

# TEST REPORT

## **Technical Report:**

Date Received:

PU No. Production Unit Name: Production Unit Address: Project No.: Client Reference No.: Sample Method: (6822)069-0426

March 09, 2022

March 09, 2022

Direct Discharge

Local canal

Not Applicable

Not Applicable

Yes

March 28, 2022

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8193
S. F. Washing Ltd.
Nayabari, Kanchpur, Sonargaon, Narayangonj, 1430, Bangladesh.
SCM-2022
Not Applicable
I001) Raw Wastewater – 6 hours Time – weighted Composite
I002) Discharged Wastewater – 6 hours Time – weighted Composite

Sample Pick Up Date: Discharge Type: On-Site Effluent Treatment Plant (ETP):

Wastewater Discharge to: Off-site ETP name (if applicable): Off-site ETP address (if applicable):

Test Period:

March 10, 2022 To March 27, 2022

Sample Description:

I001) Brown / blueish color liquid - Raw Wastewater I002) Brownish color liquid - Discharged Wastewater

**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 Inits report is governed by, and incorporates by interesting, or as contains or service as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof base upon the information that you provided to us. Measurement uncertainty is only provided upon request for accretide tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to reserve within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents



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## **REMARK**

If there are questions or concerns on this report, please contact the following persons:

General enquiry and Invoicing	Mr. Sharan Roy, Mail: sharan.roy@bureauveritas.com
	Mr. Mahabubur Rahman, Mail: mahabubur.rahman@bureauveritas.com
Technical enquiry-Chemical	Mr. M. Nur Alam, Mail: nur.alam@bureauveritas.com

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



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## **Executive Summary**

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

Note / Key :

- D Meet Foundational Limit / Meet discharge license criteria
- $\blacksquare$  Exceeding Foundational Limit / Exceeding discharge license criteria
- NR Not Requested / Not required
- N/A Not Applicable

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, including I001) Raw Wastewater and I002) Discharged 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
1002	32 (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 APHA 2540D, GB 11901, ISO 11923

Tested Item(s)	Result	Unit	Conclusion
1002	28 (Foundational)	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 APHA 5220B & EPA 410.3, HJ 828

Tested Item(s)	Result	Unit	Conclusion
1002	64 (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	19.8 (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 EPA 150.2

-	Unit	Result	
Test Item(s)	-	I002	
Parameter	-	-	
Temp. of sample	deg. C	21.7	
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<sup>-1</sup>] (436nm; 525nm; 620nm)

#### Test Method : Reference to ISO 7887: 2011(E), B

Tested Item(s)	Result	Unit	Conclusion
1002	3.2; 1.9; 1.1 (Progressive)	m <sup>-1</sup>	DATA

Note:

Foundational Limit: 7;5;3 m<sup>-1</sup>; Progressive Limit: 5;3;2 m<sup>-1</sup>; Aspirational Limit: 2;1;1 m<sup>-1</sup>

#### Biochemical Oxygen Demand (BOD5)

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

Tested Item(s)	Result	Unit	Conclusion
I002	18 (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-NH<sub>3</sub> – B & F $22^{nd}$ Edition 2012

Tested Item(s)	Result	Unit	Conclusion
1002	0.2 (Aspirational)	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 22<sup>nd</sup> Edition -4500-P.E (2012)

Tested Item(s)	Result	Unit	Conclusion
I002	0.31 (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 ISO 9562

Tested Item(s)	Result	Unit	Conclusion
1002	0.34 (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
I002	1.6 (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** : Reference to 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
I002	113 (Foundational)	Bacteria /	DATA
1002	(Foundational)	100 mL	

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<sup>nd</sup> Edition-4500-CN. C&E (2012), EPA 9010C, 9013 & 9014

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-S<sup>2-</sup>D

Tested Item(s)	Result	Unit	Conclusion
1002	<0.1 (Foundational)	mg/L	DATA

Note:

mg/L = milligram per liter 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
I002	0.5 (Progressive)	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	<b>I001</b> ( <i>mg/L</i> )	I002 (mg/L)
Antimony(Sb)		
Foundational Limit: 0.1 mg/L;	0.005	0.006
Progressive Limit: 0.05 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.01 mg/L		
Chromium( Cr ), total		
Foundational Limit: 0.2 mg/L;	0.008	ND
Progressive Limit: 0.1 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.05 mg/L		
Cobalt( Co )		
Foundational Limit:0.05 mg/L;	0.001	ND
Progressive Limit: 0.02 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.01 mg/L	(F)	()
Copper( Cu )		
Foundational Limit: 1 mg/L;	ND	ND
Progressive Limit: 0.5 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.25 mg/L	(rispirational)	(rispitational)
Nickel (Ni)		
Foundational Limit:.0.2 mg/L;	0.002	ND
Progressive Limit: 0.1 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.05 mg/L	(Aspirational)	(Aspirational)
Silver (Ag)		
Foundational Limit: 0.1 mg/L;	ND	ND
Progressive Limit: 0.05 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.005 mg/L,	(Aspirational)	(Aspirational)
Zinc(Zn)		
Foundational Limit: 5 mg/L;	0.011	ND
Progressive Limit: 1 mg/L;	(Aspirational)	(Aspirational)
0	(Aspirational)	(Aspirational)
Aspirational Limit: 0.5 mg/L		
Arsenic (As)	ND	ND
Foundational Limit: 0.05 mg/L; Progressive Limit: 0.01 mg/L;	(Aspirational)	(Aspirational)
8	(Aspirational)	(Aspirational)
Aspirational Limit: 0.005 mg/L		
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)	ND	ND
Foundational Limit:0.1 mg/L;	ND (Assistional)	ND (Assistional)
Progressive Limit: 0.05 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit: 0.01 mg/L		
Mercury (Hg)		ND
Foundational Limit: 0.01 mg/L;	ND	ND
Progressive Limit: 0.005 mg/L;	(Aspirational)	(Aspirational)
Aspirational Limit :0.001 mg/L		
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		



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## Others Priority Chemical Groups

	I001 ( $\mu g/L$ )	I002 ( $\mu g/L$ )
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.).
- ppm = part(s) per million; ppb = part(s) per billion.



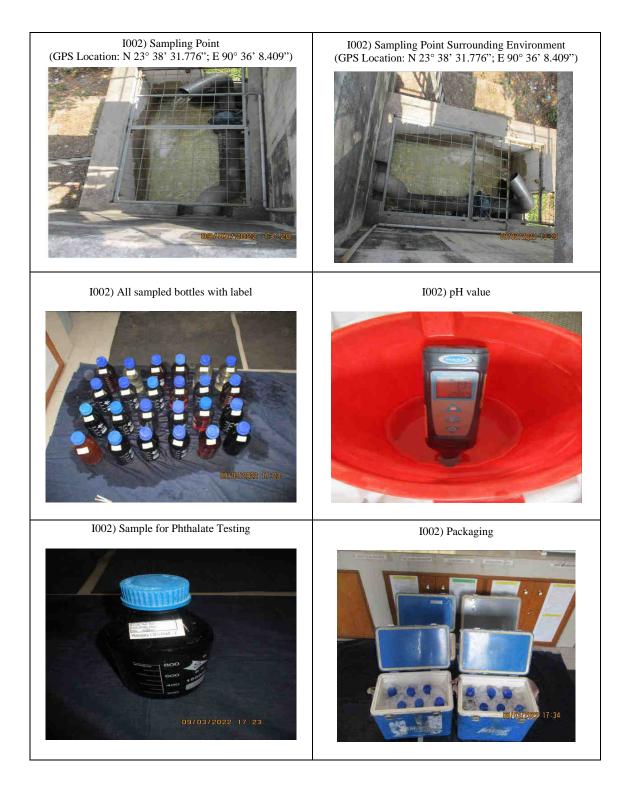
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# **APPENDIX A - Photo of the Sample/ Sampling Location**



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# **APPENDIX B**

Parameters, limits and testing method aligned with the ZDHC Wastewater Guidelines					
Group	Substance (analytes)	CAS No.	Detection Limit (µg/L)	Testing method	
2A. Alkylphenol (AP) and Alkylphenol	Octylphenol OP, mixed isomers	Various (incl. 140-66-9, 1806-26-4, 27193-28-8)	5	NP/OP: ISO 18857-2 (modified dichloromethane extraction) or ASTM D7065 (GC/MS or LC/MS(-MS)	
	Nonylphenol NP	Various (incl. 104-40-5, 11066-49-2, 25154-52-3, 84852-15-3)			
Ethoxylates (APEOs): including all isomers	Octylphenol ethoxylates (OPEO)	Various (incl. 9002-93-1, 9036-19-5, 68987-90-6)		OPEO/NPEO (n>2): ISO 18254-1 OPEO/NPEO: ISO18857-2 or ASTM	
	Nonylphenol ethoxylates (NPEO)	Various (inc. 9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0)		D7065(LC/MS; GC/MS or LC/MSMS for n=1,2)	
	Monochlorobenzene	108-90-7			
	1,2-Dichlorobenzene	95-50-1			
	1,3-Dichlorobenzene	541-73-1			
	1,4-Dichlorobenzene	106-46-7			
	1,2,3-Trichlorobenzene	87-61-6			
	1,2,4-Trichlorobenzene	120-82-1			
	1,3,5-Trichlorobenzene	108-70-3			
	1,2,3,4-Tetrachlorobenzene	634-66-2			
	1,2,3,5-Tetraclorobenzene	634-90-2			
	1,2,4,5-Tetrachlorobenzene	95-94-3			
	Pentachlorobenzene	608-93-5			
	Hexachlorobenzene	118-74-1 95-49-8	_		
	2-Chlorotoluene 3-Chlorotoluene	108-41-8	_		
2B. Chlorobenzenes	4-Chlorotoluene	106-43-4	-	USEPA 8260B,8270D. Dichloromethane	
and Chlorotoluenes	2,3-Dichlorotoluene	32768-54-0	0.2	extraction followed by	
and emotorolucites	2,4-Dichlorotoluene	95-73-8	-	GC/MS	
	2,5-Dichlorotoluene	19398-61-9	-		
	2,6-Dichlorotoluene	118-69-4			
	3,4-Dichlorotoluene	95-75-0	-		
	3,5-Dichlorotoluene	25186-47-4			
	2,3,4-Trichlorotoluene	7359-72-0			
	2,3,6-Trichlorotoluene	2077-46-5			
	2,4,5-Trichlorotoluene	6639-30-1			
	2,4,6-Trichlorotoluene	23749-65-7			
	3,4,5-Trichlorotoluene	21472-86-6			
	2,3,4,5-Tetrachlorotoluene	76057-12-0			
	2,3,5,6-Tetrachlorotoluene	29733-70-8	_		
	2,3,4,6-Tetrachlorotoluene	875-40-1	_		
	Pentachlorotoluene	877-11-2			
	Pentachlorophenol (PCP)	87-86-5	4	USEPA 8270 D	
	2,3,4,5-Tetrachlorophenol	4901-51-3	4	Solvent extraction,	
2C. Chlorophenols	2,3,4,6-Tetrachlorophenol	58-90-2	0.5	derivatisation with	
1	2,3,5,6-Tetrachlorophenol	935-95-5	4	KOH, acetic anhydride	
	2,4,6-Trichlorophenol	88-06-2	4	followed by GC/MS	
	2,3,5-Trichlorophenol	933-78-8		-	

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Group	Substance (analytes)	CAS No.	Detection Limit (µg/L)	Testing method
	2,4,5-Trichlorophenol	95-95-4		ISO 14154:2005
	3,4,5-Trichlorophenol	609-19-8		
	2,3,4-Trichlorophenol	15950-66-0		
	2,3,6-Trichlorophenol	933-75-5		
	2,3-Dichlorophenol	576-24-9		
	3,4-Dichlorophenol	95-77-2		
	2,4-Dichlorophenol	120-83-2		
	2,5-Dichlorophenol	583-78-8		
	2,6-Dichlorophenol	87-65-0		
	3,5-Dichlorophenol	591-35-5		
	2-Chlorophenol	95-57-8		
	3-Chlorophenol	108-43-0		
	4-Chlorophenol	106-48-9		
	4-Aminodiphenyl	92-67-1		
	Benzidine	92-87-5		
	4-Chloro-o-toluidine	95-69-2		
	2-Naphthylamine	91-59-8		
	o-Aminoazotoluene	97-56-3		
	5-nitro-o-toluidine	99-55-8	1	
	4-Chloroaniline	106-47-8		
	4-Methoxy-m-			
	phenylenediamine	615-05-4		
	4,4'-methylenedianiline	101-77-9		
	3.3 <sup>-</sup> Dichlorobenzidine	91-94-1		
	3,3°-Dimethoxybenzidine	119-90-4		EN 14362-1
	3,3 <sup>-</sup> Dimethylbenzidine	119-93-7		EN 14362-3
2D. Dyes - Azo	4,4 <sup>°</sup> -Methylene-di-o-toluidine	838-88-0		Reduction step with
(Forming Restricted	6-methoxy-m-toluidine (p-		0.1	Sodiumdithionite, solvent extraction, GC/MS or LC/MS
Amines)	Cresidine)	120-71-8		
	4,4 <sup>-</sup> -Methylene-bis-(2-chloro- aniline)	101-14-4		
	4,4`-Oxydianiline	101-80-4	_	
	4,4 <sup>°</sup> -Thiodianiline	139-65-1	_	
	o-Toluidine	95-53-4	_	
	4-Methyl-m-	<i>95-55-</i> 4		
	phenylenediamine	95-80-7		
	2,4,5-Trimethylaniline	137-17-7		
	o-Anisidine	90-04-0	_	
	4-Aminoazobenzene	60-09-3	-	
	2,4-Xylidine	95-68-1	-	
	2,6-Xylidine	87-62-7	_	
	C.I. Direct Black 38	1937-37-7		
	C.I. Direct Blue 6	2602-46-2	-	
			_	
	C.I. Acid Red 26 C.I. Basic Red 9	3761-53-3 569-61-9	-	
			4	
	C.I. Direct Red 28	573-58-0	4	
	C.I. Basic Violet 14	632-99-5	4	
2E. Dyes-	C.I. Disperse Blue 1	2475-45-8	-	Liquid Extraction
Carcionogenic or	C.I. Disperse Blue 3	2475-46-9	500	Liquid Extraction LC/MS
Equivalent Concern	C.I. Basic Blue 26 (with	2580-56-5		
	Michler's Ketone $> 0.1\%$ )		4	
	C.I. Basic Green 4 (malachite green chloride)	569-64-2		
	C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	1	
	C.I. Basic Green 4(malachite	10309-95-2	1	
	green)	10007 70 2	1	

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Group	Substance (analytes)	CAS No.	Detection Limit (µg/L)	Testing method		
	Disperse Orange 11	82-28-0				
	Disperse Yellow 1	119-15-3				
	Disperse Blue 102	12222-97-8				
	Disperse Blue 106	12223-01-7				
	Disperse Yellow 39	12236-29-2				
	Disperse Orange 37/59/76	13301-61-6				
	Disperse Brown 1	23355-64-8				
	Disperse Orange 1	2581-69-3				
	Disperse Yellow 3	2832-40-8				
	Disperse Red 11	2872-48-2				
2F. Dyes-disperse	Disperse Red 1	2872-52-8	50	Liquid Extraction		
(sensitizing)	Disperse Red 17	3179-89-3		LC/MS		
	Disperse Blue 7	3179-90-6				
	Disperse Blue 26	3860-63-7				
	Disperse Yellow 49	54824-37-2				
	Disperse Blue 35	12222-75-2				
	Disperse Blue 124	61951-51-7				
	Disperse Yellow 9	6373-73-5				
	Disperse Orange 3	730-40-5				
	Disperse Blue 35	56524-77-7				
	Polybromobiphenyls (PBBs)	59536-65-1				
	Pentabromodiphenyl ether					
	(PentaBDE)	32534-81-9				
	Octabromodiphenyl ether (OctaBDE)	32536-52-0				
	Decabromodiphenyl ether (DecaBDE)					
	Tris(2,3-dibromopropyl) phosphate (TRIS/TDBPP)					
	Tetrabromobisphenol A (TBBPA)	79-94-7		USEPA 8270		
2G. Flame Retardants	Bis(2,3-dibromopropyl) phosphate (BIS/BDBPP)	5412-25-9	5	ISO 22032, USEPA 527 and USEPA 8321B.		
	Hexabromocyclododecane (HBCDD)	3194-55-6		Dichloromethane extraction GC/MS or		
	2,2-Bis(bromomethyl)-1,3- propanediol (BBMP)	3296-90-0		LC/MS(-MS)		
	Tris(aziridinyl)- phosphineoxide (TEPA)	545-55-1				
	Tris(2-chloroethyl) phosphate (TCEP)	115-96-8				
	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8				
	Short chain chlorinated paraffins (SCCPs) (C10-C13)	85535-84-8				
	Bis(2-methoxyethyl)-ether	111-96-6				
	2-ethoxyethanol	110-80-5				
	2-ethoxyethyl acetate	111-15-9				
	Ethylene glycol dimethyl	110-71-4		US EPA 8270		
2H. Glycols	ether		50	Liquid Extraction		
	2-methoxyethanol	109-86-4		LC/MS		
	2-methoxyethylacetate	110-49-6		GC-MS		
	2-methoxypropylacetate	70657-70-4				
	Triethylene glycol dimethyl ether	112-49-2				
2I. Halogenated	1,2-Dichloroethane	107-06-2	1	USEPA 8260B		
Solvents	Methylene Chloride	75-09-2	1	Headspace GC/MS or		

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Group	Substance (analytes)	CAS No.	Detection Limit (µg/L)	Testing method	
	Trichloroethylene	79-01-6		Purge-and-Trap-GC/MS	
	Tetrachloroethylene	127-18-4			
	Monobutyltin (MBT)	Multiple			
	Dibutyltin (DBT)	Multiple			
	Dioctyltin (DOT)	Multiple			
	Tributyltin (TBT)	Multiple			
	Triphenyltin (TPhT)	Multiple			
	Tricyclohexyltin (TCyT)	Multiple			
	Trioctyltin (TOT)	Multiple	_		
	Tripropyltin (TPT)	Multiple	_	ISO 17353	
2J. Organotin	Monooctyltin (MOT)	Multiple	0.01	Derivatisation with	
Compounds	Diphenyltin (DPhT)	Multiple	0.01	NaB(C2H5)	
•	Tetrabutyltin (TeBT)	Multiple	_	GC/MS	
	Mono-, di- and tri-methyltin derivatives	Various			
	Mono-, di- and tri-butyltin derivatives	Various	-		
	Mono-, di- and tri-phenyltin derivatives	Various			
	Mono-, di- and tri-octyltin derivatives	Various			
	Perfluoro-n-octanoic acid (PFOA)	335-67-1		DIN 38407-42 (modified)	
	Perfluorobutanesulfonic acid (PFBS)	29420-49-3, 29420-43-3	0.01	Ionic PFC:	
2K. Perfluorinated and Polyfluorinated	Perfluorooctanesulfonic acid (PFOS)	355-46-4 ,432-50-7	0.01	Concentration or direct injection, LC/MS(-MS);	
Chemicals (PFCs)	Perfluoro-n-hexanoic acid (PFHxA)	307-24-4		Non-ionic PFC (FTOH):	
	8:2 FTOH	678-39-7		derivatisation with	
	6:2 FTOH	647-42-7	1	acetic anhydride, followed by GC/MS	
	Butyl benzyl phthalate (BBP)	85-68-7			
	Dibutyl phthalate (DBP)	84-74-2			
	Di-2-ethylhexyl phthalate				
	(DEHP)	117-81-7			
	Di-n-octyl phthalate (DNOP)	117-84-0			
	Di-iso-nonyl phthalate (DINP)	28553-12-0			
	Di-iso-decyl phthalate (DIDP)	26761-40-0			
	Diethyl phthalate (DEP)	84-66-2			
	Di-n-propyl phthalate (DPRP)	131-16-8			
	Di-iso-butyl phthalate (DIBP)	84-69-5	_	US EPA 8270D, ISO	
2L. Phthalates (including all other	Di-cyclohexyl phthalate (DCHP)	84-61-7	10	18856	
esthers of phthalic acid)	Di-n-hexyl phthalate (DnHP)	84-75-3	1	Dichloromethane extraction GC/MS	
	Dinonyl phthalate (DNP)	84-76-4	7	extraction OC/Wis	
	Di-iso-octyl phthalate (DIOP)	27554-26-3			
	Dimethoxyethyl phthalate (DMEP)	117-82-8			
	1,2-benzenedicarboxylic acid,		-		
	di-C7-11-branched and	68515-42-4			
	linearalkyl esters (DHNUP)	00010 72 7			
	1,2-benzenedicarboxylic acid,		-		
	di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6			
2M Doly Aromatic	Benzo[a]pyrene (BaP)	50-32-8		US EPA 8270	
2M. Poly Aromatic Hydrocarbons (PaHs)	Anthracene	120-12-7	1	DIN 38407-39	
riguiocarbolis (Faris)	Pyrene	129-00-0		Solvent extraction	

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				Detect	tion Lim	it	
Group	Substance (analytes)	CAS No.		(µg/L)			Testing method
	Benzo[ghi]perylene	191-24-2		- N-82/			GC/MS
	Benzo[e]pyrene	192-97-2		1			
	Indeno[1,2,3-cd]pyrene	193-39-5		1			
	Benzo[j]fluoranthene			1			
	Benzo[b]fluoranthene	205-99-2		1			
	Fluoranthene	206-44-0	-	1			
	Benzo[k]fluoranthene	207-08-9		1			
	Acenaphthylene	208-96-8		1			
	Chrysene	218-01-9		1			
	Dibenz[a,h]anthracene	53-70-3		1			
	Benzo[a]anthracene	56-55-3		1			
	Acenaphthene	83-32-9		1			
	Phenanthrene	85-01-8		1			
	Fluorene	86-73-7		1			
	Naphthalene	91-20-3		1			
	Benzene	71-43-2					ISO 11423-1
2N. Volatila Organia	Xylene	1330-20-7		]			Headspace- or Purge-
2N. Volatile Organic Compound (VOCs)	o-cresol	95-48-7		1			and-Trap-GC/MS
Compound (VOCS)	p-cresol	106-44-5		1			-
	m-cresol	108-39-4		1			US EPA 8260
				Limits	( <b>mg</b> /L)	or	
Group	Parameter/substance	CAS No.		otherw	vise spec	ified	Testing method
•				Α	Р	F	, , , , , , , , , , , , , , , , , , ,
				▲ 5/	<b>▲</b> 10/	<b>▲</b> 15/	
	Temperature	-		max.	max.	max.	
	770.0			25°C	30°C	35°C	
	TSS	TSS – COD –		5	15	50	
			40	80	150		
	Total-N			5	10	20	
	pH			2.1.1	6 - 9	7.5.2	
	Color [m-1] (436nm; 525nm; 620nm)	_		2;1;1	5;3;2	7;5;3	Apply the standard
	BOD5			5	15	30	methods that best apply
1A. Conventional	Ammonium-N	-		0.5	15	30 10	to the region (ISO, EU,
Parameters (sum	Total-P				-		US, China), please refer
parameters (sum	AoX			0.1	0.5	3 5	to ZDHC Wastewater
parameters)	AoX Oil and Grease	-		0.1	1 2	5 10	Guidelines for more
	Phenol	-		0.5	2 0.01		details on the testing
		-		25/100 100/100 400/100		0.5	method
	Coliform(bacteria/100ml)	_		nl ml ml			
	Damistant Faar				m/ Dissip		
	Persistent Foam	<u> </u>		Persiste		5	
	ANIONS						
	Cyanide( CN-)	Various (incl. 57	7-12-5)	0.05	0.1	0.2	
	Sulfide	<u>                                     </u>		0.01	0.05	0.5	
	Sulfite	—		0.2	0.5	2	
			Detection				
Group	Parameter/substance	CAS No.	Limit	Limits	; ( <b>mg</b> /L)		Testing method
Group			(mg/L)/				
			(ppm)	Α	Р	F	
	Cadmium( Cd )	7440-43-9	0.0001	0.01	0.05	0.1	Apply the standard
	Lead(Pb)	7439-92-1	0.001	0.01	0.05	0.1	methods that best apply
	Mercury (Hg)	7439-97-6	0.00005	0.001	0.005	0.01	to the region (ISO, EU,
1B. Conventional	Silver (Ag)	7440-22-4	0.001	0.005	0.05	0.1	US, China), please refer
Parameters - METALS	Cobalt( Co )	7440-48-4	0.001	0.01	0.02	0.05	to ZDHC Wastewater
	Nickel (Ni)	7440-02-0	0.001	0.05	0.1	0.2	Guidelines for more
	Antimony (Sh)	7440-36-0	0.001	0.01	0.05	0.1	details on the testing
	Antimony( Sb ) Arsenic (As)	7440-38-2	0.001	0.005	0.01	0.05	method

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Group	Substance (analytes)	CAS No.		CAS No. Detection Limit $(\mu g/L)$		it	Testing method
	Copper(Cu)	7440-50-8	0.001	0.25	0.5	1	
	Zinc(Zn)	7440-66-6	0.001	0.5	1	5	
	Chromium( Cr ), total	7440-47-3	0.001	0.05	0.1	0.2	
	Chromium VI( CrVI )	18540-29-9	0.001	0.001	0.005	0.05	

A: Aspirational P: Progressive F: Foundational

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 [(6822)069-0426] was sub-contracted to India (Testtex India Laboratories Pvt. Ltd) for Coliform & Total-N & AOX Tests.



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## **APPENDIX C – Onsite Field Data Record Sheet**

( 122)						Name and States and		CPSD-AN-	00613-DATA 04	
		FIELD DATA F					Issue Date:			
ALITY CONTRACTOR		DIVIDUAL	SAMPLING) Version No.: 16							
		-				-	ine: Analytical			
General Data	A12-174			16	5221	069-1	1.2.1			
Laboratory Sample Nu	stiper.	· · · · · · · · · · · · · · · · · · ·			0	007-0	416			
Client Name			1.11 1.7	0100	0.0	_				
Field Contact Person		Md. Ka	Md. Rakibul Islam Phone No: 01721- 810000							
Project (Facility Name		5.F. Wa	S.F. Washing Ltd (Nayabari, Kanehpuz, Sonorga,							
Sampling Location / D	escription;	-	V	E.T.P:	= Inle	r		V	_ /	
Sample Identification			with sampling pl							
Sample Type:				ie (Piease delete	e as appropriate	)	_			
Name of Sampler.			lsad Hos						_	
Discharge mode.					River, Sea, Stream	m) OR Indirect disc	charge to sewage	treatment plant		
Date of collection			032							
Factory Type		<b>Dyeing / Printin</b>	g / Weshing / Fir	hishing / Others (	(please specify)					
		"Note: It would be	selected more the	an one					-	
Field Data for Waster	water	10.1.2	-					-		
Arrival Time:		10:50		Departure Time	- (A)					
Field Parameters		PH: 7.4		Temp: 39	.0 °c	Color: Dr 0	n.v.1.	Flow rate :	(volume/min)	
Control No. of field equ	Same Car C									
Factory with effluent tr	eetment plant:		~ Y	'es			,	No		
			Incoming water	(If required)						
Sample matrix		-	Wastewater before treatment							
			Wastewater after treatment - water at discharge point							
Sampler container nun	nber	12	12	12	12	12	12			
		1	2	3	4	5	6	7	в	
Recording time	ID									
and mus	Time	11:00	12:00	13:00	19:00	15:00	16:00			
H	1	7.4	7.6	6.9	6.4	7.1	7.4			
emp (°C)		34.0	34.6	35.6	34.4	35-6	36.0		1	
olor (visual estimation	(n	Brown	Brown	Bluesh	Bluesh	Blue	Bluesh.			
low rate (volumeitime	)	57.9	\$0.0	68.0	62.4	68-9	69.4			
/olume collected, mL		12.2167	12×167	12×167			124162			
Fotal volume collected		12029				then total of samp				
			Contractor Carall &	and administration		a rent secon without the	ne arce i admiréd			
Analysis Required an	d Preservation Method									
Tests (ZDHC MRSL Parameters)		Test required		Type of container			Preservation method			
Tests (ZDHC		(v)	Total of sample size	3	Type of contain	ar	10	eservation met		
Tests (ZDHC	1. Phthaiate				Type of contain	ier	ro	eservation met		
Tests (ZDHC			sample size		Type of contain	er	20	eservation met		
Combined test or	1. Phthaiate 2. Chlorobenzenes, Chlorotoluene & PAH	N 10	sample size		Type of contain	er	PD	eservation met	5	
Combined test	1. Phthaiate 2. Chlorobenzenes,	N 10	sample size		Type of contain	er.	PD	eservation met	5	
Combined test or Individual test	1. Phthaiate 2. Chlorobenzenes, Chlorotoluene & PAH	N 10	sample size	1	Type of contain	er	10	eservation met	n	
Combined test or Individual test (Remark 4)	1. Phthalate 2. Chlorobenzenes, Chlorotoleene & PAH 3. SCCPs	N 10	sample size 1000 mL total or 1000 mL sach	1	Typa of contain	er	10	eservation met	5	
Combined test or Individual test (Remark 4)	1. Phthalate 2. Chlorobenzenes, Chlorotoluene & PAH 3. SCCPs 4. APS	N 10	sample size 1000 mL total or 1000 mL each 100 mL		Type of contain	er	10	sservation met	5	
Combined test or Individual test (Remark 4) APEOs Chlorophenols & Cre	1. Phthalate 2. Chlorobenzenes, Chlorotoluene & PAH 3. SCCPs 4. APS	N 10	sample size 1000 mL total or 1000 mL each 100 mL 100 mL	1	Type of contain	er	PT	sservation met		
Combined test or Individual test (Remark 4) APEOs Chlorophenols & Cre Flame retardant	1. Phthalate 2. Chlorobenzenes, Chlorotoluene & PAH 3. SCCPs 4. APS	N 10	sample size 1000 mL total or 1000 mL sach 100 mL 100 mL 500 mL			224		Without adding ac		
Combined test or Individual test (Remark 4) APEOs Chlorophenols & Cre Flame retardant Dyes	1. Phthalate 2. Chlorobenzenes, Chlorotoluene & PAH 3. SCCPs 4. APS	N 10	sample size 1000 mL total or 1000 mL each 100 mL 100 mL 500 mL 10 mL		lass,washed with	224				
Combined test or Individual test (Remark 4) APEOs Chlorophenols & Cre Flame retardant Dyes Glypol	1. Phthalate 2. Chlorobenzenes, Chlorotoluene & PAH 3. SCCPs 4. APS	N 10	sample size 1000 mL total or 1000 mL sach 100 mL 100 mL 500 mL 10 mL 500 mL			224		Without adding ac		
Combined test or Individual test (Remark 4) APEOs Chlorophenols & Cre Flame retardant Dyes Glypol 0 *Pesticides	1. Phthalate 2. Chlorobenzenes, Chlorotoluene & PAH 3. SCCPs 4. APS	N 10	sample size 1000 mL total or 1000 mL sach 1000 mL 500 mL 500 mL 500 mL 1000 mL			224		Without adding ac		
Combined test or Individual test (Remark 4) APEOs Chlorophenois & Cre Flame retardant Dyes Glycol 0 *Pesticides 1 *Nitrosamine	1. Phthalate 2. Chlorobenzenes, Chlorotoluene & PAH 3. SCCPs 4. APS	N 10	sample size 1000 mL total or 1000 mL sach 1000 mL 500 mL 100 mL 500 mL 1000 mL 1000 mL 1000 mL			224		Without adding ac		
Combined test or Individual test (Remark 4) APEOs Chlorophenols & Cre Flame retardant Dyes Glycol 0 "Pesticides 1 "Nitrosamine 2 Benned Azodyes	1. Phihalate 2. Chlorobenzenes, Chlorobene & PAH 3. SCCPe 4. APS esals	N 10	sample size 1000 mL total or 1000 mL sach 1000 mL 500 mL 500 mL 500 mL 1000 mL			224		Without adding ac		
Combined test or Individual test	1. Phihalate 2. Chlorobenzenes, Chlorobene & PAH 3. SCCPe 4. APS esals	N 10	sample size 1000 mL total or 1000 mL sach 1000 mL 500 mL 100 mL 500 mL 1000 mL 1000 mL 1000 mL			224		Without adding ac		
Combined test or Individual test (Remark 4) APEOs Chlorophenols & Cre Flame retardant Dyes Glycol O *Posticides 1 *Nitrosamine 2 Benned Azodyes 3. *Free primary arcom	1. Phihalate 2. Chlorobenzenes, Chlorobene & PAH 3. SCCPe 4. APS sols alic amines	N 10	sample size 1000 mL total or 1000 mL each 1000 mL 100 mL 500 mL 10 mL 500 mL 1000 mL 100 mL 2000 mL			nitric sold,	Si	Without adding ac	id N°C	
Combined test or Individual test (Remark 4) APEOs Chlorophenols & Cree Flame retardant Dyes Glypol O "Pesticides 1. "Nitrosamine 2. Benned Azodyes 3. "Free primary arom 4. Organotin Compound	1. Phihalate 2. Chlorobenzenes, Chlorobene & PAH 3. SCCPe 4. APS sols alic amines	N 10	sample size 1000 mL total or 1000 mL each 100 mL 100 mL 500 mL 10 mL 100 mL 2000 mL 2000 mL 2000 mL	Amber G		nitric sold,	til to full containe	Without adding ac	sid *C	



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(務約)	FIE	LD DATA P	RECORD ON	ZERO DISCHARGE SAMPLE	CPSD-AN-00613-DATA C Issue Date:	
1000 (19650)				DIVIDUAL SAMPLING)	Version No.: 16	
10.5-#13m#.655		TRACKSHIM.		<i>,</i>	Business Line: Analytica	
Tests (Conver	ntional Parameters)	Test required	Total of sample size	Type of container	Preservation method	
Combined test or Individual test	17. Total suspened solids (TSS) 18. Total dissolved solids	uspaned solids				
(Remark 4)	(TDS)		2000 mL each	Amber Glass, washed with nitric acid,	Without adding acid	
19 5-day Biochemical C	Oxygen Demand (BOD5)		1000 mL	Hindu Grass, washed with hint actu,	Store sample at 2-8°C	
10 Colour			100 mL			
1. Heavy Metals excep	il Cr(VI) & Total-P (Remark	5	9 mL	PE, washed with nitric acid	Acidify to pH 2 with HNO <sub>2</sub> and store at 2-8°C	
2 Cyanide		~	500 mL	Amber Glass, washed with pesticide grade acetone	Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% NajS <sub>2</sub> O <sub>3</sub> , and store sample at 2-8°C	
3. Cr(VI)		~	95 mL		Fitter by 0.45µm filter in field, fill to full containe without air gap; adjust pH to 9.0-9.5 by adding ammonum buffer. Store sample at 2-8°C	
4. Chemical oxygen de	mand (COD)	1	150 mL		entriviten baren. Store sample at 2-8 C	
5. Phenals			500 mL	Amber Glass, washed with nitric acid	Acidify to pH 2 with H <sub>2</sub> SO <sub>4</sub> Store sample at 2-8°C	
5. Oli and Grease & Total Hydrocarbon 7. "Formaldehyde			1000 mL	/	a metana kuta kuta metanakatan perakan kuta kuta ja	
			26 mL		Fill to full container without air gap, acidity to pH 2 wi H <sub>2</sub> SO <sub>4</sub> and store sample at 2-8°C	
8 Sulfide (Remark 5)			50 mL	PE, washed with pesticide grade Acetone;	Fill to full container without air gap, add 2 drops of 21 zinc acatate, adjust pH to 9 with 6M NaCH Store sample at 2-8°C	
9 Total Coliform (Rema	ark 6)		125 mL	PE, clean, storile	Add 0.1 ml of 10% Na2s2Os keep in dark	
0 E.coli (Remark 6)			125 mL	non-reactive	Store sample at 2-8°C	
1. Persistent foam	×		N.A.	Foam higher than 45 cm (visu	ual estimation): Yes / No	
2 Sulfite			100 mL	Amber Glass, washed with posticide grade acetone	Add 1mL of 2.5% EDTA Store sample at 2.8°C	
3 Total-N			100 mL			
4 Ammanium-N			500 mL		Acidify to pH 2 with H <sub>2</sub> SO, Store sample at 2-8°C	
5 Adsorbable organical	ily bound halogens (AOX)		100 mL		Acidity to pH 2 with HNO3 and store at 2-8°C	
<ol> <li>Acute equatic toxicity uninus Bacteria; Fish E</li> </ol>			1000 mL	Amber Glass,washed with nitric acid;		
7. Sulphate			100 mL		Without adding acid Store sample at 2-6°C	
I. Chloride			100 mL		THE PARTY OF THE P	

\*Remarks

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. Scope of ZDHC guideline: Parameter 1-9, 12, 14-17, 19-26, 29, 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 arcmatic 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, loactions 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-00613-MTHD for preparation of field blank for specific parameters

Recorded by

Full name Md. Asad Hosain .

Date 09.03.22

Comment from factory

Acknowledgement by factory

I hereby 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 maintained in 1-8°C

Md. Raki but Islam

FAN

Signatory of Factory Representative

Date 59.03.22

CPSD-AN-00513-DATA 04-FIELD DATA RECORD ZDHC SAMPLING-V16 xlax



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		FIELD DATA F	ECORD OF				Issue Date Version No	a.: 16			
General Data Laboratory Sample Nur	nter			(69.22	) 16	9-0	426	Business L	.ine: Analytical	]	
Client Name											
Field Contact Person		Md. Ro	skibul	Islam	Phone No:	07771.	-81000	50			
Project (Facility Name a	nd Address)	5. Fwashing Ut (Navaburi, Komehour, Sonargaon, N								ATCALL O	
Sampling Location / De	scription.		E. FWashing Ud (Navaburi, Komch puz, Somarigaon, 1)								
Sample Identification:			with sampling pl								
Sample Type		Composite Sam	ple / Grab samp	le (Please delete	as appropriate)				-		
Name of Sampler.		Md. A	sad to	sain.							
Discharge mode				ecity destination: F	liver, Sea, Stream	) OR Indirect dis	charge to sewage t	reatment plant	-		
Date of collection			03.2.2	and taking den sign (2001-07		1 000	1		-		
Factory Type				ishing / Others ()	lease specify):	Long Co		4			
Field Data for Wastew	1		selected more the			i <del>t.</del>		5	- 7		
Arrival Time.	uner	10:50		Departure Time		1		No	Foam		
Field Parameters		PH: 7.0		Temp: 31.	w	Calor : Bro	wash	Flow rate :	(volume/min)	ĺ	
Control No. of field equi	nm2283	x. x.0		10000 913	0 0	0000 070	WIVYW	1 1010 1	(ventrindining)	1	
Factory with effluent tree				és	_			10		ł	
and Frank Constant (16)	encoding Passion		~	innis.			0	64.		ł	
Sumple materia			Incoming water							1	
Sample matrix.			Wastewaler before treatment								
No. of the other states of the other				er treatment - wa	Carlo de la	point				1	
Sampler container numb	161	24	29	29	29	29	2.4				
		1	2	3	4	5	6	7	8		
Recording time	0									l .	
	Time	11:00	12:00	13:00	19:00	15:00	16:00			l .	
Heles.		7.0	7.2	7.9	8.8	7.9	7.9			Í.	
femp (°C)		31.0	31.9	32-0	32.9	32.9	32.8			ĺ.	
Color (visual estimation)	8 50	Brownich	Brown	Browneh	Brownsh	Brownsh	Brownich			ĺ	
low rate (volume/lime)		57.6	59.2	62-0	60.9	69.0	59.9			l .	
volume collected, mL		29×168	29×167	29×167	29×167	29×167	297/62			ĺ	
Total volume collected		24098		olume collected r	nust be greater	than total of sam				ĺ.	
			,							ç	
Analysis Required and		Test required	Tet-1-1	-						p	
Tests (ZDHC)	MRSL Parameters)	(v)	Total of sample size		ype of contain	or	Pr	eservation me	thod		
Combined and	1. Phthalate	5									
Combined test or	2 Chlorobenzenes, Chlorotoluene & PAH	1	1000 mL total or								
Individual test (Remark 4)	3 SCCPs	5	1000 mL each								
	4 APS	1									
		-	894000				-				
APEOs		5	100 mL								
5. Chlorophenols & Cres	als	5	100 mL						1		
Flame retardent		5	500 mL					Without adding a			
i Dyes		5	10 mL	Amber G	ass washed with	nitric acid,	3	tore sample at 2-	9.90		
8. Giycol		~	50 mL								
( Tyles)		$\times$	1000 mL								
11-15/11-11-	11 "Nitresamine 12. Banned Azodyas		10 mL								
0 *Pesticides			2000 mL								
10 *Pesticides		~	SOUGHIE	-							
10. "Pesticides 11. "Nitrosamine 12. Banned Azodyes	itic amiries	×	500 mL								
10 *Pesticides 11 *Nitrosamine		1 X	cessingue, nume								
Pesticides     Nitrosamine     Banned Azodyes     Free primary aroma     Organolin Compoun	ds	1 x 1	500 mL	-			Fill to full containe	r without air gap	acidify to pH 2 with at 2-B°C		
<ul> <li>*Pesticides</li> <li>*Nitrosamine</li> <li>Banned Azodyes</li> <li>*Free primary aroma</li> </ul>	ds	15×1	500 mL 500 mL	PE	washed with pesi	tide	HCI a	r without air gap, nd store sample i Without adding a tore sample at 2-	al 2-8°C cid		



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	(12) FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)							
1000								
and a subscript								
Tests (Conve	entional Parameters)	Test required (v)	Total of sample size	Type of container	Preservation method			
Combined test or Individual test	17. Total suspened solids (TSS)	~	2000 mL total or					
(Remark 4)	18. Total dissolved solids (TDS)	$\neq$	2000 mL each	Amber Glass, washed with nime acid,	Without adding acid			
19: 5-day Blochemical	Oxygen Demand (BOD5)	5	1000 mL		Store sample at 2-8°C			
20. Calour		~	100 mL					
21. Heavy Metals exce 5)	pt Cr(VI) & Total-P (Remark	~	9 mL	PE, washed with nitric acid	Acidity to pH 2 with HNOy and store at 2-8°C			
22 Cyanide		V	500 mL	Amber Glass, washed with pesticide grade acatone	Adjust pH 12 with 50% NaCH, add 0.05 mi of 10% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , and store sample at 2-8°C			
3 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 2-9°C			
24. Chemical oxygen o	femand (GOD)	~	150 mL					
5 Phenois 5 Oil and Grease & Tet <u>al Hydrocartt</u> in		V	500 mL	Amber Glass, washed with nitric acid	Acidify to pH 2 with H <sub>2</sub> SO <sub>2</sub> Store sample at 2-8°C			
		~	1000 mL	2				
27. *Formaldehyde	*Formaldehyde		25 mL		Fill to full container without air gap; acidity to pH 2 with H <sub>2</sub> SO <sub>4</sub> and store sample at 2-8°C			
28. Sulfide (Remark 5)	Sulfide (Remark 5)		50 mL	PE, washed with pesticide grade Acetene;	Fill to full container without air gap; add 2 drops of 2M zinc acetate, adjust pH to 9 with 6M NeOH Store sample at 2-8°C			
29 Total Coliform (Rei	mark 6)	5	125 mL	PE, clean, sterile,	Add 0.1 ml of 10% Na2 <sub>2</sub> 20 <sub>3</sub> ,keep in dark			
30 E.coli (Remark 6)		X	125 mL	non-reactive	Store sample at 2-8°C			
31 Persistent foam		N	N.A.	Foam higher than 45 cm (visi	usl estimation) Yes / No			
32 Sulfite		V	100 mL	Amber Glass, washed with pesticide grade actions	Add 1mL of 2.5% EDTA Store sample at 2-6°C			
33 Total-N		~	100 mL		Acidify to pH 2 with H <sub>2</sub> SO <sub>4</sub>			
34 Ammanium-N	Ammanium-N		500 mL		Store sample at 2-8°C			
35 Adsorbable organi	cally bound halogens (AOX)	5	100 mL		Acidify to pH 2 with HNO3 and store at 2-8°C			
36. Adule aquatic toxic .uminus Bacteria; Fish	ily. 1 Egg. Daphne: Alage,	Alage; 1000		Amber Glass, washed with nitric acid;				
37 Sulphate					Without adding acid Store sample at 2-8°C			
38. Chioride			100 mL					
39 Others								
Observation/ Remark:		11						

\*Remarks

1 Individual sampling can be performed upon request

2 The minimum sampling time for 2019 2DHC guideline is 6 hours with no more than one hour between diacrete samples. Sampling time could be edusted 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, 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, nitrosamine and formaldehyde are not in the scope of ZDHC Guidline, they are tested upon request.

4 Refer to CPSD-AN-G00019-STIP01, loactions 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.

6 Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

Recorded by	A
	Fullname Md - Asadhoscun.

Comment from factory

Date 09.03.22

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Acknowledgement by factory

I hereby confirmed that Bureau Veritas has completed the stated sampling activity at captioned date, time and location. All sample(s) isfare 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 in 1-8°C

Md. Rakibul Islam

Signatory of Factory Representative:

Date\_\_\_\_\_\_0-0-3-2.2\_\_\_

CPSD-AN-00613-DATA 04-FIELD DATA RECORD ZDHC SAMPLING-V16 xisx

END

FOR