369-43-6
51	Ipconazole		125225-28-7
52	Metconazole		125116-23-6
53	Tetraconazole		112281-77-3
54	Cyproconazole		94361-06-5
55	Prothioconazole		178928-70-6
56	Fluquinconazole		136426-54-5
57	Myclobutanil		88671-89-0
58	Imazalil		3554-44-0
59	Triadimenol		55219-65-3
60	Triadimefol		43121-43-3
61	Triticonazole		131983-72-7
	TOTAL	50	
62	Dimoxystrobin		149961-52-4
63	Kresoxim Methyl		143390-89-0
64	Trifluoxystrobin		141517-21-7
65	Flufenoxystrobin		918162-02-4
66	Picoxystrobin		117428-22-5

67	Triclopyricarb	50	902760-40-1
68	Azoxy Strobil		131860-33-8
69	Metominostrobin		133408-50-1
70	Fluoxastrobin		361377-29-9
71	Orysastrobin		248593-16-0
72	Pyraclostrobin		175013-18-0
73	Fenoxanil		115852-48-7
74	Cymoxanil		57966-95-7
	TOTAL	50	
75	Metalaxyl	20	57837-19-1
76	Benalaxyl		71626-11-4
77	Clorothalanil		1897-45-6
78	Fluazinam		79622-59-6
79	Quinoxifen		124495-18-7
80	Famoxadone		131807-57-3
	TOTAL	20	
81	Mancozeb	4000	8018-01-7
82	Maneb	200	12427-38-2
83	Zineb	200	12122-67-7
84	Propineb	400	12071-83-9
85	Tricyclazole and / or its intermediates: HMBT	425	41814-78-2
86	Thiafluzamide	20	130000-40-7
87	Boscalid		188425-85-6
88	Cyazofamid		120116-88-3
89	Difenturon		80060-09-9
90	Dodine		2439-10-3
	TOTAL	20	
91	Cypermethrin	50	52315-07-8
92	Permethrin		52645-53-1
93	Alphamethrin		67375-30-8
94	Deltamethrin tech.		52918-63-5
95	Sulfentrazone		122836-35-5
96	Thiamethoxam		153719-23-4
97	Lambda Cyhalothrin (Lambamethrin)		91465-08-6
98	Diethyl Phenyl Acetamide (Tech.) (DEPA)		2431-96-1
99	Pyriproxypane		95737-68-1
100	Cyfluthrin		68359-37-5
101	TransFluthrin		118712-89-3
102	Propargite		2312-35-8
103	Spirodiclofen		148477-71-8
104	Spiromesifen		283594-90-1

105	Tolfenpyrod		129558-76-5
106	Beta Cypermethrin		86753-92-6
107	Bifenthrin		82657-04-3
108	Acetamaprid		160430-64-8
109	Chlorantraniliprole		500008-45-7
110	Cyfluthrin & Beta Isomers		68359-37-5
111	Fiproni		120068-37-3
112	Imidacloprid		138261-41-3
113	Transfluthrin		118712-89-3
114	Zeta Cypermethrin		52315-97-08
115	Quinalphos		13593-03-8
116	Monocrotophos Technical		6923-22-4
117	Dichlorvos Technical		62-73-7
118	Profenophos Technical		41198-08-7
119	Triazophos Technical		24017-47-8
	TOTAL	50	
120	Chloropyriphos	300	2921-88-2
121	Profenofos	300	41198-08-7
122	Acephate	300	30560-19-1
123	2 -Amino-2' , 4' Dichloro Diphenyl ether	50	56966-48-4
124	2- Amino-2'-Methyl Diphenyl Ether (Red ether)		3840-18-4
125	Amino Resorcine Di Ortho Cresyl Ether		
126	Amino Di Phenyl Ether (Ortho Amino DiPhenyl Ether/2-PA)		2688-84-8
127	4-Amino Di Phenyl Ether		139-59-3
128	4-Amino 4'Methyl Di Phenyl Ether (4-PP)		--
129	2-Amino 2', 4, 4'-Tri Chloro Di Phenyl Ether(Benzinamide, 5-Chloro-2-2(2,4-DichloroPhenoxy)/Tade)		--
130	4-Amino 2', 4' Di Chloro Di Phenyl Ether (ODAmino)		14861-17-7
131	4, 4'-Di Amino Di Phenyl Ether		101-80-4
132	3, 4'-Di Amino Di Phenyl Ether		2657-87-6
133	2-Amino-4-Chloro Di Phenyl Ether (PHD Ether)		93-67-4
134	4-Amino-2, 4'-Di Chloro Di Phenyl Ether (GE/Aminophene)		14861-17-7
135	2-Amino-4'-Chloro Di Phenyl Ether		93-67-4
136	2-Amino-4'-Chloro-4-Trifluoromethyl Di Phenyl Ether (ACTM)		349-20-2
137	4-Amino-4'-Chloro Di Phenyl Ether (PPNA)		101-79-1
138	1, 2-Bis (2-Amino Phenoxy) Ethane		85233-19-8
139	1,2-Bis(4-Amino Phenoxy) Ethane		6052-10-4
140	4-Amino-4'-Nitro Diphenyl Ether		6149-33-3
141	2-Amino-2',4-Dichloro Diphenyl Ether		56966-48-4
142	2-Amino-4,4'-Dichloro Diphenyl Ether (PD Amino)		121-27-7

143	2-(4-Nitro Phenoxy) Ethanol	16365-27-8
144	1,4-Bis(4-Amino Phenoxy) Benzene	3491-12-1
145	1,3-Bis(4-Amino Phenoxy) Benzene	2479-46-1
146	1,3-Bis(3-Amino Phenoxy) Benzene	10526-07-5
147	1,2-Bis(2-Methyl Phenoxy) Ethane	--
148	1,2-Bis(3-Methyl Phenoxy) Ethane	54914-85-1
149	1,2-Bis(3-Methyl Phenoxy) Ethane	54914-85-1
150	5-Amino-2,2',3-Trichloro-4-Nitro-DiphenylEther	--
151	2-Amino-4,4'-Dichloro Diphenyl Ether-2'-Sulfonic Acid/ Sodium Salt	42293-27-6
152	4,4'-Dihydroxy Diphenyl Ether	1965-09-9
153	2-Hydroxy-4,4'-Dichloro Diphenyl Ether	3380-30-1
154	2-Hydroxy-2,4,4'-Trichloro Diphenyl Ether	3380-34-5
155	4-Hydroxy-2',4'-Dichloro Diphenyl Ether	--
156	2-Chloro-4-(4-Chlorophenoxy) Acetophenone /4-Acetyl- 3,4'-Dichloro Diphenyl ether	119851-28-4
157	2-Acetyl-2',4,4'-Trichloro Diphenyl Ether	--
158	4,4' Dimethyl Diphenyl Ether	--
159	4,4'-Dicarboxy Diphenyl Ether	2215-89-6
160	Diphenyl Ether	101-84-8
161	4-Hydroxy Diphenyl Ether / 4-Phenoxy Phenol	831-82-3
162	5 Chloro-6-(2,3 Dichloro Phenoxy)- 2- Methylthio -1H Benzimidazole /Triclabendazole	68786-66-3
163	3,4' Dimethyl Diphenyl Ether	--
164	3 - Phenoxy Toluene	3586-14-9
165	2, 3 - Dichloro phenol	576-24-9
166	2, 5-Dichloro Phenol	583-78-8
167	3, 4- Dichloro Phenol	95-77-2
168	3, 5-Dichloro Phenol	591-35-5
169	3-Mehtyl Phenol (m-Cresol)	108-39-4
170	3-Chloro Phenol	108-43-0
171	3-Nitro Phenol	554-84-7
172	4-(2-Methoxy Ethyl) Phenol	56718-71-9
173	Anisole	100-66-3
174	2,3 Dichloro Anisole	1984-59-4
175	2,5 Dichloro Anisole	1984-59-4
176	4-Bromo-2-Chloro Phenol	3964-56-5
177	4-Bromo 2,5 Dichloro Phenol	1940-42-7
178	4-Fluoro Phenol	371-41-5
179	2 - Fluoro Phenol	367-12-4
180	O -Benzyl-p-Chloro Phenol	120-32-1
181	O-Cyano Phenol	611-20-1

182	P- Chloro - m-Cresol	59-50-7
183	P-Chloro-m-Xylenol	88-04-0
184	Dichloro-m-Xylenol	133-53-9
185	Dichlorophene	97-23-4
186	Bromochlorophene	15435-29-7
187	5-Chloro-2-Amino Phenol	--
188	4-Chloro-2-Amino Phenol	95-85-2
189	4,6- Dichloro - 2-Amino Phenol	527-62-8
190	3,4,5 Tri Methoxy Toluen	6443-69-2
191	4 - Bromoanisole	104-92-7
192	3- Amino - 4 Methyl Benzoic Acid Methyl Ester	--
193	3- Amino 4-Methyl Benzoic Acid Isopropyl Ester (AMBI)	--
194	3- Amino 4 -Methyl Benzoic Acid (2'-ChloroEthyl Ester) (AMBC)	--
195	5-Amino-2-Methyl Benzene Sulphonic Acid Phenyl Ester	--
196	Benzene Sulphonic Acid 3-Amino Phenyl Ester	--
197	2-Cyano-3,4,5,6-Tetrachloro Benzoic Acid Methyl Ester	--
198	Benzene Sulphonic Acid 2-Methyl-5-Nitrophenyl Ester	--
199	Bisphenol - A (Amino Benzene Sulfonate)	--
200	3 - Amino - 4 - Methyl Benzoic Acid	2458-12-0
201	3-Amino-4-Chloro Benzotrifluoride	121-50-6
202	3-Amino Benzotrifluoride	98-16-8
203	2-Chloro-1,4-Phenylene Diamine (2,5 DCPD)	615-66-7
204	2, 5-Dichloro-1, 4-Phenylene Diamine	6393-01-7
205	2-Chloro-5-Methyl-1, 4-Phenylene Diamine	5307-03-9
206	2, 5-Dimethyl-1, 4-Phenylene Diamine	6393-01-7
207	3,4-Diamino Toluene	496-72-0
208	2,3-Dichloro Aniline	608-27-5
209	2, 5-Dichloro Aniline	95-82-9
210	3, 4-Dichloro Aniline	95-76-1
211	3, 5-Dichloro Aniline	626-43-7
212	3-Iso Propoxy Aniline	41406-00-2
213	5-Amino Benzimidazol -2-One	--
214	6-Methyl-5-Amino Benzimidazolone	67014-36-2
215	2,4,5 Tri Chloro Aniline	636-30-6
216	2, 4-Dichloro Acetophenone	937-20-2
217	2, 5-Dichloro Acetophenone	2476-37-1
218	4-Fluoro Acetophenone	403-29-2
219	2,4-Dichloro-5-Fluoro Acetophenone	704-10-9
220	4-Fluoro Phenacyl Chloride	403-26-2
221	2,4-Dichloro Phenacyl Chloride	4252-78-2
222	2,4-Dichlorobuterophenone	--

223	6-Nitro-3,4-Dichloro Aniline		--
224	4-Nitro-2,5-Dichloro Aniline		--
225	2-Nitro-4-Methyl Aniline		89-62-3
226	4-Nitro-2,5-Dimethyl Aniline		--
227	4-Nitro-5-Chloro-2-Methyl Aniline		--
228	4-Nitro-2,5-Dichloro Phenol		5847-57-4
229	4-Nitro-2,3-Dichloro Phenol		--
230	6-Nitro-2,4-Dichloro Phenol		609-89-2
231	2-Nitro-4-Chloro-Phenol		89-64-5
232	5-Nitro Salicylic Acid		96-97-9
233	3-Nitro-Para Toluic Acid		96-98-0
234	3-Nitro-4-Chloro-Benzotrifluoride		121-17-5
235	PCl3		7719-12-2
	TOTAL	50	
236	DMPAT	500	17321-47-0
237	3, 5- Dichloro Aniline	20	626-43-7
238	2-Amino Diphenyl Ether		2688-84-8
239	2,5 Dichloro Aniline		95-82-9
240	2,3 Dichloro Aniline		608-27-5
241	3,4-Dichloro Aniline		95-76-1
	TOTAL	20	
242	HDC HP 100 (TINOSAN HP-100) (Formulated 2-Hydroxy-4-4 Dichloro Diphenyl Ether) (30 % Solution)	20	--
243	Resorcinol Di (Beta-Hydroxy Ethyl) Ether		--
244	Phenofen		--
	TOTAL	20	
245	Meta phenoxy Benzaldehyde	200	39515-51-0
246	Metaphenoxybenzyl Alcohol		13826-35-2
247	DV Acid Chloride		52314-67-7
248	Hydroxy Benzo Furan (HBF)		4790-80-1
249	m - Phenoxy Benzaldehyde (MPBAD)		67-36-7
250	m-Bromo Nitrobenzene		586-78-7
251	m-Bromo Anisole		2398-37-0
252	1R Hightrans CMA		52314-67-7
253	High Trans CMA and CMAC		52314-67-7
254	High Cis CMA and CMAC		52314-67-7
	TOTAL	200	
	GRAND TOTAL	7,505	
Formulations			
255	Formulations (Mancozeb)	4,200	--
256	Formulations (Maneb)	425	--
257	Formulations (Zineb)	425	--

258	Formulations (Propineb)	850	--
259	Formulations (Glyphosate)	2,925	--
260	Powder Formulations	850	--
261	Liquid Formulations	2,100	--
	GRAND TOTAL	11,775	

DETAILS OF BOTTLING PLANT

Sr. No	Name	Capacity Nos./Annum
1	HDPE Bottles (100ml, 250ml, 500ml, 1 Lit, 5 Lit)	30,000,000 (one at a time)
2	HDPE Bottles (20 Ltr)	1,000,000
3	PET Bottles (100ml, 250ml, 500ml, 1 Lit)	35,000,000 (one at a time)
4	Caps	80,000,000

LIST OF BY-PRODUCTS

Sr. No	By- Product Name	MT/Month	CAS No.
1	Aluminium Chloride 20 – 30 % Solution	2,500	7784-13-6
2	Ammonium Chloride Salt	5,000	7446-70-0
3	Ammonium Sulphate 25 % Solution & Salt	2,500	10043-01-3
4	Cu(OH) ₂ Powder	2	20427-59-2
5	Formic Acid	100	64-18-6
6	HBr Solution	6,000	10035-10-6
7	Hydrochloric Acid (30%)	900	7647-01-0
8	KCl Powder	130	7447-40-7
9	Manganese Carbonate (MnCO ₃)	980	598-62-9
10	NH ₄ Cl Powder	250	12125-02-9
11	Potassium Bicarbonate	2,500	298-14-6
12	Potassium Bromide	215	7758-02-3
13	Potassium Bromide 20 % Solution & Salt	175	7758-02-3
14	Potassium Chloride 20 % Solution & Salt	400	7447-40-7
15	Potassium Fluoride 20 % Solution & Salt	2,500	7789-23-3
16	Recovered Solvent	40	8030-30-6
17	Sodium Bi Sulphite 20 % Solution & Salt	400	7631-90-5
18	Sodium Bromide 20 % Solution & Salt	150	7647-15-6
19	Sodium Bromide 20 % Solution & Salt 95 %	100	7647-15-6
20	Sodium Fluoride 20 % Solution & Salt	100	7681-49-4
21	Sodium Sulfite Powder	750	7757-83-7
22	Sodium Sulphate (Na ₂ SO ₄)	20,000	7757-82-6
23	Sodium Sulphite 20 % Solution & Salt	2,000	7757-83-7
24	Spent Sulphuric Acid	50	7664-93-9

1.2 Water Requirement, Waste Water Generation and Treatment

	Water Consumption (KL/Day)	Wastewater Generation (KL/Day)
Domestic	40	40
Gardening	60	-
Process	590 170 (F) + 420 (R)	594
Washing	18	18
Boiler	812	60
Cooling/Chilling	60 (R)	60
Scrubbing	20 (R)	20
Total	1100 (F) + 500 (R)	792

(F) – Fresh Water

(R) – Recycled Water

Wastewater will be segregated in 3 different streams i.e.

1. High COD/High TDS – 632 KL/Day (It will be treated in ETP followed by MEE+ATFD ultimately the MEE Condensate i.e. 632 KL/Day will be sent to RO for further treatment)

2. Low COD/Low TDS Stream – 120 KL/Day (It will be treated in ETP followed by RO, where already MEE Condensate i.e. 632 KL/Day is mixed with Low COD/Low TDS Stream i.e. 120 KL/Day so Total 752 KL/Day in RO for further treatment, from where RO Reject i.e. 252 KL/Day is sent to MEE+ATFD back for further treatment and RO Permeate i.e. 500 KL/Day will be reused/recycled for Cooling, Scrubbing & Process)

3. Domestic – 40 KL/Day (It will be treated in STP and treated water will be reused for land irrigation/gardening)

Ultimately this unit will be a Zero Liquid Discharge Unit.

1.3 Air Pollution Source and Control Management

Sr. No.	Stack Attached to	Stack Height	Air Pollution Control System	Parameter
1	Specialty Chloro Phenol Reaction Vessel	15 m	Two Stage Alkali Scrubber	HCl
2	Herbicide	15 m	Two Stage Water Alkali Scrubber, HBr Scrubber	HCl
				SO ₂
				HBr
3	Fungicide	15 m	Two Stage Water Alkali Scrubber, HBr Scrubber	HCl
				SO ₂
				HBr
3	Insecticide	15 m	Two Stage Water Alkali Scrubber, HBr Scrubber	HCl
				SO ₂
				HBr
4	Amino Compound Reaction Vessel	15 m	Two Stage Alkali Scrubber	HCl
5	Nitro Plant	15 m	Two Stage Water Alkali Scrubber	HCl
				SO ₂
6	Mancozeb / Maneb Plant	15 m	Two Stage Alkali Scrubber	H ₂ S
				CO ₂
				CS ₂
7	Propineb / Zineb Plant , Dithio Carbamate preparation	15 m	Two Stage Water Alkali Scrubber	H ₂ S
				CO ₂
				CS ₂
				NH ₃
8	Spray Dryer for Mancozeb Maneb Plant No 1	31 m	Double Venturi scrubber	Total Particulate Matters
9	Spray Dryer for Mancozeb Maneb Plant No 2	31 m	Double Venturi scrubber	Total Particulate Matters
10	Spray Dryer for Propineb and Zineb Plant	31 m	Double Venturi scrubber	Total Particulate Matters
11	Boiler (15 TPH each)	40 m	--	SO ₂ , NO _x , SPM

1.4 Hazardous Waste

Sr. No.	Waste Details	Waste Category	Quantity MT/Month	Mode of Disposal
1	ETP Sludge	35.3	300	Collection, Storage, Transportation and Disposal at Nearest TSDF
2	Process Waste Sludge (Iron Sludge and residual process salt)	29.1	550	Collection, Storage, Transportation and Disposal at Nearest TSDF or co-processing in Cement Industries
3	Used Oil	5.1	2,000 Lit./Month	Collection, Storage, Transportation and Selling to authorized recyclers
4	Discarded liners / Bags Carboy Drums	33.1	10,000 Nos./Month	Collection, Storage, Transportation, Decontamination and Selling to authorized recyclers
5	Salt from MEE	37.3	1,000	Collection, Storage, Transportation and Disposal at Nearest TSDF
6	Distillation Residue	36.1	200	Collection, Storage, Transportation and Sent to Cement Industries for Co-processing OR incineration at Common Incineration Site
7	Spent Carbon	28.3	5	Collection, Storage, Transportation and Co-processing in Cement Industries or incineration at Common Incineration facility
8	Process Inorganic Salt	-	150	Collection, Storage, Transportation and Disposal at Nearest TSDF facility
9	Fly Ash	-	6,000	Collection, Storage, Transportation and Sell to Brick Manufacturers
10	Cu(OH) ₂ Powder		2	Collection in HDPE tank, Evaporation in Plant and Sell to Dyes industry
11	Aluminium Chloride 20 – 30 % Solution	C1	2,500	Collection in HDPE tank, Evaporation in Plant and Sell to Dyes industry
12	Ammonium Chloride Salt	C1	5,000	Collection in woven sag bags, Sell to licensed factory and after purification used
13	Ammonium Sulphate 25 % Solution & Salt	-	2,500	Collection in HDPE tank and Sell to fertilizer industry
14	Formic Acid	-	100	Collection in HDPE tank and Sell to formulation industry
15	HBr Solution	-	6,000	Collection in HDPE tank and Sell to Dyes industry
16	Hydrochloric Acid (30%)	C2	900	Collection in HDPE tank and Sell to Dyes/Calcium Chloride industry
17	KCL Powder	-	130	Collection in woven sag bags and Sell to agro chemical industry
18	Manganese Carbonate (MnCO ₃)	-	980	Collection in woven sag bags, Sell to agro chemical industry which converts it to MnSO ₄ soln. and use
19	NH ₄ CL Powder	-	250	Collection in HDPE tanks and Sell to Dyes industry or recycle in agro chemical industry
20	Potassium Bicarbonate	-	2,500	Collection in woven sag bags, Sell to agro chemical industry which converts it to KCl and use
21	Potassium Bromide	-	215	Collection in HDPE tanks and Sell to Dyes industry or recycle in agro chemical industry

22	Potassium Bromide 20 % Solution & Salt	-	175	Collection in HDPE tanks, after Bromine Recovery Recycled to agro chemical industry
23	Potassium Chloride 20 % Solution & Salt	-	400	Collection in HDPE tank, Evaporation to Powder and Sell to Dyes industry/recycle in agro chemical industry
24	Potassium Fluoride 20 % Solution & Salt	-	2,500	Collection in HDPE tank, Evaporation to Powder and Sell to Dyes industry/recycle in agro chemical industry
25	Recovered Solvent	-	40	Storage in MS/SS tanks, Purification in plant and Residue send in drums to nearest TSDF for incineration
26	Sodium Bi Sulphite 20 % Solution & Salt	-	400	Collection in HDPE tank, Evaporation to Powder and Sell to Dyes industry/recycle in agro chemical industry
27	Sodium Bromide 20 % Solution & Salt	-	150	Collection in HDPE tank, Evaporation to Powder and Sell to Dyes industry/recycle in agro chemical industry
28	Sodium Bromide 20 % Solution & Salt 95 %	-	100	Collection in HDPE tank, Evaporation to Powder and Sell to Dyes industry/recycle in agro chemical industry
29	Sodium Fluoride 20 % Solution & Salt	-	100	Collection in HDPE tank, Evaporation to Powder and Sell to Dyes industry/recycle in agro chemical industry
30	Sodium Sulfite Powder	-	750	Collection in woven sag bags and Sell to Dyes/textile/washing powder industry
31	Sodium Sulphate (Na ₂ SO ₄)	-	20,000	Collection in woven sag bags and Sell to Dyes/textile/washing powder industry
32	Sodium Sulphite 20 % Solution & Salt	-	2,000	Collection in MS tanks, Evaporation to Powder Sodium Sulphate Sell to Dyes/textile/washing powder industry
33	Spent Acid	C2	50	Collection in HDPE tanks, Neutralized in factory and Send to nearest TSDF for land filling or Sell to converting Sulphate salt industry

1.5 Green Belt

The total plot area is 79,999 sq.m. from which Approx. 25,600 sq.m will be developed as green cover which is 32% of the total plot area.

1.6 Power & Fuel Requirements

Power Requirement:

Sr. No.	Description	Requirement (MW)	Source
1	The proposed project is power intensive, hence requires electrical power for their operation. DG sets: 1500 KVA (3 nos. may only be used in case of power failure/emergency only).	7500 KVA	Torrent Energy Ltd.

Fuel Requirement:

No	Fuel	Total
1	Coal (For Boilers)	100 MT/Day
2	HSD for standby Power For DG sets (3 Nos.)	900 Lit/hr
3	Natural Gas (for main plant and utility)	1000 Sm ³ /hr

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

The Capital Cost of the project will be Rs. 10,100 Lakhs of which Rs. 300 Lakhs will be allocated towards Environmental Protection.

SR. NO.	PARTICULARS	ESTIMATED COST (INR IN LAKHS)
1	LAND AND SITE DEVELOPMENT	1200
2	BUILDING	1000
3	PLANT AND MACHINERIES	6500
4	ENVIRONMENT PROTECTION MEASURES	300
5	ELECTRIFICATION & OTHER PRE-OPERATIVE	200
6	WORKING CAPITAL	900
TOTAL		10100