

TEST REPORT

Technical Report:	(6821)270-0207	October 12, 2021
Date Received:	September 26, 2021	Page 1 of 21
Factory Company Name : Factory Address: Client Reference No.: Sample Method:	M.N. Dyeing Printing & Washing Mills Ltd. Baniarchala, Bhabanipur, Gazipur Sadar, Gazipur, 1740, Banglac Self I001) Raw Wastewater – 6 hours Time – weighted Composite I002) Treated Wastewater – 6 hours Time – weighted Composite	
Sample Pick Up Date:September 26, 2021Discharge Type:Direct DischargeOn-Site Effluent Treatment Plant (ETP):Yes		
Wastewater Discharge to: Off-site ETP name (if applicable): Off-site ETP address (if applicable):	Labonda River Not Applicable Not Applicable	
Test Period: Sample Description:	September 27, 2021 To October 12, 2021	
	1001) Blue color liquid - Raw Wastewater 1002) Reddish color liquid - Treated Wastewater	
<u>REMARK</u> If there are questions or concerns of	on this report, please contact the following persons:	
General enquiry	Mr. Sharan Roy, Mail: sharan.roy@bureauveritas.c	com

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This report shown the test result of the auxiliary chemical and/or raw material samples, which collected during particular factory audit. The results of this report shall not be used for any regulatory compliance purposes.

* The sampling is agreed with client.

BUREAU VERITAS CONSUMER PRODUCTS SERVICES (BANGLADESH) LTD.

MD. RASHEDUL HAQUE MANAGER, RSL OPERATIONS

Bureau Veritas Consumer Products Services (BD) Ltd. Plot # 130, DEPZ Extension Area Ganakbari, Savar, Dhaka, Bangladesh Tel: 88-02-7701464-6, Fax: 88-02-7701463 E-mail: bvcps.bd@bd.bureauveritas.com website: cps.bureauveritas.com

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Executive Summary

1A) Conventional Parameters	I001	1002
Temperature		
TSS		
COD		
Total-N		
pH Value		
Color [m ⁻¹] (436nm; 525nm; 620nm)		
BOD ₅		
Ammonium-N		
Total-P	NR	
AOX		
Oil and Grease		
Phenol		
Coliform		
Persistent Foam		
ANIONS – Cyanide		
ANIONS - Sulfide		
ANIONS - Sulfite		
1B) Conventional Parameters –METALS		

Note / Key:

- D Meet Foundational Limit / Meet discharge License Criteria
- ■ Exceeding Foundational Limit / Exceeding discharge License Criteria
- NR Not Requested / Not required

ZDHC MRSL Substances	I001	1002
2A) APs and APEOs	0	0
2B) Chlorobenzenes and Chlorotoluenes	0	0
2C) Chlorophenols	0	0
2D) Azo Dyes	0	0
2E) Carcinogenic Dyes	0	0
2F) Disperse Dyes	0	0
2G) Flame Retardants	0	0
2H) Glycols	0	0
2I) Halogenated Solvents	0	0
2J) Organotin Compounds	0	0
2K) Perfluorinated and Polyfluorinated Chemicals	0	0
2L) Phthalates	0	0
2M) Poly Aromatic Hydrocarbons	0	0
2N) Volatile Organic Compounds	0	0

Note / Key :

- • Detected
- o Not Detected
- NR Not Requested / Not required



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Objective

The environment samples were tested for below parameters.

1A) Conventional Parameters 1B) Conventional Parameters - METALS 2A) APs and APEOs 2B) Chlorobenzenes and Chlorotoluenes 2C) Chlorophenols 2D) Azo Dyes 2E) Carcinogenic Dyes 2F) Disperse Dyes 2G) Flame Retardants 2H) Glycols 2I) Halogenated Solvents 2J) Organotin Compounds 2K) Perfluorinated and Polyfluorinated Chemicals 2L) Phthalates 2M) Poly Aromatic Hydrocarbons 2N) Volatile Organic Compounds

Sampling Procedure

Total number of sample collected is based on the actual factory facilities and manufacturing processes. Two environment samples were sampled per factory, 1) Raw Wastewater and 2) Treated Wastewater.

Method of sampling used is time-weighted composite samples based on the ZDHC Wastewater Guidelines. Composite sampling is performed for no less than six hours, with no more than one hour between discrete samples. Each discrete sample is of equal volume. Wastewater and freshwater samples is, as much as possible, collected simultaneously, during the time that PU is in normal operation. The sampling aims to analyse the snapshot of water quality characteristics of the operating PU. Under no circumstance shall samples be taken during times when the production process is not running or the wastewater is diluted due to heavy rainfall, etc.

Remark :

- Sampling procedure is with reference to below standards:

1) South Australia EPA Guidelines (June 2007), Regulatory Monitoring and Testing Water and Wastewater Sampling.

2) Australia EPA (Victoria) Guideline (June 2009), Sampling and Analysis of Waters, Wastewaters, Soils and Wastes.

3) ISO 5667-3:2003, Water Quality - Sampling - Part 3: Guidance on the Preservation and Handling of Water Samples.

4) ASTM D3976-92 (Reapproved 2010), Standard Practice for Preparation of Sediment Samples for Chemical Analysis.

- Field on-site photos are attached in Appendix A and field data records are attached in Appendix C.



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Test Result

1A) Conventional Parameters

Temperature

Test Method : Measurement by thermometer

Tested Item(s)	Result	Unit	Conclusion
I002	33.4 (Foundational)	deg. C	DATA

Note:

deg. C = degree Celsius (°C) Foundational Limit: ▲15 / max. 35°C; Progressive Limit: ▲10 / max. 30°C; Aspirational Limit: ▲5 / max. 25°C

Total Suspended Solids (TSS)

Test Method : Reference to ALPA 2540D, GB 11901, ISO 11923

Tested Item(s)	Result	Unit	Conclusion
1002	13 (Progressive)	mg/L	DATA

Note:

mg/L = milligram per liter Foundational Limit: 50 mg/L; Progressive Limit: 15 mg/L; Aspirational Limit: 5 mg/L

Chemical Oxygen Demand (COD)

Test Method : Reference to ALPA 5220B & EPA 410.3, HJ 828

Tested Item(s)	Result	Unit	Conclusion
1002	62 (Progressive)	mg/L	DATA

Note:

mg/L = milligram per liter Foundational Limit: 150 mg/L; Progressive Limit: 80 mg/L; Aspirational Limit: 40 mg/L

Total Nitrogen (Total-N)

Test Method : Reference to APHA 4500- N-C

Tested Item(s)	Result	Unit	Conclusion
1002	15.50 (Foundational)	mg/L	DATA

Note:

mg/L = milligram per liter Foundational Limit: 20 mg/L; Progressive Limit: 10 mg/L; Aspirational Limit: 5 mg/L



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<u>pH Value</u>

Test Method : Reference to ISO 10523, EPA 150.2 and APHA 4500-H⁺

-	Unit	Result	
Test Item(s)	-	I002	
Parameter	-	-	
Temp. of sample	deg. C	21.2	
pH value of sample	-	7.6 (Comply with ZDHC WWG requirements)	
Conclusion	-	DATA	

Note:

Temp. = Temperature Limit: 6 - 9 deg. C = degree Celsius (°C)

Color [m⁻¹] (436nm; 525nm; 620nm)

Test Method : ISO 7887: 2011(E), B

Tested Item(s)	Result	Unit	Conclusion
I002	6.6; 4.8; 2.6 (Foundational)	m ⁻¹	DATA

Note:

Foundational Limit: 7;5;3 m⁻¹; Progressive Limit: 5;3;2 m⁻¹; Aspirational Limit: 2;1;1 m⁻¹

Biochemical Oxygen Demand (BOD5)

Test Method : Reference to APHA 5210B (5 days)

Tested Item(s)	Result	Unit	Conclusion
I002	19 (Foundational)	mg/L	DATA

Note:

mg/L = milligram per liter Foundational Limit: 30 mg/L; Progressive Limit: 15 mg/L; Aspirational Limit: 5 mg/L

Ammonium Nitrogen

Test Method : Reference to APHA 4500-NH₃ – B & F 22^{nd} Edition 2012

Tested Item(s)	Result	Unit	Conclusion
I002	0.52 (Progressive)	mg/L	DATA

Note:

mg/L = milligram per liter

Foundational Limit: 10 mg/L; Progressive Limit: 1 mg/L; Aspirational Limit: 0.5 mg/L



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Total Phosphorus (Total-P)

Test Method : Reference to APHA 22nd Edition -4500-P.E (2012)

Tested Item(s)	Result	Unit	Conclusion
I002	0.41 (Progressive)	mg/L	DATA

Note:

mg/L = milligram per liter

Foundational Limit: 3 mg/L; Progressive Limit: 0.5 mg/L; Aspirational Limit: 0.1 mg/L

Adsorbable Organic Halogen (AOX)

Test Method : Reference to IHM - TTI/A-98 (Based on ISO 9562)

Tested Item(s)	Result	Unit	Conclusion
1002	0.37 (Progressive)	mg/L	DATA

Note:

mg/L = milligram per liter

Foundational Limit: 5 mg/L; Progressive Limit: 1 mg/L; Aspirational Limit: 0.1 mg/L

Oil and Grease

Test Method : Reference to EPA 1664B, APHA-5520 B and F

Tested Item(s)	Result	Unit	Conclusion
1002	1.8 (Progressive)	mg/L	DATA

Note:

mg/L = milligram per liter

Foundational Limit: 10 mg/L; Progressive Limit: 2 mg/L; Aspirational Limit: 0.5 mg/L

Phenol

Test Method : APHA 5530 C

Tested Item(s)	Result	Unit	Conclusion
1002	<0.001 (Aspirational)	mg/L	DATA

Note:

mg/L = milligram per liter

Foundational Limit: 0.5 mg/L; Progressive Limit: 0.01 mg/L; Aspirational Limit: 0.001 mg/L

Coliform

Test Method : Reference to ISO 9308-1: 2014

Tested Item(s)	Result	Unit	Conclusion
1002	14 (Aspirational)	Bacteria / 100 mL	DATA

Note:

bacteria/100 mL = bacteria per 100 milliliters

Foundational Limit: 400 / 100 ml; Progressive Limit: 100 / 100 ml; Aspirational Limit: 25 / 100 ml;



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Persistent Foam

Test Method : Visual

Tested Item(s)	Result	Unit	Conclusion
1002	No Foam (Comply with ZDHC WWG requirements)	-	DATA

ANIONS - Cyanide

Test Method	Reference to APHA 22 nd Edition-4500-CN. C&E (2012), EPA 9010C, 9013	& 9014
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Tested Item(s)	Result	Unit	Conclusion
1002	ND (Aspirational)	mg/L	DATA

Note:

mg/L = milligram per liter ND = Not Detected Foundational Limit: 0.2 mg/L; Progressive Limit: 0.1 mg/L; Aspirational Limit: 0.05 mg/L

ANIONS - Sulfide

Test Method : Reference to APHA 4500-S²⁻D

Tested Item(s)	Result	Unit	Conclusion
I002	<0.1 (Foundational)	mg/L	DATA

Note:

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mg/L = milligram per liter
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Foundational Limit: 0.5 mg/L; Progressive Limit: 0.05 mg/L; Aspirational Limit: 0.01 mg/L

ANIONS - Sulfite

Test Method : Reference to EPA 377.1, APHA $4500-SO_3^{2-}(2012)$

Tested Item(s)	Result	Unit	Conclusion
1002	1.0 (Foundational)	mg/L	DATA

Note:

mg/L = milligram per liter Foundational Limit: 2 mg/L; Progressive Limit: 0.5 mg/L; Aspirational Limit: 0.2 mg/L



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1B) Conventional Parameters - METALS

Heavy Metals	I001 (mg/L)	I002 (mg/L)
Antimony(Sb)		
Foundational Limit: 0.1 mg/L;	0.019	0.002
Progressive Limit: 0.05 mg/L;	(Progressive)	(Aspirational)
Aspirational Limit: 0.01 mg/L		
Chromium(Cr), total		
Foundational Limit: 0.2 mg/L;	0.003	0.004
Progressive Limit: 0.1 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.05 mg/L		
Cobalt(Co)		
Foundational Limit:0.05 mg/L;	ND	ND
Progressive Limit: 0.02 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.01 mg/L		
Copper(Cu)		
Foundational Limit: 1 mg/L;	0.098	0.002
Progressive Limit: 0.5 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.25 mg/L		
Nickel (Ni)		
Foundational Limit:.0.2 mg/L;	ND	ND
Progressive Limit: 0.1 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.05 mg/L		
Silver (Ag)		
Foundational Limit: 0.1 mg/L;	ND	ND
Progressive Limit: 0.05 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.005 mg/L		
Zinc(Zn)		
Foundational Limit: 5 mg/L;	0.065	ND
Progressive Limit: 1 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.5 mg/L		
Arsenic (As)		
Foundational Limit: 0.05 mg/L;	ND	ND
Progressive Limit: 0.01 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.005 mg/L	(i lopilational)	(10)11010100)
Cadmium(Cd)		
Foundational Limit: 0.1 mg/L;	ND	ND
Progressive Limit: 0.05 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.01 mg/L	((
Lead(Pb)		
Foundational Limit:0.1 mg/L;	0.001	ND
Progressive Limit: 0.05 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.01 mg/L	(r)	(
Mercury (Hg)		
Foundational Limit: 0.01 mg/L;	ND	ND
Progressive Limit: 0.005 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit :0.001 mg/L	(Spradonal)	(inspirational)
Chromium VI(CrVI)		
Foundational Limit: 0.05 mg/L;	ND	ND
Progressive Limit: 0.005 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.001 mg/L	(rispitational)	(rispirational)



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Others Priority Chemical Groups

	I001 (µg/L)	I002 (µg/L)
2A) APs and APEOs	ND	ND
2B) Chlorobenzenes and Chlorotoluenes	ND	ND
2C) Chlorophenols	ND	ND
2D) Azo Dyes	ND	ND
2E) Carcinogenic Dyes	ND	ND
2F) Disperse Dyes	ND	ND
2G) Flame Retardants	ND	ND
2H) Glycols	ND	ND
2I) Halogenated Solvents	ND	ND
2J) Organotin Compounds	ND	ND
2K) Perfluorinated and Polyfluorinated Chemicals	ND	ND
2L) Phthalates	ND	ND
2M) Poly Aromatic Hydrocarbons	ND	ND
2N) Volatile Organic Compounds	ND	ND

Remark :

- Test method, reporting limit and list of chemical are summarized in tables of Appendix B.
- ND = Not detected (Please refer to reporting limit shown in Appendix B.).
- All results are in ppb as unit.
- ppm = part(s) per million; ppb = part(s) per billion.
- NR Not Requested / Not required
- N/A Not Applicable



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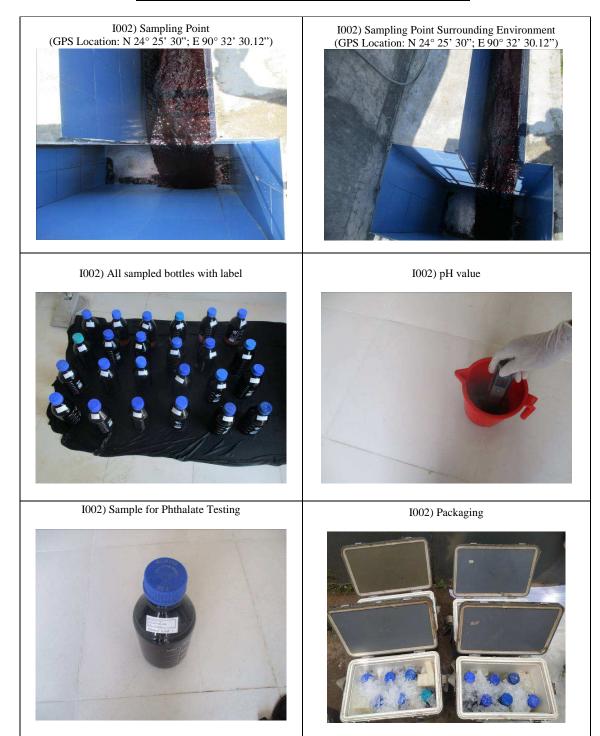


APPENDIX A - Photo of the Sample/ Sampling Location

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APPENDIX A - Photo of the Sample/ Sampling Location

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APPENDIX B

			Repor	t Limit	
			Керог		
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/(ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method
	Nonylphenol NP, mixed isomers	Various (incl. 104-40-5, 11066-49-2, 25154-52-3, 84852-15-3)	5	0.4	NP/OP: ISO 18857-2 (modified dichloromethane
2A. Alkylphenol (AP) and	Octylphenol OP, mixed isomers	Various (incl. 140-66-9, 1806-26-4, 27193-28-8)	5	0.4	extraction) or ASTM D7065 (GC/MS or LC/MS(-MS)
Alkylphenol Ethoxylates (APEOs): including all isomers	Octylphenol ethoxylates (OPEO)	Various (incl. 9002-93-1, 9036-19-5, 68987-90-6)	5	0.4	OPEO/NPEO: ISO18857-2 or ASTM D7065(LC/MS; GC/MS
	Nonylphenol ethoxylates (NPEO)	Various (inc. 9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0)	5	0.4	or LC/MSMS for n=1,2) APEO 1-18
	Monochlorobenzene	108-90-7	0.2	0.2	
	1,2-Dichlorobenzene	95-50-1	0.2	0.2	
	1,3-Dichlorobenzene	541-73-1	0.2	0.2	
	1,4-Dichlorobenzene	106-46-7	0.2	0.2	
	1,2,3-Trichlorobenzene	87-61-6	0.2	0.2	
	1,2,4-Trichlorobenzene	120-82-1	0.2	0.2	
	1,3,5-Trichlorobenzene	108-70-3	0.2	0.2	
	1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	0.2	
	1,2,3,5-Tetraclorobenzene	634-90-2	0.2	0.2	
	1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	0.2	
	Pentachlorobenzene	608-93-5	0.2	0.2	
	Hexachlorobenzene	118-74-1	0.2	0.2	
	2-Chlorotoluene	95-49-8	0.2	0.2	
	3-Chlorotoluene	108-41-8	0.2	0.2	USEPA 8260B,8270D.
2B. Chlorobenzenes	4-Chlorotoluene	106-43-4	0.2	0.2	Dichloromethane
and Chlorotoluenes	2,3-Dichlorotoluene	32768-54-0	0.2	0.2	extraction followed by
	2,4-Dichlorotoluene	95-73-8	0.2	0.2	GC/MS
	2,5-Dichlorotoluene	19398-61-9	0.2	0.2	
	2,6-Dichlorotoluene	118-69-4	0.2	0.2	
	3,4-Dichlorotoluene	95-75-0	0.2	0.2	
	3,5-Dichlorotoluene	25186-47-4	0.2	0.2	
	2,3,4-Trichlorotoluene	7359-72-0	0.2	0.2	
	2,3,6-Trichlorotoluene	2077-46-5	0.2	0.2	
	2,4,5-Trichlorotoluene	6639-30-1	0.2	0.2	
	2,4,6-Trichlorotoluene	23749-65-7	0.2	0.2	
	3,4,5-Trichlorotoluene	21472-86-6	0.2	0.2	
	2,3,4,5-Tetrachlorotoluene	76057-12-0	0.2	0.2	
	2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	0.2	
	2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	0.2	
	Pentachlorotoluene	877-11-2	0.2	0.2	
2C. Chlorophenols	2-Chlorophenol	95-57-8	0.5	0.05	USEPA 8270 D
·r · · ~	3-Chlorophenol	108-43-0	0.5	0.05	Solvent extraction,

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			Repor	t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/(ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method
	4-Chlorophenol	106-48-9	0.5	0.05	derivatisation with
	2,3-Dichlorophenol	576-24-9	0.5	0.05	KOH, acetic anhydride
	2,4-Dichlorophenol	120-83-2	0.5	0.05	followed by GC/MS
	2,5-Dichlorophenol	583-78-8	0.5	0.05	
	2,6-Dichlorophenol	87-65-0	0.5	0.05	
	3,4-Dichlorophenol	95-77-2	0.5	0.05	
	3,5-Dichlorophenol 2,3,4-Trichlorophenol	591-35-5 15950-66-0	0.5	0.05	-
	2,3,5-Trichlorophenol	933-78-8	0.5	0.05	-
	2,3,6-Trichlorophenol	933-75-5	0.5	0.05	
	2,4,5-Trichlorophenol	95-95-4	0.5	0.05	
	2,4,6-Trichlorophenol	88-06-2	0.5	0.05	
	3,4,5-Trichlorophenol	609-19-8	0.5	0.05	1
	2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	0.05	1
	2,3,4,6-Tetrachlorophenol	58-90-2	0.5	0.05	1
	2,3,5,6-Tetrachlorophenol	935-95-5	0.5	0.05	
	Pentachlorophenol (PCP)	87-86-5	0.5	0.05	
	4,4 ⁻ -Methylene-bis-(2- chloro-aniline)	101-14-4	0.1	0.2	
	4,4'-methylenedianiline	101-77-9	0.1	0.2	
	4,4`-Oxydianiline	101-80-4	0.1	0.2	
	4-Chloroaniline	106-47-8	0.1	0.2	
	3,3 ⁻ Dimethoxybenzidine	119-90-4	0.1	0.2	
	3,3`-Dimethylbenzidine	119-93-7	0.1	0.2	
	6-methoxy-m-toluidine (p- Cresidine)	120-71-8	0.1	0.2	
	2,4,5-Trimethylaniline	137-17-7	0.1	0.2	
	4,4`-Thiodianiline	139-65-1	0.1	0.2	
	4-Aminoazobenzene	60-09-3	0.1	0.2	
2D. Dyes - Azo	4-Methoxy-m- phenylenediamine	615-05-4	0.1	0.2	EN 14362. Reduction step with
(Forming Restricted Amines)	4,4`-Methylene-di-o- toluidine	838-88-0	0.1	0.2	Sodiumdithionite, solvent extraction,
	2,6-Xylidine	87-62-7	0.1	0.2	GC/MS or LC/MS
	o-Anisidine	90-04-0	0.1	0.2	-
	2-Naphthylamine	91-59-8	0.1	0.2	
	3,3`-Dichlorobenzidine	91-94-1	0.1	0.2	
	4-Aminodiphenyl	92-67-1	0.1	0.2	
	Benzidine o-Toluidine	92-87-5 95-53-4	0.1	0.2	
	2,4-Xylidine	95-68-1	0.1	0.2	-
	4-Chloro-o-toluidine	95-69-2	0.1	0.2	-
	4-Methyl-m-			0.2	
	phenylenediamine	95-80-7	0.1	0.2	
	o-Aminoazotoluene	97-56-3	0.1	0.2	1
	5-nitro-o-toluidine	99-55-8	0.1	0.2	1
	C.I. Direct Black 38	1937-37-7	500	10	
	C.I. Direct Blue 6	2602-46-2	500	10	
2E. Dyes-	C.I. Acid Red 26	3761-53-3	500	10	Liquid Extraction
Carcionogenic or	C.I. Basic Red 9	569-61-9	500	10	LIQUID EXTRECTION LC/MS
Equivalent Concern	C.I. Direct Red 28	573-58-0	500	10	
	C.I. Basic Violet 14	632-99-5	500	10	4
	C.I. Disperse Blue 1	2475-45-8	500	10	

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			Repor	t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/(ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method
	C.I. Disperse Blue 3	2475-46-9	500	10	
	C.I. Basic Blue 26 (with			10	
	Michler's Ketone $> 0.1\%$)	2580-56-5	500		
	C.I. Basic Green 4	569-64-2	500	10	
	(malachite green chloride)	309-04-2	500		
	C.I. Basic Green 4	2437-29-8	500	10	
	(malachite green oxalate)	1.07 19 0	200	10	-
	C.I. Basic Green 4(malachite green)	10309-95-2	500	10	
	Disperse Orange 11	82-28-0	500	10	-
	Disperse Yellow 1	119-15-3	500	2	
	Disperse Blue 102	12222-97-8	50	2	
	Disperse Blue 106	12223-01-7	50	2	
	Disperse Yellow 39	12236-29-2	50	2	
	Disperse Orange 37/59/76	13301-61-6	50	2	
	Disperse Brown 1	23355-64-8	50	2	
	Disperse Orange 1	2581-69-3	50	2	
	Disperse Yellow 3	2832-40-8	50	2	
2F. Dyes-disperse	Disperse Red 11	2872-48-2	50	2	Liquid Extraction
(sensitizing)	Disperse Red 1	2872-52-8	50	2	LC/MS
(sensitizing)	Disperse Red 17	3179-89-3	50	2	20/112
	Disperse Blue 7	3179-90-6	50	2	
	Disperse Blue 26	3860-63-7	50	2	
	Disperse Yellow 49 Disperse Blue 35	54824-37-2 12222-75-2	50 50	2 2	-
	Disperse Blue 35 Disperse Blue 124	61951-51-7	50	2	
	Disperse Yellow 9	6373-73-5	50	2	-
	Disperse Orange 3	730-40-5	50	2	-
	Disperse Blue 35	56524-77-7	50	2	
	Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	5	1	
	Decabromodiphenyl ether (DecaBDE)	1163-19-5	5	1	
	Tris(2,3-dibromopropyl) phosphate (TRIS/TDBPP)	126-72-7	5	1	
	Pentabromodiphenyl ether (PentaBDE)	32534-81-9	5	1	
	Octabromodiphenyl ether (OctaBDE)	32536-52-0	5	1	
2G. Flame	Bis(2,3-dibromopropyl) phosphate (BIS/BDBPP)	5412-25-9	5	1	ISO 22032, USEPA527 and USEPA8321B.
Retardants	Tris(aziridinyl)- phosphineoxide (TEPA)	545-55-1	5	1	Dichloromethane extraction GC/MS or
	Polybromobiphenyls (PBBs)	59536-65-1	5	1	LC/MS(-MS)
	Tetrabromobisphenol A (TBBPA)	79-94-7	5	1	
	Hexabromocyclododecane (HBCDD)	3194-55-6	5	1	
	2,2-Bis(bromomethyl)-1,3- propanediol (BBMP)	3296-90-0	5	1	
	Tris(1,3-dichloro- isopropyl) phosphate (TDCP)	13674-87-8	5	1	

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			Repor	t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/(ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method
	Short chain chlorinated paraffins (SCCPs) (C10- C13)	85535-84-8	5	1	
	Bis(2-methoxyethyl)-ether 2-ethoxyethanol 2-ethoxyethyl acetate	111-96-6 110-80-5 111-15-9	50 50 50	10 10 10	
2H. Glycols	Ethylene glycol dimethyl ether 2-methoxyethanol	110-71-4 109-86-4	50 50	10 10	US EPA 8270 Liquid Extraction
	2-methoxyethylacetate 2-methoxypropylacetate	110-49-6 70657-70-4	50 50 50	10 10 10	LC/MS
	Triethylene glycol dimethyl ether 1,2-Dichloroethane	112-49-2 107-06-2	50 1	10 2	USEPA 8260B
2I. Halogenated Solvents	Methylene Chloride Trichloroethylene Tetrachloroethylene	75-09-2 79-01-6 127-18-4	1 1 1	2 2 2	Headspace GC/MS or Purgeand-Trap-GC/MS
	Mono-, di- and tri- methyltin derivatives Mono-, di- and tri-butyltin	Multiple	0.01	0.2	
2J. Organotin Compounds	derivatives Mono-, di- and tri-phenyltin	Multiple Multiple	0.01	0.2	ISO 17353 Derivatisation with NaB(C2H5) GC/MS
	derivatives Mono-, di- and tri-octyltin derivatives	Multiple	0.01	0.2	
	Perfluorooctanesulfonic acid (PFOS) Perfluoro-n-octanoic acid	1763-23-1	0.01	0.10	DIN 38407-42 (modified)
2K. Perfluorinated and Polyfluorinated	(PFOA) Perfluorobutanesulfonic acid (PFBS)	335-67-1 29420-49-3, 29420-43-3	0.01	0.10	Ionic PFC: Concentration or direct injection, LC/MS(-MS);
Chemicals (PFCs)	Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	0.01	0.10	Non-ionic PFC (FTOH): derivatisation with acetic anhydride,
	8:2 FTOH 6:2 FTOH Di-2-ethylhexyl phthalate	678-39-7 647-42-7	1	1	followed by GC/MS
	(DEHP) Dimethoxyethyl phthalate (DMEP)	117-81-7 117-82-8	10 10	2 2	
	Di-n-octyl phthalate (DNOP)	117-84-0	10	2	
2L. Phthalates	Di-iso-decyl phthalate (DIDP) Di-iso-nonyl phthalate	26761-40-0	10	2	US EPA 8270D, ISO
(including all other esthers of phthalic acid)	(DINP) Di-n-hexyl phthalate (DnHP)	28553-12-0 84-75-3	10 10	2 2	18856 Dichloromethane extraction GC/MS
	Dibutyl phthalate (DBP) Butyl benzyl phthalate	84-74-2 85-68-7	10 10	2 2	
	(BBP) Dinonyl phthalate (DNP) Diethyl phthalate (DEP)	84-76-4 84-66-2	10 10 10	2 2 2	
	Di-n-propyl phthalate (DPRP)	131-16-8	10	2	

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			Repor	t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/(ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method
	Di-iso-butyl phthalate (DIBP)	84-69-5	10	2	
	Di-cyclohexyl phthalate (DCHP)	84-61-7	10	2	
	Di-iso-octyl phthalate (DIOP)	27554-26-3	10	2	
	1,2-benzenedicarboxylic acid, di-C7-11-branched and linearalkyl esters (DHNUP)	68515-42-4	10	2	
	1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	10	2	
	Benzo[a]pyrene (BaP)	50-32-8	1	0.2	
	Anthracene	120-12-7	1	0.2	
	Pyrene	129-00-0	1	0.2	
	Benzo[ghi]perylene	191-24-2	1	0.2	
	Benzo[e]pyrene	192-97-2	1	0.2	
	Indeno[1,2,3-cd]pyrene	193-39-5	1	0.2	
	Benzo[j]fluoranthene	205-82-3	1	0.2	
M. Doly Anomatio	Benzo[b]fluoranthene	205-99-2	1	0.2	DIN 38407-39
2M. Poly Aromatic Hydrocarbons	Fluoranthene	206-44-0	1	0.2	Solvent extraction
(PaHs)	Benzo[k]fluoranthene	207-08-9	1	0.2	GC/MS
(Paris)	Acenaphthylene	208-96-8	1	0.2	GC/MS
	Chrysene	218-01-9	1	0.2	
	Dibenz[a,h]anthracene	53-70-3	1	0.2	
	Benzo[a]anthracene	56-55-3	1	0.2	
	Acenaphthene	83-32-9	1	0.2	
	Phenanthrene	85-01-8	1	0.2	
	Fluorene	86-73-7	1	0.2	
	Naphthalene	91-20-3	1	0.2	
	Benzene	71-43-2	1	2	
2N. Volatile	Xylene	1330-20-7	1	2	ISO 11423-1
Organic Compound	o-cresol	95-48-7	1	2	Headspace- or Purge-
(VOCs)	p-cresol	106-44-5	1	2	and-Trap-GC/MS
	m-cresol	108-39-4	1	2	
	Temperature	—	N/A	N/A	Apply the standard
	TSS	-	N/A	N/A	methods that best apply
	COD	-	N/A	N/A	to the region (ISO, EU,
	Total-N	—	N/A	N/A	US, China), please refer
	рН	—	N/A	N/A	to ZDHC Wastewater
	Color [m ⁻¹] (436nm;	_	N/A	N/A	Guidelines for more
1A. Conventional	525nm; 620nm)		11/71	11/71	details on the testing
Parameters	BOD5	-	N/A	N/A	method and the levels
1 41411101018	Ammonium-N	—	N/A	N/A	(Foundational,
	Total-P	-	N/A	N/A	Progressive, and
	AoX	-	N/A	N/A	Aspirational).
	Oil and Grease	—	N/A	N/A	
	Phenol	-	N/A	N/A	Cyanide: With
	Coliform(bacteria/100ml)	-	N/A	N/A	reference to APHA
	Persistent Foam	_	Not	Not	4500 CN—B,C&E and

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			Repor	t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (ug/L)/(ppb)	Sludge (mg/kg) /(ppm)	Name of the testing method
			visible	visible	followed by UV
	ANIONS				analysis
	Cyanide(CN-)	Various (incl. 57-12-5)	0.02	1	
	Sulfide		N/A	N/A	
	Sulfite	—	N/A	N/A	
			Repor	t Limit	
Group	Substance (Testing parameter)	CAS No.	Wastew ater (mg/L) / (ppm)	Sludge (mg/kg) / (ppm)	Name of the testing method
	Antimony(Sb)	7440-36-0	0.001	N/A	Various
	Chromium(Cr), total	7440-47-3	0.001	N/A	Acid Digestion with
	Cobalt(Co)	7440-48-4	0.001	N/A	ICP analysis
	Copper(Cu)	7440-50-8	0.001	N/A	
	Nickel (Ni)	7440-02-0	0.001	N/A	please refer to ZDHC
	Silver (Ag)	7440-22-4	0.001	N/A	Wastewater Guidelines
1B. Conventional	Zinc(Zn)	7440-66-6	0.001	N/A	for more details on the
Parameters -	Arsenic (As)	7440-38-2	0.001	2	testing method and the
METALS	Cadmium(Cd)	7440-43-9	0.0001	2	levels (Foundational, Progressive, and
	Chromium VI(CrVI)	18540-29-9	0.001	2	Aspirational).
	Lead(Pb)	7439-92-1	0.001	2	Aspirationar).
	Mercury (Hg)	7439-97-6	0.00005	0.2	Cr(VI): Various Solvent extraction and derivatisation followed by UV analysis
3. Conventional Parameters	Dry mass (total solids)	_	N/A	N/A	US EPA 160.3 / 209A

Note / Key :

ppm = part(s) per million; ppb = part(s) per billion U. S. EPA = United States Environmental Protection Agency APHA = American Public Health Association

Remark: The report [(6821)270-0207] was sub-contracted to India (Testtex India Laboratories Pvt. Ltd) for Coliform & Total-N Tests.



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APPENDIX C – Onsite Field Data Record Sheet

FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)						ts V	CPSD-AN-00613-DATA 04 Issue Date: Version No.: 15 Business Line: Analytical			
							Susiness Lin	B: Analytical		
Def.		(68	521)~2	2-70-	020	7				
		0								
	ALU So	yed.		Phone No: O	144240	892	, ,	DI DI BAO		
nd Address)	M.N. D	yeing, 1	hinding	Fuahing	y mills	12td B	ancarci	vala, Bhanas		
englion	bloste bla	to below	e treatin	ent	J	• (razijans	, regard and		
	Zero discharge w	th sampling plai	1							
	Leomposite Samp	le / Grab sample	(Please delete a	as appropriate)						
	Alue	Sarperm					-	e		
	Direct discharge to	e (vijbnment (Spe	cify destination: Ri	ver, Sea, Stream.	.) OR Indirect discl	large to sewage tri	eatment plant	. 3		
	26/09/	21								
	Voyeing / Proting	/ Washing / Eini	etting / Others (p	lease specify)						
	*Note: It would be	selected more this	n ana							
ater										
	11:30	AM	Departure Time:		the second s					
	pH :		Temp :	°C	Color :		Flow rate :	(volume/min)		
oment					-					
atment plant		L	15			N	0			
		Incoming water	(If required)							
	1	Wastewater befo	ore treatment			÷				
		Wastewater after treatment – water at discharge point								
ser								8		
	1	2	3	4	5	6	1	0		
Time	12:00 PM	I:00PM	2:00 PM	3:00PM	4:00PM	5:00PM	NIA	N/A.		
	9.0	8.7	8.8	8.7	8.8	8.4				
	39.6	39.5	40.0	39.7	38.0	37.9				
2)			Blue	Blue	Blue	Blue				
		0.		135/12/12	194 milh	195milh				
					167×12	-167712	-			
	and the state of t				than total of samp	ale size required				
d Proservation Method										
	Test required (√)	Total of sample size	Type of container		er	Pr	hod			
1. Phthalate										
2 Chlorobenzenes,	~	1000 mL total								
3 SCCPs	V	1000 mL each								
4 APS		1								
1		100 ml								
			-							
6 Chlorophenois & Cresols		100 mL								
		500 mL					Without adding a	cid .		
7. Flame retardunt 8. Dyes		, 10 ml.	Amber	Glass,washed with	nitric acid,		Store sample at 2-	8°C		
		50 mL								
	X	1000 mL]			-				
	X	10 mL								
		2000 mL	1							
		- Cared Welliam	4							
natic amines	X	500 mL								
natic amines	X		-							
natic amines unds ed Solvents (Remark 6)	X	500 mL 500 mL 10 mL				Fill to full contain HCL	er without eir ger and store sample	s, acidity to pH 2 with at 2-8°C		
	alter alter alter alter alter alter	COMPC Der Albu Sa Abu Sa A	(COMPOSITE / INDI (COMPOSITE / INDI (COMPOSITE / INDI (CCMPOSITE / INDI Alter Sayed M.N. Opering, I Alter Mathematica M.N. Opering, I Alter Mathematica M.N. Opering, I Alter Mathematica M.N. Opering, I M.N. Opering, I M. M. N. Opering, I M.N. Ope	(COMPOSITE / INDIVIDUAL SA (COMPOSITE / INDIVIDUAL SA (COMPOSITE / INDIVIDUAL SA ABSU Sayad ABSU Sayad M.N. Of exing fright frig	(COMPOSITE / INDIVIDUAL SAMPLING) (COMPOSITE / INDIVIDUAL SAMPLING) (COMPOSITE / INDIVIDUAL SAMPLING) Abu Sayed Phone No: O M:M. N. O. O. Colspan="2">O. M. M. O. O. M. O.	(COMPOSITE / INDIVIDUAL SAMPLING) (COMPOSITE / INDIVIDUAL SAMPLING) (COMPOSITE / INDIVIDUAL SAMPLING) Albu Sayad Prone No: O R4492400 Albu Sayad Prone No: O R4492400 Albu Sayad Prone No: O R4492400 Advantage View Sample (Presse Calore as appropriate) Advantage View Sample (Presse Calore as appropriate Calore and an appropriate as appropriate and advantage View Sample (Presse Calore as appropriate and advantage View Sample (View Sample	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING) Same (CSD J) J J J J CONT ABOU Same Direct No. O 174 4 2 408 201 MAIN - O 166 Mg, Building Wallautt & R. ABOU Same Direct No. O 174 4 2 408 201 MAIN - O 166 Mg, Building Wallautt & R. Maint Colspan="2">O 174 4 2 408 201 O 174 1 2 0 A M O 184 0 100 11 O 18 Colspan="2" O 18 Colspan="2" O 18 Colspan= 100 12 0 00 PM Torig Colspan="2" <td col<="" td=""><td>FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE Insure The Composite / INDIVIDUAL SAMPLING) Set (CS21) 2.30 - 0.20 J And CS21) 2.30 - 0.20 J And CS21 J And CS22 J And S2 S And CS22 S<!--</td--></td></td>	<td>FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE Insure The Composite / INDIVIDUAL SAMPLING) Set (CS21) 2.30 - 0.20 J And CS21) 2.30 - 0.20 J And CS21 J And CS22 J And S2 S And CS22 S<!--</td--></td>	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE Insure The Composite / INDIVIDUAL SAMPLING) Set (CS21) 2.30 - 0.20 J And CS21) 2.30 - 0.20 J And CS21 J And CS22 J And S2 S And CS22 S </td	

CPSD-AN-00513-DATA 04-FIELD DATA RECORD ZDHC SAMPLING-V15

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Aller					CPSD-AN-00613-DATA 04
(海湾)	FIE	LD DATA R	ECORD ON	ZERO DISCHARGE SAMPLE	Issue Date:
(贈)	1.154			IVIDUAL SAMPLING)	Version No.: 15
ana ana ang ang ang ang ang ang ang ang					Business Line: Analytical
Tests (Conver	ntional Parameters)	Test required (v)	Total of sample size	Type of container	Preservation method
Combined test or	17. Total suspened solids (TSS)	×	2000 mL total		
Individual test (Remark 4)	18 Total dissolved solids (TDS)	X	2000 mL each	Amber Glass, washed with nitric acid,	Without adding acid Store sample at 2-8°C
9 5-day Biochemical	Oxygen Demand (BOD5)	X	1000 mL		
0. Colour		×	100 mL		
1 Heavy Metals excer	at Gr(VI) & Total P (Romarit-	~	9 ml.	PE, washed with nitric acid	Acidity to pH 2 with HNO3 and store at 2-8°C
Z Cyanide		X	500 mL	Amber Glass, washed with pesticide grade acetone	Adjust pH 12 with 50% NeOH, add 0.05 ml of 10% Ne ₂ S ₂ O ₃ , and store sample at 2-8°C
23 Gr(VI)		~	95 mL		Filter by 0.45µm filter in field, fill to full container without air gap; adjust pH to 9.0-9.5 by adding ammonium buffer. Store sample at 2-8°C
4. Ghemical oxygen d	emand (COD)	×	150 mL		
25 Phenols 26 Oil and Grease & Total Hydrocarbon		×	500 mL	Amber Glass, washed with nitric acid	Acidify to pH 2 with H ₂ SO ₄ Store sample at 2-8°C
		X	1000 mL		Fill to full container without air gap; acidify to pH 2 with
7 *Formaldehyde		×	25 mL		Ha to tui container without air gap; acidity to pH 2 with H ₂ SO ₄ and store sample at 2-8°C
n Sunto Remark Sj		×	50 mL	PE, washed with pesticide grade Acetone;	Fill to full container without air gap, add 2 drops of 2M zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 2-8°C
9. Total Coliform (Ren	nark 6)	×	125 mL	PE, clean, sterile,	Add 0.1 ml of 10% Ne2_20,
0 Faecal Coliform (Re	emark 6)	×	125 mL	non-reactive	Store sample at 2-8°C
1. Persistent foam		X	N.A.	Foam higher than 45 cm (visual estimation): <u>Ves / No</u>	
2 Sulfite		×	100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA Store semple at 2-8°C
3 Total-N		×	100 mL		Acidify to pH 2 with H ₂ SO ₄
54 Ammonium-fy 35 Adisoriuable organically bound helingens (AOX) 25 Acute aquatic lownity Luminus Bacteria, Fish Egg; Daphnie, Alage,		×	500 mL		Store sample at 2-8°C
		×	100 mL		Acidify to pH 2 with \mbox{HNO}_3 and store at 2-8 $^\circ\mbox{C}$
		e, Alage, X 1000 mL		Amber Glass;washed with nitric acid,	
7 Sophate		X	100 mL		Without adding acid Store sample at 2-8°C
8. Chloride		X	100 mL		an
9 Others:		X			

*Remarks

1 Individual sampling can be performed upon request

Full name

2. The minimum sampling time for 2019 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request.

3. Scope of ZDHC guideline: Parameter 1-9, 12, 14-17, 19-26, 28, 29, 31-35

Scope of synthetic leather industry Parameter 1-9, 12, 14-21, 23-26, 26, 30, 31, 33, 34, 37, 38

Scope of MMCF. Parameter 5, 15, 17, 19-21, 23 - 26, 28, 33-36

Free primary aromatic amine, pesticides, nitrosamine and formaldehyde are not in the scope of ZDHC Guidline, they are tested upon request

4 Refer to CPSD-AN-G00019-STIP01, logctions with those CPSD test capability inside TCD matrix can perform the combined test.

5. Refer to CPSD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested.

5 Refer to CPSD AN-00513-MTHD for preparation of field blank for specific parameters. Alen Soyund

Recorded by

Date: 26/09/2021

Comment from factory

Acknowledgement by factory

I hereby confirmed that Bureau Ventas has completed the stated sampling activity at captioned date, time and location. All sample(s) is/are collected in desinated container(s) and without any observation in leakage. Sample(s) collected by Bureau Veritas isfare stored in portable freezer / fridge that is maintained to 1-6°C. Signatory of Factory Representative Date: 21 Full Name:



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	I	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)						CPSD-AN-00 ssue Date: Version No.: Business Lir	
LALANDAN			ſ	.)		0.1	2-		
meral Data			6	821)	270.	- 020	T		
per ecely Sample Numb	-11			-/			1	S	
ent Name		11 .	0.0	F	home No. 01	84424	1680		
eid Contact Person. oject (Facility Name an	d Addense)	M.N.D	Jean p	inting &		miller	ytot Ban	iaschal	a, Bhalio Sador, Go
		minib	the off	the for	washing	TUANO	in the	szipme .	Sador, Go
empling Location / Desc miple Identification	pripriori.	Zero discharge w	th sampling plan	1 Arstantin	onc		-	3-1	<
ample Type		Leomposite Samp			s appropriate)				
arre of Sample		Alu	Doniein	1		- Claled			
ischarge mode		Direct discharge to	environment (Spe	city destination: Riv	ver, Sea, Stream) OR Indirect disc	harge to sewage tr	eatment plant	
ase of conection			109/2021		l.				
actory Type		Dyeing Alenting		shing / Others (pl	ease specify)				_
Rate y Cype		"Note 11 would be							
ierd Data for Wastewa	iter								/
nival Time		11:30 H	m	Departure Time		5:30		No-foo	
eld Parameters		pН		Temp :	°C	Color: .		Flow rate .	(volume/min)
ontrol No of field equit	prnent								
many with although the	conaut phana		V	35			N	-	
			Incoming water	SAL CONSTRUCTION OF					
ample matrix			Wastewater before treatment						
			Wastewater afte	r treatment - wat	er at discharge (point			
ampiur containe) numt	0.6)	1	2	3	4	5	6	7	8 -
	ID		2	-					
Seconding time	Time	15:00PM	M400:1	M900:1	\$3:00PM	4:00pm	5:00pm	N/A	NIA
		7.0	7.2	7.5	7.8	7.5	7.8		
emp ("C)		33.1	33.0	33.4	34.0	33.2	33.5		
lolor (visual estimation	1	Redolieh	Reddiah	Redd ish	Reddial	Reddiah	Reddials		
Studios Follomentines		185m3/4	183021	187m3/m	185mg/h	18503/h	185 mm/h.		
Advise chiected mL		1677.24	167724	167824	167×24	167 ×24	167×24		
latel volume callected				volume collected r	must be greater	than total of sam	ple size required		
Analysis Required an	d Preservation Metho	i	l						
	MRSL Parameters)	Test required (∀)	Total of sample size	1	Type of contain	er	Pr	eservalion me	thod
	1 Phihalate	~							
Combined test	2 Chlorobenzenes		1000 mL total						
al Individual 1951	Chioratoluene & PA		or 1000 mL each						
(Remark 4)	3 SCCPs								
	4. APS	~		-					
E APECS			100 mL						
6 Chilorophenois & Cr	esols	-	100 mL				-		
7 Elama retretant		~	500 mL					Without adding a	acid.
7 Flame retardant				Amber	Stass washed with	nitric acid,		Store sample at 2	-8°C
6 Dyes		10 mL Amber Glass, washed with nitric acid.							
9 Glycal		-	😚 50 mL						
10 'Pesticides		×	1000 mL						11.0
		×	10 mL						
to a reaction at second				-					
1 ^{1 Th} Cubatting			2000 mL	-					
12 Discussioner		11 1225 ALS							
	maic amines	×	500 mL	_					
12 Banned Azodyes		×	500 mL 500 mL	_					
12 Bauned Azodyes	Amets	- V-		_			Fill to full contain	ter without air gap	p, acidify to pH 2 with r at 2-8°C



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	FIE	LD DATA R (COMP	ECORD ON OSITE / IND	ZERO DISCHARGE SAMPLE IVIDUAL SAMPLING)	Issue Date: Version No.: 15 Business Line: Analytical	
Tests (Conver	itional Parameters)	Test required (V)	Total of sample size	Type of container	Preservation method	
Combined test of	17. Total suspened solids (TSS)	V	2000 ml. total or			
Individual test (Remark 4)	18 Total dissolved solids (TDS)	×	2000 mL each	Amber Glass, washed with nitric acid,	Without adding acid Store sample at 2-8°C	
9 5-day Biochemical I	Oxygen Demand (BOD5)		1000 mL			
20. Celaut		V	100 mL			
1. Heavy Metals excer 51	ot Cr(VI) & Total-P (Remark	~	9 mL	PE, washed with nitric acid	Acidity to pH 2 with HNO3 and store at 2-8°C	
22. Cyanide		~	500 mL	Amber Glass, washed with pasticide grade acetone	Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% , Na ₂ S ₂ O ₃ , and store sample at 2-8°C	
23 Cr(VI)		V	95 mL		Filter by 0.45µm filter in field, fill to full container without air gars adjust pH to: 9.0-9.5 by adding ammonium buffer. Store sample at 2-8°C Acidify to pH 2 with H ₂ SO ₈	
24 Chemical oxygen d	emand (COD)	V	150 mL			
25 Phenois 26 Oil and Grease & Total Hydrocarbon		~	500 mL	Amber Glass: washed with nitric acid	Store sample at 2-8°C	
		~	1000 mL		Fill to full container without air gap, acidify to pH 2 with	
27 'Formaldehyde		X	25 mL		H ₂ SO ₄ and store sample at 2-8°C	
28 Sulfide (Remark 5)		~	50 mL	PE, washed with pesticide grade Acetone;	Fill to full conteiner without air gap, add 2 drops of 2M zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 2-8°C	
29 Total Coliform (Rer	nark 6)		125 mL	PE, cleen, storilo, -	Add 0.1 ml of 10% Na2 ₉ 2O ₃	
30 Faecal Coliform (R	emark 6)	×	125 mL	non-reactive	Store sample at 2-8"C	
31. Persistent foam		~	N.A.	Fosm higher than 45 cm (visu	ual estimation): Yes / No	
32. Sultite			100 mL	Amber Glass, washed with posticide grade acatone	Add 1mL of 2.5% EDTA Store sample at 2-8°C	
33. Total-N			100 mL		Acidity to pH 2 with H ₂ SO ₄	
34 Ammonium-N		~	500 mL		Store sample at 2-8°C	
35 Adsorbable organically bound halogens (AOX) 36 Acute advatic toxicity Limmus Bacteria Francisg, Daptime, Aloge,		家レ	100 mL	Amber Glass washed with nitric acid;	Acidify to pH 2 with HNO3 and store at 2-8°C	
		×	1000 ml.	Amoer Glass, washed with mine acid;	Without adding acid	
37 Sulphate		X 100 mL			Store sample at 2-8°C	
38. Chiloride		×	100 miL			
39 Others		x				

"Remarks

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1 Individual sampling can be performed upon request

2. The minimum sampling time for 2019 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request.

3 Shope of ZDHC guideline: Parameter 1-9, 12, 14-17, 19-26, 28, 29, 31-35

Scope of synthetic leather industry Parameter 1-9, 12, 14-21, 23-26, 28, 30, 31, 33, 34, 37, 38

Scope of MMCF Parameter 5, 15, 17, 19-21, 23 - 26, 28, 33-36

Free primary aromatic amine, pesticides, nitrosemine and formaldehyde are not in the scope of ZDHC Guidline, they are tested upon request.

4. Reter to CPSD-AN-G00019-STIP01, loactions with these CPSD test capability inside TCD matrix can perform the combined test.

5. Refer to CPSD-AN-000570.MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested.

0. Retet to: CPSD-AN-00513-MTHD for preparation of field blank for specific parameters.

Alm Doyseent Date: 26/05/2021 Recorded by Comment from factory Acknowledgement by factory Thereby confirmed that Bureau Veritas has completed the stated sampling activity at captioned date, time and location. All sample(s) is/are collected in desinated container(s) and without any observation in leakage. Sample(s) collected by Bureau Veritas is/are stored in portable freezer / fridge that is maintain Signatory of Factory Representative Full Name
Date

END

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