

FUGITIVE EMISSION MONITORING REPORT



Client : Numaligarh Refinery Limited,

Numaligarh, Golaghat

Assam - 785699

Report No & Issue Date:

NIL/2017/NRL/Fugitive/ : 03.10.2017

Monitoring Done By: Netel (India) Limited

LOI Reference No : 4300049479-BHU/18/04/2017

Monitoring Period :September-2017

Sr. No.	Component ID	Average LEL Reading %	Reading % Gas	Reading (ppm)	EPA Correlation Kg/Hour/So	Total Emission kg/annu
Unit : WAX						
Area	Pump -18PA109A Wax Scripper Bottom Pump					
1	Suction Line I/V U/S flange	0	0	0	0.000	0.000
2	I/V gland	0	0	0	0.000	0.000
3	I/V D/S flange	0	0	0	0.000	0.000
4	Drain line I/V Gland	0	0	0	0.000	0.000
5	Drain Line Safety flange	0	0	0	0.000	0.000
6	Discharge line I/V U/S Flange	0	0	0	0.000	0.000
7	I/V gland	0	0	0	0.000	0.000
8	I/V D/S flange	0	0	0	0.000	0.000
9	Pump Seal	0	0	0	0.000	0.000
10	Meter Line I/V gland	0	0	0	0.000	0.000
11	OWS point	0	0	0	0.000	0.000
12	18PA109B Suction Line I/V U/S flange	0	0	0	0.000	0.000
13	I/V gland	0	0	0	0.000	0.000
14	I/V D/S flange	0	0	0	0.000	0.000
15	Drain line I/V Gland	0	0	0	0.000	0.000
16	Drain Line Safety flange	0	0	0	0.000	0.000
17	Discharge line I/V U/S Flange	0	0	0	0.000	0.000
18	I/V gland	0	0	0	0.000	0.000
19	I/V D/S flange	0	0	0	0.000	0.000
20	Pump Seal	0	0	0	0.000	0.000
21	Meter Line 1st I/V gland	0	0	0	0.000	0.000
22	Meter Line 2nd I/V gland	0	0	0	0.000	0.000
23	OWS point	0	0	0	0.000	0.000
24	18PA105A Suction Line I/V U/S flange	0	0	0	0.000	0.000
25	I/V gland	0	0	0	0.000	0.000
26	I/V D/S flange	0	0	0	0.000	0.000
27	Drain line I/V Gland	0	0	0	0.000	0.000
28	Drain Line Safety flange	0	0	0	0.000	0.000
29	Meter Line 1st I/V gland	0	0	0	0.000	0.000
30	Meter Line 2nd I/V gland	0	0	0	0.000	0.000
31	Pump Seal	0	0	0	0.000	0.000
32	18PA105B Suction Line I/V U/S flange	0	0	0	0.000	0.000
33	I/V gland	0	0	0	0.000	0.000
34	I/V D/S flange	0	0	0	0.000	0.000
35	Discharge line I/V gland	0	0	0	0.000	0.000
36	I/V D/S flange	0	0	0	0.000	0.000
37	Drain line I/V Gland	0	0	0	0.000	0.000
38	Drain Line Safety flange	0	0	0	0.000	0.000
39	Meter Line 1st I/V gland	0	0	0	0.000	0.000
40	Meter Line 2nd I/V gland	0	0	0	0.000	0.000

41	OWS point	0	0	0	0.000	0.000
42	18PA105C Suction Line I/V U/S flange	0	0	0	0.000	0.000
43	I/V gland	0	0	0	0.000	0.000
44	I/V D/S flange	0	0	0	0.000	0.000
45	Discharge line I/V U/S Flange	0	0	0	0.000	0.000
46	I/V gland	0	0	0	0.000	0.000
47	I/V D/S flange	0	0	0	0.000	0.000
48	Pump Seal	0	0	0	0.000	0.000
49	Drain line I/V Gland	0	0	0	0.000	0.000
50	Drain Line Safety flange	0	0	0	0.000	0.000
51	Meter Line 1st I/V gland	0	0	0	0.000	0.000
52	Meter Line 2nd I/V gland	0	0	0	0.000	0.000
53	OWS point	0	0	0	0.000	0.000
54	18PA105D Suction Line I/V U/S flange	0	0	0	0.000	0.000
55	I/V gland	0	0	0	0.000	0.000
56	I/V D/S flange	0	0	0	0.000	0.000
57	Pump Seal	0	0	0	0.000	0.000
58	Drain line I/V Gland	0	0	0	0.000	0.000
59	Drain Line Safety flange	0	0	0	0.000	0.000
60	Meter Line 1st I/V gland	0	0	0	0.000	0.000
61	Meter Line 2nd I/V gland	0	0	0	0.000	0.000
62	OWS point	0	0	0	0.000	0.000
63	LV1902 Suction Line I/V U/S flange	0	0	0	0.000	0.000
64	I/V gland	0	0	0	0.000	0.000
65	I/V D/S flange	0	0	0	0.000	0.000
66	Drain line I/V Gland	0	0	0	0.000	0.000
67	Drain Line Safety flange	0	0	0	0.000	0.000
68	1902CV gland	0	0	0	0.000	0.000
69	Discharge Line I/V gland	0	0	0	0.000	0.000
70	Discharge Line Drain Line I/V gland	0	0	0	0.000	0.000
71	Drain Line Safety flange	0	0	0	0.000	0.000
72	LV2002 Suction Line I/V U/S flange	0	0	0	0.000	0.000
73	I/V gland	0	0	0	0.000	0.000
74	I/V D/S flange	0	0	0	0.000	0.000
75	Drain line I/V Gland	0	0	0	0.000	0.000
76	Drain Line Safety flange	0	0	0	0.000	0.000
77	LV2002 CV gland	0	0	0	0.000	0.000
78	Discharge Line I/V gland	0	0	0	0.000	0.000
79	Discharge Line Drain Line I/V gland	0	0	0	0.000	0.000
80	Drain Line Safety flange	0	0	0	0.000	0.000
81	LV1802 Suction Line I/V gland	0	0	0	0.000	0.000
82	LV1802 CV gland	0	0	0	0.000	0.000
83	Discharge Line I/V gland	0	0	0	0.000	0.000
84	Drain line I/V Gland	0	0	0	0.000	0.000
85	Drain Line Safety flange	0	0	0	0.000	0.000
86	PV2401 Suction Line I/V U/S Flange	0	0	0	0.000	0.000
87	I/V gland	0	0	0	0.000	0.000
88	I/V D/S flange	0	0	0	0.000	0.000
89	Drain line I/V Gland	0	0	0	0.000	0.000
90	Drain Line Safety flange	0	0	0	0.000	0.000
91	PV2401 Suction Line I/V U/S Flange	0	0	0	0.000	0.000
92	PV2401 CV gland	0	0	0	0.000	0.000

93	CV D/S flange	0	0	0	0.000	0.000
94	Discharge line I/V U/S Flange	0	0	0	0.000	0.000
95	I/V gland	0	0	0	0.000	0.000
96	I/V D/S flange	0	0	0	0.000	0.000
97	Drain line I/V Gland	0	0	0	0.000	0.000
98	Drain Line Safety flange	0	0	0	0.000	0.000
99	NRV U/S flange	0	0	0	0.000	0.000
100	NRV D/S flange	0	0	0	0.000	0.000
101	Meter Line 1st I/V gland	0	0	0	0.000	0.000
102	Meter Line 2nd I/V gland	0	0	0	0.000	0.000
103	LV1702 Suction Line I/V gland	0	0	0	0.000	0.000
104	Drain line I/V Gland	0	0	0	0.000	0.000
105	Drain Line Safety flange	0	0	0	0.000	0.000
106	LV1702 CV gland	0	0	0	0.000	0.000
107	CV D/S flange	0	0	0	0.000	0.000
108	Discharge line I/V gland	0	0	0	0.000	0.000
109	Discharge line flange	0	0	0	0.000	0.000
110	Drain line I/V Gland	0	0	0	0.000	0.000
111	Drain Line Safety flange	0	0	0	0.000	0.000
112	LV1602 Suction Line I/V gland	0	0	0	0.000	0.000
113	Drain line I/V Gland	0	0	0	0.000	0.000
114	Drain Line Safety flange	0	0	0	0.000	0.000
115	LV1602 CV gland	0	0	0	0.000	0.000
116	CV D/S flange	0	0	0	0.000	0.000
117	Discharge line I/V gland	0	0	0	0.000	0.000
118	Discharge line Drain Line I/V gland	0	0	0	0.000	0.000
119	Drain Line Safety flange	0	0	0	0.000	0.000
120	18PA114A Suction Line I/V U/S flange	0	0	0	0.000	0.000
121	I/V gland	0	0	0	0.000	0.000
122	I/V D/S flange	0	0	0	0.000	0.000
123	Discharge line I/V U/S flange	0	0	0	0.000	0.000
124	I/V gland	0	0	0	0.000	0.000
125	I/V D/S flange	0	0	0	0.000	0.000
126	NRV U/S flange	0	0	0	0.000	0.000
127	NRV D/S flange	0	0	0	0.000	0.000
128	Pump Seal	0	0	0	0.000	0.000
129	Meter Line 1st I/V gland	0	0	0	0.000	0.000
130	Meter Line 2nd I/V gland	0	0	0	0.000	0.000
131	18PA114B Suction Line I/V U/S flange	0	0	0	0.000	0.000
132	I/V gland	0	0	0	0.000	0.000
133	I/V D/S flange	0	0	0	0.000	0.000
134	Discharge line I/V U/S flange	0	0	0	0.000	0.000
135	I/V gland	0	0	0	0.000	0.000
136	I/V D/S flange	0	0	0	0.000	0.000
137	NRV U/S flange	0	0	0	0.000	0.000
138	NRV D/S flange	0	0	0	0.000	0.000
139	Pump Seal	0	0	0	0.000	0.000
140	Meter Line 1st I/V gland	0	0	0	0.000	0.000
141	Meter Line 2nd I/V gland	0	0	0	0.000	0.000
142	18PA104A Suction Line I/V U/S flange	0	0	0	0.000	0.000
143	I/V gland	0	0	0	0.000	0.000
144	I/V D/S flange	0	0	0	0.000	0.000

145	Drain line I/V Gland	0	0	0	0.000	0.000
146	Drain Line Safety flange	0	0	0	0.000	0.000
147	Discharge line I/V U/S flange	0	0	0	0.000	0.000
148	I/V gland	0	0	0	0.000	0.000
149	I/V D/S flange	0	0	0	0.000	0.000
150	Pump Seal	0	0	0	0.000	0.000
151	Meter Line 1st I/V gland	0	0	0	0.000	0.000
152	Meter Line 2nd I/V gland	0	0	0	0.000	0.000
153	18PA104BSuction Line I/V U/S flange	0	0	0	0.000	0.000
154	I/V gland	0	0	0	0.000	0.000
155	I/V D/S flange	0	0	0	0.000	0.000
156	Drain line I/V Gland	0	0	0	0.000	0.000
157	Drain Line Safety flange	0	0	0	0.000	0.000
158	Discharge line I/V U/S flange	0	0	0	0.000	0.000
159	I/V gland	0	0	0	0.000	0.000
160	I/V D/S flange	0	0	0	0.000	0.000
161	Pump Seal	0	0	0	0.000	0.000
162	Meter Line 1st I/V gland	0	0	0	0.000	0.000
163	Meter Line 2nd I/V gland	0	0	0	0.000	0.000
164	18PA104CSuction Line I/V U/S flange	0	0	0	0.000	0.000
165	I/V gland	0	0	0	0.000	0.000
166	I/V D/S flange	0	0	0	0.000	0.000
167	Drain line I/V Gland	0	0	0	0.000	0.000
168	Drain Line Safety flange	0	0	0	0.000	0.000
169	Discharge line I/V U/S flange	0	0	0	0.000	0.000
170	I/V gland	0	0	0	0.000	0.000
171	I/V D/S flange	0	0	0	0.000	0.000
172	Pump Seal	0	0	0	0.000	0.000
173	Meter Line 1st I/V gland	0	0	0	0.000	0.000
174	Meter Line 2nd I/V gland	0	0	0	0.000	0.000
175	18PA104DSuction Line I/V U/S flange	0	0	0	0.000	0.000
176	I/V gland	0	0	0	0.000	0.000
177	I/V D/S flange	0	0	0	0.000	0.000
178	Drain line I/V Gland	0	0	0	0.000	0.000
179	Drain Line Safety flange	0	0	0	0.000	0.000
180	Discharge line I/V U/S flange	0	0	0	0.000	0.000
181	I/V gland	0	0	0	0.000	0.000
182	I/V D/S flange	0	0	0	0.000	0.000
183	Pump Seal	0	0	0	0.000	0.000
184	Meter Line 1st I/V gland	0	0	0	0.000	0.000
185	Meter Line 2nd I/V gland	0	0	0	0.000	0.000
186	18PA104ESuction Line I/V U/S flange	0	0	0	0.000	0.000
187	I/V gland	0	0	0	0.000	0.000
188	I/V D/S flange	0	0	0	0.000	0.000
189	Drain line I/V Gland	0	0	0	0.000	0.000
190	Drain Line Safety flange	0	0	0	0.000	0.000
191	Discharge line I/V U/S flange	0	0	0	0.000	0.000
192	I/V gland	0	0	0	0.000	0.000
193	I/V D/S flange	0	0	0	0.000	0.000
194	Pump Seal	0	0	0	0.000	0.000
195	Meter Line 1st I/V gland	0	0	0	0.000	0.000
196	Meter Line 2nd I/V gland	0	0	0	0.000	0.000

197	18PA104FSuction Line I/V U/S flange	0	0	0	0.000	0.000
198	I/V gland	0	0	0	0.000	0.000
199	I/V D/S flange	0	0	0	0.000	0.000
200	Drain line I/V Gland	0	0	0	0.000	0.000
201	Drain Line Safety flange	0	0	0	0.000	0.000
202	Discharge line I/V U/S flange	0	0	0	0.000	0.000
203	I/V gland	0	0	0	0.000	0.000
204	I/V D/S flange	0	0	0	0.000	0.000
205	Pump Seal	0	0	0	0.000	0.000
506	Meter Line 1st I/V gland	0	0	0	0.000	0.000
207	Meter Line 2nd I/V gland	0	0	0	0.000	0.000