

ORIENT CRAFT LIMITED

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Environment Test Report /F/ 48

Environmental Management System

Rev : 00

Third Party Environment Test Report Comparison

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AMBIENT AIR (MAIN GATE)

S.NO.	PARAMETER	TEST METHODS	UNITS	LIMIT AS PER EPA μ	RESULTS	
					10.05.2016	05.11.2016
1	SUSPENDED PARTICULATE MATTER	AS PER TESTING	microg/m3	500.0	313	376
2	RESPIRABLE PARTICULATE MATTER	AS PER TESTING	microg/m3	N.S	49.4	58.4
3	SULPHUR DIOXIDE	AS PER TESTING	microg/m3	80.0	32.6	31.1
4	OXIDE OF NITROGEN	AS PER TESTING	microg/m3	80.0	47.8	49.3
5	CARBON MONOXIDE as CO	AS PER TESTING	microg/m3	N.S	0.8	0.4

WORK PLACE AIR (DG SET AREA)

S.NO.	PARAMETER	TEST METHODS	UNITS	LIMIT AS PER EPA μ	RESULTS	
					10.05.2016	05.11.2016
1	SUSPENDED PARTICULATE MATTER	AS PER TESTING	microg/m3	500.0	345	379
2	RESPIRABLE PARTICULATE MATTER	AS PER TESTING	microg/m3	N.S	48.2	51.2
3	SULPHUR DIOXIDE	AS PER TESTING	microg/m3	80.0	38.7	41.6
4	OXIDE OF NITROGEN	AS PER TESTING	microg/m3	80.0	44.3	48.7
5	CARBON MONOXIDE as CO	AS PER TESTING	microg/m3	N.S	1.2	1

WORK PLACE AIR (INSIDE PRODUCTION FLOOR)

S.NO.	PARAMETER	TEST METHODS	UNITS	permissible limits	RESULTS	
					10.05.2016	05.11.2016
1	SUSPENDED PARTICULATE MATTER	AS PER TESTING	microg/m3	500.0	308	337
2	RESPIRABLE PARTICULATE MATTER	AS PER TESTING	microg/m3	N.S	44.6	51.4
3	SULPHUR DIOXIDE	AS PER TESTING	microg/m3	80.0	29.8	33.2
4	OXIDE OF NITROGEN	AS PER TESTING	microg/m3	80.0	42.6	48.7
5	CARBON MONOXIDE as CO	AS PER TESTING	microg/m3	N.S	1	1.1

WORK PLACE AIR (INSIDE CHEMICAL STORE)

S.NO.	PARAMETER	TEST METHODS	UNITS	permissible limits	RESULTS	
					10.05.2016	05.11.2016
1	SUSPENDED PARTICULATE MATTER	AS PER TESTING	microg/m3	500.0	296	314
2	RESPIRABLE PARTICULATE MATTER	AS PER TESTING	microg/m3	N.S	47.2	51.3
3	SULPHUR DIOXIDE	AS PER TESTING	microg/m3	80.0	39.1	40.5
4	OXIDE OF NITROGEN	AS PER TESTING	microg/m3	80.0	46.7	48.4
5	CARBON MONOXIDE as CO	AS PER TESTING	microg/m3	N.S	0.25	0.4

Stack Emission (Stack Boiler- 2 TON)

S.NO.	PARAMETER	TEST METHODS	UNITS	Limits AS PER EPA*	RESULTS	
					10.05.2016	05.11.2016
1	SUSPENDED PARTICULATE MATTER	IS 11255 P-1	mg/Nm3	1200.0	163	179
2	OXIDE OF NITROGEN	IS 11255 P-7	mg/Nm3	...	52.4	54.4
3	Sulphur Dioxide (as SO2)	IS 11255 P-2	mg/Nm3	...	43.2	48.6
4	CARBON DIOXIDE as CO2	ORSAT	%	...	1	1.2

Stack Emission (830-1st KVA)

S.NO.	PARAMETER	TEST METHODS	UNITS	Limits AS PER EPA*	RESULTS	
					10.05.2016	05.11.2016
1	Suspended Particulate Matter	IS 11255 P-1	mg/Nm ³	75.0	62.3	57.8
2	Sulphur Dioxide (as SO2)	IS 11255 P-7	mg/Nm ³	N.S	28.1	24.4
3	Oxides of Nitrogen (as NOX)	IS 11255 P-2	mg/Nm ³	120.0	40.5	47.9
4	Carbon di-oxide (as CO2)	ORSAT	%	..	0.15	0.1

Stack Emission (830-2nd KVA)

S.NO.	PARAMETER	TEST METHODS	UNITS	Limits AS PER EPA*	RESULTS	
					10.05.2016	05.11.2016
1	Suspended Particulate Matter	IS 11255 P-1	mg/Nm ³	75.0	64.8	62.5
2	Sulphur Dioxide (as SO ₂)	IS 11255 P-7	mg/Nm ³	N.S	27.2	29.3
3	Oxides of Nitrogen (as NO _x)	IS 11255 P-2	mg/Nm ³	120.0	43.4	46.5
4	Carbon di-oxide (as CO ₂)	ORSAT	%	..	0.25	0.2

Stack Emission (320 KVA)

S.NO.	PARAMETER	TEST METHODS	UNITS	Limits AS PER EPA*	RESULTS	
					10.05.2016	05.11.2016
1	Suspended Particulate Matter	IS 11255 P-1	mg/Nm ³	75.0	57.4	61.2
2	Sulphur Dioxide (as SO ₂)	IS 11255 P-7	mg/Nm ³	N.S	39.3	36.5
3	Oxides of Nitrogen (as NO _x)	IS 11255 P-2	mg/Nm ³	120.0	41.6	42.8
4	Carbon di-oxide (as CO ₂)	ORSAT	%	..	0.15	0.1

EFFLUENT AFTER TREATMENT (OUT LET)

S.NO.	PARAMETER	TEST METHODS	UNITS	Limits AS PER EPA*	RESULTS	
					11.07.2016	05.11.2016
1	COLOUR	AS PER SAMPLE	HAZEN	NS	PALE	PALE
2	ODOUR	AS PER SAMPLE	.....	NS	MILD	MILD
3	COD (as O ₂)	AS PER SAMPLE	mg/L	250.0	73	73
4	BOD (@27 ⁰ C FOR 3 Days)	AS PER SAMPLE	mg/L	30.0	21	22
5	PH	AS PER SAMPLE	.....	5.5-9.0	7.96	8.14
6	Total Suspended solids	AS PER SAMPLE	mg/L	100.0	14	68
7	Total Dissolved Solids	AS PER SAMPLE		---	1345	1405
8	Oil & Grease	AS PER SAMPLE	mg/L	10.0	0.8	0.7

EFFLUENT BEFORE TREATMENT (IN LET)

S.NO.	PARAMETER	TEST METHODS	UNITS	Limits AS PER EPA*	RESULTS	
					11.07.2016	05.11.2016
1	COLOUR	AS PER SAMPLE	HAZEN	NS	PALE	TURBID
2	ODOUR	AS PER SAMPLE	.....	NS	SEPTIC	OBJECTIONABLE
3	COD (as O ₂)	AS PER SAMPLE	mg/L	250.0	409	346
4	BOD (@27 ⁰ C FOR 3 Days)	AS PER SAMPLE	mg/L	30.0	135	137
5	PH	AS PER SAMPLE	.....	5.5-9.0	8.48	7.96
6	Total Suspended solids	AS PER SAMPLE	mg/L	200.0	112	145
7	Total Dissolved Solids	AS PER SAMPLE		---	1312	1372
8	Oil & Grease	AS PER SAMPLE	mg/L	10.0	6.5	3.6

EFFLUENT TREATMENT INLET (METALLIC)

S.NO.	PARAMETER	TEST METHODS	UNITS	Limits AS PER EPA*	RESULTS	
					12.05.2016	
1	LEAD (AS PB)	APHA	mg/L	NIL	0.25	
2	FLOURIDE as F	IS3025 PART 60	mg/L	NIL	1.58	
3	Arsenic (as As)	IS3025 PART 37	mg/L	NIL	<0.05	
4	ZINC as Zn	IS3025 PART 49	mg/L	NIL	2.87	
5	Chromium as Cr	IS3025 PART 52	mg/L	NIL	N.D	
6	MANGANESE as Mn	APHA	mg/L	NIL	0.05	
7	MOLYBDENUM as Mo	IS 3025	mg/L	NIL	N.D	
8	BORON as B	IS 3025	mg/L	NIL	N.D	
9	NICKEL (as Ni)	IS 3025	mg/L	NIL	N.D	
10	COPPER s Cu	IS 3025	mg/L	NIL	0.1	

EFFLUENT TREATMENT OUTLET (METALLIC)

S.NO.	PARAMETER	TEST METHODS	UNITS	Limits AS PER EPA*	RESULTS	
					12.05.2016	
1	LEAD (AS PB)	APHA	mg/L	NIL	0.3	
2	FLOURIDE as F	IS3025 PART 60	mg/L	NIL	1.14	
3	Arsenic (as As)	IS3025 PART 37	mg/L	NIL	<0.05	
4	ZINC as Zn	IS3025 PART 49	mg/L	NIL	0.42	
5	Chromium as Cr	IS3025 PART 52	mg/L	NIL	N.D	
6	MANGANESE as Mn	APHA	mg/L	NIL	0.01	
7	MOLYBDENUM as Mo	IS 3025	mg/L	NIL	N.D	
8	BORON as B	IS 3025	mg/L	NIL	N.D	
9	NICKEL (as Ni)	IS 3025	mg/L	NIL	N.D	
10	COPPER s Cu	IS 3025	mg/L	NIL	0.02	