

Report No. : CH:TX:1442012243 ISSUE DATE: 18/03/2023

Date of sampling	07/03/2023
Reporting date	18/03/2023

Audit ID	135201	Audit firm	SGS India Pvt. Ltd.,		
Company name	SHAHI EXPORTS PVT LTD				
Contact person	Mr. Rama krishnaa				
Type of tax – tax ID no	GSTIN - 29AAJCS1175L1ZU				
Address	Unit 105, #156, Kiadb Industrial A	ea, Machenagalli			
Region state province	Tamil Nadu				
Town city / village	Shimoga				
Zip / Post code	577222				

Type of wastewater discharge				
Type of waste discharge	Zero Liquid Discharge Treatment			
Description of the discharge	ZLD			
[If direct discharge] Temperature of receiving water body:	-			

Sampler accreditation certification number (ZDHC):			K. MANOJ PRABAKAR (C74D106818124)			
Sampling affiliate		SGS India Pvt. Ltd.,				
Sample description						
	Simple		Composite	Comments		
(1) Untreated wastewater	No		s, Reddish, Composite sample at , 09:35, 10:35, 11:35, 12:35, 13:35, 14:35			
(2) Sludge	YES, Grey, Grab sampling at 14:00		NO	Sampling at sludge screw press, Pathway- B (Landfill with Significant Control Measures)		
(3) Leachate	NO					

nternal description – Final Test Report				
Testing laboratory	SGS India Pvt. Ltd.,			
Internal codification number (report number)	CH:TX: 1442012243			
Reference sample number (sample ID)				
Received on	09/03/2023			
Analysis carried out from	09/03/2023 – 15/03/2023			
Arrival temperature at lab	8 ºC			
Comments	Samples received in 48 hours			
Reporting date	18/03/2023			

Page 1 of 38



Report No. : CH:TX:1442012243 ISSUE DATE: 18/03/2023

Summary of test results							
Test items	Untreated wastewater	Sludge	Leachate				
Conventional Parameters and Anions	-	Please refer to the information in TEST RESULTS	-				
Heavy Metals	-	ND	-				
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	ND	ND	-				
Anti- Microbials & Biocides	ND	-	-				
Chlorinated Parafins	ND	-	-				
Chlorobenzenes & Chlorotoluenes	ND	ND	-				
Chlorophenols	ND	-	-				
N,N-di-methylformamide (DMFa)	ND	-	-				
Dyes – Carcinogenic or Equivalent Concern	ND	-	-				
Dyes – Disperse (Allergenic)	ND	-	-				
Dyes – Navy Blue Colourant	ND	-	-				
Flame Retardants	ND	-	-				
Glycols / Glycol Ethers	ND	-	-				
Halogenated Solvents	ND	-	-				
Organotin Compounds	ND	-	-				
Other / Miscellaneous Chemicals	ND	-	-				
Perfluorinated and Polyfluorinated Chemicals (PFCs)	ND	-	-				
Phthalates – including all other esters of ortho-phthalic acid	ND	-	-				
Polycyclic Aromatic Hydrocarbons (PAHs)	D	ND	-				
Restricted Aromatic Amines (Cleavable from Azo-colourants)	D	-	-				
UV Absorbers	ND	-	-				
VOCs	ND	-	-				

Remark (Indicated in each parameter)

ND = Not detected

D = Detected

NA = Not applicable

@ = Maximum holding time exceeded

(T) = handling temperature exceeded

Per pro SGS India Private Ltd

P.SHANMUGAM EXECUTIVE

Email your Test Report Related Enquiries at Feedback.SLT@sgs.com

 $\mathsf{Page}\ 2\ \mathsf{of}\ 38$



Report No. : CH:TX:1442012243 ISSUE DATE: 18/03/2023

Test results

Wastewater

1. Conventional Parameters and Anions

Test Items	Test method	Limit			Reporting Limit	Result	Unit
restitems	rest method	Foundational	Progressive	Aspirational		Untreated wastewater	
рН	ISO 10523, USEPA 150.1, SM 4500 H+, HJ 1147 or IS 3025 (Part 11) - Electrometric method only	Tex	ctile and Leather: 6		NA	-	-
Temperature Difference	DIN 38 404-4, USEPA 170.1, SM 2550, GB/T 13195 or IS 3025 (Part 9)	Textile and Leather: Δ+15	Textile and Leather: Δ+10	Textile and Leather: Δ+5	-	-	ōС
E. Coli	SM 9221 B presumptive, confirm positive with SM 9221 F or G	Tex	tile and Leather: 1	26	126	-	MPN/ 100mL
Colour (436nm; 525nm; 620nm)	ISO 7887 B	Textile and Leather: 7;5;3	Textile and Leather: 5;3;2	Textile and Leather: 2;1;1	-	-	m ⁻¹
Persistent Foam	-	Textile	and Leather: Not v	visible	NA	-	-
Wastewater Flowrate	-	-		NA	-	m³/day	
Ammonium-Nitrogen	ISO 7150, ISO 11732, USEPA 350.1, USEPA 350.3, SM 4500 NH3 D, E, F, G or H, HJ 535 or IS 3025 (Part 34) - Phenate or ammonia selective electrode only	Textile: 10 Leather: 15	Textile: 1 Leather: 10	Textile: 0.5 Leather: 1	-	-	mg/L
AOX#	ISO 9562, HACH LCK 390 or HJ/T 83-2001	Textile: 3	Textile: 0.5	Textile: 0.1	-	-	mg/L
Biochemical Oxygen Demand 5-days concentration (BOD ₅)	ISO 5815-1, USEPA 405.1, SM 5210 B, HJ 505 or IS 3025 (Part 44) - Seeded dilution water (BOD ₅)	Textile: 30 Leather: 50	Textile: 15 Leather: 30	Textile: 8 Leather: 20	-	-	mg/L
Chemical Oxygen Demand (COD)	ISO 6060, ISO 15705, USEPA 410.4, SM 5220 D, HJ 828, GB/T 11914 or IS 3025 (Part 58)	Textile: 150 Leather: 250	Textile: 80 Leather: 150	Textile: 40 Leather: 100	-	-	mg/L
Dissolved Oxygen (DO)	ISO 5814, USEPA 360.1, SM 4500 O G or HJ 506	Textile and Le	eather: Sample and	I report only	0.5	-	mg/L

JOE No.: 2342805562 Page 3 of 38 Control No.:1442513325
This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/

terms_and_conditions.htm and and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.

SGS India Pvt. Ltd. Connectivity and Products Testing Laboratory- Softlines, 28 B/1(SP), 28 B/2(SP), Second Main Road, Ambattur Industrial Estate, Ambattur, Chennai - 600 058.India t: (91 - 44) 6608 1600



Report No. : CH:TX:1442012243 ISSUE DATE: 18/03/2023

Oil and grease	ISO 9377-2, USEPA 1664 Revision B, SM 5520 B or C, HJ 637 - Total oil and grease or IS 3025 (Part 39) - Partition gravimetric or partition infra-red	Textile: 10 Leather: 20	Textile: 2 Leather: 10	Textile: 0.5 Leather: 5	0.5	1	mg/L
Total Phenols / Phenol Index	ISO 6439, SM 5530 B or C, HJ 503 or IS 3025 (Part 43)	Textile and Leather: 0.5	Textile:0.01 Leather: 0.3	Textile: 0.001 Leather: 0.1	0.001	-	mg/L
Total Chlorine	ISO 7393-2, USEPA 330.5, SM 4500 CI- G or HJ 586	Textile and Lo	eather: Sample and	l report only	0.5	-	mg/L
Total Dissolved Solids (TDS)	USEPA 160.1, SM 2540 C, GB/T 5750.4-2006 (180°C centigrade) or IS 3025 (Part 16) 179°C to 181°C	Textile and Lo	eather: Sample and	I report only	50	-	mg/L
Total Nitrogen	ISO 11905 - Part 1, ISO 29441, USEPA 351.2, SM 4500 P J, SM 4500 N B, C, HJ 636 or IS 3025 (Part 34) (Ammonia, nitrate, nitrite, organic)	Textile: 20 Leather: 35	Textile: 10 Leather: 20	Textile: 5 Leather: 10	5	-	mg/L
Total Phosphorus	ISO 6878, ISO 11885, ISO 17294, USEPA 200.7, USEPA 200.8, USEPA 365.4, USEPA 6010 C, USEPA 6020 A, SM 4500 P J, GB/T 11893, IS 3025 (Part 31) or IS 3025 (Part 65)	Textile and Leather: 3	Textile: 0.5 Leather: 1	Textile: 0.1 Leather: 0.5	0.1	-	mg/L
Total Suspended Solids (TSS)	ISO 11923, USEPA 160.2, SM 2540 D, GB/T 11901 or IS 3025 (Part 17) 103°C to 105°C	Textile: 50 Leather: 70	Textile: 15 Leather: 50	Textile: 5 Leather: 20	5	-	mg/L
Chloride	ISO 10304-1, ISO 15923-1, USEPA 300, SM 4110 B, C, SM 4500 CI D or E, HJ 84-2016 or IS 3025 (Part 32) - Potentiometric or automated ferricyanide only	Textile and Leather: Sample and report only			1	-	mg/L
Cyanide	ISO 6703-1, -2, -3, ISO 14403-1, -2, USEPA 335.2, SM 4500 CN or HJ 484	Textile: 0.2	Textile: 0.1	Textile: 0.05	0.05	-	mg/L

JOE No.: 2342805562 Page 4 of 38 Control No.:1442513325
This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/

terms_and_conditions.htm and and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.

SGS India Pvt. Ltd. Connectivity and Products Testing Laboratory- Softlines, 28 B/1(SP), 28 B/2(SP), Second Main Road, Ambattur Industrial Estate, Ambattur, Chennai - 600 058.India t: (91 - 44) 6608 1600



Report No. : CH:TX:1442012243 ISSUE DATE: 18/03/2023

Sulfate	ISO 10304-1, ISO 15923-1, USEPA 300, USEPA 9038, SM 4110 B, C, SM 4500 SO ₄ ²⁻ E, F, G, HJ 84-2016 or IS 3025 (Part 24)	Textile and Leather: Sample and report only			5	-	mg/L
Sulfide	ISO 10530, SM 4500 S ²⁻ D, E, G or I, HJ 1226 or IS 3025 (Part 29) - Methylene blue only	Textile: 0.5 Leather: 1	Textile: 0.05 Leather: 0.5	Textile: 0.01 Leather: 0.2	0.01	-	mg/L
Sulfite	ISO 10304-3, SM 4500 SO ₃ ²⁻ C or HJ 84-2016	Textile: 2	Textile: 0.5	Textile: 0.2	0.2	-	mg/L

Remark

ND = Not detected NA = Not applicable

= Not required to be tested

(f) = Parameter tested in field

(S) = The analysis was subcontracted to xxxxx lab for testing.

= Non accredited parameter

JOE No.: 2342805562 Page 5 of 38 Control No.:1442513325
This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/

terms_and_conditions.htm and and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.



Report No. : CH:TX:1442012243 ISSUE DATE : 18/03/2023

2.Heavy Metals

Cr (VI): ISO 18412, USEPA 218.6, GB 7467 or IS 3025 (Part 52)

Ba, Se, Sn: USEPA 200.8, USEPA 6010 C, USEPA 6020 A or HJ 700

Sb, As, Cr, Co: ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, HJ 700 or IS 3025 (Part 65)

Cd: ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, GB 7475, HJ 700, IS 3025 (Part 65) or IS 3025 (Part 41) — AAS instrumental method

Cu: ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, GB 7475, HJ 700, IS 3025 (Part 65) or IS 3025 (Part 42) – AAS instrumental method

Pb: ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, GB 7475, HJ 700, IS 3025 (Part 65) or IS 3025 (Part 47) – AAS instrumental method

Ni: ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, GB 11912, HJ 700, IS 3025 (Part 65) or IS 3025 (Part 54) – AAS instrumental method

 ${\sf Ag: ISO~17294, USEPA~200.8, USEPA~6010~C, USEPA~6020~A, GB~11907, HJ~700~or~IS~3025~(Part~65)}$

Zn: ISO 17294, USEPA 200.8, USEPA 6010 C, USEPA 6020 A, GB 7472, GB 7475, HJ 700, IS 3025 (Part 65) or IS 3025 (Part 49) – AAS instrumental method Hg: ISO 17294, USEPA 200.8 – SIM, USEPA 245.1, USEPA 245.7, USEPA 6020 A – SIM, HJ 597, HJ 694, IS 3025 (Part 48) – Cold vapour AAS only or IS 3025 (Part 65) – SI

B: ISO 17294, USEPA 6010 C, USEPA 6020 A, HJ 700 or IS 3025 (Part 65)

			Limit			Result	
Test items	CAS no.	Foundational	Progressive	Aspirational	Reporting Limit	Untreated wastewater	Unit
Arsenic (As)	Various	Textile and Leather: 0.05	Textile and Leather: 0.01	Textile and Leather: 0.005	0.005	-	mg/L
Cadmium (Cd)	Various	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.01	0.01	-	mg/L
Mercury (Hg)	Various	Textile and Leather: 0.01	Textile and Leather: 0.005	Textile and Leather: 0.001	0.001	-	mg/L
Lead (Pb)	Various	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.01	0.01	-	mg/L
Antimony (Sb)	Various	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.01	0.01	-	mg/L
Cobalt (Co)	Various	Textile and Leather: 0.05	Textile and Leather: 0.02	Textile and Leather: 0.01	0.01	-	mg/L
Nickel (Ni)	Various	Textile and Leather: 0.2	Textile and Leather: 0.1	Textile and Leather: 0.05	0.05	-	mg/L
Silver (Ag)	Various	Textile and Leather: 0.1	Textile and Leather: 0.05	Textile and Leather: 0.005	0.005	-	mg/L
Copper (Cu)	Various	Textile and Leather: 1	Textile and Leather: 0.5	Textile and Leather: 0.25	0.25	-	mg/L
Zinc (Zn)	Various	Textile and Leather: 5	Textile and Leather: 1	Textile and Leather: 0.5	0.1	ND	mg/L
Total Chromium (Cr)	Various	Textile: 0.2 Leather: 1.5	Textile: 0.1 Leather: 0.8	Textile: 0.05 Leather: 0.3	0.05	-	mg/L
Chromium VI (Cr VI)	Various	Textile: 0.05 Leather: 0.15	Textile: 0.005 Leather: 0.05	Textile: 0.001 Leather: 0.02	0.001	-	mg/L
Barium (Ba)	Various	Text	ile: Sample and r	eport only	35	-	mg/L
Selenium (Se)	Various	Text	Textile: Sample and report only		0.5	-	mg/L
Tin (Sn)	Various	Text	ile: Sample and r	eport only	0.1	-	mg/L
Boron (B)	Various				0.1	ND	mg/L

Remark

ND = Not detected NA = Not applicable

- = Not required to be tested

JOE No. : 2342805562 Page 6 of 38 Control No.:1442513325



Report No.: CH:TX:1442012243 ISSUE DATE: 18/03/2023

3.Alkylphenol (AP) & Alkylphenol Ethoxylates (APEOs): including all isomers

NP/OP: With reference to ISO 18857-2 (Modified dichloromethane extraction) or ASTM D7065 (GC-MS or LC-MS(-MS))

NPEO / OPEO: With reference to ISO 18857-2 or ASTM D7742

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result Untreated wastewater	Unit
Octylphenol (OP)	140-66-9/ 1806-26-4/ 27193-28-8	5	ND	μg/L
Nonyiphenol (NP)	104-40-5/ 11066-49-2/ 25154- 52- 3/84852-15-3	5	ND	μg/L
Octylphenolethoxylates (OPEOs)	9002-93-1/9036-19-5/68987-90-	5	ND	μg/L
Nonylphenolethoxylates (NPEOs)	9016-45-9/26027-38-3/ 37205- 87- 1/68412-54-4/127087-87-0	5	ND	μg/L

4.Anti- Microbials & Biocides

o-Phenylphenol (+salts): With reference to BS EN 12673-1999, USEPA 8270 E or Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS

Triclosan: With reference to BS EN 12673-1999, USEPA 8270 E or Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS

Permethrin: With reference to ISO 14154:2005, USEPA 8270 E, Solvent extraction followed by GC-MS or An alternative method, without derivatization and determination by LC-MS / LC-MS/MS

Test items	CAS no.	Reporting Limit (Textile)	Result Untreated wastewater	Unit
o-Phenylphenol (+salts)	90-43-7	100	ND	μg/L
Triclosan	3380-34-5	100	ND	μg/L
Permethrin	Various	500	ND	μg/L

5.Chlorinated Parafins

MCCPs: Preparation: With reference to USEPA 3510. Analysis: With reference to ISO 18219-2:2021 or Method for MCCP with GC-MS(NCI) or LC-MS/MS.

SCCPs: Preparation: With reference to USEPA 3510. Analysis: With reference to ISO 12010:2019, ISO 18219-1:2021 or Method for SCCP with GC-MS(NCI) or LC-MS/MS

Test items	CAS no.	Reporting Limit (Textile)	Result Untreated wastewater	Unit
Short chain chlorinated paraffins (C10-C13)	85535-84-8	5	ND	μg/L
Medium-chain Chlorinated Paraffins (MCCPs) (C14-C17)	85535-85-9	5	ND	μg/L

JOE No.: 2342805562 Page 7 of 38 Control No.:1442513325



Report No. : CH:TX:1442012243 ISSUE DATE : 18/03/2023

6.Chlorobenzenes & Chlorotoluenes

With reference to USEPA 8260 D, USEPA 8270 E, Purge and Trap, Headspace or Dichloromethane extraction followed by GC-MS

		Reporting Limit	Result	Unit
Test items	CAS no.	(Textile and Leather)	Untreated wastewater	
Monochlorobenzenes	108-90-7	0.2	ND	μg/L
1,2-Dichlorobenzene	95-50-1	0.2	ND	μg/L
1,3-Dichlorobenzene	541-73-1	0.2	ND	μg/L
1,4-Dichlorobezene	106-46-7	0.2	ND	μg/L
1,2,3-Trichlorobenzene	87-61-6	0.2	ND	μg/L
1,2,4-Trichlorobenzene	120-82-1	0.2	ND	μg/L
1,3,5-Trichlorobenzene	108-70-3	0.2	ND	μg/L
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	ND	μg/L
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2	ND	μg/L
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	ND	μg/L
Pentachlorobenzene	608-93-5	0.2	ND	μg/L
Hexachlorobenzene	118-74-1	0.2	ND	μg/L
2-Chlorotoluene	95-49-8	0.2	ND	μg/L
3-Chlorotoluene	108-41-8	0.2	ND	μg/L
4-Chlorotoluene	106-43-4	0.2	ND	μg/L
2,3-Dichlorotoluene	32768-54-0	0.2	ND	μg/L
2,4-Dichlorotoluene	95-73-8	0.2	ND	μg/L
2,5-Dichlorotoluene	19398-61-9	0.2	ND	μg/L
2,6-Dichlorotoluene	118-69-4	0.2	ND	μg/L
3,4-Dichlorotoluene	95-75-0	0.2	ND	μg/L
3,5-Dichlorotoluene	25186-47-4	0.2	ND	μg/L
2,3,4-Trichlorotoluene	7359-72-0	0.2	ND	μg/L
2,3,6-Trichlorotoluene	2077-46-5	0.2	ND	μg/L
2,4,5-Trichlorotoluene	6639-30-1	0.2	ND	μg/L
2,4,6-Trichlorotoluene	23749-65-7	0.2	ND	μg/L
3,4,5-Trichlorotoluene	21472-86-6	0.2	ND	μg/L
2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	ND	μg/L
2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	ND	μg/L
2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	ND	μg/L
Pentachlorotoluene	877-11-2	0.2	ND	μg/L

JOE No.: 2342805562 Page 8 of 38 Control No.:1442513325 This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/



Report No. : CH:TX:1442012243 ISSUE DATE : 18/03/2023

7.Chlorophenols

With reference to BS EN 12673-1999, USEPA 8270 E or Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result Untreated wastewater	Unit
2-Chlorophenol	95-57-8	0.5	ND	μg/L
3-Chlorophenol	108-43-0	0.5	ND	μg/L
4-Chlorophenol	106-48-9	0.5	ND	μg/L
2,3-Dichlorophenol	576-24-9	0.5	ND	μg/L
2,4-Dichlorophenol	120-83-2	0.5	ND	μg/L
2,5-Dichlorophenol	583-78-8	0.5	ND	μg/L
2,6-Dichlorophenol	87-65-0	0.5	ND	μg/L
3,4-Dichlorophenol	95-77-2	0.5	ND	μg/L
3,5-Dichlorophenol	591-35-5	0.5	ND	μg/L
2,3,4-Trichlorophenol	15950-66-0	0.5	ND	μg/L
2,3,5-Trichlorophenol	933-78-8	0.5	ND	μg/L
2,3,6-Trichlorophenol	933-75-5	0.5	ND	μg/L
2,4,5-Trichlorophenol	95-95-4	0.5	ND	μg/L
2,4,6-Trichlorophenol	88-06-2	0.5	ND	μg/L
3,4,5-Trichlorophenol	609-19-8	0.5	ND	μg/L
2,3,5,6-Tetrachlorophenol	935-95-5	0.5	ND	μg/L
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	ND	μg/L
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	ND	μg/L
Pentachlorophenol PCP	87-86-5	0.5	ND	μg/L

8.N,N-di-methylformamide (DMFa)

With reference to USEPA 8015 or USEPA 8270 E

Test item	CAS no.	Reporting Limit (Textile)	Result Untreated wastewater	Unit
N,N-di-methylformamide (DMFa)	68-12-2	1000 (Sample and Report only for mock leather)	ND	μg/L

JOE No. : 2342805562 Page 9 of 38 Control No.:1442513325



Report No. : CH:TX:1442012243 ISSUE DATE : 18/03/2023

9. Dyes - Carcinogenic or Equivalent Concern

With reference to Liquid extraction followed by LC-MS

Test items	CAS no.	Reporting Limit (Textile and Leather)	Result Untreated wastewater	Unit
C.I. Direct Black 38	1937-37-7	500	ND	μg/L
C.I. Direct Blue 6	2602-46-2	500	ND	μg/L
C.I. Acid Red 26	3761-53-3	500	ND	μg/L
C.I. Basic Red 9	569-61-9	500	ND	μg/L
C.I. Direct Red 28	573-58-0	500	ND	μg/L
C.I. Basic Violet 14	632-99-5	500	ND	μg/L
C.I. Disperse Blue 1	2475-45-8	Textile: 500	ND	μg/L
C.I. Disperse Blue 3	2475-46-9	Textile: 500	ND	μg/L
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	500	ND	μg/L
C.I. Basic Green 4 (malachite green chloride)	569-64-2	500	ND	μg/L
C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	500	ND	μg/L
C.I. Basic Green 4 (malachite green)	10309-95-2	500	ND	μg/L
Disperse Orange 11	82-28-0	Textile: 500	ND	μg/L
Basic violet 3 with >0.1% of Michler's Ketone*	548-62-9	500	ND	μg/L
C.I. Acid Violet 49	1694-09-3	500	ND	μg/L

^{*}Reported concentration refers to the dye part only

 JOE No.: 2342805562
 Page 10 of 38
 Control No.:1442513325



Report No. : CH:TX:1442012243 ISSUE DATE: 18/03/2023

10.Dyes - Disperse (Allergenic)

With reference to Liquid extraction followed by LC-MS

		Reporting Limit	Result	
Test Items	CAS no.	(Textile)	Untreated wastewater	Unit
Disperse Yellow 1	119-15-3	50	ND	μg/L
Disperse Blue 102	12222-97-8	50	ND	μg/L
Disperse Blue 106	12223-01-7	50	ND	μg/L
Disperse Yellow 39	12236-29-2	50	ND	μg/L
Disperse Orange 37/59/76	13301-61-6	50	ND	μg/L
Disperse Brown 1	23355-64-8	50	ND	μg/L
Disperse Orange 1	2581-69-3	50	ND	μg/L
Disperse Yellow 3	2832-40-8	50	ND	μg/L
Disperse Red 11	2872-48-2	50	ND	μg/L
Disperse Red 1	2872-52-8	50	ND	μg/L
Disperse Red 17	3179-89-3	50	ND	μg/L
Disperse Blue 7	3179-90-6	50	ND	μg/L
Disperse Blue 26	3860-63-7	50	ND	μg/L
Disperse Yellow 49	54824-37-2	50	ND	μg/L
Disperse Blue 35	12222-75-2	50	ND	μg/L
Disperse Blue 124	61951-51-7	50	ND	μg/L
Disperse Yellow 9	6373-73-5	50	ND	μg/L
Disperse Orange 3	730-40-5	50	ND	μg/L
Disperse Blue 35	56524-77-7	50	ND	μg/L

11.Dyes - Navy Blue Colourant

With reference to Liquid extraction followed by LC-MS

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result Untreated wastewater	Unit
Component 1: C39H23CI-CrN7O12S 2Na	118685-33-9	500	ND	μg/L
Component 2: C46H-30CrN10O20S2 3Na	Not Allocated	500	ND	μg/L

Page 11 of 38



Report No. : CH:TX:1442012243 ISSUE DATE : 18/03/2023

12.Flame retardants

Boric acid, Diboron trioxide, Disodium octaborate, Disodium tetraborate anhydrous, Tetraboron disodium heptaoxide, hydrate:

ISO 17294, USEPA 6010 C, USEPA 6020 A, HJ 700 or IS 3025 (Part 65)

Others: With reference to ISO 22032, USEPA 527, USEPA 8270 E, USEPA 8321 B or Dichloromethane extraction followed by GC-MS or LC-MS(-MS)

			Result	Unit
Test Items	CAS no.	Reporting Limit	Untreated wastewater	
Decabromodiphenyl ether (DecaBDE)	1163-19-5	Textile: 25 Leather: 5	ND	μg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	Textile: 25 Leather: 5	ND	μg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	Textile: 25 Leather: 5	ND	μg/L
Tris(1-aziridinylphosphine oxide) (TEPA)	545-55-1	Textile: 25 Leather: 5	ND	μg/L
Polybromobiphenyls (PBBs)	59536-65-1	Textile: 25 Leather: 5	ND	μg/L
Tris(2,3-dibromopropyl phosphate) (TRIS)	126-72-7	Textile: 25 Leather: 5	ND	μg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	Textile: 25 Leather: 5	ND	μg/L
Bis(2,3-dibromopropyl) phosphate	5412-25-9	Textile: 25 Leather: 5	ND	μg/L
Hexabromocyclododecane (HBCDD)	3194-55-6	Textile: 25 Leather: 5	ND	μg/L
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	Textile: 25 Leather: 5	ND	μg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	Textile: 25 Leather: 5	ND	μg/L
Decabromobiphenyl (DecaBB)	13654-09-6	Textile: 25	ND	μg/L
Dibromobiphenyls (DiBB)	Multiple	Textile: 25	ND	μg/L
Octabromobiphenyls (OctaBB)	Multiple	Textile: 25	ND	μg/L
Dibromopropylether	21850-44-2	Textile: 25	ND	μg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	Textile: 25	ND	μg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	Textile: 25	ND	μg/L
Monobromobiphenyls (MonoBB)	Multiple	Textile: 25	ND	μg/L
Monobromodiphenylethers (MonoBDEs)	Multiple	Textile: 25	ND	μg/L
Nonabromobiphenyls (NonaBB)	Multiple	Textile: 25	ND	μg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	Textile: 25	ND	μg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	Textile: 25	ND	μg/L
Tribromodiphenylethers (TriBDEs)	Multiple	Textile: 25	ND	μg/L

JOE No. : 2342805562 Page 12 of 38 Control No.:1442513329

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.

SGS India Pvt. Ltd. Connectivity and Products Testing Laboratory- Softlines, 28 B/1(SP), 28 B/2(SP), Second Main Road, Ambattur Industrial Estate, Ambattur, Chennai - 600 058.India www.sgs.com

Member of the SGS Group (SGS SA)



Report No. : CH:TX:1442012243 ISSUE DATE: 18/03/2023

Boric acid	10043-35-3 11113-50-1	Textile: 100*	See Total Boron (B) Result	μg/L
Diboron trioxide	1303-86-2	Textile: 100*	See Total Boron (B) Result	μg/L
Disodium octaborate	12008-41-2	Textile: 100*	See Total Boron (B) Result	μg/L
Disodium tetraborate anhydrous	1303-96-4 1330-43-4	Textile: 100*	See Total Boron (B) Result	μg/L
Tetraboron disodium heptaoxide, hydrate	12267-73-1	Textile: 100*	See Total Boron (B) Result	μg/L
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	Textile: 25 Leather: 5	ND	μg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	Textile: 25 Leather: 5	ND	μg/L

^{*} Limit refers to elemental boron, not the salt.

13.Glycols/Glycol Ethers

With reference to USEPA 8270 E or Liquid extraction followed by LC-MS or GC-MS

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result Untreated wastewater	Unit
Bis(2-methoxyethyl)-ether	111-96-6	50	ND	μg/L
2-ethoxyethanol	110-80-5	50	ND	μg/L
2-ethoxyethyl acetate	111-15-9	50	ND	μg/L
Ethylene glycol dimethyl ether	110-71-4	50	ND	μg/L
2-methoxyethanol	109-86-4	50	ND	μg/L
2-methoxyethylacetate	110-49-6	50	ND	μg/L
2-methoxypropylacetate	70657-70-4	50	ND	μg/L
Triethylene glycol dimethyl ether	112-49-2	50	ND	μg/L

14. Halogenated solvents

With reference to USEPA 8260 D, Purge and Trap or Headspace followed by GC-MS

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result Untreated wastewater	Unit
1,2-Dichloroethane	107-06-2	1	ND	μg/L
Methylene chloride	75-09-2	1	ND	μg/L
Trichloroethene	79-01-6	1	ND	μg/L
Tetrachloroethene	127-18-4	1	ND	μg/L

 $\hbox{Page }13\hbox{ of }38$



Report No. : CH:TX:1442012243 ISSUE DATE : 18/03/2023

15.Organotin compounds

TeET:

With reference to ISO 17353

Others:

With reference to ISO 17353 or Derivatization with NaB(C₂H₅)₄ followed by GC-MS

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result Untreated wastewater	Unit
Triclyclohexyltin (TCyHT)	Various	0.01	ND	μg/L
Tripropyltin (TPT)	Various	0.01	ND	μg/L
Dipropyltin compounds (DPT)	Various	0.01	ND	μg/L
Tetrabutyltin compounds (TeBT)	Various	0.01	ND	μg/L
Tetraoctyltin compounds (TeOT)	Various	0.01	ND	μg/L
Tetraethyltin Compounds (TeET)	Various	0.01	ND	μg/L
Mono-, di-and tri-octyltin derivatives	Various	0.01	ND	μg/L
Monooctyltin (MOT)	15231-57-9	0.01	ND	μg/L
Dioctyltin (DOT)	94410-05-6, 12531-44-4	0.01	ND	μg/L
Trioctyltin (TOT)	Various	0.01	ND	μg/L
Mono-, di-and tri-methyltin derivatives	Various	0.01	ND	μg/L
Monomethyltin (MMT)	Various	0.01	ND	μg/L
Dimethyltin (DMT)	Various	0.01	ND	μg/L
Trimethyltin (TMT)	Various	0.01	ND	μg/L
Mono-, di-and tri-butyltin derivatives	Various	0.01	ND	μg/L
Monobutyltin (MBT)	1118-46-3, 78763-54-9	0.01	ND	μg/L
Dibutyltin (DBT)	1002-53-5	0.01	ND	μg/L
Tributyltin (TBT)	56573-85-4	0.01	ND	μg/L
Mono-, di-and tri-phenyltin derivatives	Various	0.01	ND	μg/L
Monophenyltin (MPhT)	Various	0.01	ND	μg/L
Diphenyltin (DPhT)	Various	0.01	ND	μg/L
Triphenyltin (TPhT)	892-20-6, 668-34-8	0.01	ND	μg/L

JOE No. : 2342805562 Page 14 of 38 Control No.:1442513325



Report No. : CH:TX:1442012243 ISSUE DATE : 18/03/2023

16.Other/Miscellaneous Chemicals

AEEA [2-(2-aminoethylamino) ethanol]: With reference to Liquid extraction followed by LC-MS/MS

Bisphenol A: With reference to Liquid extraction followed by LC-MS Thiourea: With reference to Liquid extraction followed by LC-MS Quinoline: With reference to Liquid extraction followed by LC-MS

Borate, zinc salt: ISO 17294, USEPA 6010 C, USEPA 6020 A, HJ 700 or IS 3025 (Part 65)

Test Items	CAS no.	Reporting Limit (Textile)	Result Untreated wastewater	Unit
AEEA [2-(2-aminoethylamino) ethanol]	111-41-1	500	ND	μg/L
Bisphenol A	80-05-7	10	ND	μg/L
Thiourea	62-56-6	50	ND	μg/L
Quinoline	91-22-5	50	ND	μg/L
Borate, zinc salt	12767-90-7	100*	See Total Boron (B) and Total Zinc (Zn) Results	110/1

^{*} Limit refers to boron and zinc individually, not the salt.

17. Perfluorinated and Polyfluorinated Chemicals (PFCs)

PFCs:

With reference to USEPA 537:2020 followed by LC-MS(-MS)

FTOH:

With reference to BS EN 12673-1999, USEPA 8270 E or Derivatization with acetic anhydride followed by GC-MS

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result Untreated wastewater	Unit
Perfluoro-octane-sulfonic acid (PFOS)*	1763-23-1	0.01	ND	μg/L
Perfluoro-octanoic acid (PFOA)**	335-67-1	0.01	ND	μg/L
Perfluoro-octane-sulfon-amide (PFOSA)	754-91-6	0.01	ND	μg/L
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	1	ND	μg/L
1H,1H,2H,2H-Perfluorodecanol (8:2 FTOH)	678-39-7	1	ND	μg/L
N-Methyl-perfluoro-octane-sulfon-amido-ethanol (N-Me-FOSE)	24448-09-7	0.01	ND	μg/L
N-Ethyl-Perfluoro-octane-sulfon-amido-ethanol (N-Et-FOSE)	1691-99-2	0.01	ND	μg/L
N-Methyl-perfluoro-octane-sulfon-amide (N-Me-FOSA)	31506-32-8	0.01	ND	μg/L
N-Ethyl-perfluoro-octane-sulfon-amide (N-Et-FOSA)	4151-50-2	0.01	ND	μg/L
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	1	ND	μg/L
Methyl Perfluorooctanoate (Me-PFOA)	376-27-2	1	ND	μg/L
Ethyl Perfluorooctanoate (Et-PFOA)	3108-24-5	1	ND	μg/L
8:2 Fluorotelomer methacrylate (8:2 FTMA)	1996-88-9	1	ND	μg/L

^{*} PFOS refer to its salts/derivative including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3) and POSF (CAS No.: 307-35-7)

JOE No. : 2342805562 Page 15 of 38

Control No.:1442513325

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction rewreting all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.

SGS India Pvt. Ltd. Connectivity and Products Testing Laboratory- Softlines, 28 B/1(SP), 28 B/2(SP), Second Main Road, Ambattur Industrial Estate, Ambattur, Chennai - 600 058.India t: (91 - 44) 6608 1600

^{**} PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1)



Report No. : CH:TX:1442012243 ISSUE DATE : 18/03/2023

18.Phthalates - including all other esters of ortho-phthalic acid

With reference to USEPA 8270 E, ISO 18856 or Dichloromethane extraction followed by GC-MS

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result Untreated wastewater	Unit
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	10	ND	μg/L
Dimethoxyethyl phthalate (DMEP)	117-82-8	10	ND	μg/L
Di-n-octyl phthalate (DNOP)	117-84-0	10	ND	μg/L
Di-iso-decyl phthalate (DIDP)	26761-40-0	10	ND	μg/L
Di-iso-nonyl phthalate (DINP)	28553-12-0	10	ND	μg/L
Di-n-hexyl phthalate (DnHP)	84-75-3	10	ND	μg/L
Dibutyl phthalate (DBP)	84-74-2	10	ND	μg/L
Butyl benzyl phthalate (BBP)	85-68-7	10	ND	μg/L
Dinonyl phthalate (DNP)	84-76-4	10	ND	μg/L
Diethyl phthalate (DEP)	84-66-2	10	ND	μg/L
Di-n-propyl phthalate (DPRP)	131-16-8	10	ND	μg/L
Di-iso-butyl phthalate (DIBP)	84-69-5	10	ND	μg/L
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	ND	μg/L
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	ND	μg/L
1,2-benzenedicarboxylic acid, di-C7-11- branched and linearakyl esters (DHNUP)	68515-42-4, 68515-50-4	10	ND	μg/L
1,2-benzenedicarboxylic acid, di-C6-8 branched and linearalkyl esters , C7-rich (DIHP)	71888-89-6, 84777-06-0	10	ND	μg/L
Di-n-pentylphthalates	131-18-0	10	ND	μg/L
Diisopentylphthalates	605-50-5	10	ND	μg/L

 JOE No. : 2342805562
 Page 16 of 38
 Control No.:1442513325



Report No. : CH:TX:1442012243 ISSUE DATE : 18/03/2023

19. Polycyclic aromatic hydrocarbons (PAHs)

With reference to DIN 38407-39, USEPA 8270 E or Solvent extraction followed by GC-MS

Test Items	CAS no.	Reporting Limit (Textile and Leather)	Result Untreated wastewater	Unit
Benzo(a)pyrene (BaP)	50-32-8	1	ND	μg/L
Anthracene	120-12-7	1	ND	μg/L
Pyrene	129-00-0	1	ND	μg/L
Benzo(ghi)perylene	191-24-2	1	ND	μg/L
Benzo(e)pyrene	192-97-2	1	ND	μg/L
Indeno (1,2,3-cd)pyrene	193-39-5	1	ND	μg/L
Benzo(j)fluoranthene	205-82-3	1	ND	μg/L
Benzo(b)fluoranthene	205-99-2	1	ND	μg/L
Fluoranthene	206-44-0	1	ND	μg/L
Benzo(k)fluoranthene	207-08-09	1	ND	μg/L
Acenaphthylene	208-96-8	1	ND	μg/L
Chrysene	218-01-9	1	ND	μg/L
Dibenz(a,h)anthracene	53-70-3	1	ND	μg/L
Benzo(a)anthracene	56-55-3	1	ND	μg/L
Acenaphthene	83-32-9	1	ND	μg/L
Phenanthrene	85-01-8	1	ND	μg/L
Fluorene	86-73-7	1	ND	μg/L
Naphthalene	91-20-3	1	3	μg/L

JOE No. : 2342805562 Page 17 of 38 Control No.:1442513325



Report No. : CH:TX:1442012243 ISSUE DATE : 18/03/2023

20. Restricted Aromatic Amines (Cleavable from Azo-colourants)

With reference to USEPA 8270 E or Reduction step with sodium dithionite, solvent extraction followed by GC-MS and LC-MS/MS

		Reporting Limit	Result	Unit
Test Items	CAS no.	(Textile and Leather)	Untreated wastewater	
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1	ND	μg/L
4,4'-Diaminodiphenylmethane	101-77-9	0.1	ND	μg/L
4,4'-Oxydianiline	101-80-4	0.1	ND	μg/L
4-Chloroaniline	106-47-8	0.1	10.9	μg/L
3,3'-Dimethoxybenzidine	119-90-4	0.1	ND	μg/L
3,3'-Dimethylbenzidine	119-93-7	0.1	ND	μg/L
p-Cresidine	120-71-8	0.1	ND	μg/L
2,4,5-Trimethylaniline	137-17-7	0.1	ND	μg/L
4,4'-Thiodianiline	139-65-1	0.1	ND	μg/L
4-Aminoazobenzene	60-09-3	0.1	ND	μg/L
2,4-Diaminoanisole	615-05-4	0.1	ND	μg/L
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	0.1	ND	μg/L
2,6-Xylidine	87-62-7	0.1	ND	μg/L
o-Anisidine	90-04-0	0.1	ND	μg/L
2-Naphthylamine	91-59-8	0.1	ND	μg/L
3,3'-Dichlorobenzidine	91-94-1	0.1	ND	μg/L
4-Aminobiphenyl	92-67-1	0.1	ND	μg/L
Benzidine	92-87-5	0.1	ND	μg/L
o-Toluidine	95-53-4	0.1	ND	μg/L
2,4-Xylidine	95-68-1	0.1	ND	μg/L
4-Chloro-o-toluidine	95-69-2	0.1	ND	μg/L
2,4-Diaminotoluene	95-80-7	0.1	ND	μg/L
o-Aminoazotoluene	97-56-3	0.1	ND	μg/L
5-Nitro-o-toluidine	99-55-8	0.1	ND	μg/L
2-Naphthylammoniumacetate	553-00-4	0.1	ND	μg/L
2,4,5-trimethylaniline hydrochloride	21436-97-5	0.1	ND	μg/L
4-chloro-o-toluidinium chloride	3165-93-3	0.1	ND	μg/L
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	0.1	ND	μg/L

JOE No. : 2342805562 Page 18 of 38 Control No.:1442513325



Report No. : CH:TX:1442012243 ISSUE DATE : 18/03/2023

21.UV Absorbers

With reference to ISO 22032, USEPA 527, USEPA 8270 E, USEPA 8321 B or Dichloromethane extraction followed by GC-MS or LC-MS(-MS)

Test Items	CAS no.	Reporting Limit (Textile)	Result Untreated wastewater	Unit
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6- (sec- butyl) phenol (UV-350)	36437-37-3	100	ND	μg/L
2-(2H-benzotriazol-2-yl)-4,6- ditertpentylphenol (UV-328)	25973-55-1	100	ND	μg/L
2-benzotriazol-2-yl-4,6-di-tertbutylphenol (UV-320)	3846-71-7	100	ND	μg/L
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole- 2-yl) phenol (UV-327)	3864-99-1	100	ND	μg/L

22. Volatile organic compounds (VOCs)

Benzene: With reference to ISO 11423-1, ISO 20595, USEPA 8260 D, Purge and Trap or Headspace followed by GC-MS

m-cresol / o-cresol / p-cresol: With reference to BS EN 12637-1999, ISO 11423-1, USEPA 8270 E, Purge and Trap or Headspace followed by GC-MS

Xylene: With reference to ISO 11423-1, USEPA 8260 D, Purge and Trap or Headspace followed by GC-MS

Toluene: With reference to ISO 11423-1, USEPA 8260 D or HJ 1067

Test Items	CAS no.	Reporting Limit	Result Untreated wastewater	Unit
Benzene	71-43-2	Textile and Leather: 1	ND	μg/L
Xylene	1330-20-7	Textile: 1	ND	μg/L
o-cresol	95-48-7	Textile and Leather: 1	ND	μg/L
p-cresol	106-44-5	Textile and Leather: 1	ND	μg/L
m-cresol	108-39-4	Textile and Leather: 1	ND	μg/L
Toluene	108-88-3	Textile: 1 (Sample and Report only for mock leather)	ND	μg/L

Remark

ND = Not detected

- NA = Not applicable
- = Not required to be tested
- (S) = The analysis was subcontracted to xxxxx lab for testing.

= Non accredited parameter

 JOE No.: 2342805562
 Page 19 of 38
 Control No.:1442513325



Report No. : CH:TX:1442012243 ISSUE DATE: 18/03/2023

SLUDGE

23.Sludge Parameters - Step 1 - Conventional

pH: USEPA 9045 D or HJ 962

% Solids: USEPA 160.3 or HJ 613 at 105°C Paint Filter Test: USEPA SW-846 or USEPA 9095 B

Fecal Coliform: USEPA 1681

					Limit					Result	
Test Items	CAS no.	Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G	Reporting Limit	Sludge	Unit
рН	-	Sample and Report Only	Sample and Report Only	5-11	5-11	5-11	6.5-9	6.5-9	-	7.9	s.u.
% Solids	-	and	and	and	and	and	and	Sample and Report Only	-	45	%
Paint Filter Test	-	and	and	Sample and Report Only	Pass	Pass	Pass	Sample and Report Only	-	Pass	1
Fecal Coliform	-	and	and	and	Sample and Report Only	and	1000	1000	1000	2000000	MPN/g

24.Sludge Parameters - Step 1 - Anions

Preparation: USEPA 9013

Analysis: USEPA 9014, USEPA 9213 or HJ 745

			Limit – Dry weight							Unit	
Test Items	CAS no.	Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G	Reporting Limit (Textile)	Sludge	Unit
Cyanide	-	Sample and Report Only	and	100	85	70	70	70	20	ND	

 $\mathsf{Page}\ 20\ \mathsf{of}\ 38$



Report No. : CH:TX:1442012243 ISSUE DATE: 18/03/2023

25.Sludge Parameters - Step 1 - Metals

Sb, As, Cr, Co, Cd, Cu, Pb, Ni, Zn: Preparation: USEPA 3050 Analysis: USEPA 6010 D, USEPA 6020 B or HJ 803

Cr VI: Preparation: USEPA 3060 A Analysis: USEPA 7196 or USEPA 7199

Ba, Se, Ag: Preparation: USEPA 3050 Analysis: USEPA 6010 D or USEPA 6020 B

Hg: Preparation: option 1: USEPA 7471 B option 2: USEPA 3051 A Analysis: option 1: USEPA 7471 B, option 2: USEPA 6020 B or GB/T 22105.1 or HJ 923

				Limit	– Dry w	eight.				Result	
Test Items	CAS no.	Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G	Reporting Limit	Sludge	Unit
Arsenic (As)	Various	5	Textile: 5 Leather 2	5	5	5	5	Textile and Leathe r:75	Textile: 5 Leather 2	ND	mg/kg
Cadmium (Cd)	Various	1	Textile: 1 Leather 2	1	1	1	1	and	Textile: 1 Leather 2	ND	mg/kg
Mercury (Hg)	Various	1	Textile: 1 Leather 0.2	1	1	1	1	Textile and Leathe r:57	Textile: 1 Leather 0.2	ND	mg/kg
Lead (Pb)	Various	5	Textile: 5 Leather 2	5	5	5	5	Textile and Leathe r:840	Textile: 5 Leather 2	ND	mg/kg
Antimony (Sb)	Various	Textile: 5	Textile: 5	Textile: 5	Textile: 5	Textile: 5	Textile: 5	Sample and Report Only	Textile: 5	ND	mg/kg
Cobalt (Co)	Various	Textile: 400	Textile: 400	Textile: 400	Textile: 400	Textile: 400	Textile: 400	Sample and Report Only	Textile: 400	ND	mg/kg
Nickel (Ni)	Various	Textile: 20	Textile: 20	Textile: 20	Textile: 20	Textile: 20	Textile: 20	Textile: 420	Textile: 20	ND	mg/kg
Silver (Ag)	Various	Textile: 50	Textile: 50	Textile: 50	Textile: 50	Textile: 50	Textile: 50	Sample and Report Only	Textile: 50	ND	mg/kg
Copper (Cu)	Various	Textile: 50	Textile: 50	Textile: 50	Textile: 50	Textile: 50	Textile: 50	Textile: 4300	Textile: 50	ND	mg/kg
Zinc (Zn)	Various	Textile:	Textile: 400	Textile: 400	Textile: 400	Textile: 400	Textile: 400	Textile: 7500	Textile: 400	ND	mg/kg
Total Chromium (Cr)	Various	Textile: 50	Textile: 50	Textile: 50	Textile: 50	Textile: 50	Textile: 50	Textile: 3000	Textile: 50	ND	mg/kg

terms_and_conditions.htm and and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.

SGS India Pvt. Ltd. Connectivity and Products Testing Laboratory- Softlines, 28 B/1(SP), 28 B/2(SP), Second Main Road, Ambattur Industrial Estate, Ambattur, Chennai - 600 058.India t: (91 - 44) 6608 1600



Report No. : CH:TX:1442012243 ISSUE DATE: 18/03/2023

Chromium VI (Cr VI)	Various	20	20	20	20	20	20	Textile and Leather :50	Textile: 20 Leather 2	ND	mg/kg
Barium (Ba)	Various	Textile: 200	Textile: 200	Textile: 200	Textile: 200	Textile: 200		Sample and Report Only	Textile: 200	ND	mg/kg
Selenium (Se)	Various	Textile: 5	Textile: 5	Textile: 5	Textile: 5	Textile: 5	Textile: 5	Textile: 100	Textile: 5	ND	mg/kg

26.Sludge Parameters - Step 1 - MRSL - Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers

NP/OP: Preparation: With reference to USEPA 3540 / 3541 - Soxhlet or USEPA 3550 - Ultrasonic

Analysis: With reference to ISO 18857-2 or ASTM D7065

NPEO/OPEO: Preparation: With reference to USEPA 3540 / 3541 - Soxhlet or USEPA 3550 - Ultrasonic

Analysis: With reference to ISO 18254-1, ISO 18857-2 or ASTM D7065

				Limit -	- Dry we	eight				Result	
Test Items	CAS no.	Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G	Reporting Limit (Textile and Leather)	Sludge	Unit
Octylphenol (OP)	140-66-9/ 1806- 26-4/ 27193-28-8	and	Sample and Report Only	Sample and Report Only	0.4	0.4	0.4	0.4	0.4	ND	mg/kg
Nonylphenol (NP)	104-40-5/ 11066- 49-2/ 25154-52- 3/84852-15-3	and	and	Sample and Report Only	0.4	0.4	0.4	0.4	0.4	ND	mg/kg
Octylphenolethoxylates (OPEOs)	9002-93-1/9036- 19-5/68987-90-6	and	and	Sample and Report Only	0.4	0.4	0.4	0.4	0.4	ND	mg/kg
Nonylphenolethoxylates (NPEOs)	3/2002/ 30 3/	and	and	Sample and Report Only	0.4	0.4	0.4	0.4	0.4	ND	mg/kg

 $\mathsf{Page}\ 22\ \mathsf{of}\ 38$



Report No. : CH:TX:1442012243 ISSUE DATE: 18/03/2023

27.Sludge Parameters - Step 1 - MRSL - Polycyclic Aromatic Hydrocarbons (PAHs)

Preparation: With reference to USEPA 3540 / 3541 - Soxhlet or USEPA 3550 - Ultrasonic

Clean-up: With reference to USEPA 3640

Analysis: With reference to USEPA 8270 E or HJ 805-2016

				Limit -	- Dry we	eight				Result	
Test Items	CAS no.	Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G	Reporting Limit (Textile)	Sludge	Unit
Benzo(a)pyrene (BaP)	50-32-8	and	and	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Anthracene	120-12-7	Sample and Report Only	and	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Pyrene	129-00-0	Sample and Report Only	and	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(ghi)perylene	191-24-2	and	and	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(e)pyrene	192-97-2	and	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Indeno (1,2,3-cd)pyrene	193-39-5	and	and	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(j)fluoranthene	205-82-3	Sample and Report Only	and	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(b)fluoranthene	205-99-2	and	and	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Fluoranthene	206-44-0	and	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg

terms_and_conditions.htm and and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.

SGS India Pvt. Ltd. Connectivity and Products Testing Laboratory- Softlines, 28 B/1(SP), 28 B/2(SP), Second Main Road, Ambattur Industrial Estate, Ambattur, Chennai - 600 058.India t: (91 - 44) 6608 1600



Report No. : CH:TX:1442012243 ISSUE DATE: 18/03/2023

Benzo(k)fluoranthene	207-08-09	Sample Sample Sample and and and Report Report Report Only Only Only	ort 0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Acenaphthylene	208-96-8	Sample Sample Sample and and and Report Report Report Only Only Only	ort 0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Chrysene	218-01-9	Sample Sample Sample and and Report Report Report Only Only Only	ort 0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Dibenz(a,h)anthracene	53-70-3	Sample Sample Sample and and and Report Report Report Only Only Only	ort 0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Benzo(a)anthracene	56-55-3	Sample Sample Sample Sample and and and Report Report Report Only Only Only	ort 0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Acenaphthene	83-32-9	Sample Sample Sample Sample and and and Report Report Report Only Only Only	ort 0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Phenanthrene	85-01-8	Sample Sample Sample and and Report Report Report Only Only Only	ort 0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Fluorene	86-73-7	Sample Sample Sample and and and Report Report Report Only Only Only	ort 0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Naphthalene	91-20-3	Sample Sample Sample and and and Report Report Report Only Only Only	ort 0.2	0.2	0.2	0.2	0.2	ND	mg/kg

terms_and_conditions.htm and and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.



Report No.: CH:TX:1442012243 ISSUE DATE: 18/03/2023

28.Sludge Parameters - Step 1 - MRSL - Chlorotoluenes

Preparation: With reference to USEPA 3540 / 3541 - Soxhlet or USEPA 3550 - Ultrasonic

Clean-up: With reference to USEPA 3640

Analysis: With reference to USEPA 8270 E or HJ 605

				Limit -	- Dry we	eight				Result	
Test Items	CAS no.	Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G	Reporting Limit (Textile and Leather)	Sludge	Unit
2-Chlorotoluene	95-49-8	and	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
3-Chlorotoluene	108-41-8	and	and	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
4-Chlorotoluene	106-43-4	Sample and Report Only	and	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3-Dichlorotoluene	32768-54-0	and	and	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,4-Dichlorotoluene	95-73-8	and	and	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,5-Dichlorotoluene	19398-61-9	and	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,6-Dichlorotoluene	118-69-4	and	Sample and Report Only	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
3,4-Dichlorotoluene	95-75-0	and Report	and	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
3,5-Dichlorotoluene	25186-47-4	and	and	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,4-Trichlorotoluene	7359-72-0	and	and	Sample and Report Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg

terms_and_conditions.htm and and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.

SGS India Pvt. Ltd. Connectivity and Products Testing Laboratory- Softlines, 28 B/1(SP), 28 B/2(SP), Second Main Road, Ambattur Industrial Estate, Ambattur, Chennai - 600 058.India t: (91 - 44) 6608 1600



Report No. : CH:TX:1442012243 ISSUE DATE: 18/03/2023

2,3,6-Trichlorotoluene	2077-46-5	Sample Sample and and Report Report Report Only Only Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,4,5-Trichlorotoluene	6639-30-1	Sample Sample Sample and and and Report Report Only Only Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,4,6-Trichlorotoluene	23749-65-7	Sample Sample Sample and and and Report Report Only Only Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
3,4,5-Trichlorotoluene	21472-86-6	Sample Sample Sample and and and Report Report Only Only Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,4,5- Tetrachlorotoluene	76057-12-0	Sample Sample Sample and and and Report Report Only Only Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,5,6- Tetrachlorotoluene	29733-70-8	Sample Sample Sample and and and Report Report Only Only Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
2,3,4,6- Tetrachlorotoluene	875-40-1	Sample Sample Sample and and and Report Report Only Only Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg
Pentachlorotoluene	877-11-2	Sample Sample Sample and and and Report Report Only Only Only	0.2	0.2	0.2	0.2	0.2	ND	mg/kg

terms_and_conditions.htm and and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.



Report No. : CH:TX:1442012243 ISSUE DATE : 18/03/2023

LEACHATE

29.Leachate Parameters - Step 2 - Metals

As, Cd, Cr, Pb, Sb, Ba, Co, Cu, Ni, Se, Ag, Zn: Leachate Extraction: USEPA 1311 or USEPA 3051 A Analysis: ISO 11885, ISO 17294-2, USEPA 200.7, USEPA 200.8, USEPA 6010 C or USEPA 6020 A

Cr (VI): Leachate Extraction: USEPA 1311 Analysis: ISO 18412, USEPA 7196 or USEPA 7199

Hg: Leachate Extraction: USEPA 1311 of USEPA 3051 A Analysis: ISO 12846, ISO 17852, USEPA 7471 B or USEPA 6020 B

					Limit					Result	
Test Items	CAS no.	Pathway A	Pathway B	Pathway C	Pathway D	Pathway E	Pathway F	Pathway G	Reporting Limit	Leachate	Unit
Arsenic (As)	Various	Sample and Report Only	Sample and Report Only	5	2.75	0.5	0.5	0.5	0.005	NA	mg/L
Cadmium (Cd)	Various	Sample and Report Only	and	1	0.58	0.15	0.15	0.15	0.01	NA	mg/L
Mercury (Hg)	Various	Sample and Report Only	Sample and Report Only	0.2	0.125	0.05	0.05	0.05	0.001	NA	mg/L
Lead (Pb)	Various	Sample and Report Only	Sample and Report Only	5	2.75	0.5	0.5	0.5	0.01	NA	mg/L
Antimony (Sb)	Various	and	Sample and Report Only	15	7.8	0.6	0.6	0.6	0.01	NA	mg/L
Cobalt (Co)	Various	Sample and Report Only	and	80	80	80	80	80	0.01	NA	mg/L
Nickel (Ni)	Various	Sample and Report Only	Sample and Report Only	20	11.75	3.5	3.5	3.5	0.05	NA	mg/L
Silver (Ag)	Various	Sample and Report Only	and	5	5	5	5	5	0.005	NA	mg/L
Copper (Cu)	Various	Sample and Report Only	Sample and Report Only	25	17.5	10	10	10	0.25	NA	mg/L

JOE No.: 2342805562 Page 27 of 38 Control No.:1442513325
This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/



Report No. : CH:TX:1442012243 ISSUE DATE: 18/03/2023

Zinc (Zn)	Various	Sample S and Report F Only	and	250	150	50	50	50	0.1	NA	mg/L
Total Chromium (Cr)	Various	Sample S and Report F Only	and	15	10	5	5	5	0.05	NA	mg/L
Chromium VI (Cr VI)	Various	Sample S and Report I Only	and	5	3.75	2.5	2.5	2.5	0.001	NA	mg/L
Barium (Ba)	Various	Sample S and Report F Only	and	100	67.5	35	35	35	35	NA	mg/L
Selenium (Se)	Various	Sample S and Report I Only	and	1	0.75	0.5	0.5	0.5	0.5	NA	mg/L

Remark

ND = Not detected

NA = Not applicable

- = Not required to be tested

(S) = The analysis was subcontracted to xxxxx lab for testing.

= Non accredited parameter

terms_and_conditions.htm and and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.



Report No. : CH:TX:1442012243

ISSUE DATE: 18/03/2023

	y Name:	Shahi Exports DV	Eltd	hengalli, Shimogo	
-	y Address: Wul-I	07-03-20	23	nenghiti, Shimizgo	
	ing Time:	Marine Francisco	- 2.35 Pm		
		cooling Water (Inlet)	Defore Treatment) Em	uent (After Treatment) Sludge	
GPS D	The state of the s	13.87282,	15.64395		
Sampli	ing Method:	,			
	Grab (6-hr composite please specify.			
Discha	rge Method;	/			
	Direct	☐ Indirect ☐ Zero Liquid Discharge (ZLD)			
	ation Record:	סעד			
	ont pH Meter ont Thermometer	Inventory No : GTTM 04			
	on Point 🔲 4.0		ete the inappropriate one)		
Result:	d Solution	Theoretical Value		Measured Value	
H Stan	dard Solution #1	pH Value = 3CO at 95.0		pH Value = 1.09 at \$35.5°C	
-	dard Solution #2	gH Value = 4.0 at QT-0	0.09	pH Value =4.06 at 29.1 °C	_
Conclu	te deviation: ± 0.1 pH Valuation: PASS / FAIL	ecretical values of pH Standard Solution #2 = ze	0.06		
Conclu	ce of the measured and the e deviation: <u>± 0.1 pH Val</u>	ecretical values of pH Standard Solution #2 = ze	O · Ob		
Conclu In-Situ	ce of the measured and the deviation: <u>0.1 pH Vah</u> usion: <u>PASS / FAIL</u> Measurement Reco	ecretical values of pH Standard Solution #2 =e	Results Effluent		1
Conclu In-Situ	ce of the measured and the deviation: <u>0.1 pH Vah</u> usion: <u>PASS / FAIL</u> Measurement Reco	ecretical values of pH Standard Solution #2 = rd: 1st measurement (Time & 3 CATA): 10.1	Results Effluent Obst 27.0 °C		7
Conclu In-Situ	ce of the measured and the deviation: <u>0.1 pH Vah</u> usion: <u>PASS / FAIL</u> Measurement Reco	td: 1st measurement (Time: \$.3 (Arrn): [0.1] 2nd measurement (Time: \$.3 (Arrn): [0.1]	Results Effluent Out 270°C		
Conclu In-Situ	ce of the measured and the deviation: <u>0.1 pH Vah</u> usion: <u>PASS / FAIL</u> Measurement Reco	tst measurement (Time: \$ - 3 CATT) Dut 2nd measurement (Time: \$ - 3 CATT) Dut 2nd measurement (Time: \$ - 3 CATT) Dut 3rd measurement (Time: \$ - 3 CATT) 2 March	Results Effluent Oast 27.0 °C 12.4-27.6 °C		
Conclu Conclu In-Situ	ce of the measured and the deviation: p.0.1 pH Val- usion: PASS / FAIL Measurement Recording Parameters	1st measurement (Time \$.3 SATT) 10.1 2nd measurement (Time \$.3 SATT) 10.1 2nd measurement (Time \$.3 SATT) 10.2 4th measurement (Time 1.2 SATT) 2.1 5th measurement (Time 1.2 SATT) 10.4	Results Effluent Obst 87.0 °C 2 sc72.0 °C 3 sc72.1 °C 0 sc85.1 °C 0 sc85.1 °C		
Conclu Conclu In-Situ	ce of the measured and the deviation: p.0.1 pH Val- usion: PASS / FAIL Measurement Record Parameters	tst measurement (Time \$.35ATO) 0.1 2nd measurement (Time \$.35ATO) 0.2 2nd measurement (Time \$.35ATO) 0.3 4th measurement (Time \$.35ATO) 0.5 5th measurement (Time \$.35ATO) 0.5	Results Effluent 20st 27.0 °C 20 at 27.6 °C at 27.6 °C bat 27.9 °C 0 at 28.1 °C colon 27.9 °C 0 at 28.2 °C		T
Conclu Conclu In-Situ	ce of the measured and the deviation: p.0.1 pH Val- usion: PASS / FAIL Measurement Record Parameters	tst measurement (Time: 8-3 CATT) 0.1 2nd measurement (Time: 8-3 CATT) 0.1 2nd measurement (Time: 0.3 CATT) 2.5 4th measurement (Time: 1) 3 CATT) 2.5 5th measurement (Time: 1) 3 CATT) 2.5 5th measurement (Time: 1) 3 CATT) 2.5 7th measurement (Time: 1) 3 CATT) 2.5 7th measurement (Time: 1) 3 CATT 3.5 7th measurement (Time: 1) 3 CATT 3 C	Results Effluent 20st 27.0 °C 20 at 27.6 °C at 27.6 °C bat 27.9 °C 0 at 28.1 °C colon 27.9 °C 0 at 28.2 °C		T
Conclu Conclu In-Situ	ce of the measured and the deviation: p.0.1 pH Val- usion: PASS / FAIL Measurement Record Parameters	tet measurement (Time \$.3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Results Effluent 20st 27.0 °C 20 at 27.6 °C 20 at 27.7 °C	Receiving Body of Water Unstream	
Conclu Conclu In-Situ	ce of the measured and the deviation: p.0.1 pH Val- usion: PASS / FAIL Measurement Record Parameters	1st measurement (Time: 8-3 (Arr)) 0.1 2nd measurement (Time: 8-3 (Arr)) 0.2 3rd measurement (Time: 1) 2.5 Arr) 2.7 3th measurement (Time: 1) 3.5 Arr) 2.7 5th measurement (Time: 2) 3.5 Arr) 0.1 7th measurement (Time: 3, 3.5 Arr) 0.1 8th m	Results Effluent Obst 27.0 °C 0 st27.5 °C 0 st27.5 °C 0 st27.9 °C 0 st28.2 °C 33st28.0 °C	tecelving Body of Water Upstream	0.000
Conclu Conclu In-Situ	ce of the measured and the deviation: p.0.1 pH Val- usion: PASS / FAIL Measurement Record Parameters	1st measurement (Time: \$-3 SAM) 21 1st measurement (Time: \$-3 SAM) 22 2nd measurement (Time: \$-3 SAM) 22 3nd measurement (Time: \$-3 SAM) 22 3nd measurement (Time: \$-3 SAM) 22 3nd measurement (Time: \$-3 SAM) 23 SAM 24 2nd measurement (Time: \$-3 SAM) 22 2nd measurement (Time: \$-3 SAM) 2nd measurement (Time: \$-3 SAM	Results Effluent Oat 27.0°C 0 a-27.5°C 0 a-27.5°C 0 a-27.5°C 0 a-27.5°C 0 a-27.5°C 1 a-27.6°C 2 a-27.5°C 1 a-27.6°C 2 a-27.6°C	ement (Time: ;): rement (Time: ;):	170
Officency folerance In-Situ	ce of the measured and the deviation: p.0.1 pH Val- usion: PASS / FAIL Measurement Record Parameters	st measurement (Time: \$.3 SAM) Sh measurement (Time: \$.3 SAM) Th measurement (Time: \$.3 SAM) Average \$\frac{14}{12} \text{ at \$\frac{1}{2} \text{ at \$\frac{1}	Results Effluent Obst 27.0°C 0 at 27.0°C 0 at 27.1°C 0 at 28.1°C 0 at 28.2°C A 4 9 0 C at a a a a a a a a a a a a a a a a a a	ement (Time: ;); rement (Time: ;);	170
Conclu Conclu In-Situ	ce of the measured and the deviation: p. 0.1 pH Vah usion: PASS / FAIL Measurement Recor Parameters	1st measurement (Time \$.3 \$\text{SMM} Dollars 1st measurement (Time \$.3 \$\text{SMM} Dollars 2nd measurement (Time \$.3 \$\text{SMM} Dollars 3nd measurement (Time \$.2 \$\text{SMM} Dollars 4th measurement (Time \$.2 \$\text{SMM} Dollars 5th measurement (Time \$.3 \$\text{SMM} Dollars 4th measurement (Time \$.3 \$\text{SMM} 2nd measurement (Time \$.3 \$\text{SMM} 3nd measurement (Time \$.3 \$\text{SMM} 3nd measurement (Time \$.3 \$\text{SMM} 3nd measurement (Time \$.3 \$\text{SMM} 4th measurement (Time \$SMM	Results Effluent Other 27.0°C 0 as 27.0°C 0 as 27.1°C 0 as 27.1°C 0 as 27.1°C 0 as 28.2°C A 4 9.0°C as 28.0°C A 4 9.0°C A 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ement (Time:): rement (Time:): rement (Time:):	1111
Officency folerance In-Situ	ce of the measured and the deviation: p. 1 pH Valusion: PASS / FAIL Measurement Reco Parameters pH Temperature	st measurement (Time: \$-3 SAM) 2.1 Sth measurement (Time: \$-3 SAM) 2.1 Sth measurement (Time: 1) 3.5 AM) 2.1 Sth measurement (Time: 1) 3.5 AM) 2.1 Sth measurement (Time: 1) 3.5 AM) 2.1 Sth measurement (Time: 2, 3.5 AM) 2.1 Sth measurement (Time: 2, 3.5 AM) 2.1 Sth measurement (Time: 2, 3.5 AM) 2.1 Average 41 at 2.5 AM) 2.1 Ind measurement (Time: 3, 3.5 AM) 3.1 Sth measurement (Time: 1, 3.5 AM) 3.1 Sth	Results Effluent Obst 27.0 °C 0. st25.0 °C 0. st25.1 °C 0. st25.1 °C 0. st25.2 °C 0. st25.2 °C 1. st measure 1. st mea	ement (Time:): rement (Time:): rement (Time:): rement (Time:): rement (Time:):	n file
Officency folerance In-Situ	ce of the measured and the deviation: p. 1 pH Valusion: PASS / FAIL Measurement Reco Parameters pH Temperature	1st measurement (Time \$.3 \$\text{CMT} \text{Dol} 1st measurement (Time \$.3 \$\text{CMT} \text{Dol} 2nd measurement (Time \$.3 \$\text{CMT} \text{Dol} 2nd measurement (Time \$.3 \$\text{CMT} \text{Dol} 3nd measurement (Time \$.3 \$\text{CMT} \text{Dol} 4th measurement (Time \$.3 \$\text{CMT} \text{Dol} 5th measurement (Time \$.3 \$\text{CMT} 2nd measurement (Time \$.3 \$\text{CMT} 3nd measurement (Time \$.3 \$\text{CMT} 3nd measurement (Time \$.3 \$\text{CMT} 5th measurement (Time	Results Effluent 20st 27.0 °C 2 at 27.6 °C 2 at 27.6 °C 2 at 28.0 °C 2 at 28.0 °C 2 at 28.0 °C 3 at 28.0 °C 3 at 3 o °C 3 at	ement (Time:): rement (Time:): rement (Time:):	
Officency folerance In-Situ	ce of the measured and the deviation: p. 1 pH Valusion: PASS / FAIL Measurement Reco Parameters pH Temperature	st measurement (Time: \$-3 SAM) 2.1 Sth measurement (Time: \$-3 SAM) 2.1 Sth measurement (Time: 1) 3.5 AM) 2.1 Sth measurement (Time: 1) 3.5 AM) 2.1 Sth measurement (Time: 1) 3.5 AM) 2.1 Sth measurement (Time: 2, 3.5 AM) 2.1 Sth measurement (Time: 2, 3.5 AM) 2.1 Sth measurement (Time: 2, 3.5 AM) 2.1 Average 41 at 2.5 AM) 2.1 Ind measurement (Time: 3, 3.5 AM) 3.1 Sth measurement (Time: 1, 3.5 AM) 3.1 Sth	Results Effluent 20st 27.0 °C 2 at 27.6 °C 2 at 27.6 °C 2 at 28.0 °C 2 at 28.0 °C 2 at 28.0 °C 3 at 28.0 °C 3 at 3 o °C 3 at	ement (Time:): rement (Time:):	1
Officency folerance In-Situ	ce of the measured and the deviation: p. 1 pH Valusion: PASS / FAIL Measurement Reco Parameters pH Temperature	tat measurement (Time: \$ -3 CATT) 0.1 2nd measurement (Time: \$ -3 CATT) 0.2 2nd measurement (Time: 1) -3 CATT) 2.3 4th measurement (Time: 1) -3 CATT) 3.5 5th measurement (Time: 1) -3 CATT) 3.7 5th measurement (Time: 1) -3 CATT) 3.7 Average 49 at 25 10 Effluent 1at measurement (Time: 2, 3 CATT) 3.7 2nd measurement (Time: 3, 3 CATT) 3.7 4th measurement (Time: 3, 3 CATT) 3.7 4th measurement (Time: 3, 3 CATT) 3.7 5th measurement (Time: 3, 3 CATT) 3.7 5th measurement (Time: 3, 3 CATT) 3.7 7th measurement (Time: 3, 3 CATT) 7.7	Results Effluent Oat 27.0°C 0 a 27.0°C 0 a 27.1°C 0 a 27.1°C 0 a 28.2°C 0 a 28.2°C 0 a 28.2°C 2 a 2 a 2 a 2 a 2 a 2 a 2 a 2 a 2 a 2	ement (Time:): rement (Time:):	1 110
Conclusion Situation 1	ce of the measured and the deviation: <u>p.0.1 pH Valusion</u> : <u>p.1.1 pH Valusion</u> : <u>PASS / FAIL</u> Measurement Recompanies Parameters pH Temperature (*C)	tst measurement (Time: \$ -3 CATT) 0.1 Ind measurement (Time: \$ -3 CATT) 0.2 Ind measurement (Time: 1) -3 CATT) 2.5 Ind measurement (Time: 1) -3 CATT) 3.5 Ind measurement (Time: 1) -3 CATT) 3.5 Ind measurement (Time: 1) -3 CATT) 3.5 Ind measurement (Time: 2) -3 CATT 3.5 Ind measurement (Time: 2) -3 CATT 3.5 Ind measurement (Time: 2) -3 CATT 3.5 Ind measurement (Time: 3) CATT 3.5 I	Results Effluent Obst 27.0 °C 0 st25.0 °C 0 st25.1 °C Obst27.9 °C 0 st25.2 °C O st25.2 °C	ement (Time:): rement (Time:):	12.00
Conclusion Situation 1	ce of the measured and the deviation: p. 1 pH Valusion: PASS / FAIL Measurement Reco Parameters pH Temperature	tst measurement (Time: \$ -3 CATT) 0.1 Ind measurement (Time: \$ -3 CATT) 0.2 Ind measurement (Time: 1) -3 CATT) 2.5 Ind measurement (Time: 1) -3 CATT) 3.5 Ind measurement (Time: 1) -3 CATT) 3.5 Ind measurement (Time: 1) -3 CATT) 3.5 Ind measurement (Time: 2) -3 CATT 3.5 Ind measurement (Time: 2) -3 CATT 3.5 Ind measurement (Time: 2) -3 CATT 3.5 Ind measurement (Time: 3) CATT 3.5 I	Results Effluent Oat 27.0°C 0 at 27.0°C 0 at 27.1°C 1 at measure at the measure at	ement (Time:): rement (Time:):	1 110

terms_and_conditions.htm and and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.



Report No. : CH:TX:1442012243

ISSUE DATE: 18/03/2023

Factory Name:	In-situ Measurement Record (ZDHC WW Test Program)
Factory Address: Sampling Date:	
Sampling Time:	omog Willer (Intel) Unimplied Wastewater (Botton Treatment) Ettuent (After Treatment) Studge
GPS Data:	
In-Situ Messurement Reco	d (Cont'd):
No. Parameters	Elfluent Control of the Control of t
	is make amen's (1006 \$.35 Am) Il Colours Ghedan Grown Glaue Na Caraur Others, please specify
1	Patowash Process Grown Line Inc Carolin Disease passes Specty
	Detaymination: [150/neartive Nat offensive
	2nd measurement (Time 4)-35AM:
	Yalicesh Raddish Brown Blue No Colour Others please specify:
	Chars, please specify:
	□pficetve □ Not offensive 3nd reconstruction (Time No. 35 ffff)
	g Colour: ☐ Yeldwith ☐ Blad 55:7 ☐ Brown ☐ Blue ☐ No Colour ☐ Others, please specify ☐ ☐ Nothership
	Light Date: Very Dan: Opaque Others, please specify:
	an measuromam (Time 1) - 3,7900
	I) Colour: ☐ Yellowsh ☐ Reddish ☐ Brown ☐ Bus ☐ No Colour ☐ Others, please specify
	ii) Internality: Uight Dork Very Dark Opaque Others, picase specify: Debuggination:
3 Visible Golour	Onforeian Not offersive Sin measurement (Time: 12:35 pm
	() Colour (2.3)
	Intensity:
	Detergefication:
	6) neasuwent (The: -3.5 pm) () Colour: () Velowith () Receicht () Brown () Blue () No Colour () Others, please specify:
	II) Interietry: □ Light Coark □ Very Dark □ Coapus □ Others, please specify:
	Determination:
	Th measuranters (Times Q.3) PM
	Yellowish Rossish Brown Slue Inc Colour Others, please specify
	Ught Golde Very Cork Cpaqua Olivers, presse specify
	Average: I) Colour:
	Yestowich Graddish Brown Blue No Colour Others, please specify
	Cluye Codes Very Dark Opeque Oliners, please specify Detyrification Measure Not offensive
	1 mei coenistas
N.A □	D. L.
Prepared By Mano	Echalar 12 07-03-23
Checked By VIVALA	1-P pare 07-03-23

terms_and_conditions.htm and and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.



Report No. : CH:TX:1442012243

ISSUE DATE: 18/03/2023

Factory Name: Factory Address:	c	:69		
Sampling Direct			In-situ Measurement Record (ZDHC WW Test Program)	
Sampling Date:		The state of the s		
Springling Location: Internation Water (cold)				
Results Results Results Results Results Results	Samp	ling Time:	ning Water (inlet) Surregied Washessier (Before Treatment) Effluent (After Treatment) Studge	
No.			141, 141 - 1	
No. Partition	In-Site		(Cont'd):	
n Color: Similar to the local of aerotion basis Not similar to the local in aerotion basis 0 (Instancement Tend 1	No.	Parameters	Location:	
Operation			Tel means, remeted (Time: 8:35 PMO)	
Persistent Foom Persistent	4 1		ii) Dissipaling: □Ves □ No	
Determination: Foom She Form She For			iii) Thickenosa (by visual estimation): Not thicker than 45cm Pricker than 45cm Pricker than 45cm	
Colon Smith to the fuel of neuroloon Not thicker than \$5cm Postater than \$5cm			Determination: Form No Form	
Dissiplating: Price No.			2nd measurement (TimeC 55 FMT) II Color: Smiler to the liquid in peration basin Not similar to the liquid in peration basin	
April Posm contains within aeration basin: Ves Prior			ii) Dissipating: Livin No	
Color Strate to the Supul in secretion basin Not similar to the Signid in secretion basin			N) Foam contains within aeration basin: Yes (No	
Culor Similar to the liquid in aerasion basin Not similar to the liquid in aerasion basin	- 11			
III] Thicknese (by visual estimation): Not thicker than 45cm Thicker than 45cm Vr Fram contains within sention basin: Yes			I) Color: Smiler to the liquid in sension basin Not similar to the liquid in sension basin	
V Fearm contains within seration basin: Yes P46 Determination: Fearm P46 Fearm Not smalar to the liquid in seration basin Not present Not smalar to the liquid in seration basin Not present Not smalar to the liquid in seration basin Not present Not present Not present Not smalar to the liquid in seration basin Not present	F 71			
It measurement (Time: -35 197)			IV] From contains within seration basin: Yes Mo	
Color: Similar to the locud in aeration basin Not emisar to the locud in aeration basin B) Disalpating: Yes No B) Disalpating: Yes No Thickenses (by visual settimation): Hot thicker than 45cm Yes Ano Determination: Form Yes Ano Determination: Form Yes Ano Determination: Form Yes Ano Determination: Gintar to the locular in aeration basin Hot sentar to the locular in sersition basin III Disalpating: Yes No III III Not sentar to the locular in sersition basin III Disalpating: Yes No Determination: Form Yes Yes No Determination: Form Yes Yes No Determination: Yes Ano Determination: Yes Ano Determination: Yes No				
B) Thickeness (by visual estimation): Not bicker than 45cm Thicker than 45cm Persistant Fosm Determination: Fosm Fosm Fosm Propagation P	100		i) Color: Similar to the liquid in aeration basin Mot similar to the liquid in seration betin	
Determination: Foam 1/10				
Stonessurery (Time: 2-35 PD	120	Burkeya Para		
III Dissipating: Feat No	D 175	Parasonic Posisi	5th measurement (Time: [2-3] Ptr)	
III Thickeness by visual estimation): Not bicker than 45cm Thicker than 45cm No Feam Two Feam T	91.1			
Determination: Foam Mo Foam Rot near Rot near	1		III) Thickeness (by visual estimation): [] Not tricker tran 45cm [] Thicker than 45cm	
State Part				
III Dissipating: Yes No III Thickness by visual estimation; Not buser than \$5cm Thicknes than \$5cm No Feam contains within serating basin: Yes Mo Determination: Feam Feam Mot similar to the liquid in seration basin II Dissipating: Yes No III Dissipating: Feam No Dissipating: Yes No Dissipating: Yes No Dissipating: Feam Dissipating: Yes No Dissipating: Feam Dissipating: Feam Dissipating: Yes No Dissipating: Feam Dissipating: Feam Dissipating: Yes No Dissipating: Feam Dissipating: Yes No Dissipating: Feam Dissipating: Yes No Dissipating: No Dissipating:			6th measurumage (Time: /-35 PM)	
V) Four contains within a sarting basin: Yes 246				
Determination: Feam Free Feam Free Feam The Country of the Section bears Not similar to the liquid in seration bears Not series No			III) Thickeness (by visual estimation): Not thicker than 45cm	
			Determination: Foam The Foam	
			Color: Smiler to the load in Secution basin Not similar to the liquid in secution basin	
In y Four contains within seration busin: Yes Me			III Dissipating: [Yes No	
Determination: Foam No Foam				
			Determination: Foam ZNo Foam	
	= 0		is Color: O Smiles to the Section position basin. O Not smiles to the fould in sensition basin	
Prepared By Many Pubakas - K Dain 07-03-23			II) Dissipating: Circs Ci No	
Prepared by Mano, Puebakas. K Dain 07-03-23			W FORM contains within exercise besin poly: TYes VNo	
Prepared by Manof Prebakas. K Date 07-03-23 Crecked By Devard - P Devard - P	41.0	100	Detarmination: Foam GNs Fuam	
Crecial By Devard - P				
Crecised By Devarag - P Come 07-03-23	an Pare	Mauria	21	
Date: 07-03-23	Prepa	Dayles	Cala 01-03-25	
	Check	ed by	4-P 011-03-23	
lasses 570 RSTS-WW-Dd				Issue 5 / Oc

terms_and_conditions.htm and and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.



ISSUE DATE: 18/03/2023

Report No. : CH:TX:1442012243

Facto	ry Name: ry Address:	<u>In-situ Measurement</u>	Record (ZDHC WW Test Program)	
Samp	ling Date: ling Time: ling Location: incom	ong Water (mict) Suntrealed Westewater (Before Treatme	on() Effuent (Affar Treetmant), Saudge	
GPS I		TO THANK STORY 22		
	: Measurement Record	Inventory No.		
No.	Parameters	Inventory No.:	Nosulta Programma Programma	MICEOUSE CENTRE
			Effluent assurement:	Reading of Factory's Wastewater
		1st measurement (Time 8.35AtV)	asurement:	Discharge Flow Meter:
		Sampling point WNN Discharged Outful Volume of sampling container: (b) Time to filled up the sampling contaiger: (b)		
		2nd measurement (Time 9, 557)) Sampling point: WWW Discharged Outlet Volume of sampling container:	Samping point WW Tank / WW Discharged Change) Cross section area of sampling point [m²] Flow vectory at sampling point [m²]	2nd measurement (Time: ;):
-		Time to filled up the sampling cognitiver: 1 () Washevoler flowfells S b 4 3rd measurement (Time / O - 3/74/7)	Wastewater Rowale:	3rd measurement (Time: ;):
		Sampling point WW Discharged Cude! Volume of sampling container.	Sampling point <u>VAV Tam / VAV Discharged Channel</u> Cross section area of sampling point	
		(C) Time to filed up the camping container (Missimoster foursite S.b19-4th measurement (Time)] -3 () (77)	Wastewater flowrete:	4th measurement (Tinte:
	Wastewater Flowrate (m³/day)	Samping point WW Dechanged Outer Volume of samping container (L) Time to filed up the samping container	Sampling point: WWV Tank / WWV Decramed Chiennel Drass section area of sampling point (m²) Flow velocity of sampling point (m²s) Wastewater Rowate	
		Str. measurements (Time / Q. 35 pm)	ion ² det de A	Sth measurement (Time 1)
		Sampling point: VAV Discharges Circle! Volume of sampling containe: (ii) Time to filled up the sampling containe:	Sampling point: WWTare / WW Discharged Channel Cross section area of sampling point: (m²) Flow velocity of sampling point (mx) (yes) Westisware flows/sic	
		Eth measurement (Time: 1.35 pm	Om ³ Selection	Str messurement (Time: ;);
		Samping point VAV-Dechanges Curter Volume of semping container Time to filed up the exemping container Valuewater Sowrate:	Sampting point: WWW Tank (WWW Discharged Chemne) Cross section area of sampling point: [m²] (m²) Wastweeter flownist: (m²s)	
		to wearen the A. 32 bill.	Am ³ bitterit	7th measurement (Time: ;):
		Sampling point WAY Decrated Outer Volume of sampling container: (L)	Sampling point: <u>y/w Tank / WW Dispherood Crannel</u> Cross section area of sampling point	
		Westewater four ste	Wastewater (bowrate)	Average: [m²/d
_	Calculation		"	[54,10]
	070071000	Sampling point: WW Discharged Cuttet	Sampling point: WW Tank / WW Discharged Channel	
		Wasterster flow (m ² (day) = Volume of sampling container (i.)	Wastamater flow (or ligary) a Cross section area (or) a Flow velocity lesis (a 8405	
		Time required to Rivap (s)	Cross services	
			ATTENDED BETTER MANAGEMENT	
repare	Mano)	Zeabakar. K ·P	Date: 07-03-23 Date: 07-03-23	
hecke	d By:		Detail () 1 - 0 3 - 0 5	
				102.55.50.08240.0
				Issue 5 / Oct 2 RSTS-WW-D-001

terms_and_conditions.htm and and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.



Report No.: CH:TX:1442012243 ISSUE DAT

ISSUE DATE: 18/03/2023

=	U	•	٠.	•	Л.	 T 7	20	1 4	 TJ	

	ry Name:	In-situ Measurement Record (Z	The Late	
	ry Address:			
	oling Time:	84		
		ning Water (Inlet) Untreated Wastewater (Bef	Ore Treatment TEfficient (After Tenatment)	Terran
SPS I	Data:		ore Treatment)	Sludge
- 014		274427W66438		
	u Measurement Record			
Equipm	nent: <u>Dissolved Oxygen Meter</u> nent: <u>Colorimeter</u>	Inventory No.: E - 180		
quipn	nent Conductivity Meter	Inventory No.:		
No.	Parameters		Results	- Comment (1975)
			Effluent	The Faith of Table
		tst measurement (Time: 8-35/APV)	11-0	
- 1		3rd measurement (Time: 9.35/Am)	10.5	
6	Dissolved Oxygen	4th measurement (Time) 1-35 Pm)	11-4	
871	(mg/L)	5th measurement (Time: 12.35 Pm):	9.9	
- 1		6th measurement (Time: 1-35-Pm):		
		7th measurement (Time: 2.35 pm)	9.5	
	-0.00	Average:	10:5	
	No. of the Co.	PERCEPTED TO THE THE PARTY	Effluent	THE PERSON NAMED IN
		1st measurement (Time: § .35April	0	A STATE OF THE STA
		2nd measurement (Timeq .3(Am)	0	
2	Total Chlorine	3rd measurement (Time /p. 35Am)	0	
7	(mg/L)	4th measurement (Time: /) - 35 Am	0	
		5th measurement (Time: 12-3:Tpm)	0	
1		6th measurement (Time: 7-35pm)	0	
		7th measurement (Time: 2.35)M Average:	0	
		GENERAL COMPANY OF THE PARTY OF	0	
		1st measurement (Time: S -35 And)	Effluent	THE REAL PROPERTY.
		2nd measurement (Time & north	12.4	
1 2	Conductivity	3rd measurement (Time to 3-9a)	12.0	
8	(µS/cm)	aut measurement (Time 1) 2 COO)	11.8	
		5th measurement (Time13, October)	11.0	
	mslam	6th measurement (Time 1 2000)	121.21	
		7th measurement (Time: 2-3) pm	19.0	

JOE No.: 2342805562 Page 33 of 38 Control No.:1442513325
This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/



ISSUE DATE: 18/03/2023

Report No. : CH:TX:1442012243

GPS Data:	105, #15b		DB	IN	husteri	I as	ua, 1	Jachan	agalli,	Shim	oga-
Sampling Date: Sampling Time: Sampling Location:	coming Water (Invet)	2.	NR O	INC	minus	uw	- T	Torchor	Halle,	2/00/10	7
Sampling Time: Sampling Location: In GPS Data:	coming Water (Irret)		F 0.	3-2	1023						
GPS Data:	coming Water (Intet)			9m -	2.15				/		
				362	(Before Tre	-	100000000000000000000000000000000000000	(Aner Treate	nent) Lysic	inge	
			. 8 1	3ha	, 13·E	432	40				
Sampling Method:											
	6-hr composite , please specify:					_					
	364940700100										
Discharge Method: □Direct	□ Indirect □	Zero Liquid	f Dischi	rce (ZLD)						
Lighter	Distollent 15	12010 Equit									
Calibration Record:											
Equipment: pH Meter Equipment: Thermometer	Inventory No.:			_							
Calibration Point: 4			10.00- (-	pleasa de	late the ins	ppropriat	e one)				
Result		-						Henry	red Value		-
Standard Solution pH Standard Solution #1		H Value =	retical	at	°C			H Value =	at	*c	
		H Value =	_	at	°C			H Value =	at		
pH Standard Solution #2 Difference of the measured and in Difference of the measured and in Tolerance deviation: ± 0.1 pH Volume Conclusion: PASS / FAIL	theoretical values of p theoretical values of p	H Standard	Solution Solution	n#1 = _				***************************************		*c	
Difference of the measured and in Difference of the measured and in Tolerance deviation: ± 0.1 pH Vs. Conclusion: PASS / FAIL In-Situ Measurement Reco	theoretical values of p theoretical values of p alue	H Standard	Solution	n#1 = _						*c	
Difference of the measured and obliference of the measured and of Tolerance deviation: ± 0.1 pH Vol Conclusion: PASS / FAIL	theoretical values of p theoretical values of p alue	H Standard	Solution	n#1 = _		Result			V41 - 1112	*C	3.0
Difference of the measured and in Difference of the measured and in Tolerance deviation: ± 0.1 pH Vs. Conclusion: PASS / FAIL In-Situ Measurement Reco	theoretical values of patter theoretical values of patter ord:	oH Standard oH Standard	Solution	n#1 = _	At .	Effluer "C			111	*C	
Difference of the measured and in Difference of the measured and in Tolerance deviation: ± 0.1 pH Vs. Conclusion: PASS / FAIL In-Situ Measurement Reco	theoretical values of p theoretical values of p alue ord: 1st measurome 2nd measurome	oH Standard oH Standard ont (Time: ent (Time:	Solution)	at at	Effluer "C "C		.WA	11 2 To	*G	
Difference of the measured and in Difference of the measured and in Tolerance deviation: ± 0.1 pH Vs. Conclusion: PASS / FAIL In-Situ Measurement Reco	theoretical values of patus ord: 1st measurome 2nd measureme 3nd measureme	oH Standard oH Standard ont (Time: ent (Time:	Solution)	st s	Effluer "C "C		NA	2.51	O DW HE	
Difference of the measured and Difference of the measured and Tolerance deviation: <u>9.0.1 pH Vs</u> Conclusion: <u>PASS / FAIL</u> In-Situ Measurement Rec. No. Parameters	theoretical values of p theoretical values of p able ord: 181 measurem 2nd measurem 4th measurem 5th measurem 5th measurem	oH Standard oH Sta	Solution)	at at	Effluer "C "C		NA		·C	321
Difference of the measured and Difference of the measured and Tolerance deviation: <u>9.0.1 pH Vs</u> Conclusion: <u>PASS / FAIL</u> In-Situ Measurement Rec. No. Parameters	theoretical values of p theoretical values of p theoretical values of p alue 1st measureme 2nd measureme 3nd measureme 6th measureme 6th measureme	oH Standard oH Sta	Solution		at st at at at at	Effluer "C "C "C "C "C		NA	2021	Common and the common	
Difference of the measured and Difference of the measured and Tolerance deviation: <u>9.0.1 pH Vs</u> Conclusion: <u>PASS / FAIL</u> In-Situ Measurement Rec. No. Parameters	theoretical values of p theoretical values of p able ord: 181 measurem 2nd measurem 4th measurem 5th measurem 5th measurem	oH Standard oH Sta	Solution		at at at at	effluer "c "c "c "c		NΑ	2.17	'C	
Difference of the measured and Difference of the measured and Tolerance deviation: <u>9.0.1 pH Vs</u> Conclusion: <u>PASS / FAIL</u> In-Situ Measurement Rec. No. Parameters	theoretical values of p theoretical values of p theoretical values of p alue 18 i measureme 2nd measureme 3nd measureme 5h measureme 6h measureme Avarage:	oH Standard oH Standard oH Standard oH Standard oH Standard oH Standard oH (Time: oH (Solution		at st at at at at	Effluer 'c 'c 'c 'c 'c 'c 'c 'c 'c '	3 it	N/A		47 W 14 (1)	
Difference of the measured and Difference of the measured and Tolerance deviation: <u>9.0.1 pH Vs</u> Conclusion: <u>PASS / FAIL</u> In-Situ Measurement Rec. No. Parameters	theoretical values of p	oH Standard oH Standard oH Standard oH Standard oH Standard oH Standard oH (Time:	Solution :		at ol ot at at at ot	Effluer C C C C C C C C C C C C C C C C C C	Recurrence	NA iving Body o	of Water Up	47 W 14 (1)	
Difference of the measured and Difference of the measured and Tolerance deviation: <u>0.1 orl Vs</u> Conclusion: <u>PASS / FAIL</u> In-Situ Measurement Rec. No. Parameters 1 pH	theoretical values of p theore	oH Standard oH Standard oH Standard oH Standard oH Standard oH Standard oH (Time:	Solution :		at st at at at at	Effluer C C C C C C C C C C C C C C C C C C	Reca measurement	N/A iving Body o	of Water Up	47 W 14 (1)	
Difference of the measured and in Difference of the measured and in Tolerance deviation: £ 0.1 pit Vs Conclusion: PASS / FAIL In-Situ Measurement Rec. No. Parameters 1 pH	theoretical values of p theore	ort Standard St	Solution		at ol ot at at at ot	Effluer *C *C *C *C *C *C *C *C *C *	Recurrence	iving Body of time: out (Time: out (Time:	of Water Up	47 W 14 (1)	
Difference of the measured and Difference of the measured and Tolerance deviation: <u>0.1 orl Vs</u> Conclusion: <u>PASS / FAIL</u> In-Situ Measurement Rec. No. Parameters 1 pH	theoretical values of p theore	ort Standard St	Solution :		at ol ot at at at ot	Effluer "C	Recommended in measurement of measur	iving Body of (Time: nt (T	of Water Up	47 W 14 (1)	
Difference of the measured and in Difference of the measured and in Tolerance deviation: £ 0.1 pit Vs Conclusion: PASS / FAIL In-Situ Measurement Rec. No. Parameters 1 pH	theoretical values of p theore	on Standard Standard Standard Standard Standard Standard Time: ent (Time: ent (Tim	Solution		at ol ot at at at ot	Effluer 'C 'C 'C 'C 'C 'C 'C 'C 'C '	Reca measureme measureme measureme measureme measureme measureme measureme	iving Body of at (Teneral Control Cont	of Water Up	47 W 14 (1)	
Difference of the measured and in Difference of the measured and in Tolerance deviation: £ 0.1 pit Vs Conclusion: PASS / FAIL In-Situ Measurement Rec. No. Parameters 1 pH	theoretical values of p theore	on Standard Standard Standard Standard Standard Standard Time: ent (Time: ent (Tim	Solution School Solution Schoo		at ol ot at at at ot	Effluer "C	Recamene of measureme meas	iving Body of at (Teneral Control Cont	of Water Up:	47 W 14 (1)	



Report No.: CH:TX:1442012243

ISSUE DATE: 18/03/2023

		_	_	-	 	-			 		
Ī	П	Ш	Ш	Ш		Ш	ш	Ш	Ш	ШП	П
ı	П	Ш	IШ							IIII II	ı
ı	П	Ш	IШ							IIII II	ı
I	1	Ш	ı II						III II	11111 11	L

Factory Name: Factory Name: Sampling Date: Sampling Date: Sampling Location:	Factory Address: Sampling Date: Sampling Time: Sampling Location:
Sampling Location: Incoming Water (Inite) Unitrated Wastewater (Before Treatment) Ethewn (After Treatment) Education	Sampling Time:
Sampling Location:	Sampling Location: Incoming Water (Inite) Unitroverse (Neture Treatment) Efficient Treatment) GRS Data: In. Situ Measurement Record (Conifd); No. Parameters Record (Conifd); No. Parameters Record (Conifd); 1st measurement (Time 2 200PM) 1 Colour C
No. Parametérs Results Effluent	No. Parameters Results Effluent
Settlement Time 2 COPPO Settlement S	Seaults Settliant Settliant Settliant Settliant Settliant Seaults Settliant Seaults Settliant Seaults Settliant Seaults
St measurement (Time 2 COPN) Blue No Colour Others, please specify Green Blue No Colour Green Blue No Colour Green Blue	Ist measurement (Time 2 COP10
Colour Gradesh Reddath Brown Blue No Colour Grient, please specify: Grievale Grie	Colour Colour Colour Colour Colour Colour
Orders, please apecify Orders, please apec	2nd measurement (Time:
Upin Dark Very Dark Opaque Others, please specify:	Upin Dark Very Dark Opaque Others, please specity:
Ottorative Abtr offendative 3rd missaturement (Time:	Othersize
Sociour Colour Colour Ditema, please specify:	Justice Colour
Yetlowsh Racidsh Blown Blue No Colour Cithers, please specify: Ught Ug	
Upth Dark Very Dark Opaque Others, please specify:	Upit Dark Very Dark Opeque Others, please specify:
Colour Not Offensive Not	Officesible Not offersible Not off
Colour Colour	
Upht Dark Very Dark Opeque Others, please specify:	Upit Dark Very Dark Opeque Others, please specify: Others,
Visible Colour Offensive Not offensive Str. meaturement (Time:	Others Not offensive Not offensive X St measturement (Time: X Closur: Closur: Roodeln Brown Baue No Celour Others, place specify: Light Others Others, place specify: Light Others Others, place specify: Others, place specify:
Str meaturement (Time:	Str measurement Time:
Yeslowish Racdish Brown Blue	Yelowish
Light Oak Very Dark Opaque Others, please specify:	Light Dark Very Dark Ophque Ofhera, please specify: Determination: Not offersive Not offersive Sin massuraners (Time:) Golour: Yellowish Reddish Brown Sine No Colour Othera, please specify: Uph Dark Very Oark Opaque Others, please specify: Obsermination: Offersive Not offersive Others, please specify: Obsermination: Offersive Not offersive Opaque Others, please specify:
Offenzive Not offenzive Stream Blue No Colour Others, please specify:	Offerable Not offerable
Upy Oark Very Oark Opaque Others, please specify	Ught Oark Very Cark Opaque Others, places specify Ottermination: Offership Other Security
Cofembre Not offensive N	Offersite [] Not offersite
Not offensive Not offensiv	LI Olivering Mai offendere
1 Geldur	The state of the s
Upt	DYSTONIST CREATED CIRCUM CIAN COME COME COME COME
Onersidue Not offeredue	Quart Days Diverges Donner Donner plants plants
Colour Others, please specify:	Onersky Not offensive
Yethowith Reddish Brown Blue No Colour Others, please specify;	l) Colour
Light Dark Very Oark Opeque Others, please specify:	Yellowish Reddish Brown Blue No Colau! Others, please specify:
II_Umenative	
Processo By Maro Prabakas. K Date: 07-03-23	Not oftenal/e
Proposed By Maroi Prabakae. K Date: 07-03-23	
Daylor 1 2	Property By Mario Probates W 07 07 07
Charled By 170 VQVQU.11	De Vagai, D
Chacked By	Chacase by



Report No. : CH:TX:1442012243 ISSUE DATE: 18/03/2023

Discharge Desthation: Discharge Desthation: Discharge Desthation: Discharge Desthation: Discharge Desthation: Discharge Desthation: Discharge Testing Test Method Sampling Date* Sampling Method* Time* End Time* Quantity* Remarks Shahi Exports Raw waste 3.87382 PV 11d Destruct 13.87382 Shahi Exports Shahi Ex		Type of Processing Facility & Activity: ETP Owned by Factory:	Yes / NO Direct (# specify sestination)	1900g, Fi	Company of the Transfer of the	السا					7	
Sample Details Sampling Date Sampling Date Sampling Method Time Quantity Remarks Shall Expects RO Remarks 13.87329 PV 1td Parameter 13.87329 Shall Expects Row Row Wart 13.87322 Shall Expects Row Wart 13.87382 DV 1td Parameter Test Method Sampling Date Sampling Method Time End Time Quantity Remarks O7-03-23 Glab 8.35Am 1 Little O7-05-25 Composite 8.35Am 235Pn 8 Litses Shall Expects Shall Expect S	n .	THE BIG CONTO	/ Indirect (# specify destination)/ ZERO Discharge	Disch	aige			Sampling date & time				
Shahi Exports Raw waste 13.87382 Shahi Exports Raw waste 13.87382 pr+ 1td 10 die 75.64325 Shahi Exports Shudge 13.87362 Shahi Exports Shudge 13.87362	5. No					Test Method	Sampling Date*	Sampling Method*		End Time*		Remarks
Shell Experts Raw waste 13.87282 07-05-25 Composite 8.35Am 235pn 81 to 28 Shell Experts Shell Exper	,	Put Ita	Walsh	75.64325			07-03-23	Great	8.30pm	8.35Am	1 litre	
Static Exports Studge 13.873621	2	Shadi Exports DV + 11d	Raw waste	13.87282			07-05-25			TWO ISSUED IN BANK		
	3	Stati Exports DV+ NFD	Sludge	13.87362				THE SERVE AND THE SERVE				-
5	. 4							Mark 1981		Kate in	ary.	
	:5	TT 4 3 111	Til				45-			P1 14		V. 1763
	5							(10)		TO.	4. P	-

JOE No.: 2342805562 Page 36 of 38 Control No.:1442513325
This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/

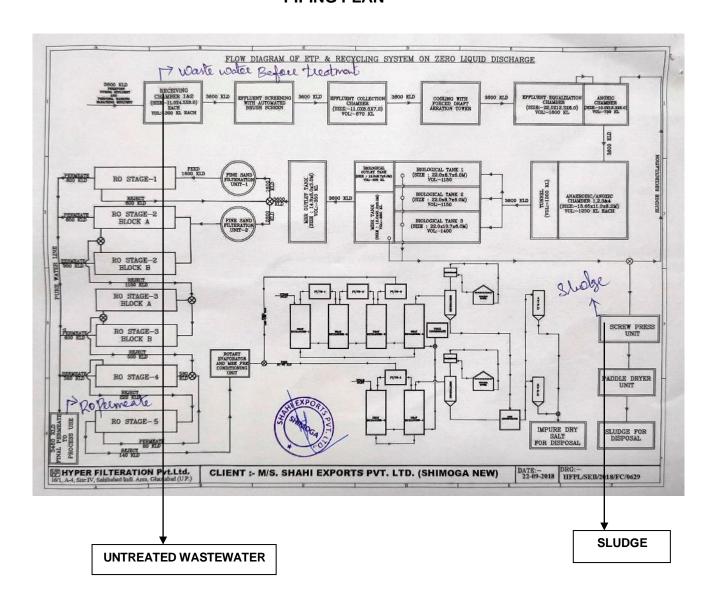
terms_and_conditions.htm and and Terms and Conditions for electronic documents www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This document cannot be reproduced except in full, without prior approval of the Company.



ISSUE DATE: 18/03/2023



PIPING PLAN



 $\mathsf{Page}\ 37\ \mathsf{of}\ 38$ Control No.:1442513325



Report No. : CH:TX:1442012243 **ISSUE DATE: 18/03/2023**

SAMPLING PHOTOS

UNTREATED WASTEWATER SLUDGE GPS Data: 13.87282 N, 75.64395 E GPS Data: 13.87262 N, 75.64320 E **SAMPLING LOCATION, CLOSE-UP VIEW SAMPLING LOCATION, CLOSE-UP VIEW**





SAMPLING LOCATION, FAR VIEW



SAMPLING LOCATION, FAR VIEW



 $\mathsf{Page}\ 38\ \mathsf{of}\ 38$