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International
Independent Inspection
&
Testing Company

TEST REPORT

Report No.: GCGNZD2100005

ULR No. TC637121000019644P

Dated: 19 March 2021

Applicant : **WINSOME TEXTILE INDUSTRIES**

Contact Person : Mr. Sumeet Gill

Address : Plot No.-1, Industrial Area, Sai Road, Baddi

Sample : The Submitted sample is Waste Water.

Date of Sampling : 03/03/2021

Sampling Location : ETP Plant

Sample Collected by : Mr. Naveen Gujran

Sampling Protocol : In-house (SOP NO.: GC-SOP-ANA-037 based on ISO: 5667)

Sample Quantity : 10 liters (Inlet Waste Water)

Weather Condition : Sunny

Factory Representative : Mr. R.K Verma

Type of Industry : Textile Spinning and Yarn Dyeing

Name of Factory : Winsome Textile Industries Ltd.

Sample Received Date : 04/03/2021

Type of Discharge : Indirect Discharge

Type of ETP : Continuous (Chemical treatment)

Type of Sampling : Composite

Sample Description : A : ETP Inlet

Date of Analysis : 04 Mar 2021 to 19 Mar 2021

Remark : The Inlet waste water discharge is not the final discharge as it will go for further treatment in CETP.

For and on behalf of
Geo-Chem Laboratories Pvt. Ltd.

Dr. Shobhit Shrivastav
Lab Manager

Test result is drawn according to the kind and extent tests performed.

Without permission of the tests centre, this report is not permitted to be duplicated in extracts. This report does not entitle to carry any safety mark on this or similar products. This test report represents the test parameters as requested by the customer based on submitted sample only.

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Result Summary (MRSL TEST)

Sl. No.	Test Item	A	Conclusion
1	Alkyphenol (AP) & Alkyphenol ethoxylates (APEOs)	ND	Pass
2	Chlorobenzenes & Chlorotoluenes	ND	Pass
3	Chlorophenols	ND	Pass
4	Hazardous Dyes-Azo dyes / Amines	ND	Pass
5	Hazardous Dyes-Carcinogenic dyestuff	ND	Pass
6	Hazardous Dyes-Allergenic disperse dyestuff	ND	Pass
7	Flame retardants	ND	Pass
8	Glycols	ND	Pass
9	Halogenated Solvents	ND	Pass
10	Organotin compounds	ND	Pass
11	PFCs (Perfluorocarbon / Polyfluorinated Compounds)	ND	Pass
12	Phthalates	ND	Pass
13	Polycyclic Aromatic Hydrocarbons (PAHs)	ND	Pass
14	VOC	ND	Pass

Remark:

1. ND: Not Detected, D: Detected

Result Summary (Conventional Test)

S. No.	Test Parameter	Remark (outlet water)	Conclusion	
			ZDHC Discharge Limit	CETP Requirement
1	Temperature [#]	Refer Result	-	Pass
2	TSS ^{\$}	Refer Result	-	Pass
3	COD ^{\$}	Refer Result	-	Pass
4	Total N ^{\$}	Refer Result	-	Not Specified
5	pH	Refer Result	-	Pass
6	Colour	Refer Result	-	Not Specified
7	BOD ^{\$}	Refer Result	-	Pass
8	Ammonia N ^{\$}	Refer Result	-	Not Specified
9	Total P ^{\$}	Refer Result	-	Not Specified
10	O&G ^{\$}	Refer Result	-	Pass
11	Phenol ^{\$}	Refer Result	-	Not Specified
12	Coliform (per 100ml) ^{\$}	Refer Result	-	Not Specified
13	Persistent foam	Refer Result	-	Not Specified
14	Cyanide ^{\$}	Refer Result	-	Not Specified
15	Sulphite ^{\$}	Refer Result	-	Not Specified
16	Sulphide ^{\$}	Refer Result	-	Not Specified
17	Antimony	ND	Pass	Not Specified
18	Total Chromium	ND	Pass	Not Specified
19	Cobalt	ND	Pass	Not Specified
20	Copper	ND	Pass	Not Specified
21	Nickel	ND	Pass	Not Specified
22	Silver	ND	Pass	Not Specified
23	Zinc	ND	Pass	Not Specified
24	Arsenic	ND	Pass	Not Specified
25	Cadmium	ND	Pass	Not Specified
26	Chromium (VI)	ND	Pass	Not Specified
27	Lead	ND	Pass	Not Specified
28	Mercury	ND	Pass	Not Specified

Remark:

2. ND: Not Detected, D: Detected, ND: Not Applicable, NA: Not Applicable
3. # : Result were recorded at the time of sampling
4. \$: Test was subcontracted to ISO: 17025 accredited laboratory

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MRS� Test Result

1) Alkylphenol (AP) & Alkylphenol ethoxylates (APEOs)				
Test Method: With Reference to ISO 18857-2, ISO 18254-1, followed by LCMS analysis				
Substance name	CAS No.	Reporting limit	Result	ZDHC Discharge Limit
			A (µg/L)	
Nonylphenol (n-nonyl and iso-nonyl)	11066-49-2, 25154-52-3, 104-40-5, 90481-04-2, 84852-15-3	1 µg/L	ND	Water : 5.0 µg/L
Octylphenol (n-octyl and iso-octyl)	140-66-9, 27193-28-8, 1806-26-4	1 µg/L	ND	
Nonylphenoethoxylates (NPEO) (n-nonyl and iso-nonyl)	9016-45-9, 26027-38-3, 68412-54-4, 127087-87-0, 37205-87-1	1 µg/L	ND	
Octylphenoethoxylates (OPEO) (n-octyl and iso-octyl)	9002-93-1, 9036-19-5, 68987-90-6	1 µg/L	ND	

Remark: ND: Not Detected,

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2) Chlorobenzenes & ChloroToluene				
Test Method: With reference USEPA 8260B & 8270D, Solvent extraction with GCMS analysis				
Substance name	CAS No.	Reporting limit	Result	ZDHC Discharge Limit
			A (µg/L)	
Monochlorobenzene	108-90-7	0.1µg/L	ND	Water : 0.2 µg/L
Dichlorobenzenes	-	-	-	
1,2-Dichlorobenzene	95-50-1	0.1µg/L	ND	
1,3-Dichlorobenzene	541-73-1	0.1µg/L	ND	
1,4-Dichlorobenzene	106-46-7	0.1µg/L	ND	
Trichlorobenzenes	-	-	-	
1,2,3-Trichlorobenzene	87-61-6	0.1µg/L	ND	
1,2,4-Trichlorobenzene	120-82-1	0.1µg/L	ND	
1,3,5-Trichlorobenzene	108-70-3	0.1µg/L	ND	
Tetrachlorobenzene	-	-	-	
1,2,3,4-Tetrachlorobenzene	634-66-2	0.1µg/L	ND	
1,2,3,5-Tetrachlorobenzene	634-90-2	0.1µg/L	ND	
1,2,4,5-Tetrachlorobenzene	95-94-3	0.1µg/L	ND	
Pentachlorobenzenes	608-93-5	0.1µg/L	ND	
Hexachlorobenzene	118-74-1	0.1µg/L	ND	
Chlorinated Toluenes (as solvents/biocides, from dyes production, Chemical intermediates, Antifelting)				
Chlorotoluene	Various	0.1µg/L	-	
2-Chlorotoluene	95-49-8	0.1µg/L	ND	
3-Chlorotoluene	108-41-8	0.1µg/L	ND	
4-Chlorotoluene	106-43-4	0.1µg/L	ND	
Dichlorotoluene	Various	-	-	
2,3-Dichlorotoluene	32768-54-0	0.1µg/L	ND	
2,4-Dichlorotoluene	95-73-8	0.1µg/L	ND	
2,5-Dichlorotoluene	19398-61-9	0.1µg/L	ND	
2,6-Dichlorotoluene	118-69-4	0.1µg/L	ND	
3,4-Dichlorotoluene	95-75-0	0.1µg/L	ND	
3,5-Dichlorotoluene	25186-47-4	0.1µg/L	ND	
Trichlorotoluene	Various	-	-	
2,3,6-Trichlorotoluene	2077-46-5	0.1µg/L	ND	
2,4,5-Trichlorotoluene	6639-30-1	0.1µg/L	ND	
2,4,6-Trichlorotoluene	23749-65-7	0.1µg/L	ND	
2,3,4-Trichlorotoluene	7359-72-0	0.1µg/L	ND	
3,4,5-trichlorotouene	2014-83-7	0.1µg/L	ND	
Tetrachlorotoluene	Various	-	-	
2,3,4,5- Tetrachlorotoluene	76057-12-0	0.1µg/L	ND	
2,3,5,6- Tetrachlorotoluene	29733-70-8	0.1µg/L	ND	
2,3,4,6- Tetrachlorotoluene	875-40-1	0.1µg/L	ND	
Pentachlorotoluene	877-11-2	0.1µg/L	ND	

Remark: ND: Not Detected

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3) Chlorophenols				
Test Method: With reference USEPA 8270D, Solvent extraction, followed by GCMS analysis				
Substance name	CAS No.	Reporting limit	Result	ZDHC Discharge Limit
			A (µg/L)	
Monochlorophenols	-	-	-	Water : 0.5 µg/L
2-Chlorophenol	95-57-8	0.5µg/L	ND	
3-Chlorophenol	108-43-0	0.5µg/L	ND	
4-Chlorophenol	106-48-9	0.5µg/L	ND	
Dichlorophenols (DiCP)	-	-	-	
2,3-dichlorophenol	576-24-9	0.5µg/L	ND	
2,4-dichlorophenol	120-83-2	0.5µg/L	ND	
2,5-Dichlorophenol	583-78-8	0.5µg/L	ND	
3,4-dichlorophenol	95-77-2	0.5µg/L	ND	
3,5-dichlorophenol	591-35-5	0.5µg/L	ND	
2,6-Dichlorophenol	87-65-0	0.5µg/L	ND	
Trichlorophenol	-	-	-	
2,3,4-Trichlorophenol	15950-66-0	0.5µg/L	ND	
2,3,5-Trichlorophenol	933-78-8	0.5µg/L	ND	
2,3,6-Trichlorophenol	933-75-5	0.5µg/L	ND	
2,4,5-Trichlorophenol	95-95-4	0.5µg/L	ND	
2,4,6-Trichlorophenol	88-06-2		ND	
3,4,5-Trichlorophenol	609-19-8	0.5µg/L	ND	
Tetrachlorophenol	-	-	-	
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5µg/L	ND	
2,3,4,6-Tetrachlorophenol	58-90-2	0.5µg/L	ND	
2,3,5,6-Tetrachlorophenol	935-95-5	0.5µg/L	ND	
Pentachlorophenol	87-86-5	0.5µg/L	ND	

Remark: ND: Not Detected

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4) Azo dyes / Amines				
Test Method: With reference to EN 14362-1&3 and followed by GCMS &/or LCMS Analysis				
Substance name	CAS No.	Reporting limit	Result	ZDHC Discharge Limit
			A (µg/L)	
4-Aminodiphenyl	92-67-1	0.1µg/L	ND	Water : 0.1 µg/L
Benzidine	92-87-5	0.1µg/L	ND	
4-Chloro-o-toluidine	95-69-2	0.1µg/L	ND	
2-Naphthylamine	91-59-8	0.1µg/L	ND	
o-Aminoazotoluene (C.I. Solvent Yellow 3, C.I. 11160)	97-56-3	0.1µg/L	ND	
2-Amino-4-nitrotoluene	99-55-8	0.1µg/L	ND	
p-Chloroaniline	106-47-8	0.1µg/L	ND	
2,4-Diaminoaniso	615-05-4	0.1µg/L	ND	
4,4'-Diaminodiphenylmethane	101-77-9	0.1µg/L	ND	
3,3'-Dichlorobenzidine	91-94-1	0.1µg/L	ND	
3,3'-Dimethoxybenzidine	119-90-4	0.1µg/L	ND	
3,3'-Dimethylbenzidine	119-93-7	0.1µg/L	ND	
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	0.1µg/L	ND	
p-Cresidine; 6-methoxy-m-toluidine	120-71-8	0.1µg/L	ND	
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	0.1µg/L	ND	
4,4'-Oxydianiline	101-80-4	0.1µg/L	ND	
4,4'-Thiodianiline	139-65-1	0.1µg/L	ND	
o-Toluidine	95-53-4	0.1µg/L	ND	
2,4-Toluyldiamine	95-80-7	0.1µg/L	ND	
2,4,5-Trimethylaniline	137-17-7	0.1µg/L	ND	
o-Anisidine (2-Methoxyaniline)	90-04-0	0.1µg/L	ND	
C.I. Solvent Yellow 1 (p-Aminoazobenzol (pure))	60-09-3	0.1µg/L	ND	
2,4-Xylidine	95-68-1	0.1µg/L	ND	
2,6-Xylidine	87-62-7	0.1µg/L	ND	

Remark: ND: Not Detected

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5) Carcinogenic Dyes				
Test Method: Solvent extraction with LCMS analysis				
Substance name	CAS No.	Reporting limit	Result	ZDHC Discharge Limit
			A (µg/L)	
C.I. Acid Red 26 (C.I. 16150)	3761-53-3	0.1µg/L	ND	Water : 500 µg/L
C.I. Basic Blue 26	2580-56-5	0.1µg/L	ND	
C.I. Basic Red 9 (C.I. 42500)	569-61-9	0.1µg/L	ND	
C.I. Basic Violet 14 (C.I. 42510)	632-99-5	0.1µg/L	ND	
C.I. Direct Black 38 (C.I. 30235)	1937-37-7	0.1µg/L	ND	
C.I. Direct Blue 6 (C.I. 22610)	2602-46-2	0.1µg/L	ND	
C.I. Basic Green 4	569-64-2	0.1µg/L	ND	
C.I. Basic Green 4	2437-29-8	0.1µg/L	ND	
C.I. Basic Green 4	10309-95-2	0.1µg/L	ND	
C.I. Direct Red 28 (C.I. 22120)	573-58-0	0.1µg/L	ND	
C.I. Disperse Blue 1 (C.I. 64500)	2475-45-8	0.1µg/L	ND	
C.I. Disperse Blue 3	2475-46-9	0.1µg/L	ND	
C.I. Disperse Orange 11 (C.I. 60700)	82-28-0	0.1µg/L	ND	
C.I. Disperse Yellow 3	2832-40-8	0.1µg/L	ND	

Remark: ND: Not Detected

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6) Allergenic Disperse Dyes				
Test Method: Solvent extraction with LCMS analysis				
Substance name	CAS No.	Reporting limit	Result	ZDHC Discharge Limit
			A (µg/L)	
C.I. Disperse Blue 1 (C.I. 64500)	2475-45-8	0.1µg/L	ND	Water : 50 µg/L
C.I. Disperse Blue 3 (C.I. 61505)	2475-46-9	0.1µg/L	ND	
C.I. Disperse Blue 7 (C.I. 62500)	3179-90-6	0.1µg/L	ND	
C.I. Disperse Blue 26 (C.I. 63305)	3860-63-7	0.1µg/L	ND	
C.I. Disperse Blue 35 (mixture)	12222-75-2	0.1µg/L	ND	
C.I. Disperse Blue 102	12222-97-8	0.1µg/L	ND	
C.I. Disperse Blue 106	12223-01-7	0.1µg/L	ND	
C.I. Disperse Blue 124	61951-51-7	0.1µg/L	ND	
C.I. Disperse Brown 1	23355-64-8	0.1µg/L	ND	
C.I. Disperse Orange 1 (C.I. 11080)	2581-69-3	0.1µg/L	ND	
C.I. Disperse Orange 3 (C.I. 11005)	730-40-5	0.1µg/L	ND	
C.I. Disperse Orange 37 / 59 / 76 (C.I. 11132)	13301-61-6	0.1µg/L	ND	
C.I. Disperse Orange 149	85136-74-9	0.1µg/L	ND	
C.I. Disperse Red 1 (C.I. 11110)	2872-52-8	0.1µg/L	ND	
C.I. Disperse Red 11 (C.I. 62015)	2872-48-2	0.1µg/L	ND	
C.I. Disperse Red 17 (C.I. 11210)	3179-89-3	0.1µg/L	ND	
C.I. Disperse Yellow 1 (C.I. 10345)	119-15-3	0.1µg/L	ND	
C.I. Disperse Yellow 3 (C.I. 11855)	2832-40-8	0.1µg/L	ND	
C.I. Disperse Yellow 9 (C.I. 10375)	6373-73-5	0.1µg/L	ND	
C.I. Disperse Yellow 23 (C.I. 26070)	6250-23-3	0.1µg/L	ND	
C.I. Disperse Yellow 39	12236-29-2	0.1µg/L	ND	
C.I. Disperse Yellow 49	54824-37-2	0.1µg/L	ND	

Remark: ND: Not Detected

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7) Flame retardants				
Test Method: With reference to USEPA 8270, USEPA 527, USEPA 8321B Solvent extraction followed by GC/MS & LCMS analysis				
Substance name	CAS No.	Reporting limit	Result	ZDHC Discharge Limit
			A (µg/L)	
Polybromobiphenyls (PBBs)	59536-65-1	0.05 µg/L	ND	Water : 5.0 µg/L
Monobromobiphenyls (MonoBB)	Various	0.05 µg/L	ND	
Dibromobiphenyls (DiBB)	Various	0.05 µg/L	ND	
Tribromobiphenyls (TriBB)	Various	0.05 µg/L	ND	
Tetrabromobiphenyls (TetraBB)	Various	0.05 µg/L	ND	
Pentabromobiphenyls (PentaBB)	Various	0.05 µg/L	ND	
Hexabromobiphenyls (HexaBB)	Various	0.05 µg/L	ND	
Heptabromobiphenyls (HeptaBB)	Various	0.05 µg/L	ND	
Octabromobiphenyls (OctaBB)	Various	0.05 µg/L	ND	
Nonabromobiphenyls (NonaBB)	Various	0.05 µg/L	ND	
Decabromobiphenyl (DecaBB)	13654-09-6	0.05 µg/L	ND	
Pentabromodiphenylethers (PentaBDEs)	Various 32534-81-9	0.05 µg/L	ND	
Octabromodiphenylethers (OctaBDEs)	Various 32536-52-0	0.05 µg/L	ND	
Decabromodiphenylether (DecaBDE)	1163-19-5	0.05 µg/L	ND	
Tri-(2,3-dibromopropyl)phosphate (TRIS)	126-72-7	0.5 µg/L	ND	
Tris(2-chlorethyl)phosphate (TCEP)	115-96-8	0.05 µg/L	ND	
Hexabromocyclododecane (HBCDD) and all main diastereomeres identified (alpha-, beta-, gamma-)	3194-55-6 134237-50-6 134237-51-7 134237-52-8 25637-99-4	0.5 µg/L	ND	
3,5,3',5'-Tetrabromo-bisphenol A (TBBPA)	79-94-7	0.5 µg/L	ND	
Tris(1,3-dichlorisopropyl)phosphat (TDCPP)	13674-87-8	0.5 µg/L	ND	
Tris-(aziridinyl)-phosphin oxide (TEPA)	545-55-1	0.5 µg/L	ND	
Bis (2,3-dibromopropyl) phosphate	5412-25-9	0.5 µg/L	ND	
Tri-O-tolyl phosphate	78-30-8	0.5 µg/L	ND	
Tris (2-chloro-isopropyl) phosphate	13674-84-5	0.5 µg/L	ND	
Short-chain chlorinated Paraffins (SCCP) (C10-C13)	85535-84-8	2.0 µg/L	ND	

Remark: ND: Not Detected

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8) Glycols				
Test Method: USEPA: 8270 followed by analysis in GC-MS & LC-MS				
Substance name	CAS No.	Reporting limit	Result	ZDHC Discharge Limit
			A (µg/L)	
BIs(2-methoxyethyl)-ether	111-96-6	0.1µg/l	ND	Water : 50 µg/L
2-ethoxyethanol	110-80-5	0.1µg/l	ND	
2-ethoxyethyl acetate	111-15-9	0.1µg/l	ND	
Ethylene glycol dimethyl ether	110-71-4	0.1µg/l	ND	
2-methoxyethanol	109-86-4	0.1µg/l	ND	
2-methoxyethylacetate	110-49-6	0.1µg/l	ND	
2-methoxypropyleacetate	70657-70-4	0.1µg/l	ND	
Triethylene glycol dimethyl ether	112-49-2	0.1µg/l	ND	

Remark: ND: Not Detected

9) Halogenated solvents				
Test Method: With reference USEPA 8260B, analysis by GCMS with Headspace				
Substance name	CAS No.	Reporting limit	Result	ZDHC Discharge Limit
			A (µg/L)	
1,2-Dichloromethane	75-09-2	1µg/L	ND	Water : 1.0 µg/L
Methylene Chloride	107-06-2	1µg/L	ND	
Trichloroethane	79-01-6	1µg/L	ND	
Tetrachloroethylene	127-18-4	1µg/L	ND	

Remark: ND: Not Detected

10) Organotin compounds				
Test Method: With reference to ISO 17353 and followed by GCMS analysis				
Substance name	CAS No.	Reporting limit	Result	ZDHC Discharge Limit
			A (µg/L)	
Monochloromethyltin compound	Various	0.01µg/L	ND	Water : 0.01 µg/L
Dichloromethyltin compound	Various	0.01µg/L	ND	
Trichloromethyltin compound	Various	0.01µg/L	ND	
Monobutyltin (MBT)	Various	0.01µg/L	ND	
Dibutyltin (DBT)	Various	0.01µg/L	ND	
Tributyltin (TBT)	Various	0.01µg/L	ND	
Monophenyltin (MPhT)	Various	0.01µg/L	ND	
Diphenyltin (DPhT)	Various	0.01µg/L	ND	
Triphenyltin (TPhT)	Various	0.01µg/L	ND	
Monooctyltin (MOT)	Various	0.01µg/L	ND	
Dioctyltin (DOT)	Various	0.01µg/L	ND	
Trioctyltin (TOT)	Various	0.01µg/L	ND	

Remark: ND: Not Detected

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11) Perfluorinated compounds (PFCs)				
Test Method: With reference CEN/TS 15968, USEPA 537, Solvent extraction followed by GCMS or LCMS analysis				
Substance name	CAS No.	Reporting limit	Result	ZDHC Discharge Limit
			A(µg/L)	
Perfluoropentanoic Acid (PFPeA) and salts	2706-90-3	0.01µg/L	ND	Water :0.01 µg/L
Perfluorohexanoic Acid (PFHxA) and salts	307-24-4	0.01µg/L	ND	
Perfluoroheptanoic Acid (PFHpA) and salts	375-85-9	0.01µg/L	ND	
HPFHpA, and salts	1546-95-8	0.01µg/L	ND	
Perfluorooctanoic Acid (PFOA) and salts	335-67-1	0.01µg/L	ND	
PF-3,7-DMOA, and salts	172155-07-6	0.01µg/L	ND	
Perfluorononanoic Acid (PFNA) and salts	375-95-1	0.01µg/L	ND	
Perfluorodecanoic Acid (PFDA) and salts	335-76-2	0.01µg/L	ND	
Perfluoroundecanoic Acid (PFUnDA) and salts	2058-94-8	0.01µg/L	ND	
4HPFUnA, and salts	34598-33-9	0.01µg/L	ND	
Perfluorododecanoic Acid (PFDoA) and salts	307-55-1	0.01µg/L	ND	
Perfluorotetradecanoic Acid (PFTeDA) and salts	376-06-7	0.01µg/L	ND	
Perfluorobutanesulfonate (PFBS) and salts	375-73-5, 59933-66-3	0.01µg/L	ND	
Perfluorohexanesulfonate (PFHxS) and salts	355-46-4	0.01µg/L	ND	
Perfluoroheptanesulfonate (PFHpS) and salts	375-92-8	0.01µg/L	ND	
Perfluorooctanesulfonate (PFOS) and salts	1763-23-1	0.01µg/L	ND	
1H,1H,2H,2H-PFOS, and salts	27619-97-2	0.01µg/L	ND	
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	0.1µg/L	ND	
N-methylperfluoro-1-octanesulfonamide (N-eFOSA)	31506-32-8	0.1µg/L	ND	
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	0.1µg/L	ND	
1H,1H,2H,2H-perfluoro-1-octanol (6:2 FTOH)	647-42-7	0.1µg/L	ND	(For FTOH: ; 1 mg/kg non-ionic)
1H,1H,2H,2H-perfluoro-1-decanol (8:2 FTOH)	678-39-7	0.1µg/L	ND	

Remark: ND: Not Detected

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12) Phthalates				
Test Method: With reference to USEPA 8270D, Solvent extraction followed by GC/MS analysis				
Substance name	CAS No.	Reporting limit	Result	ZDHC Discharge Limit (Max µg/L)
			A (µg/L)	
Dibutylphthalate (DBP)	84-74-2	1 µg/L	ND	Water : 10 µg/L
Di-(2-ethylhexyl)phthalate (DEHP)	117-81-7	1 µg/L	ND	
Benzylbutylphthalate (BBP)	85-68-7	1 µg/L	ND	
Di-iso-nonylphthalate (DINP)	28553-12-0	1 µg/L	ND	
	68515-48-0	1 µg/L	ND	
Di-n-octylphthalate (DNOP)	117-84-0	1 µg/L	ND	
Di-iso-decyl phthalate (DIDP)	26761-40-0	1 µg/L	ND	
	68515-49-1	1 µg/L	ND	
Di-iso-butylphthalate (DIBP)	84-69-5	1 µg/L	ND	
Di-n-hexylphthalate (DnHP)	84-75-3	1 µg/L	ND	
Di-(2-methoxyethyl)phthalate (DMEP)	117-82-8	1 µg/L	ND	
Di-C7-11-branched alkylphthalates (DHNUP)	68515-42-4	1 µg/L	ND	
Di-C6-8-branched alkylphthalates (DIHP)	71888-89-6	1 µg/L	ND	
Di-n-propylphthalate (DPRP)	131-16-8	1 µg/L	ND	
Di-iso-octylphthalate (DIOP)	27554-26-3	1 µg/L	ND	
Dicyclohexylphthalate (DCHP)	84-61-7	1 µg/L	ND	
Diethylphthalate (DEP)	84-66-2	1 µg/L	ND	
Dinonylphthalate (DNP)	84-76-4	1 µg/L	ND	

Remark: ND: Not Detected

13) Polycyclic Aromatic Hydrocarbons (PAHs)				
Test Method: With reference USEPA 8270, Solvent extraction with GCMS analysis				
Substance name	CAS No.	Reporting limit	Result	ZDHC Discharge Limit (Max µg/L)
			A (µg/L)	
Acenaphthene	83-32-9	1µg/L	ND	Water : 1.0 µg/L
Acenaphthylene	208-96-8	1µg/L	ND	
Anthracene	120-12-7	1µg/L	ND	
Benza[a]anthracene	56-55-3	1µg/L	ND	
Benzo[a]pyrene	50-32-8	1µg/L	ND	
Benzo[b]fluoranthene	205-99-2	1µg/L	ND	
Benzo[ghi]perylene	191-24-2	1µg/L	ND	
Benzo[k]fluoranthene	207-08-9	1µg/L	ND	
Chrysene	218-01-9	1µg/L	ND	
Dibenzo[a,h]anthracene	53-70-3	1µg/L	ND	
Fluoranthene	206-44-0	1µg/L	ND	
Fluorene	86-73-7	1µg/L	ND	
Indeno[1,2,3-cd]pyrene	193-39-5	1µg/L	ND	
Naphthalene	91-20-3	1µg/L	ND	
Phenanthrene	85-01-8	1µg/L	ND	
Pyrene	129-00-0	1µg/L	ND	
Benzo[e]pyrene	192-97-2	1µg/L	ND	
Benzo[j]fluoranthene	205-82-3	1µg/L	ND	

Remark: ND: Not Detected

Report No.: GCGNZD2100005

Dated: 19 March 2021

14) VOC Test Method: With reference USEPA 8260, analysis by GCMS with Headspace				
Substance name	CAS No.	Reporting limit	Result (µg/L)	ZDHC Discharge Limit (Max µg/L)
			A (µg/L)	
Benzene	71-43-2	1µg/L	ND	Water : 1.0 µg/L
Xylene	1330-20-7	1µg/L	ND	
o-Cresol	95-48-8	1µg/L	ND	
m-Cresol	106-44-5	1µg/L	ND	
p-Cresol	108-39-4	1µg/L	ND	

Remark: ND: Not Detected

CONVENTIONAL PARAMETERS

S. No.	Test Details	Test Method	Reporting Limit	Test Result	CETP Requirement	India Discharge Limit	ZDHC Discharge Limit(water)
				A (mg/L)			
1	Temperature	USEPA 170.1	1°C	35.2 °C	36°C	Not specified	Δ15/ Max 35
2	TSS	APHA/SM 2540D	5mg/l	31	200-400	150mg/l	50mg/l
3	COD	APHA/SM 5220D	10mg/l	122.98	400-1200	200mg/l	150mg/l
4	Total N	APHA 4500N-C	5mg/l	13.71	-	100mg/l	20mg/l
5	pH	USEPA 150.1	0 – 14	6.65	10-12	5.5 to 8.5	6.0 to 9.0
6	Colour [M ⁻¹] (436nm, 525, 620nm)	ISO 7887 Method B	0.01	436nm: 51.27 525nm: 28.85 620nm: 18.69	Coloured	150Hz	436nm: 7 525nm: 5 620nm: 3
7	BOD (5D/20°C)	APHA/SM 5210B	5.0mg/l	25.80	150-600	150mg/l	30mg/l
8	Ammonia N	APHA/SM 4500 NH ₃ -N	5.0mg/l	8.28	-	50mg/l	10mg/l
9	Total P	APHA/SM 4500P-J	1mg/l	0.56	-	8.0mg/l	3mg/l
10	O&G	ISO 9377-2 &4	1 mg/l	<1.0	<1.0	10mg/l	10mg/l
11	Phenol	APHA 5530 B, C & D	0.001mg/l	<0.001	-	1.0 mg/l	0.5mg/l
12	Coliform (per 100ml)	IS 1622: 1981	10cfu	Absent	-	Not specified	400
13	Persistent foam	Visual	Not Applicable	Not Visual	-	Not specified	No visual
14	Cyanide	APHA 4500-CN	0.01mg/l	<0.05	-	0.1mg/l	0.2mg/l
15	Sulphite	USEPA 377.1	0.01mg/l	5.0	-	Not specified	2mg/l
16	Sulphide	APHA/SM 4500-S ₂ -D	0.1mg/l	1.92	-	1.0 mg/l	0.5mg/l
17	Antimony	APHA/ SM 3030D, E Followed by analysis in ICP-MS	0.01mg/l	<0.01	<0.01	Not specified	0.1mg/l
18	Total Chromium		0.01mg/l	<0.01	<0.01	0.5 mg/l	0.2mg/l
19	Cobalt		0.01mg/l	<0.01	<0.01	Not specified	0.05mg/l
20	Copper		0.01mg/l	<0.01	<0.01	0.5 mg/l	1.0mg/l
21	Nickel		0.01mg/l	<0.01	<0.01	10.0 mg/l	0.2mg/l
22	Silver		0.01mg/l	<0.01	<0.01	Not specified	0.1mg/l
23	Zinc		0.1mg/l	<0.1	<0.1	5.0mg/l	5.0mg/l
24	Arsenic		0.005mg/l	<0.005	<0.005	0.05mg/l	0.05mg/l
25	Cadmium		0.01mg/l	<0.01	<0.01	0.5mg/l	0.1mg/l
26	Chromium (VI)	USEPA 218.6	0.001mg/l	<0.01	<0.01	0.1mg/l	0.05mg/l
27	Lead	APHA/ SM 3030D, E Followed by analysis in ICP-MS	0.01mg/l	<0.01	<0.01	0.1mg/l	0.1mg/l
28	Mercury		0.005mg/l	<0.005	<0.005	0.01mg/l	0.01mg/l

Sample Photos





End of the Test Report