

**BEFORE THE NATIONAL GREEN TRIBUNAL
SOUTHERN ZONE, CHENNAI**

Original Application No.256 of 2020 [SZ]

IN THE MATTER OF

Tribunal on its own motion-SUO MOTU Based on
The News item in News Desk Magazine Dated
11.11.2020 , Air Pollution and Industries, “ These
Six Industries in North Chennai are polluting the air
For more than half the year, the North Chennai
Thermal Power Station alone Ennore Port”.

...Applicant(s)

Vs

Union of India and others.

... Respondent(s)

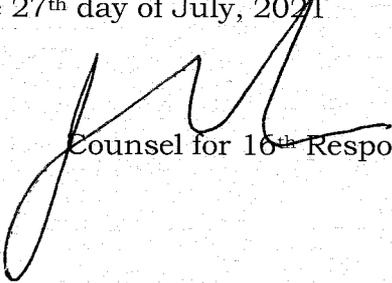
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Certified to be true copies of the Original

Dated at Madras this the 27th day of July, 2021


Counsel for 16th Respondent

Real Time Data Acquisition And Monitoring

Site Name: Madras Fertilizers Ltd

Report: Average Report

From Date: 2019-01-01 00:00 To Date: 2019-12-31 00:00

Description	Stack Demister Ammonia(mg/Nm ³)
Prescribed Standards	
Maximum Data	0 -
Minimum Data	329.64
Geometric Mean	0.69
Median	128.18
Standard Deviation	126.03
Maximum Value At Time	73.4
Minimum Value At Time	2019-10-31 00:00:00
Valid Data Points	2019-12-04 00:00:00
Total Data Points	203
Data Availability %	365
	55.62%

Sl No	Time	Stack Demister Ammonia(mg/Nm ³)
1	2019-01-01 00:00:00	168.39
2	2019-01-02 00:00:00	105.38
3	2019-01-03 00:00:00	175.31
4	2019-01-04 00:00:00	121.75
5	2019-01-05 00:00:00	102.63
6	2019-01-06 00:00:00	149.76
7	2019-01-07 00:00:00	122.59
8	2019-01-08 00:00:00	174.27
9	2019-01-09 00:00:00	93.98
10	2019-01-10 00:00:00	109.56
11	2019-01-11 00:00:00	95.50
12	2019-01-12 00:00:00	128.69
13	2019-01-13 00:00:00	100.68
14	2019-01-14 00:00:00	104.95
15	2019-01-15 00:00:00	108.28
16	2019-01-16 00:00:00	113.27
17	2019-01-17 00:00:00	118.87
18	2019-01-18 00:00:00	140.81
19	2019-01-19 00:00:00	133.34
20	2019-01-20 00:00:00	134.23
21	2019-01-21 00:00:00	138.84
22	2019-01-22 00:00:00	135.98
23	2019-01-23 00:00:00	157.29
24	2019-01-24 00:00:00	129.33
25	2019-01-25 00:00:00	141.72
26	2019-01-26 00:00:00	139.36

Sl No	Time	Stack_Demister-Ammonia(mg/Nm3)
27	2019-01-27 00:00:00	128.62
28	2019-01-28 00:00:00	137.65
29	2019-01-29 00:00:00	164.13
30	2019-01-30 00:00:00	154.76
31	2019-01-31 00:00:00	266.48
32	2019-02-01 00:00:00	140.21
33	2019-02-02 00:00:00	144.78
34	2019-02-03 00:00:00	146.08
35	2019-02-04 00:00:00	127.31
36	2019-02-05 00:00:00	205.76
37	2019-02-06 00:00:00	127.86
38	2019-02-07 00:00:00	142.32
39	2019-02-08 00:00:00	155.32
40	2019-02-09 00:00:00	136.20
41	2019-02-10 00:00:00	123.13
42	2019-02-11 00:00:00	147.45
43	2019-02-12 00:00:00	115.58
44	2019-02-13 00:00:00	128.37
45	2019-02-14 00:00:00	116.81
46	2019-02-15 00:00:00	148.64
47	2019-02-16 00:00:00	106.01
48	2019-02-17 00:00:00	107.33
49	2019-02-18 00:00:00	121.30
50	2019-02-19 00:00:00	108.84
51	2019-02-20 00:00:00	107.06
52	2019-02-21 00:00:00	103.68
53	2019-02-22 00:00:00	91.96
54	2019-02-23 00:00:00	88.15
55	2019-02-24 00:00:00	89.94
56	2019-02-25 00:00:00	91.83
57	2019-02-26 00:00:00	79.49
58	2019-02-27 00:00:00	83.03
59	2019-02-28 00:00:00	32.81
60	2019-03-01 00:00:00	1.97
61	2019-03-02 00:00:00	1.13
62	2019-03-03 00:00:00	1.70
63	2019-03-04 00:00:00	0.93
64	2019-03-05 00:00:00	1.19
65	2019-03-06 00:00:00	2.24
66	2019-03-07 00:00:00	1.42
67	2019-03-08 00:00:00	1.68
68	2019-03-09 00:00:00	1.75
69	2019-03-10 00:00:00	NA
70	2019-03-11 00:00:00	NA
71	2019-03-12 00:00:00	NA

No	Time	Slack_Demister Ammonia(mg/Nm3)
72	2019-03-13 00:00:00	NA
73	2019-03-14 00:00:00	NA
74	2019-03-15 00:00:00	NA
75	2019-03-16 00:00:00	NA
76	2019-03-17 00:00:00	NA
77	2019-03-18 00:00:00	3.02
78	2019-03-19 00:00:00	3.03
79	2019-03-20 00:00:00	3.03
80	2019-03-21 00:00:00	3.03
81	2019-03-22 00:00:00	3.03
82	2019-03-23 00:00:00	3.03
83	2019-03-24 00:00:00	3.03
84	2019-03-25 00:00:00	3.03
85	2019-03-26 00:00:00	3.03
86	2019-03-27 00:00:00	3.03
87	2019-03-28 00:00:00	3.03
88	2019-03-29 00:00:00	3.03
89	2019-03-30 00:00:00	3.03
90	2019-03-31 00:00:00	3.03
91	2019-04-01 00:00:00	3.02
92	2019-04-02 00:00:00	3.03
93	2019-04-03 00:00:00	3.26
94	2019-04-04 00:00:00	NA
95	2019-04-05 00:00:00	NA
96	2019-04-06 00:00:00	NA
97	2019-04-07 00:00:00	NA
98	2019-04-08 00:00:00	NA
99	2019-04-09 00:00:00	NA
100	2019-04-10 00:00:00	NA
101	2019-04-11 00:00:00	NA
102	2019-04-12 00:00:00	NA
103	2019-04-13 00:00:00	NA
104	2019-04-14 00:00:00	NA
105	2019-04-15 00:00:00	NA
106	2019-04-16 00:00:00	NA
107	2019-04-17 00:00:00	NA
108	2019-04-18 00:00:00	NA
109	2019-04-19 00:00:00	NA
110	2019-04-20 00:00:00	NA
111	2019-04-21 00:00:00	NA
112	2019-04-22 00:00:00	NA
113	2019-04-23 00:00:00	NA
114	2019-04-24 00:00:00	NA
115	2019-04-25 00:00:00	NA

Sl No	Time	Stack_Demister-Ammonia(mg/Nm ³)
116	2019-04-26 00:00:00	
117	2019-04-27 00:00:00	NA
118	2019-04-28 00:00:00	NA
119	2019-04-29 00:00:00	NA
120	2019-04-30 00:00:00	NA
121	2019-05-01 00:00:00	NA
122	2019-05-02 00:00:00	NA
123	2019-05-03 00:00:00	NA
124	2019-05-04 00:00:00	NA
125	2019-05-05 00:00:00	NA
126	2019-05-06 00:00:00	NA
127	2019-05-07 00:00:00	NA
128	2019-05-08 00:00:00	NA
129	2019-05-09 00:00:00	NA
130	2019-05-10 00:00:00	NA
131	2019-05-11 00:00:00	NA
132	2019-05-12 00:00:00	NA
133	2019-05-13 00:00:00	NA
134	2019-05-14 00:00:00	NA
135	2019-05-15 00:00:00	NA
136	2019-05-16 00:00:00	NA
137	2019-05-17 00:00:00	NA
138	2019-05-18 00:00:00	NA
139	2019-05-19 00:00:00	NA
140	2019-05-20 00:00:00	NA
141	2019-05-21 00:00:00	NA
142	2019-05-22 00:00:00	NA
143	2019-05-23 00:00:00	NA
144	2019-05-24 00:00:00	NA
145	2019-05-25 00:00:00	NA
146	2019-05-26 00:00:00	NA
147	2019-05-27 00:00:00	NA
148	2019-05-28 00:00:00	NA
149	2019-05-29 00:00:00	NA
150	2019-05-30 00:00:00	NA
151	2019-05-31 00:00:00	NA
152	2019-06-01 00:00:00	NA
153	2019-06-02 00:00:00	NA
154	2019-06-03 00:00:00	NA
155	2019-06-04 00:00:00	NA
156	2019-06-05 00:00:00	NA
157	2019-06-06 00:00:00	NA
158	2019-06-07 00:00:00	NA
159	2019-06-08 00:00:00	NA

No	Time	Slack_Dentist_Amonia(mg/m ³)
160	2019-06-09 00:00:00	NA
161	2019-06-10 00:00:00	NA
162	2019-06-11 00:00:00	NA
163	2019-06-12 00:00:00	NA
164	2019-06-13 00:00:00	NA
165	2019-06-14 00:00:00	NA
166	2019-06-15 00:00:00	NA
167	2019-06-16 00:00:00	NA
168	2019-06-17 00:00:00	NA
169	2019-06-18 00:00:00	NA
170	2019-06-19 00:00:00	NA
171	2019-06-20 00:00:00	NA
172	2019-06-21 00:00:00	NA
173	2019-06-22 00:00:00	NA
174	2019-06-23 00:00:00	NA
175	2019-06-24 00:00:00	NA
176	2019-06-25 00:00:00	NA
177	2019-06-26 00:00:00	NA
178	2019-06-27 00:00:00	NA
179	2019-06-28 00:00:00	NA
180	2019-06-29 00:00:00	NA
181	2019-06-30 00:00:00	NA
182	2019-07-01 00:00:00	NA
183	2019-07-02 00:00:00	NA
184	2019-07-03 00:00:00	NA
185	2019-07-04 00:00:00	NA
186	2019-07-05 00:00:00	NA
187	2019-07-06 00:00:00	NA
188	2019-07-07 00:00:00	NA
189	2019-07-08 00:00:00	NA
190	2019-07-09 00:00:00	NA
191	2019-07-10 00:00:00	NA
192	2019-07-11 00:00:00	NA
193	2019-07-12 00:00:00	NA
194	2019-07-13 00:00:00	NA
195	2019-07-14 00:00:00	NA
196	2019-07-15 00:00:00	NA
197	2019-07-16 00:00:00	NA
198	2019-07-17 00:00:00	NA
199	2019-07-18 00:00:00	NA
200	2019-07-19 00:00:00	NA
201	2019-07-20 00:00:00	NA
202	2019-07-21 00:00:00	NA
203	2019-07-22 00:00:00	NA

Sl No	Time	Slack_Demister-Ammonia(mg/Nm ³)
204	2019-07-23 00:00:00	
205	2019-07-24 00:00:00	NA
206	2019-07-25 00:00:00	NA
207	2019-07-26 00:00:00	NA
208	2019-07-27 00:00:00	NA
209	2019-07-28 00:00:00	NA
210	2019-07-29 00:00:00	NA
211	2019-07-30 00:00:00	NA
212	2019-07-31 00:00:00	NA
213	2019-08-01 00:00:00	NA
214	2019-08-02 00:00:00	NA
215	2019-08-03 00:00:00	NA
216	2019-08-04 00:00:00	NA
217	2019-08-05 00:00:00	NA
218	2019-08-06 00:00:00	NA
219	2019-08-07 00:00:00	NA
220	2019-08-08 00:00:00	NA
221	2019-08-09 00:00:00	NA
222	2019-08-10 00:00:00	NA
223	2019-08-11 00:00:00	NA
224	2019-08-12 00:00:00	NA
225	2019-08-13 00:00:00	NA
226	2019-08-14 00:00:00	NA
227	2019-08-15 00:00:00	NA
228	2019-08-16 00:00:00	NA
229	2019-08-17 00:00:00	NA
230	2019-08-18 00:00:00	NA
231	2019-08-19 00:00:00	NA
232	2019-08-20 00:00:00	NA
233	2019-08-21 00:00:00	NA
234	2019-08-22 00:00:00	108.78
235	2019-08-23 00:00:00	NA
236	2019-08-24 00:00:00	164.51
237	2019-08-25 00:00:00	NA
238	2019-08-26 00:00:00	NA
239	2019-08-27 00:00:00	141.94
240	2019-08-28 00:00:00	120.31
241	2019-08-29 00:00:00	119.04
242	2019-08-30 00:00:00	154.12
243	2019-08-31 00:00:00	119.80
244	2019-09-01 00:00:00	126.84
245	2019-09-02 00:00:00	167.50
246	2019-09-03 00:00:00	182.41
247	2019-09-04 00:00:00	162.88
		10.96

No	Time	Stack Discharge Ammonia(mg/Nm3)
248	2019-09-05 00:00:00	113.18
249	2019-09-06 00:00:00	123.72
250	2019-09-07 00:00:00	151.43
251	2019-09-08 00:00:00	129.44
252	2019-09-09 00:00:00	142.64
253	2019-09-10 00:00:00	199.40
254	2019-09-11 00:00:00	134.39
255	2019-09-12 00:00:00	140.56
256	2019-09-13 00:00:00	116.25
257	2019-09-14 00:00:00	143.39
258	2019-09-15 00:00:00	99.00
259	2019-09-16 00:00:00	95.62
260	2019-09-17 00:00:00	94.15
261	2019-09-18 00:00:00	90.76
262	2019-09-19 00:00:00	112.82
263	2019-09-20 00:00:00	87.25
264	2019-09-21 00:00:00	102.23
265	2019-09-22 00:00:00	105.73
266	2019-09-23 00:00:00	91.22
267	2019-09-24 00:00:00	84.96
268	2019-09-25 00:00:00	76.04
269	2019-09-26 00:00:00	72.49
270	2019-09-27 00:00:00	93.72
271	2019-09-28 00:00:00	107.94
272	2019-09-29 00:00:00	99.09
273	2019-09-30 00:00:00	88.10
274	2019-10-01 00:00:00	122.20
275	2019-10-02 00:00:00	122.29
276	2019-10-03 00:00:00	100.99
277	2019-10-04 00:00:00	84.26
278	2019-10-05 00:00:00	83.66
279	2019-10-06 00:00:00	87.72
280	2019-10-07 00:00:00	79.27
281	2019-10-08 00:00:00	154.16
282	2019-10-09 00:00:00	110.68
283	2019-10-10 00:00:00	105.92
284	2019-10-11 00:00:00	100.15
285	2019-10-12 00:00:00	89.39
286	2019-10-13 00:00:00	106.18
287	2019-10-14 00:00:00	106.42
288	2019-10-15 00:00:00	114.97
289	2019-10-16 00:00:00	113.36
290	2019-10-17 00:00:00	128.16
291	2019-10-18 00:00:00	126.03
292	2019-10-19 00:00:00	127.00

Sl No	Time	Stack Demister Ammonia(mg/Nm ³)
293	2019-10-20 00:00:00	
294	2019-10-21 00:00:00	120.62
295	2019-10-22 00:00:00	177.09
296	2019-10-23 00:00:00	119.88
297	2019-10-24 00:00:00	118.21
298	2019-10-25 00:00:00	212.14
299	2019-10-26 00:00:00	171.81
300	2019-10-27 00:00:00	213.72
301	2019-10-28 00:00:00	217.21
302	2019-10-29 00:00:00	242.72
303	2019-10-30 00:00:00	259.70
304	2019-10-31 00:00:00	240.82
305	2019-11-01 00:00:00	329.64
306	2019-11-02 00:00:00	260.51
307	2019-11-03 00:00:00	221.42
308	2019-11-04 00:00:00	237.07
309	2019-11-05 00:00:00	237.80
310	2019-11-06 00:00:00	259.26
311	2019-11-07 00:00:00	276.05
312	2019-11-08 00:00:00	NA
313	2019-11-09 00:00:00	NA
314	2019-11-10 00:00:00	NA
315	2019-11-11 00:00:00	NA
316	2019-11-12 00:00:00	NA
317	2019-11-13 00:00:00	NA
318	2019-11-14 00:00:00	NA
319	2019-11-15 00:00:00	NA
320	2019-11-16 00:00:00	NA
321	2019-11-17 00:00:00	NA
322	2019-11-18 00:00:00	NA
323	2019-11-19 00:00:00	143.22
324	2019-11-20 00:00:00	192.90
325	2019-11-21 00:00:00	154.40
326	2019-11-22 00:00:00	70.71
327	2019-11-23 00:00:00	198.91
328	2019-11-24 00:00:00	210.89
329	2019-11-25 00:00:00	236.28
330	2019-11-26 00:00:00	229.39
331	2019-11-27 00:00:00	257.45
332	2019-11-28 00:00:00	219.45
333	2019-11-29 00:00:00	192.36
334	2019-11-30 00:00:00	211.62
335	2019-12-01 00:00:00	155.30
336	2019-12-02 00:00:00	255.22
		106.44

Sl. No.	Time	Stack Emission Ammonia(mg/Nm ³)
337	2019-12-03 00:00:00	
338	2019-12-04 00:00:00	1.79
339	2019-12-05 00:00:00	0.69
340	2019-12-06 00:00:00	0.73
341	2019-12-07 00:00:00	208.44
342	2019-12-08 00:00:00	264.57
343	2019-12-09 00:00:00	304.75
344	2019-12-10 00:00:00	298.10
345	2019-12-11 00:00:00	254.96
346	2019-12-12 00:00:00	161.25
347	2019-12-13 00:00:00	267.76
348	2019-12-14 00:00:00	245.57
349	2019-12-15 00:00:00	155.32
350	2019-12-16 00:00:00	187.32
351	2019-12-17 00:00:00	194.80
352	2019-12-18 00:00:00	186.71
353	2019-12-19 00:00:00	161.83
354	2019-12-20 00:00:00	181.86
355	2019-12-21 00:00:00	152.48
356	2019-12-22 00:00:00	150.94
357	2019-12-23 00:00:00	154.52
358	2019-12-24 00:00:00	165.14
359	2019-12-25 00:00:00	150.08
360	2019-12-26 00:00:00	244.03
361	2019-12-27 00:00:00	203.31
362	2019-12-28 00:00:00	209.90
363	2019-12-29 00:00:00	188.06
364	2019-12-30 00:00:00	215.15
365	2019-12-31 00:00:00	242.03
		NA

Report Details: MFL_FE | 2021-01-20 12:16:56 | Average Report

NPK 'C' Train Stack - PM & HF Data

Annexure : 2

Real Time Data Acquisition And Monitoring

Site Name: Madras Fertilizers Ltd

Report: Average Report

From Date: 2019-01-01 00:00 To Date: 2019-12-31 00:00

Description	Stack_NPK-Hydrogen fluoride(mg/Nm3)	Stack_NPK-PM(mg/Nm3)
Prescribed Standards	0 - 10	0 - 150
Maximum Data	5.92	88.42
Minimum Data	0.0	0.0
Geometric Mean	0.43	21.61
Median	0.29	1.14
Standard Deviation	0.52	26.6
Maximum Value At Time	2019-04-03 00:00:00	2019-11-08 00:00:00
Minimum Value At Time	2019-01-01 00:00:00	2019-11-27 00:00:00
Valid Data Points	272	47
Total Data Points	365	365
Data Availability %	74.52%	12.88%

Sl No	Time	Stack_NPK-Hydrogen fluoride(mg/Nm3)	Stack_NPK-PM(mg/Nm3)
1	2019-01-01 00:00:00	0.00	NA
2	2019-01-02 00:00:00	0.00	NA
3	2019-01-03 00:00:00	0.00	NA
4	2019-01-04 00:00:00	0.00	NA
5	2019-01-05 00:00:00	0.00	NA
6	2019-01-06 00:00:00	0.00	NA
7	2019-01-07 00:00:00	0.00	NA
8	2019-01-08 00:00:00	0.00	NA
9	2019-01-09 00:00:00	0.00	NA
10	2019-01-10 00:00:00	0.00	NA
11	2019-01-11 00:00:00	0.00	NA
12	2019-01-12 00:00:00	0.00	NA
13	2019-01-13 00:00:00	0.00	NA
14	2019-01-14 00:00:00	0.17	NA
15	2019-01-15 00:00:00	0.19	NA
16	2019-01-16 00:00:00	0.08	NA
17	2019-01-17 00:00:00	0.11	NA
18	2019-01-18 00:00:00	0.09	NA
19	2019-01-19 00:00:00	0.09	NA
20	2019-01-20 00:00:00	0.08	NA
21	2019-01-21 00:00:00	0.09	NA
22	2019-01-22 00:00:00	0.12	NA
23	2019-01-23 00:00:00	0.06	NA
24	2019-01-24 00:00:00	0.07	NA
25	2019-01-25 00:00:00	0.05	NA
26	2019-01-26 00:00:00	0.06	NA
27	2019-01-27 00:00:00		NA

Sl No	Time	Stack_NPK-Hydrogen fluoride(mg/Nm ³)	Stack_NPK-PM(mg/Nm ³)
28	2019-01-28 00:00:00	0.05	NA
29	2019-01-29 00:00:00	0.07	NA
30	2019-01-30 00:00:00	0.07	NA
31	2019-01-31 00:00:00	0.06	NA
32	2019-02-01 00:00:00	0.06	NA
33	2019-02-02 00:00:00	0.05	NA
34	2019-02-03 00:00:00	0.05	NA
35	2019-02-04 00:00:00	0.04	NA
36	2019-02-05 00:00:00	0.05	NA
37	2019-02-06 00:00:00	0.06	NA
38	2019-02-07 00:00:00	0.05	NA
39	2019-02-08 00:00:00	0.06	NA
40	2019-02-09 00:00:00	0.05	NA
41	2019-02-10 00:00:00	0.05	NA
42	2019-02-11 00:00:00	0.04	NA
43	2019-02-12 00:00:00	0.04	NA
44	2019-02-13 00:00:00	0.05	NA
45	2019-02-14 00:00:00	0.08	NA
46	2019-02-15 00:00:00	0.26	NA
47	2019-02-16 00:00:00	0.46	NA
48	2019-02-17 00:00:00	2.25	NA
49	2019-02-18 00:00:00	0.74	NA
50	2019-02-19 00:00:00	0.68	NA
51	2019-02-20 00:00:00	0.81	NA
52	2019-02-21 00:00:00	0.76	NA
53	2019-02-22 00:00:00	1.07	NA
54	2019-02-23 00:00:00	0.94	NA
55	2019-02-24 00:00:00	0.56	NA
56	2019-02-25 00:00:00	0.50	NA
57	2019-02-26 00:00:00	0.49	NA
58	2019-02-27 00:00:00	0.32	NA
59	2019-02-28 00:00:00	0.13	NA
60	2019-03-01 00:00:00	0.00	NA
61	2019-03-02 00:00:00	0.00	NA
62	2019-03-03 00:00:00	0.00	NA
63	2019-03-04 00:00:00	0.00	NA
64	2019-03-05 00:00:00	0.00	NA
65	2019-03-06 00:00:00	0.00	NA
66	2019-03-07 00:00:00	0.00	NA
67	2019-03-08 00:00:00	0.00	NA
68	2019-03-09 00:00:00	0.00	NA
69	2019-03-10 00:00:00	NA	NA
70	2019-03-11 00:00:00	NA	NA
71	2019-03-12 00:00:00	NA	NA

	Time	Slack_NPK-Hydrogen (lb/d)(da(mg/Nm3))	Slack_NPK-PM(mg/Nm3)
72	2019-03-13 00:00:00	NA	NA
73	2019-03-14 00:00:00	NA	NA
74	2019-03-15 00:00:00	NA	NA
75	2019-03-16 00:00:00	NA	NA
76	2019-03-17 00:00:00	NA	NA
77	2019-03-18 00:00:00	0.00	NA
78	2019-03-19 00:00:00	0.00	NA
79	2019-03-20 00:00:00	0.00	NA
80	2019-03-21 00:00:00	NA	NA
81	2019-03-22 00:00:00	NA	NA
82	2019-03-23 00:00:00	NA	NA
83	2019-03-24 00:00:00	NA	NA
84	2019-03-25 00:00:00	NA	NA
85	2019-03-26 00:00:00	NA	NA
86	2019-03-27 00:00:00	NA	NA
87	2019-03-28 00:00:00	NA	NA
88	2019-03-29 00:00:00	NA	NA
89	2019-03-30 00:00:00	NA	NA
90	2019-03-31 00:00:00	NA	NA
91	2019-04-01 00:00:00	NA	NA
92	2019-04-02 00:00:00	NA	NA
93	2019-04-03 00:00:00	5.92	NA
94	2019-04-04 00:00:00	1.31	NA
95	2019-04-05 00:00:00	1.42	NA
96	2019-04-06 00:00:00	1.35	NA
97	2019-04-07 00:00:00	1.46	NA
98	2019-04-08 00:00:00	1.37	NA
99	2019-04-09 00:00:00	1.37	NA
100	2019-04-10 00:00:00	1.37	NA
101	2019-04-11 00:00:00	1.21	NA
102	2019-04-12 00:00:00	1.02	NA
103	2019-04-13 00:00:00	1.02	NA
104	2019-04-14 00:00:00	1.02	NA
105	2019-04-15 00:00:00	1.02	NA
106	2019-04-16 00:00:00	1.02	NA
107	2019-04-17 00:00:00	1.02	NA
108	2019-04-18 00:00:00	1.02	NA
109	2019-04-19 00:00:00	1.02	NA
110	2019-04-20 00:00:00	1.02	NA
111	2019-04-21 00:00:00	1.02	NA
112	2019-04-22 00:00:00	1.02	NA
113	2019-04-23 00:00:00	NA	NA
114	2019-04-24 00:00:00	1.02	NA
115	2019-04-25 00:00:00	1.02	NA

Sl No	Time	Slack_NPK Hydrogen fluoride(mg/Nm3)	Slack_NPK PM(mg/Nm3)
116	2019-04-26 00:00:00	1.02	NA
117	2019-04-27 00:00:00	1.02	NA
118	2019-04-28 00:00:00	1.02	NA
119	2019-04-29 00:00:00	0.80	NA
120	2019-04-30 00:00:00	0.25	NA
121	2019-05-01 00:00:00	0.29	NA
122	2019-05-02 00:00:00	0.02	NA
123	2019-05-03 00:00:00	0.02	NA
124	2019-05-04 00:00:00	0.02	NA
125	2019-05-05 00:00:00	0.02	NA
126	2019-05-06 00:00:00	0.02	NA
127	2019-05-07 00:00:00	0.02	NA
128	2019-05-08 00:00:00	0.02	NA
129	2019-05-09 00:00:00	0.02	NA
130	2019-05-10 00:00:00	0.02	NA
131	2019-05-11 00:00:00	0.02	NA
132	2019-05-12 00:00:00	0.02	NA
133	2019-05-13 00:00:00	0.02	NA
134	2019-05-14 00:00:00	0.02	NA
135	2019-05-15 00:00:00	0.02	NA
136	2019-05-16 00:00:00	0.02	NA
137	2019-05-17 00:00:00	0.02	NA
138	2019-05-18 00:00:00	0.02	NA
139	2019-05-19 00:00:00	0.02	NA
140	2019-05-20 00:00:00	0.02	NA
141	2019-05-21 00:00:00	0.02	NA
142	2019-05-22 00:00:00	0.10	NA
143	2019-05-23 00:00:00	0.26	NA
144	2019-05-24 00:00:00	0.27	NA
145	2019-05-25 00:00:00	0.27	NA
146	2019-05-26 00:00:00	0.26	NA
147	2019-05-27 00:00:00	0.28	NA
148	2019-05-28 00:00:00	0.26	NA
149	2019-05-29 00:00:00	0.27	NA
150	2019-05-30 00:00:00	0.15	NA
151	2019-05-31 00:00:00	0.09	NA
152	2019-06-01 00:00:00	0.08	NA
153	2019-06-02 00:00:00	0.08	NA
154	2019-06-03 00:00:00	0.07	NA
155	2019-06-04 00:00:00	0.18	NA
156	2019-06-05 00:00:00	0.18	NA
157	2019-06-06 00:00:00	0.21	NA
158	2019-06-07 00:00:00	0.23	NA
159	2019-06-08 00:00:00	0.21	NA
160	2019-06-09 00:00:00	0.19	NA

	Time	Stack_NPK-Hydrogen fluoride(mg/Nm3)	Stack_NPK-PM(mg/Nm3)
161	2019-06-10 00:00:00	0.15	NA
162	2019-06-11 00:00:00	0.23	NA
163	2019-06-12 00:00:00	0.25	NA
164	2019-06-13 00:00:00	0.25	NA
165	2019-06-14 00:00:00	0.25	NA
166	2019-06-15 00:00:00	NA	NA
167	2019-06-16 00:00:00	NA	NA
168	2019-06-17 00:00:00	NA	NA
169	2019-06-18 00:00:00	NA	NA
170	2019-06-19 00:00:00	NA	NA
171	2019-06-20 00:00:00	NA	NA
172	2019-06-21 00:00:00	NA	NA
173	2019-06-22 00:00:00	NA	NA
174	2019-06-23 00:00:00	NA	NA
175	2019-06-24 00:00:00	NA	NA
176	2019-06-25 00:00:00	NA	NA
177	2019-06-26 00:00:00	NA	NA
178	2019-06-27 00:00:00	NA	NA
179	2019-06-28 00:00:00	NA	NA
180	2019-06-29 00:00:00	NA	NA
181	2019-06-30 00:00:00	NA	NA
182	2019-07-01 00:00:00	NA	NA
183	2019-07-02 00:00:00	NA	NA
184	2019-07-03 00:00:00	NA	NA
185	2019-07-04 00:00:00	NA	NA
186	2019-07-05 00:00:00	NA	NA
187	2019-07-06 00:00:00	NA	NA
188	2019-07-07 00:00:00	NA	NA
189	2019-07-08 00:00:00	NA	NA
190	2019-07-09 00:00:00	NA	NA
191	2019-07-10 00:00:00	NA	NA
192	2019-07-11 00:00:00	NA	NA
193	2019-07-12 00:00:00	NA	NA
194	2019-07-13 00:00:00	NA	NA
195	2019-07-14 00:00:00	NA	NA
196	2019-07-15 00:00:00	NA	NA
197	2019-07-16 00:00:00	NA	NA
198	2019-07-17 00:00:00	NA	NA
199	2019-07-18 00:00:00	NA	NA
200	2019-07-19 00:00:00	NA	NA
201	2019-07-20 00:00:00	NA	NA
202	2019-07-21 00:00:00	NA	NA
203	2019-07-22 00:00:00	NA	NA
204	2019-07-23 00:00:00	NA	NA

Sl No	Time	Stack_NPK-Hydrogen fluoride(mg/Nm3)	Stack_NPK-PM(mg/Nm3)
205	2019-07-24 00:00:00	NA	NA
206	2019-07-25 00:00:00	NA	NA
207	2019-07-26 00:00:00	NA	NA
208	2019-07-27 00:00:00	NA	NA
209	2019-07-28 00:00:00	NA	NA
210	2019-07-29 00:00:00	NA	NA
211	2019-07-30 00:00:00	NA	NA
212	2019-07-31 00:00:00	NA	NA
213	2019-08-01 00:00:00	NA	NA
214	2019-08-02 00:00:00	NA	NA
215	2019-08-03 00:00:00	NA	NA
216	2019-08-04 00:00:00	NA	NA
217	2019-08-05 00:00:00	NA	NA
218	2019-08-06 00:00:00	NA	NA
219	2019-08-07 00:00:00	NA	NA
220	2019-08-08 00:00:00	NA	NA
221	2019-08-09 00:00:00	NA	NA
222	2019-08-10 00:00:00	NA	NA
223	2019-08-11 00:00:00	NA	NA
224	2019-08-12 00:00:00	NA	NA
225	2019-08-13 00:00:00	NA	NA
226	2019-08-14 00:00:00	NA	NA
227	2019-08-15 00:00:00	NA	NA
228	2019-08-16 00:00:00	NA	NA
229	2019-08-17 00:00:00	NA	NA
230	2019-08-18 00:00:00	NA	NA
231	2019-08-19 00:00:00	0.00	NA
232	2019-08-20 00:00:00	NA	NA
233	2019-08-21 00:00:00	NA	NA
234	2019-08-22 00:00:00	NA	NA
235	2019-08-23 00:00:00	NA	NA
236	2019-08-24 00:00:00	NA	NA
237	2019-08-25 00:00:00	NA	NA
238	2019-08-26 00:00:00	1.31	NA
239	2019-08-27 00:00:00	0.42	NA
240	2019-08-28 00:00:00	0.47	NA
241	2019-08-29 00:00:00	0.44	NA
242	2019-08-30 00:00:00	0.02	NA
243	2019-08-31 00:00:00	0.54	NA
244	2019-09-01 00:00:00	1.11	NA
245	2019-09-02 00:00:00	1.11	NA
246	2019-09-03 00:00:00	1.11	NA
247	2019-09-04 00:00:00	1.11	NA
248	2019-09-05 00:00:00	1.11	NA
249	2019-09-06 00:00:00	1.12	NA

Time

Stack_NPK-Hydrogen fluoride(mg/Nm³)Stack_NPK-PM(mg/Nm³)

Time	Stack_NPK-Hydrogen fluoride(mg/Nm ³)	Stack_NPK-PM(mg/Nm ³)
250	2019-09-07 00:00:00	1.11
251	2019-09-08 00:00:00	1.11
252	2019-09-09 00:00:00	1.11
253	2019-09-10 00:00:00	1.11
254	2019-09-11 00:00:00	1.11
255	2019-09-12 00:00:00	1.11
256	2019-09-13 00:00:00	1.08
257	2019-09-14 00:00:00	0.26
258	2019-09-15 00:00:00	0.59
259	2019-09-16 00:00:00	0.59
260	2019-09-17 00:00:00	0.59
261	2019-09-18 00:00:00	0.59
262	2019-09-19 00:00:00	0.59
263	2019-09-20 00:00:00	0.59
264	2019-09-21 00:00:00	0.59
265	2019-09-22 00:00:00	0.59
266	2019-09-23 00:00:00	0.59
267	2019-09-24 00:00:00	0.59
268	2019-09-25 00:00:00	0.59
269	2019-09-26 00:00:00	0.59
270	2019-09-27 00:00:00	0.59
271	2019-09-28 00:00:00	0.59
272	2019-09-29 00:00:00	0.59
273	2019-09-30 00:00:00	0.59
274	2019-10-01 00:00:00	0.59
275	2019-10-02 00:00:00	0.59
276	2019-10-03 00:00:00	0.59
277	2019-10-04 00:00:00	0.59
278	2019-10-05 00:00:00	0.59
279	2019-10-06 00:00:00	0.59
280	2019-10-07 00:00:00	0.59
281	2019-10-08 00:00:00	0.59
282	2019-10-09 00:00:00	0.59
283	2019-10-10 00:00:00	0.59
284	2019-10-11 00:00:00	0.59
285	2019-10-12 00:00:00	0.59
286	2019-10-13 00:00:00	0.59
287	2019-10-14 00:00:00	0.59
288	2019-10-15 00:00:00	0.59
289	2019-10-16 00:00:00	0.59
290	2019-10-17 00:00:00	0.59
291	2019-10-18 00:00:00	0.59
292	2019-10-19 00:00:00	0.59

Sl No	Time	Stack_NPK-Hydrogen fluoride(mg/Nm3)	Stack_NPK-PM(mg/Nm3)
293	2019-10-20 00:00:00	0.59	NA
294	2019-10-21 00:00:00	0.59	NA
295	2019-10-22 00:00:00	0.59	NA
296	2019-10-23 00:00:00	0.54	NA
297	2019-10-24 00:00:00	0.68	NA
298	2019-10-25 00:00:00	0.50	NA
299	2019-10-26 00:00:00	0.39	NA
300	2019-10-27 00:00:00	0.57	NA
301	2019-10-28 00:00:00	0.42	NA
302	2019-10-29 00:00:00	0.48	NA
303	2019-10-30 00:00:00	0.44	NA
304	2019-10-31 00:00:00	0.53	NA
305	2019-11-01 00:00:00	0.31	NA
306	2019-11-02 00:00:00	0.33	NA
307	2019-11-03 00:00:00	0.51	NA
308	2019-11-04 00:00:00	0.39	NA
309	2019-11-05 00:00:00	0.83	NA
310	2019-11-06 00:00:00	0.32	NA
311	2019-11-07 00:00:00	0.00	NA
312	2019-11-08 00:00:00	0.00	NA
313	2019-11-09 00:00:00	0.00	88.42
314	2019-11-10 00:00:00	0.00	19.66
315	2019-11-11 00:00:00	0.00	20.42
316	2019-11-12 00:00:00	0.00	19.61
317	2019-11-13 00:00:00	0.00	22.57
318	2019-11-14 00:00:00	0.00	28.70
319	2019-11-15 00:00:00	0.00	27.08
320	2019-11-16 00:00:00	0.00	26.71
321	2019-11-17 00:00:00	0.00	30.44
322	2019-11-18 00:00:00	0.00	33.67
323	2019-11-19 00:00:00	0.18	42.26
324	2019-11-20 00:00:00	0.35	37.03
325	2019-11-21 00:00:00	0.45	47.23
326	2019-11-22 00:00:00	0.44	50.77
327	2019-11-23 00:00:00	0.41	50.82
328	2019-11-24 00:00:00	0.25	50.14
329	2019-11-25 00:00:00	0.19	64.42
330	2019-11-26 00:00:00	0.19	65.59
331	2019-11-27 00:00:00	0.19	75.04
332	2019-11-28 00:00:00	0.19	0.00
333	2019-11-29 00:00:00	0.19	0.00
334	2019-11-30 00:00:00	0.19	0.00
335	2019-12-01 00:00:00	0.17	0.00
336	2019-12-02 00:00:00	0.42	0.00

ID	Time	Stack_NPK-Hydrogen Iuran (04mg/Nm3)	Stack_NPK-PW(mg/Nm3)
337	2019-12-03 00:00:00	0.76	0.00
338	2019-12-04 00:00:00	0.58	0.00
339	2019-12-05 00:00:00	0.54	0.00
340	2019-12-06 00:00:00	0.81	0.00
341	2019-12-07 00:00:00	1.22	0.00
342	2019-12-08 00:00:00	0.81	0.00
343	2019-12-09 00:00:00	0.20	0.00
344	2019-12-10 00:00:00	0.65	0.00
345	2019-12-11 00:00:00	0.44	0.00
346	2019-12-12 00:00:00	0.39	0.00
347	2019-12-13 00:00:00	0.37	0.00
348	2019-12-14 00:00:00	0.20	0.00
349	2019-12-15 00:00:00	0.24	0.00
350	2019-12-16 00:00:00	0.39	0.00
351	2019-12-17 00:00:00	0.31	0.00
352	2019-12-18 00:00:00	0.29	0.00
353	2019-12-19 00:00:00	0.42	19.77
354	2019-12-20 00:00:00	0.37	47.14
355	2019-12-21 00:00:00	0.38	67.15
356	2019-12-22 00:00:00	0.39	NA
357	2019-12-23 00:00:00	0.27	NA
358	2019-12-24 00:00:00	0.27	79.97
359	2019-12-25 00:00:00	0.57	NA
360	2019-12-26 00:00:00	0.55	NA
361	2019-12-27 00:00:00	0.55	NA
362	2019-12-28 00:00:00	0.55	NA
363	2019-12-29 00:00:00	0.55	NA
364	2019-12-30 00:00:00	0.06	1.14
365	2019-12-31 00:00:00	0.00	0.00

Report Details: MFL_FE | 2021-01-20 10:34:45 | Average Report

CAAQMS Data – Manali Village (CPCB)

Annexure : 3

CENTRAL POLLUTION CONTROL BOARD
CONTINUOUS AMBIENT AIR

State Tamil Nadu
 City Chennai
 Station Manali Village, Chennai - TNPCB
 Parameter NH3
 AvgPeriod 24 Hours
 From 01-01-2019T00:00:00Z 00:00
 To 31-12-2019T12:00:59Z 00:00

Manali Village, Chennai - TN

Prescribed Standards	Manali Village, Chennai - TN	
Prescribed Standards	0-400	
Exceeding Standards	NA	
Remarks		
From Date	To Date	NH3
01-01-2019 00:00	02-01-2019 00:00	None
02-01-2019 00:00	03-01-2019 00:00	None
03-01-2019 00:00	04-01-2019 00:00	None
04-01-2019 00:00	05-01-2019 00:00	None
05-01-2019 00:00	06-01-2019 00:00	None
06-01-2019 00:00	07-01-2019 00:00	None
07-01-2019 00:00	08-01-2019 00:00	None
08-01-2019 00:00	09-01-2019 00:00	None
09-01-2019 00:00	10-01-2019 00:00	None
10-01-2019 00:00	11-01-2019 00:00	None
11-01-2019 00:00	12-01-2019 00:00	None
12-01-2019 00:00	13-01-2019 00:00	None
13-01-2019 00:00	14-01-2019 00:00	None
14-01-2019 00:00	15-01-2019 00:00	None
15-01-2019 00:00	16-01-2019 00:00	None
16-01-2019 00:00	17-01-2019 00:00	None
17-01-2019 00:00	18-01-2019 00:00	None
18-01-2019 00:00	19-01-2019 00:00	None
19-01-2019 00:00	20-01-2019 00:00	None
20-01-2019 00:00	21-01-2019 00:00	None
21-01-2019 00:00	22-01-2019 00:00	None
22-01-2019 00:00	23-01-2019 00:00	None
23-01-2019 00:00	24-01-2019 00:00	None
24-01-2019 00:00	25-01-2019 00:00	None
25-01-2019 00:00	26-01-2019 00:00	None
26-01-2019 00:00	27-01-2019 00:00	None
27-01-2019 00:00	28-01-2019 00:00	None
28-01-2019 00:00	29-01-2019 00:00	None
29-01-2019 00:00	30-01-2019 00:00	None
30-01-2019 00:00	31-01-2019 00:00	None
31-01-2019 00:00	01-02-2019 00:00	None

01-02-2019 00:00	02-02-2019 00:00	None
02-02-2019 00:00	03-02-2019 00:00	None
03-02-2019 00:00	04-02-2019 00:00	None
04-02-2019 00:00	05-02-2019 00:00	None
05-02-2019 00:00	06-02-2019 00:00	None
06-02-2019 00:00	07-02-2019 00:00	None
07-02-2019 00:00	08-02-2019 00:00	None
08-02-2019 00:00	09-02-2019 00:00	None
09-02-2019 00:00	10-02-2019 00:00	None
10-02-2019 00:00	11-02-2019 00:00	None
11-02-2019 00:00	12-02-2019 00:00	None
12-02-2019 00:00	13-02-2019 00:00	None
13-02-2019 00:00	14-02-2019 00:00	None
14-02-2019 00:00	15-02-2019 00:00	None
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31-12-2019 00:00	31-12-2019 12:00		48.73

TROL BOARD
QUALITY

Date: Friday, Jul 23 2021
Time: 04:19:04 PM

IPCB



CENTRAL POLLUTION CON' CONTINUOUS AMBIENT AIR

State Tamil Nadu
City Chennai
Station Manali, Chennai - CPCB
Parameter NH3
AvgPeriod 24 Hours
From 01-01-2019T00:00:00Z 00:00
To 31-12-2019T12:00:59Z 00:00

Manali, Chennai - CPCB

Prescribed Standards	0-400	
Exceeding Standards	NA	
Remarks	NH3	
From Date	To Date	
01-01-2019 00:00	02-01-2019 00:00	29.43
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17-01-2019 00:00	18-01-2019 00:00	63.78
18-01-2019 00:00	19-01-2019 00:00	64.22
19-01-2019 00:00	20-01-2019 00:00	63.96
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TROL BOARD

QUALITY

Date: Friday, Jul 23 2021

Time: 04:21:02 PM



NPK 'C' Train Stack - External Agency Report

Annexure : 4



स्थदशा

ESTD.1858
ISO 9001 Co.,

इंजिनियर्स

69-बी, 12वाँ स्ट्रीट, सिडको इन्डस्ट्रियल एस्टेट
अम्बतूर, चेन्नै - 600 098.फोन : 91-44-26254464, 26254986, 26258221
26254111, 26254563, 26255856

फैक्स : 91-044-26258295 टेलिग्राम : आईरनवर्क्स

ई-मेल : r_cruddas@hotmail.com

eelabcruddas@yahoo.com

Richardson & Cruddas (1972) Ltd.

(A Government of India Undertaking)

रिचर्डसन एण्ड क्रुडस (१९७२) लिमिटेड

(भारत सरकार का उपक्रम)

An ISO 9001-2008 Certified Company
VINCOTTE LAB

THE INTERNATIONAL CERTIFICATION NETWORK



ENVIRONMENTAL ENGINEERING LABORATORY

(RECOGNISED BY CENTRAL POLLUTION CONTROL BOARD/ MoEF/Accredited By NABL)



CERT No. T-2422

ENGINEERS

69-D, 12th St, SIDCO INDUSTRIAL ESTATE,
AMBATTUR, CHENNAI - 600 098.

Phone : 91-44-26254464, 26254986, 26258221

26254111, 26254563, 26255856

Fax : 91-044-26258295

E-mail : r_cruddas@hotmail.com

eelabcruddas@yahoo.com

TEST REPORT

Issued to : M/s. Madras Fertilizers Ltd.,
Manali Industrial Area,
Manali, Chennai - 600 068.

Reference : Acknowledgement Receipt number : 1593 Report Number : T242218007780F

Sample Description : NPK "C" Train stack emission 10.01.2019 -

Sample drawn By : Richardson & Cruddas (1972) Ltd.

Sampling date & time: 01.00 Hourly
sampling

Sampling Method : SOP No: R&C/EE.LAB/TM/40

Test commenced on : 10.01.2019

Report date : 21.01.2019

Test completed on : 21.01.2019

Instrument Used : Stack Monitoring Kit with accessories

Sl. No.	Parameter(s)	Unit	NPK 'C' TRAIN	METHOD
1	Stack Height from ground level	meter	42.0	-
2	Sampling port location from ground level	meter	30.0	-
3	Area of Cross-section of Demister	m ²	4.96	-
4	Velocity of Flue gas	m/sec	12.34	IS 11255 Part 3 (Reaff. 2003)
5	Stack-gas Temperature	°C	44.0	By Digital Thermocouple
6	Ambient Temperature	°C	32.0	By Digital Thermocouple
7	Gas Discharge	Nm ³ /hr	2,12,001.98	IS 11255 Part 3 (Reaff. 2003)
8	Concentration of Particulate Matter	mg/Nm ³	68	IS 11255 Part 1 (Reaff. 2003)
9	Concentration of Fluoride as F	mg/Nm ³	0.70	IS 11255 Part 5 (Reaff. 2003)
Stack sampler serial number			86 DTL	-
Calibration Due date			20.01.2019	-

**** End of the Report ****



(Signature)
21/01/19
Technical Manager
(V.ARUNKUMAR)

Note: This report relates only to the particular sample submitted for test. Any correction not attested shall not validate this report. This report shall not be reproduced except in full without our written approval. Sample are not drawn by us unless otherwise stated. Retention period of tested samples 15 days only unless otherwise specified.

R&C/EE.LAB/CS/19

Page 1 of 1

मुलुण्ड
एल.पी. शास्त्री मार्ग
मुलुण्ड पश्चिम
मुम्बई - 400 080.
फैक्स : 022-25690988
फोन : 022-25691173

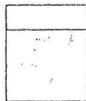
Mulund
L.B. Shastri Marg.
Mulund West
Mumbai-400 080.
Fax: 022-2569 0988
Phone: 022-2569 1173

पंजीकृत एवं मुख्यालय
भायस्कूला आईरन वर्क्स
सर. जे.जे.रोड
मुम्बई - 400 008.
फैक्स : 022-23731491
फोन : 022-23730000

Regd. & Head Office :
Byculla Iron Works
Sir. J.J. Road,
Mumbai - 400 008.
Fax: 022-23731491
Phone: 022-23730000

नागपुर
F3, एम.आई.डी.सी इंडस्ट्रियल एस्टेट
हिंगना रोड,
मुम्बई - 440 016.
फैक्स : 07104-237693
फोन : 07104-237693

Nagpur
F3, MIDC Industrial Estate.
Hingna Road,
Nagpur - 440 016.
Fax: 07104-237693
Phone: 07104-237693



Group :

File No : QCL/01/9.1

Division/Department : QC Lab/TS

Date : 06.03.2019

DECLARATION

Stack Emission Monitoring of NPK C Train Stack has not been carried out by our External Survey Agency M/s R&C Environment Lab for the month of February 2019 since the above plant was shut down.

P. J. S. Varma
6/3/2019
f Manager - QC



Group :

File No : QCL/01/9.1

Division/Department : QC Lab/TS

Date : 02.04.2019

DECLARATION

Stack Emission Monitoring of NPK C Train Stack has not been carried out by our External Survey Agency M/s R&C Environment Lab for the month of MARCH 2019 since the above plant was not in operation.

P. J. V. 2/4/2019

f Manager - QC



Group : PLANT

File No : QCL/01/9.1

Division/Department : QC Lab/TS

Date : 03.05.2019

DECLARATION

Stack Emission Monitoring of Urea Demister O/L and NPK C Train Stack have not been carried out by our External Survey Agency M/s ABC Technolabs India Pvt Ltd for the month of April 2019 since they have been awarded the Work Order only on 26.04.2019 and being new agency they could not organize sampling within short notice.

P. J. Verma
3/5/2019

f Manager - QC



Group : PLANT

File No : QCL/01/9.1

Division/Department : QC Lab/TS

Date : 04.07.2019

DECLARATION

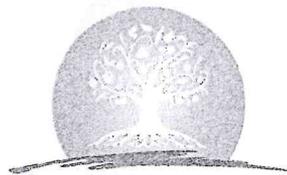
Stack Emission Monitoring of Urea Demister O/L Stack and NPK C Train Stack have not been carried out for the month of June 2019 since the above plants were not in operation.

P. S. Vora
4/7/2019

f Manager - QC

Issued to :

M/s. Madras Fertilizers Ltd.
Manali, Chennai-600068



ABC Techno Labs®
India Private Limited

Corporate Office & Lab :
ABC TOWER

#400, 13th Street,
SIDCO Industrial Estate - North Phase,
Ambattur, Chennai - 600 098.

Ph : +91-44-2625 7788, 2625 7799

Helpline : +91 94442 60000, 95661 87777



lab@abctechnolab.com
www.abctechnolab.com

(An ISO : 9001, ISO : 14001, OHSAS : 18001 & ISO : 22000 Certified Company)

ACCREDITED BY NABL, ISO/IEC 17025 : 2005, QUALITY COUNCIL OF INDIA
RECOGNISED BY MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE (MoEFCC), GOVERNMENT OF INDIA
NOTIFIED BY FOOD SAFETY STANDARDS AND AUTHORITY OF INDIA (FSSAI)

TEST REPORT

Report number	:	ABCTL/2019/09/4714
Sample drawn by	:	ABC Techno Labs India Private Limited
Sample description	:	Source Emission Monitoring
Date of sampling	:	23-09-2019
Report date	:	30-09-2019

Page 1 of 1

Sl.No	Stack Details	NPK "C" Train Stack
1	Stack height from ground level in meters	45
2	Port Hole Height From Ground Level in meters	30
3	Stack Diameter in meters	2.5
4	Cross Sectional Area, m ²	4.9093
5	Velocity of Flue Gas in m/sec	8.84
6	Gas Discharge in Nm ³ /hr	1,44,796
7	Stack gas temperature in (K)	319
8	Ambient gas temperature in (K)	305

S. No	Stack Attached to	PM (mg/Nm ³)	SO ₂ (mg/Nm ³)	NO _x (mg/Nm ³)	Ammonia as NH ₃ (mg/Nm ³)	Total Fluoride as F
1	NPK "C" Train Stack	41.6	9	81	117	4
	MoEF Standards	150	Not Specified	400	300	10

Method: IS 11255 Part 1 (Reaff.2003) and Flue Gas Analyser.

.....End of Report.....

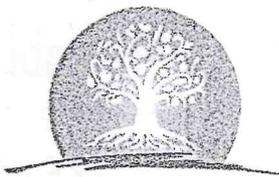


A. Robson Chinnadurai
23/09/19

A. Robson Chinnadurai
Technical Manager

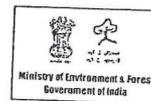
Issued to :

M/s. Madras Fertilizers Ltd.
Manali, Chennai-600068



ABC Techno Labs®
India Private Limited

Corporate Office & Lab :
ABC TOWER
#400, 13th Street,
SIDCO Industrial Estate - North Phase,
Ambattur, Chennai - 600 098.
Ph : +91-44-2625 7788, 2625 7799
Helpline : +91 94442 60000, 95661 87777



lab@abctechnolab.com
www.abctechnolab.com

(An ISO : 9001, ISO : 14001, OHSAS : 18001 & ISO : 22000 Certified Company)

ACCREDITED BY NABL, ISO/IEC 17025 : 2005, QUALITY COUNCIL OF INDIA
RECOGNISED BY MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE (MOEFCC), GOVERNMENT OF INDIA
NOTIFIED BY FOOD SAFETY STANDARDS AND AUTHORITY OF INDIA (FSSAI)

TEST REPORT

Report number	:	ABCTL/2019/10/5649
Sample drawn by	:	ABC Techno Labs India Private Limited
Sample description	:	Source Emission Monitoring
Date of sampling	:	23-10-2019
Report date	:	24-10-2019

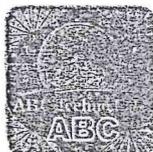
Page 1 of 1

Sl.No	Stack Details	NPK "C" Train Stack
1	Stack height from ground level in meters	
2	Port Hole Height From Ground Level in meters	45
3	Stack Diameter in meters	30
4	Cross Sectional Area, m ²	2.5
5	Velocity of Flue Gas in m/sec	4.9093
6	Gas Discharge in Nm ³ /hr	8.75
7	Stack gas temperature in (K)	1,44,417
8	Ambient gas temperature in (K)	317
		304

S. No	Stack Attached to	PM (mg/Nm ³)	SO ₂ (mg/Nm ³)	NO _x (mg/Nm ³)	Ammonia as NH ₃ (mg/Nm ³)	Total Fluoride as F
1	NPK "C" Train Stack	45.2	3	96	122	4.4
	MoEF Standards	150	Not Specified	400	300	10

Method: IS 11255 Part 1 (Reaff.2003) and Flue Gas Analyser.

.....End of Report.....



A. Robson Chinnadurai
24/10/19

A. Robson Chinnadurai
Technical Manager



TAMIL NADU POLLUTION CONTROL BOARD
DISTRICT ENVIRONMENTAL LABORATORY – MANALI

AMBIENT AIR QUALITY SURVEY – Report of Analysis

Report No.22 /AAQ/2019-20, Dated 13.09.2019

1. Name of the Industry : M/s. Madras Fertilizers Limited,
2. Address of the Industry : Ponneri Road, Manali, Chennai -68
3. Date of Survey : 20 & 21.08.2019
4. Duration of Survey : 8 hours / 24 hours
5. Category : Red/Orange/Green-Large/Medium/Small
6. Land use classification : Industrial/Commercial/Residential/Sensitive/Mines

Meteorological Conditions

Ambient Temperature (°C)	Min	Max	Relative Humidity (%)	Min	Max
	31	35		59	84
Weather Condition	Partially Cloudy		Rain Fall (mm)	Nil	
Predominant Wind Direction	NW to SE		Mean Wind Speed (km / hr)	11.37	

Ambient Air Quality Survey Results

Sl. No.	Location	Direction *	Distance *	Height From GL (m)	Pollutants Concentration (microgram / m ³)				Addl. Parameters if any (PM _{2.5})
					PM ₁₀	SO ₂	NO ₂	NH ₃	
1	On top of Platform near Scrap Yard	N	100	4.0	87	11	19	57	24
2	On top of Platform near Main Gate	NE	100	4.0	72	14	16	75	--
3	On top of Platform near RO Plant	E	100	4.0	84	19	14	8	--
4	On top of Platform near South Gate	SE	100	4.0	94	21	17	92	32
5	On top of Platform near NH ₃ Plant Watch Tower	SW	100	4.0	82	18	15	104	--
6	On top of Platform near LPG Bullet Area	NW	150	4.0	91	13	20	70	--
7	On top of Platform near Tamin Gate	NE	300	4.0	79	17	22	87	--
8	On top of Platform near Fire Station	S	350	4.0	63	15	17	66	--

Note :- * With respect to major emission sources. The analytical results are restricted to the sampling period of 8 hrs/24hrs

Test Performed	Test Method
PM ₁₀	IS 5182: (Part 23) – 2006
SO ₂	Modified West – Gaeke / IS 5182: (Part 2) – 2001 RA: 2012
NO ₂	Modified Jacob – Hochheiser / IS 5182: (Part 6) – 2006 RA: 2012

ES
13/9/19

Deputy Chief Scientific Officer
TNPCB, DEL, Manali
13/9/19



TAMIL NADU POLLUTION CONTROL BOARD
DISTRICT ENVIRONMENTAL LABORATORY – MANALI

STACK MONITORING SURVEY – Report of Analysis

Report No.22/SM/2019-20, dated 13.09.2019

1. Name of the Industry : M/s. Madras Fertilizers Limited,
2. Address of the Industry : Ponneri Road, Manali, Chennai-68
3. Date of Survey : 20 & 21.08.2019
4. Type of Industry : Cement/Chemical/Sugar/Paper & Pulp/
Power plant/Textile Processing/Others

Stack Monitoring Survey Results

Sl. No.	Stack attached to	Stack Temp °K	Velocity in (m/sec)	Discharge rate in Nm ³ /Day	Pollutants (mg / Nm ³)				
					PM	SO ₂	NO _x	NH ₃	F
1	Utility Boiler 2	366	35.28	52466546	52	437	43	-	-
2	DG – 1000 KVA	623	30.14	61110	18	59	1361	-	-
3	110 ATA - Boiler	433	28.55	16511346	48	BDL	49	-	-
4	PC - Boiler	458	28.89	5099666	44	BDL	68	-	-
5	Urea Prill Tower Demister	303	9.83	94388555	9	-	-	84	-
6	NPK - C	304	13.92	5788648	11	-	-	21	0.24

Test Performed	Test Method
PM ₁₀	IS 5182: (Part 23) – 2006
SO ₂	Modified West – Gaeke / IS 5182: (Part 2) – 2001 RA: 2012
NO ₂	Jacobs – Hochheiser / IS 5182: (Part 6) – 2006 RA: 2012

[Signature]
ES
13/9/19

[Signature]
Deputy Chief Scientific Officer
TNPCB, DEL, Manali
13/9/19



TAMIL NADU POLLUTION CONTROL BOARD
DISTRICT ENVIRONMENTAL LABORATORY – MANALI

AMBIENT/SOURCE NOISE LEVEL SURVEY - Report of Analysis

Report No.22/NLS/2019-20, dated 13.09.2019

1	Name of the Industry	M/s. Madras Fertilizers Limited,		
2	Address of the Industry	Ponneri Road, Manali, Chennai 68.		
3	Date of Survey	20.08.2019		
Category	RL	Land use classification	Industrial	
Type of Survey	Ambient/Source	Time of survey	Day	
Meteorological conditions		Calm / Windy / Rainy	Windy	

Logging Parameters

Instrument Used	CESVA Model SC310		Serial No.	T243103
Logging Interval	10 Minutes each point		Measuring Range	50-110 dB(A)
Weighting	"A"	Peak Weighting	"C"	Time Weighting
				FAST
Sound Incidence	Random		Time in hrs.	14.00 - 15.00

Report of Noise Level Monitoring

Sl. No	Location	Duration (min)	Distance (m)	Direction	Sound Level –dB(A)		
					L _{eq}	Min	Max
1	Near Scarp Yard	10	100	N	61.5	56.8	75.1
2	Near Main Gate	10	100	NE	59.4	58.2	63.5
3	Near South Gate	10	100	SE	66.4	51.2	69.8
4	Near NH3 Plant Watch Tower	10	150	SW	74.1	69.5	87.3
5	Near LPG Bullet Area	10	100	NW	65.3	63.4	65.8

Note: Leq value is the average energy for the measured period.

13/9/19
ES

[Signature]
Deputy Chief Scientific Officer
TNPCB, DEL, Manali

Real Time Data Acquisition And Monitoring

Site Name: Madras Fertilizers Ltd

Report: Custom Report

From Date: 2019/11/01 00:00:00 To Date : 2019/12/31 23:59:58

Description	Stack_NPK-PM_U
Prescribed Standards	-
Maximum Data	88.42
Minimum Data	0.0
Geometric Mean	21.65
Median	1.7
Standard Deviation	26.53
Maximum Value At Time	2019-11-08
Minimum Value At Time	2019-11-27
Valid Data Points	47
Total Data Points	61
Data Availability %	77.05%

Sl No	Time	Stack_NPK-PM_U
1	2019-11-01	NA
2	2019-11-02	NA
3	2019-11-03	NA
4	2019-11-04	NA
5	2019-11-05	NA
6	2019-11-06	NA
7	2019-11-07	NA
8	2019-11-08	88.42
9	2019-11-09	19.66
10	2019-11-10	20.42
11	2019-11-11	19.61
12	2019-11-12	22.57
13	2019-11-13	28.70
14	2019-11-14	27.08
15	2019-11-15	26.71
16	2019-11-16	30.44
17	2019-11-17	33.67
18	2019-11-18	42.26
19	2019-11-19	37.03
20	2019-11-20	47.23
21	2019-11-21	50.77
22	2019-11-22	50.82
23	2019-11-23	50.14
24	2019-11-24	64.42
25	2019-11-25	65.59
26	2019-11-26	75.04
27	2019-11-27	0.00

SI No	Time	Stack_NPK-PM_U
28	2019-11-28	0.00
29	2019-11-29	0.00
30	2019-11-30	0.00
31	2019-12-01	0.00
32	2019-12-02	0.00
33	2019-12-03	0.00
34	2019-12-04	0.00
35	2019-12-05	0.00
36	2019-12-06	0.00
37	2019-12-07	0.00
38	2019-12-08	0.00
39	2019-12-09	0.00
40	2019-12-10	0.00
41	2019-12-11	0.00
42	2019-12-12	0.00
43	2019-12-13	0.00
44	2019-12-14	0.00
45	2019-12-15	0.00
46	2019-12-16	0.00
47	2019-12-17	0.00
48	2019-12-18	0.00
49	2019-12-19	22.52
50	2019-12-20	46.43
51	2019-12-21	67.66
52	2019-12-22	NA
53	2019-12-23	NA
54	2019-12-24	78.59
55	2019-12-25	NA
56	2019-12-26	NA
57	2019-12-27	NA
58	2019-12-28	NA
59	2019-12-29	NA
60	2019-12-30	1.70
61	2019-12-31	0.00

Report Details: MFL_FE | 2021-07-19 10:31:57 | Custom Report

PO Copy of CAAQMS Installation

Annexure : 7



मद्रास फर्टिलाइजर्स लिमिटेड
Madras Fertilizers Limited
 (भारत सरकार का उपक्रम / A Government of India Undertaking)
 पोस्ट बग नं 2, मणल्लि, चेन्नै - 600 068 भारत. दूर: 044-25945311
 Post Bag No. 2, Manallil, Chennai - 600 068 INDIA. Tel: 044-25945311
 फेक्स / Fax: 25941621 ई.मेल: purchase@madrasfert.co.in, purch@madrasfert.co.in

Please quote our order No. On all Correspondence,
 Invoices, Shipping Documents and Packages.
 TERMS & CONDITIONS OVERLEAF

GSTIN : 33AAAAM5198E1ZK
 CIN : L32201TN1966GO1005469
 ECC : AAACM5198EXM002

खरीद आदेश / PURCHASE ORDER

खरीद आदेश सं / PURCHASE ORDER NO.	दिनांक / DATE
TV452024	08-JAN-2021
प्रदायक कोड / SUPPLIER CODE	वस्तुसूचि लेखा कोड / INVENTORY ACCOUNT
E636	143 - 03
वितरण दिनांक / DELIVERY DATE	नामे लेखा कोड / DEBIT ACCOUNT CODE
30-APR-2021	116050000

प्रदायक के नाम व पता / SUPPLIER'S NAME & ADDRESS

ENVIRONNEMENT S.A. INDIA PVT LT
 D 16, 3&4, TTC INDUSTRIAL AREA
 MIDC TURBHE
 NAVI MUMBAI 400 705
 INDIA
 MAHARASHTRA 400705

एन क्वरी / ENQUIRY NO.

040820/060

आपकी दर सं दिनांक / YOUR QUOTATION NO./DATE

AS BELOW

वितरण शर्तों / DELIVERY TERMS

FREE DELIVERY

एम.एफ.एल. में वितरण/DELIVERY AT MFL

TS / STORES

क्र.सं / S.NO.	वस्तु कोड / वस्तु विवरण / ARTICLE CODE & DESCRIPTION	इकाई / UNIT	इ/को / U/C	मात्रा / QUANTITY	प्रति दर / RATE PER	इकाई दर / UNIT RATE	मूल्य / VALUE
	45-1-50252 CAAQMS - STATION COMPRISING 1.PM10 ANALYZER 2.PM 2.5 ANALYZER 3.SO2 ANALYZER 4.NH3,NO-NO2-NOx ANALYZER 5.O3 ANALYZER 6.CO ANALYZER 7.MULTIPOINT CALIBRATOR 8.FOIL KIT/HEATED SAMPLING LINE FOR DUST 9.SAMPLE HANDLING SYSTEM 10.10lit SPAN GAS-SO2,NH3,NO2 AND CO 11.ZERO AIR UNIT 12.RACK FOR ANALYZERS 13.MOINTORING STATION PC WITH DATA LOG SOFTWARE 14.UPS OF SUITABLE RATING(ANALYZERS INCLUDING 2 AIR CONDITIONERS) 15.REAL-TIME DATA TRANSFER TO CPCB AND TNPCB & LED DISPLAY AT COMPANY ENTRANCE PACKING & FORWARDING: TO VENDOR'S A/C FREIGHT & INSURANCE : TO VENDOR'S A/C	No.	01	3.000	1	4232471.00	12697413.

कटौति / DISCOUNT	पैकिंग / PACKING	अग्रोताग / FORWARDING	उत्पाद शुल्क / EXCISE DUTY	वित्त. उत्तराशुल्क / SPL. EXCISE DUTY	जी.एस.टी. / GST	अधिवार / SURCHARGE	अति. अधिवार / ADL. SURCHARGE	कुल / TOTAL
***	***	***	***	***	18.00%	***	***	12697413.0

प्रेषण / DESPATCH

बठमा / INSURANCE

BY ROAD

By Vendor at their cost

* भाडा.खर्च आपको वास्तविक रूप प्रतिपूर्ति किया जावेगा।

* Freight charges will be reimbursed to you at actuals

Ctd Page : 2

PAYMENT

AS STATED ABOVE

सूचककर्ता / INDENTOR:

कार्य सं / JOB No.:

MGR-QC LAB
113244

हवीकृत / ACCEPTED

प्रदायक के हस्ताक्षर & दिनांक / Supplier's Signature & Date

एक आइ.एस.ओ. 9001 & 14001 कम्पनी
PA/POFF/VS purchase@madrasfert.co.in, purchase@madrasfer
AN ISO 9001 & 14001 COMPANY

मद्रास फर्टिलाइजर्स लिमिटेड / For MADRAS FERTILIZERS LTD.

मया हस्ताक्षर का प्रिन्ट प्रती को खरीद विभाग में लौटा दें।
Please sign and return the Vendor Act copy to our Purchase Dept.

खरीद / PURCHASE

OCP-PUR-P-07

मद्रास फर्टिलाइजर्स लिमिटेड
Madras Fertilizers Limited
 (भारत सरकार का उपक्रम / A Government of India Undertaking)
 पोस्ट बैग नं. 2, मणली, चेन्नई - 600 068 भारत. दूर: 044-25945311
 Post Bag No. 2, Manali, Chennai - 600 068 INDIA. Tel: 044-25945311
 फैक्स / Fax: 25941621 ई.मेल / E-mail: purchase@madrasfert.co.in, purch@madrasfert.co.in

Please quote our order No. On all Correspondence, Invoices, Shipping Documents and Packages.
 TERMS & CONDITIONS OVERLEAF
 GSTIN : 33AAACM5198E1ZK
 CIN : L32201TN1966GO1005469
 ECC : AAACM5198EXM002

खरीद आदेश / PURCHASE ORDER

प्रदायक के नाम व पता / SUPPLIER'S NAME & ADDRESS
 ENVIRONNEMENT S.A. INDIA PVT LT
 D 16, 3&4, TTC INDUSTRIAL AREA
 MIDC TURBHE
 NAVI MUMBAI 400 705
 INDIA
 MAHARASHTRA 400705

खरीद आदेश सं / PURCHASE ORDER NO.	दिनांक / DATE
TV452024	08-JAN-2021
प्रदायक कोड / SUPPLIER CODE	वस्तुसूचि लेखा कोड / INVENTORY ACCOUNT
E636	143 - 03
वितरण दिनांक / DELIVERY DATE	नाम लेखा कोड / DEBIT ACCOUNT CODE
30-APR-2021	116050000

जांच सं / ENQUIRY NO.	आपकी दर सं दिनांक / YOUR QUOTATION NO./DATE	वितरण शर्त / DELIVERY TERMS	एम.एफ.एल. में वितरण/DELIVERY AT MFL
040820/060	AS BELOW	FREE DELIVERY	TS / STORES

क्र.सं / S. NO.	वस्तु कोड / वस्तु विवरण / ARTICLE CODE & DESCRIPTION	इकाई / UNIT	ड/को / D/C	मात्रा / QUANTITY	मूल्य दर / RATE PER	इकाई दर / UNIT RATE	मूल्य / VALUE
	GST: 18% OR AS APPLICABLE STATUTORY LEVIES : AS APPLICABLE, IF ANY WARRANTY FOR 3 CAQMS: CMC FOR 5 YEARS AFTER EXPIRY OF WARRANTY PERIOD. WARRANTY PERIOD SHALL BE ONE YEAR FROM THE DATE OF HANDING OVER AFTER COMMISSIONING & GTR MATERIAL TEST CERTIFICATE: ===== TO BE SUBMITTED ALONG WITH SUPPLY. PAYMENT TERM: ===== * 80% OF PO AMOUNT WILL BE PAID AFTER DELIVERY OF THE ITEMS AS PER PO. * 20% OF PO AMOUNT WILL BE PAID AFTER INSTALLATION / COMMISSIONING / GTR COMPLETION. SECURITY DEPOSIT: ===== 3% OF THE CONTRACT VALUE TO BE FURNISHED WITHIN 21 DAYS FROM THE DATE OF PO BY DD						

डिस्काउंट / DISCOUNT	पैकिंग / PACKING	अग्रिम / FORWARDING	उत्पाद शुल्क / EXCISE DUTY	विशेष. उद्. शुल्क / SPL. EXCISE DUTY	जी.एस.टी. / GST	अधिमार् / SURCHARGE	अति. अधिमार् / ADL. SURCHARGE	कुल / TOTAL
***	***	***	***	***	18.00%	***	***	12697413.0

प्रेषण / DESPATCH BY ROAD
 बरतना / INSURANCE By Vendor at their cost
 * मद्रास खर्च आपको वास्तविक रूप प्रतिकूल किया जावेगा।
 * Freight charges will be reimbursed to you at actuals.
 Ctd Page : 3

PAYMENT AS STATED ABOVE

मार्गदर्शक / INDENTOR:
 कार्य सं / JOB No.: MGR-QC LAB
 113244

दृष्टीकृत / ACCEPTED
 प्रदायक के हस्ताक्षर & दिनांक / Supplier's Signature & Date

कृत मद्रास फर्टिलाइजर्स लिमिटेड / For MADRAS FERTILIZERS LTD.

कृपया हस्ताक्षर का निम्न प्रति को खरीद विभाग में लौटा दें।
 Please sign and return the Vendor Act copy to our Purchase Dept.
 खरीद / PURCHASE
 एक आइ.एस.ओ. 9001 & 14001 कम्पनी
 PA/POFF/AS purchase@madrasfert.co.in, purch@madrasfert
 AN ISO 9001 & 14001 COMPANY

OCP-PUR-R-03

मद्रास फर्टिलाइजर्स लिमिटेड
Madras Fertilizers Limited

(भारत सरकार का उपक्रम / A Government of India Undertaking)
पोस्ट बग नं 2, मंगल, चेन्नई - 600 068 भारत. दूर: 044-25945311
Post Bag No. 2, Manali, Chennai - 600 068 INDIA. Tel : 044-25945311
फैक्स / Fax : 25941621 ईमेल / E-mail : purchase@madrasfert.co.in, pupch@madrasfert.co.in

Please quote our order No. On all Correspondence,
Invoices, Shipping Documents and Packages.
TERMS & CONDITIONS OVERLEAF

GSTIN : 33AAACM5198E1ZK
CIN : L32201TN1966GO1005469
ECC : AAACM5198EXM002

खरीद आदेश / PURCHASE ORDER

प्रदायक के नाम व पता / SUPPLIER'S NAME & ADDRESS

ENVIRONNEMENT S.A. INDIA PVT LT
D 16, 3&4, TTC INDUSTRIAL AREA
MIDC TURBHE
NAVI MUMBAI 400 705
INDIA
MAHARASHTRA 400705

खरीद आदेश सं / PURCHASE ORDER NO.	दिनांक / DATE
TV452024	08-JAN-2021
प्रदायक कोड / SUPPLIER CODE	वस्तुसूचि लेखा कोड / INVENTORY ACCOUNT
E636	143 - 03
वितरण दिनांक / DELIVERY DATE	नाम लेखा कोड / DEBIT ACCOUNT CODE
30-APR-2021	116050000

जांच सं / ENQUIRY NO.	आपकी दर सं दिनांक / YOUR QUOTATION NO./DATE	वितरण शर्तों / DELIVERY TERMS	एम.एफ.एल. में वितरण/DELIVERY AT MFL.
040820/060	AS BELOW	FREE DELIVERY	TS / STORES

क्र. सं / S. NO.	वस्तु कोड / वस्तु विवरण / ARTICLE CODE & DESCRIPTION	इकाई / UNIT	सं / को / QTY	माना / QUANTITY	प्रति दर / RATE PER	इकाई दर / UNIT RATE	मूल्य / VALUE
<p>/ BG. IF BY BG, IN MFL'S APPROVED FORMAT THE VALIDITY SHOULD BE FOR 60 DAYS BEYOND THE DATE OF COMPLETION OF DELIVERY PERIOD. CLAIM PERIOD SHOULD BE ONE YEAR FROM THE DATE OF VALIDITY PERIOD OF BG. SECURITY DEPOSIT AMOUNT: 3% OF PO VALUE WORKS OUT TO RS.3,80,923/- (EXCLUDING GST).</p> <p>LIQUIDATED DAMAGES (LD CLAUSE): =====</p> <p>TIMELY EXECUTION OF THE ORDER PER PURCHASE ORDER TERMS AND DELIVERY OF THE ITEMS WITHIN THE DELIVERY PERIOD AS STIPULATED IN THE PURCHASE ORDER IS VERY IMPORTANT. IF THE ITEMS ARE NOT DELIVERED ON OR BEFORE THE DELIVERY DATE SPECIFIED IN THE PURCHASE ORDER MFL RESERVES THE RIGHT EITHER TO REJECT THE MATERIAL IF SUPPLIED SUBSEQUENTLY, OR TO RECEIVE THE MATERIAL SUBJECT TO IMPOSITION OF PENALTY AT THE RATE OF 0.5% OF THE INVOICE VALUE FOR EVERY WEEK OF DELAY OR PART THEREOF FROM THE SPECIFIED DATE OF DELIVERY</p>							

कटौति / DISCOUNT	पैकिंग / PACKING	अग्रोशुभ / FORWARDING	उत्सनाद शल्क / EXCISE DUTY	विश. उद.शल्क / SPL. EXCISE DUTY	जी.एस.टी. / GST	अधिभार / SURCHARGE	अति. अधिभार / ADL. SURCHARGE	कुल / TOTAL
***	***	***	***	***	18.00%	***	***	12697413.0

* भाडा खर्च आपको वास्तविक रूप में प्रतिपूर्त किया जायेगा।
* Freight charges will be reimbursed to you at actuals.

प्रेषण / DESPATCH BY ROAD
बर्तमा / INSURANCE By Vendor at their cost

Ctd Page : 4

PAYMENT AS STATED ABOVE

गर्वाकर्ता / INDENTOR:
कार्य सं / JOB No.: MGR-QC LAB
113244

द्वीकृत / ACCEPTED
प्रदायक के हस्ताक्षर & दिनांक / Supplier's Signature & Date

मद्रास फर्टिलाइजर्स लिमिटेड / For MADRAS FERTILIZERS LTD.

कृपया हस्ताक्षर का विवरण प्रति को खरीद विभाग में लौटा दें।
Please sign and return the Vendor Ack copy to our Purchase Dept.

एक आई.एस.ओ. 9001 & 14001 कम्पनी
PAYOFF: purchase@madrasfert.co.in, purchase@madrasfert
AN ISO 9001 & 14001 COMPANY

GCP-PUR-R-03



मद्रास फर्टिलाइजर्स लिमिटेड Madras Fertilizers Limited

(भारत सरकार का उपक्रम / A Government of India Undertaking)
पोस्ट बग नं. 2, मंगल, चेन्नई - 600 068 भारत. दूर: 044-25945311
Post Bag No. 2, Mangal, Chennai - 600 068 INDIA. Tel: 044-25945311
फैक्स / Fax: 25941621 ई.मेल / E-mail: purchase@madrasfert.co.in, purch@madrasfert.co.in

Please quote our order No. On all Correspondence,
Invoices, Shipping Documents and Packages.
TERMS & CONDITIONS OVERLEAF

GSTIN : 33AAACM5198E1ZK
CIN : L32201TN1966GO1005469
ECC : AAACM5198EXM002

खरीद आदेश / PURCHASE ORDER

प्रदायक के नाम व पता / SUPPLIER'S NAME & ADDRESS		खरीद आदेश सं / PURCHASE ORDER NO.	दिनांक / DATE
ENVIRONNEMENT S.A. INDIA PVT LT D 16, 3&4, TTC INDUSTRIAL AREA MIDC TURBHE NAVI MUMBAI 400 705 INDIA MAHARASHTRA 400705		TV452024	08-JAN-2021
		प्रदायक कोड / SUPPLIER CODE	वस्तुयुक्ति लेखा कोड / INVENTORY ACCOUNT
		E636	143 - 03
		वितरण दिनांक / DELIVERY DATE	नाम लेखा कोड / DEBIT ACCOUNT CODE
		30-APR-2021	116050000

जोच सं / ENQUIRY NO.	आपकी दर सं दिनांक / YOUR QUOTATION NO./DATE	वितरण शर्त / DELIVERY TERMS	ए.एफ.एल. में वितरण/DELIVERY AT MFL
040820/060	AS BELOW	FREE DELIVERY	TS / STORES

क्र.सं. Sl. No.	वस्तु कोड / वस्तु विवरण / ARTICLE CODE & DESCRIPTION	इकाई UNIT	डि/के D/K	मात्रा/QUANTITY	मूल्य दर RATE PER	कुल मूल्य / UNIT RATE Rs.	मूल्य / VALUE
<p>SUBJECT TO A MAXIMUM OF 5% OF THE PURCHASE ORDER VALUE (PO VALUE INCLUDES BASIC ORDER VALUE +APPLICABLE GST AND FREIGHT & TRANSIT INSURANCE CHARGES (IF APPLICABLE). LD CLAUSE IS APPLICABLE FOR THE PART OF THE QUANTITY, WHICH IS DELIVERED LATE.</p> <p>REF: =====</p> <p>1) TENDER NO: EPRO/MM/CAAQMS STATION/ 040820/060 DT: 06.07.2020</p> <p>2) YOUR QUOTATION NO: ESAI/CHN/082020/54 DT: 28.08.2020</p> <p>3) OUR EMAIL DT: 07.12.2020</p> <p>4) YOUR EMAIL DT: 08.12.2020</p> <p>*** TAC NO: T202000267 DT: 23.12.2020***</p> <p>** NOTE: JOB ORDERS FOR CMC ON RESPECTIVE YEARS WILL BE ISSUED BY USER DEPT/ ACCORDINGLY AFTER THE EXPIRY OF WARRANTY PERIOD.</p> <p>(Rupees One Crores Twenty Six Lakhs Ninety Seven Thousand Four Hundred Thirteen Only)</p>							

छूट / DISCOUNT ***	पैकिंग / PACKING ***	अधिमार्ग / FORWARDING ***	उत्पाद शुल्क / EXCISE DUTY ***	विशेष. उ. शुल्क / SPL. EXCISE DUTY ***	जी.एस.टी. / GST 18.00%	अधिमार्ग / SURCHARGE ***	अति. अधिमार्ग / ADL. SURCHARGE ***	कुल / TOTAL 12697413.0
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प्रेषण / DESPATCH BY ROAD
बदला / INSURANCE BY Vendor at their cost

* भाडा खर्च आपको वास्तविक रूप प्रतिपूर्त किया जायेगा।
* Freight charges will be reimbursed to you at actuals

PAYMENT AS STATED ABOVE

मार्गदर्शक / INDENTOR: MGR-QC LAB
कार्य सं / JOB No.: 113244

द्वितीयकृत / ACCEPTED

प्रदायक के हस्ताक्षर & दिनांक / Supplier's Signature & Date

PA/POFF: [Signature] / 30/01/2021

कृत मद्रास फर्टिलाइजर्स लिमिटेड / For MADRAS FERTILIZERS LTD.

[Signature]

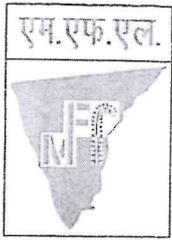
कृपया हस्ताक्षर का विपरीत प्रति को खरीद विभाग में लौटा दें।
Please sign and return the Vendor Act copy to our Purchase Dept.

खरीद / PURCHASE

PA/POFF: [Signature] / 30/01/2021

purchase@madrasfert.co.in, purchase@madrasfert.co.in

- AN ISO 9001 & 14001 COMPANY -



मद्रास फर्टिलाइजर्स लिमिटेड Madras Fertilizers Limited

(भारत सरकार का उपक्रम / A Government of India Undertaking)
पोस्ट बैग सं. 2, मणलि, चेन्नै - 600 068. भारत दूर : 2594 1001 / फैक्स सं. 044-25941010
Post Bag No. 2, Manali, Chennai - 600 068. INDIA. Tel: 2594 1001 / Fax No. 044 -25941010
कार्मिक / Per 25945210 संयंत्र / Plant 25941133 विप. / Mktg 25941285 वित्त/Fin 25941072
Website : www.madrasfert.nic.in email : gmpasec@madrasfert.co.in
CIN : L3220 1TN 1966 GO1005469 GSTIN - 33AAACM5198E1ZK



IN ORIGINAL

15.06.2021

AWARD OF WORK

AOW/ENGG/BOILER II RLNG/04/2021-22

**M/s Thermax Babcock & Wilcox Energy
Solutions Private Limited**

Energy House, D-II Block
Plot No. 38&39, MIDC
Chinchwad, Pune - 411 019

Kind Attn. : Mr. Hariprasath Sundarraman
Dy. Manager - Sales & Marketing

Dear Sir,

Sub : Award of Work for "Design, Engineering, Manufacturing, Inspection, Testing, Packing, Supply, Erection & Commissioning of NG Firing System with RLNG for Utility Boiler II.

We are pleased to place the Award of Work for "Design, Engineering, Manufacturing, Inspection, Testing, Packing, Supply, Erection & Commissioning of NG Firing System with RLNG for Utility Boiler II" at a Total Cost of Rs.7,01,51,000/- (Rupees Seven Crore One Lakh Fifty One Thousand Only) Including GST @18%, as per the Attachment - 1.

1.0 This Award of Work is based on the following documents:

1)	MFL Award of Work No. AOW/ENGG/BOILER II RLNG/04/2021-22 dated 15.06.2021
2)	M/s Thermax - Online Price Bid (Opened on 08.06.2021)
3)	M/s Thermax - Technical & Commercial Bid
4)	MFL Tender No. ESER/ENGG/IP/RLNG UTILITY BOILER II/120321/001 Dt.11/02/2021

All the above documents will form part of this Award of Work. In case of any contradictory provision, the order of preference will be in the same sequence from 1 to 4, item 1 carrying maximum priority.

T. VANNIA PERUMAL
Dy. General Manager
Production & Tech. Services
Madras Fertilizers Limited
Manali, Chennai - 600 068.



2.0 Scope of Supply & Services

The Scope of Supply & Service shall be as per Attachment- 2.

3.0 Price Schedule

The above mentioned Order Value of Rs.7,01,51,000/- (Rupees Seven Crore One Lakh Fifty One Thousand Only) Including GST @18%, as per the Attachment -1, shall be firm till the completion of the job and free from any kind of escalation.

4.0 Payment Terms

Supply Cost:

- ❖ 10% Advance along with AOW against submission of BG for equivalent amount.
- ❖ 10% against submission of Engineering documents like GA, data sheets & P&ID along with BG for equivalent amount.
- ❖ 70% against receipt of entire materials at MFL site
- ❖ Balance 10% (Retention money) will be released after successful completion of GTR.

Service Cost:

- ❖ 10% against site mobilization and submission of BG for equivalent amount.
- ❖ 80% against successful completion of erection at MFL site.
- ❖ Balance 10% (Retention money) will be released on commissioning, Handing over to MFL & obtaining necessary IBR approval, submission of O&M manuals.

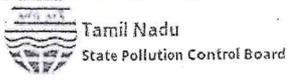
Statutory deductions like Taxes & Duties, TDS, etc, as applicable.

Payments shall be released as per above schedule within 60 days from the date of receipt of Invoice at MFL.

5.0 Time Schedule

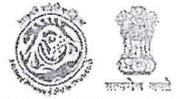
- ❖ Design, Manufacturing, Testing & Supply within 7 months from the date of issuing of Award of Work.
- ❖ 1 Month for Dismantling & Erection (Including RLA Study) from the date of handing over of site by MFL.


T. VANNIA PERUMAL
 Dy. General Manager
 Production & Tech. Services
 Madras Fertilizers Limited



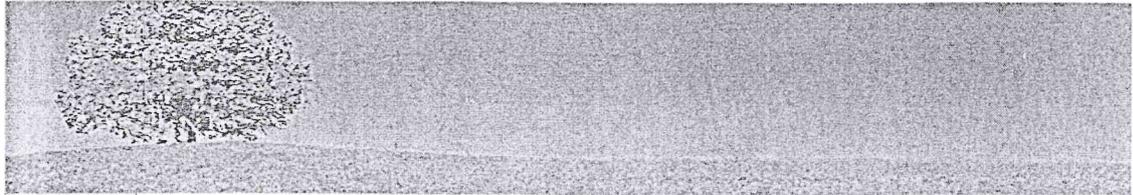
Online Consent Management & Monitoring System

Ministry of Environment, Forest and Climate Change
Government of India



- Home
- Consent Management
- Laboratory Management
- Waste Management
- CESS Management
- Knowledge Base
- Logout

- Apply Authorization
- Waste Management Authorization Applications
- Delete Application
- Filing of Annual Return
- Waste Management Annual Return Application List
- Annual Return Processes
- Application Delete



Welcome MADRAS FERTILIZERS LIMITED

Date : 7-7-2021

Send us your feedback and suggestions



click here for any kind complaints or query



Congratulations! Your Application No. 8621294 is submitted successfully.

Download Form

- General Details
- Hazardous Waste Generation/Handling Details
- HW Generators
- TSDF operators
- Recyclers/Pre-processors/Co-processors/Users
- Documents

Applicant Details

Hazardous waste handling/generation ?	Yes
Occupier Name*:	Harsh Malhotra
Designation*:	Director Technical
Industry/TSDF-Location Postal Address:	PO No 2,Manali,Chennai
Industry Name:	MADRAS FERTILIZERS LIMITED
Category:	RED
Scale of Industry:	Large
Industry Type:	1020-Fertilizer (basic) (excluding formulation)
Already applied for Authorisation? If Yes, please enter the details of previously issued authorization:	YES ▾
Authorization now Applied For :	<input type="radio"/> Fresh <input type="radio"/> Renew <input type="radio"/> Amendment i. Generation <input type="checkbox"/> ii. Collection <input type="checkbox"/> iii. Storage <input type="checkbox"/> iv. Transportation <input type="checkbox"/> v. Reception <input type="checkbox"/> vi. Reuse <input type="checkbox"/> vii. Recycling <input type="checkbox"/> viii. Recovery <input type="checkbox"/> ix. Pre-processing <input type="checkbox"/> x. Co-processing <input type="checkbox"/> xi. Utilisation <input type="checkbox"/> xii. Treatment <input type="checkbox"/> xiii. Disposal <input type="checkbox"/> xiv. Incineration <input type="checkbox"/>
Authorization Required for*:	
Whether the industry works general/2 shifts/round the clock?	Round the clock ▾
Provide copy of the Emergency Response Plan (ERP) which should address procedures for dealing with emergency situations (viz. Spillage or release or fire) as specified in the guidelines of Central Pollution Control Board. Such ERP shall comprise the following, but not limited to:	Attached
<ul style="list-style-type: none"> Containing and controlling incidents so as to minimise the effects and to limit danger to the persons, environment and property; Implementing the measures necessary to protect persons and the environment; Description of the actions which should be taken to control the conditions at events and to limit their consequences, including a description of the safety equipment and resources available; Arrangements for training staff in the duties which they are expected to perform; Arrangements for informing concerned authorities and emergency services; and Arrangements for providing assistance with off-site mitigatory action. 	Attached
Provide undertaking or declaration to comply with all provisions including the scope of submitting bank guarantee in the event of spillage, leakage or fire while handling the hazardous and other waste	Attached
In case of renewal of Authorisation, furnish details of annual returns furnished for last three years including the compliance reports with respect to the conditions of Prior Environmental Clearance, wherever applicable	Attached

Photos for Erection activities of Dedicated RO for CWBD Plant



Annexure: 10 (ii)

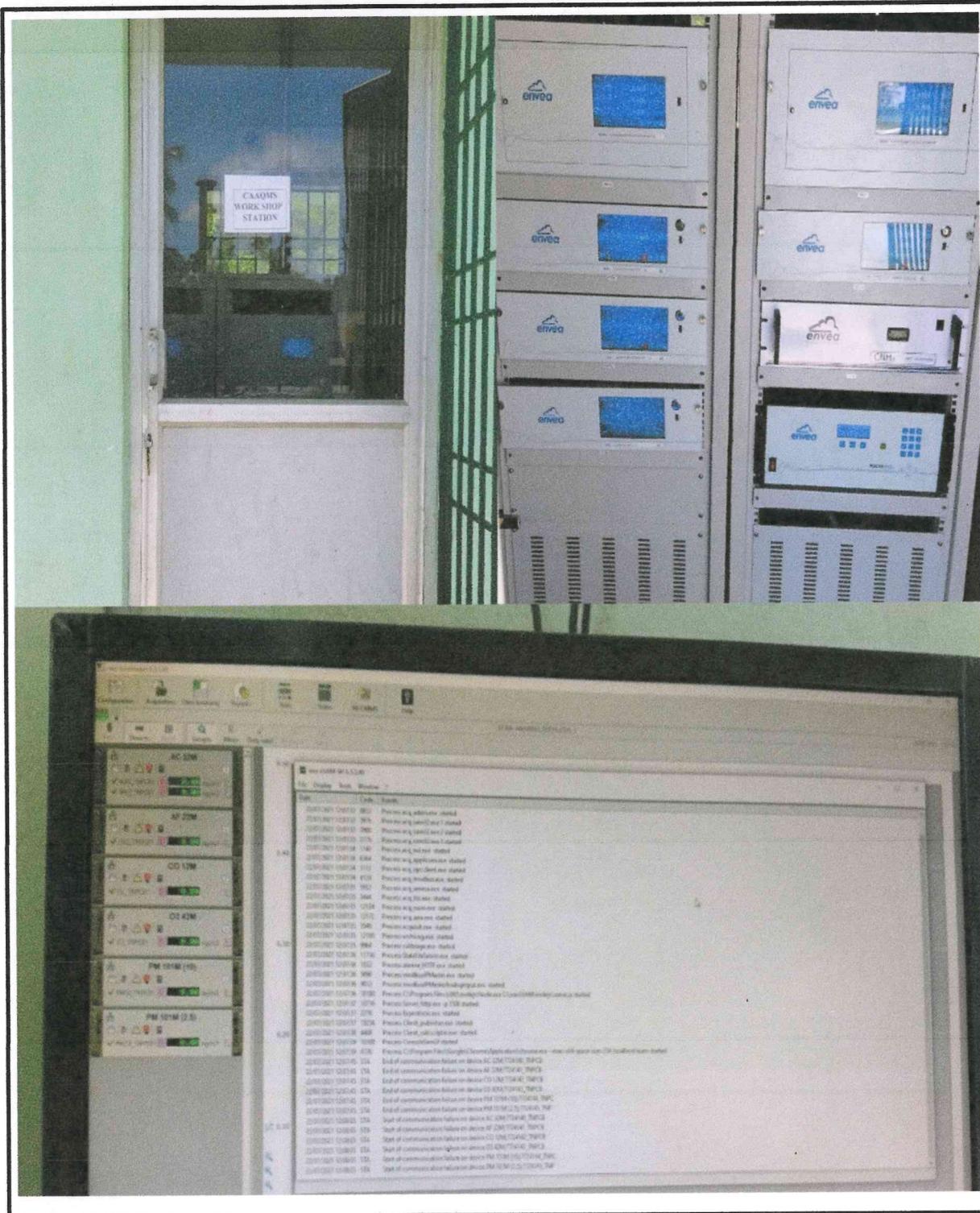
Photos for Erection activities of Dedicated RO for CWBD Plant



Photos of Boiler 1 & 2 CEMS installation



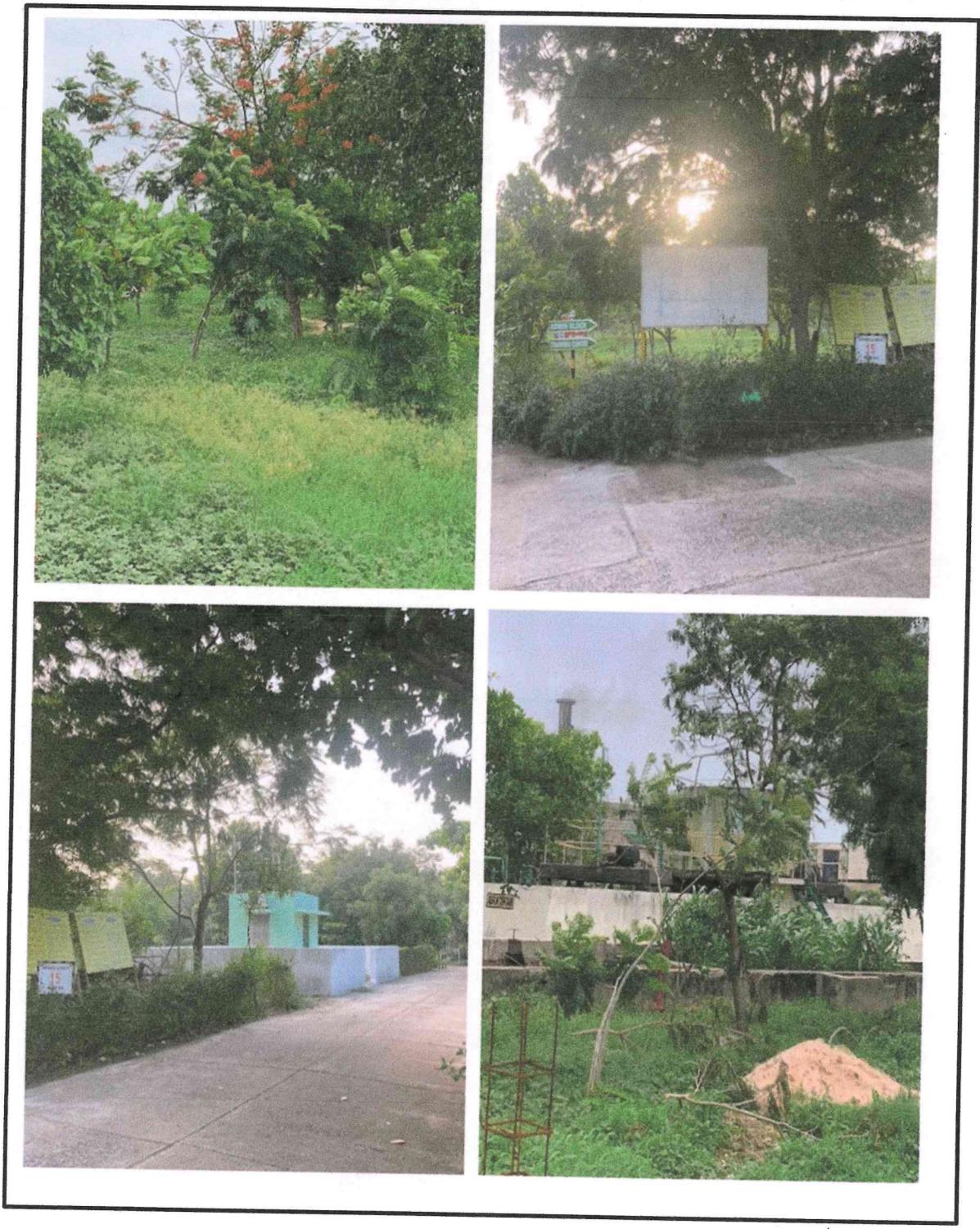
Photos of CAAQMS Installation



Photos of CAAQMS Installation



Photos of Green Belt Area



Photos of Green Belt Area



Investment on Environmental Monitoring

Annexure : 14

Expenses Towards Environmental Assessment /Improvement

Year	Item Description	Value (Rs)
2018-19	Air Quality Survey by TNPCB	91,100
	CAAQMS - AMC	1,48,897
	CAAQMS - CONSUMABLES	2,18,727
	CAAQMS - SPARES	12,72,411
	Stack Monitoring - Third Party	1,41,600
	Ammonia analyser @ urea demister & HF analyser in NPK C stack and uploading Data to TNPCB	40,00,000
2019-20	Air Quality Survey by TNPCB	1,09,700
	Stack Monitoring Kit	1,34,048
	CAAQMS - SPARES	7,15,305
	Detector Tubes	47,082
	Display (LED) Board	64,900
	Flue Gas Analyser	7,67,000
	High Volume Samplers	2,71,117
	Zero Air for Ozone Calibration	14,809
	CAAQMS - Span Gas Cylinders	10,089
	CAAQMS - SPARES	10,77,039
	CAAQMS - AMC	1,63,786
	Stack Monitoring - Third Party	1,86,303
	CAAQMS - Data Upload Software	47,200
	CAAQMS - Data Logger to LED Board	47,200
	LAN to Display Board	49,798
	PM Analyser @ NPK C Stack and uploading Data to TNPCB, Guindy	11,00,000
2020-21	CAAQMS - ETP - Repair Job	49,914
	CAAQMS - Data Upload Subscription	35,400
	CAAQMS - Five years CMC	76,61,288
	Installation of 11 Ammonia Sensors & uploading data to TNPCB	9,94,000
	Installation of PM analyser @ 110 ATA & PCB common stack	4,72,000
	Installation - CEMS @ Boiler 1 & 2 stack @ PM, SOx, NOx analyser	20,65,000
	Procurement of 3 CAAQMS Stations	2,13,06,137
	Installation of Ammonia Analyser at NPK C Train stack	24,78,000
	Grand Total	4,57,39,850

**BEFORE THE NATIONAL GREEN
TRIBUNAL
SOUTHERN ZONE, CHENNAI**

Original Application No.256 of 2020 [SZ]

IN THE MATTER OF

Tribunal on its own motion-SUO MOTU
Based on The News item in News Desk
Magazine Dated 11.11.2020 , Air Pollution
and Industries, “ These Six Industries in
North Chennai are polluting the air For
more than half the year, the North Chennai
Thermal Power Station alone Ennore Port”.

...Applicant(s)

Vs

Union of India and others.

... Respondent(s)

**INDEX TO TYPED SET FILED BY
16th RESPONDENT**

M/S. AIYAR AND DOLIA

COUNSEL FOR 16th RESPONDENT

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