

TEST REPOR'



September 28, 2021 **Technical Report** (8721)251-0045 Date Received September 08, 2021 Page 1 of 19

Factory Company Name: SHAHI EXPORTS PVT LTD UNIT-7

Factory Address: SY NO:13, 14, 15, SARJAPURA MAIN ROAD, BELLANDUR GATE

BANGALORE, KARNATAKA - 560 102.

Project No.:

Client Reference No.:

Sampling Method: I001) Raw Wastewater - 6 hours - Time - weighted Composite

I002) Sludge - Grab

Sample Pick Up Date: September 07, 2021

Wastewater Discharge to: Others On-Site Effluent Treatment Yes

Plant (ETP):

Discharge Type: Zero Liquid Discharge

Off-site ETP name (if N/A

applicable):

Off-site ETP address (if N/A

applicable): Local Regulation: / Ordinance / AW-301906

requirements related to wastewater discharged are

followed:

Permit Validation Date: 30/09/2021 Parameters Exceeded Local N/A

Regulation

Legal compliance: N/A

Conventional Parameters

Exceeding Reporting Limit Overall Category:

Test Period: September 08, 2021 - September 28, 2021

N/A

Sample Description:

I001) Light Blue color liquid - Raw Wastewater

I002) Blue color Solid - Sludge

Parameters exceeded maximum

holding time:

Sampler Number: 8F146508998

Certificate No. TC-6092 (Pls Refer the website www.nabl-inida.org to view the scope of accreditation)

Bureau Veritas Consumer Products Services (I) Pvt. Ltd. AKR Tech Park, Ground floor, C Block, Survey no 112, BANGALORE

Tel: 0091-80-40701600 Fax: 0091-80-40701655

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REMARK

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

General enquiry and invoicing Sunesh.nair@in.bureauveritas.com

080-40701621

Technical enquiry-Chemical Sudalaimuthu.vs@in.bureauveritas.com

080-40701639

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.

PREPARED BY:

BUREAU VERITAS CONSUMER PRODUCTS SERVICES (INDIA) PVT. LTD. AUTHORIZED SIGNATORIES

APPROVED BY:

P.Sugumar

Lab Manager - Analytical Services

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Executive Summary

Executive Summary	1001	1002
1A) Conventional Parameters	I001	1002
Temperature		
TSS		
COD		
Total-N		
pH Value		
Color [m ⁻¹] (436nm; 525nm; 620nm)		
BOD ₅		NR
Ammonium-N	NR	NK.
Total-P		
AOX		
Oil and Grease		
Phenol		
Coliform		
Persistent Foam		
ANIONS - Cyanide		
ANIONS - Sulfide		NID
ANIONS - Sulfite		NR
1B) Conventional Parameters – METALS		

Note / Key:

- \square Meet Foundational Limit / Meet discharge license criteria / Meet Reporting Limit
- - Exceeding Foundational Limit / Exceeding discharge license criteria / Exceeding Reporting Limit
- NR Not Requested / Not required

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

Note / Key:

- • − Detected
- o Not Detected
- NR Not Requested
- N/A Not Applicable





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Objective

The environment samples were tested for below 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

Table 3 Sludge parameter

Sampling Plan

Basically, two environment samples were sampled per factory, including 1) Raw wastewater and 2) Sludge. Total number of sample collected will be depended on the actual factory facilities and manufacturing processes.

Method of sampling used is time-weighted composite grab samples (agreed with client.). Composite sampling shall be performed for no less than six hours, with no more than one hour between discrete samples. Each discrete sample shall be of equal volume. Wastewater and freshwater samples should, as much as possible, be collected simultaneously, during the time that PU is in normal operation. The sampling shall aim 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 data records are attached in Appendix C.





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Test Result

ANIONS - Cyanide

Test Method : Reference to ISO 6703-1,2, ISO 14403-1,2, US EPA 335.2, APHA 4500-CN, HJ 484

Tested Item(s)	Result	Unit	Conclusion
I002	ND	mg/kg	DATA

Note:

mg/kg = milligram per kilogram

Dry mass (total solids)

Test Method : Reference to US EPA 160.3 /209A

Tested Item(s)	Result	Unit	Conclusion
I002	75.0	%	DATA

% = % by mass





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1B) Conventional Parameters – METALS

Heavy Metals	I001 (mg/L)	I002 (mg/kg)
Antimony(Sb)		
Foundational Limit: 0.1 mg/L;	0.008	NR
Progressive Limit: 0.05 mg/L;	(Aspirational)	NK
Aspirational Limit: 0.01 mg/L		
Chromium(Cr), total		
Foundational Limit: 0.2 mg/L;	0.004	NR
Progressive Limit: 0.1 mg/L;	(Aspirational)	INK
Aspirational Limit: 0.05 mg/L	-	
Cobalt(Co)		
Foundational Limit:0.05 mg/L;	ND	ND
Progressive Limit: 0.02 mg/L;	(Aspirational)	NR
Aspirational Limit: 0.01 mg/L	, ,	
Copper(Cu)		
Foundational Limit: 1 mg/L;	0.054	
Progressive Limit: 0.5 mg/L;	(Aspirational)	NR
Aspirational Limit: 0.25 mg/L	(F)	
Nickel (Ni)		
Foundational Limit:.0.2 mg/L;	0.006	
Progressive Limit: 0.1 mg/L;	(Aspirational)	NR
Aspirational Limit: 0.05 mg/L	(Aspirational)	
Silver (Ag)		
Foundational Limit: 0.1 mg/L;	ND	
Progressive Limit: 0.05 mg/L;	(Aspirational)	NR
Aspirational Limit: 0.005 mg/L	(Aspirational)	
Zinc(Zn)		
Foundational Limit: 5 mg/L;	0.179	
Progressive Limit: 1 mg/L;		NR
Aspirational Limit: 0.5 mg/L	(Aspirational)	
Aspirational Limit: 0.3 mg/L Arsenic (As)		
` '	ND	
Foundational Limit: 0.05 mg/L;	-	ND
Progressive Limit: 0.01 mg/L;	(Aspirational)	
Aspirational Limit: 0.005 mg/L		
Cadmium(Cd)	0.0002	
Foundational Limit: 0.1 mg/L;	0.0003	ND
Progressive Limit: 0.05 mg/L;	(Aspirational)	
Aspirational Limit: 0.01 mg/L		
Chromium VI(CrVI)		
Foundational Limit: 0.05 mg/L;	ND	ND
Progressive Limit: 0.005 mg/L;	(Aspirational)	- :-
Aspirational Limit: 0.001 mg/L		
Lead(Pb)		
Foundational Limit:0.1 mg/L;	0.004	5
Progressive Limit: 0.05 mg/L;	(Aspirational)	-
Aspirational Limit: 0.01 mg/L		
Mercury (Hg)		
Foundational Limit: 0.01 mg/L;	ND	ND
Progressive Limit: 0.005 mg/L;	(Aspirational)	IID
Aspirational Limit :0.001 mg/L		





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Others Priority Chemical Groups

	I001 (μg/L)	I002 (mg/kg)
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; mg/kg = milligram per kilogram





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APPENDIX A - Photo of the Sample/ Sampling Location

I001) Sampling Point 12°55'21.9"N 77°40'26.3"E



I001) Sampling Point Surrounding Environment $12^{\circ}55^{\circ}21.9"N~77^{\circ}40'26.3"E$



I001) All sampled bottles with label



I001) pH Value



I001) Sample for Phthalate Testing



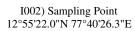
I001) Packaging







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I002) Sampling Point Surrounding Environment $12^{\circ}55^{\circ}22.0"N$ $77^{\circ}40^{\circ}26.3"E$





1002) All sampled bottles with label



I002) Sample for Phthalate Testing

I002) Packaging







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APPENDIX B

			Repor	t Limit	
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	1
	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	1
	3.4-Dichlorotoluene	95-75-0	0.2	0.2	1
	3.5-Dichlorotoluene	25186-47-4	0.2	0.2	1
	2,3,4-Trichlorotoluene	7359-72-0	0.2	0.2	1
	2,3,6-Trichlorotoluene	2077-46-5	0.2	0.2	1
	2,4,5-Trichlorotoluene	6639-30-1	0.2	0.2	1
	2,4,6-Trichlorotoluene	23749-65-7	0.2	0.2	
	3,4,5-Trichlorotoluene	21472-86-6	0.2	0.2	1
	2.3.4.5-Tetrachlorotoluene	76057-12-0	0.2	0.2	1
	2,3,5,6-Tetrachlorotoluene	29733-70-8	0.2	0.2	1
	2,3,4,6-Tetrachlorotoluene	875-40-1	0.2	0.2	
	Pentachlorotoluene	877-11-2	0.2	0.2	1
	2-Chlorophenol	95-57-8	0.5	0.05	
	3-Chlorophenol	108-43-0	0.5	0.05	USEPA 8270 D
	4-Chlorophenol	106-48-9	0.5	0.05	Solvent extraction,
2C. Chlorophenols	2,3-Dichlorophenol	576-24-9	0.5	0.05	derivatisation with
	2,4-Dichlorophenol	120-83-2	0.5	0.05	KOH, acetic anhydride
	2,5-Dichlorophenol	583-78-8	0.5	0.05	followed by GC/MS
				0.00	





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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
	3,4-Dichlorophenol	95-77-2	0.5	0.05	
	3,5-Dichlorophenol	591-35-5	0.5	0.05	1
	2,3,4-Trichlorophenol	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	
	2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	0.05	
	2,3,4,6-Tetrachlorophenol	58-90-2	0.5	0.05	
	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	EN 14362. Reduction step with Sodiumdithionite, solvent extraction,
	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	
(Forming Restricted Amines)	4,4`-Methylene-di-o- toluidine	838-88-0	0.1	0.2	
1 11111100)	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	1
	Benzidine	92-87-5	0.1	0.2	
	o-Toluidine	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- 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	
	C.I. Direct Black 38	1937-37-7	500	10	
	C.I. Direct Blue 6	2602-46-2	500	10	
	C.I. Acid Red 26	3761-53-3	500	10	
	C.I. Basic Red 9	569-61-9	500	10	
	C.I. Direct Red 28	573-58-0	500	10	
2E. Dyes-	C.I. Basic Violet 14	632-99-5	500	10	
Carcionogenic or	C.I. Disperse Blue 1	2475-45-8	500	10	Liquid Extraction
Equivalent Concern	C.I. Disperse Blue 3	2475-46-9	500	10	LC/MS
•	C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	500	10	
	C.I. Basic Green 4 (malachite green chloride)	569-64-2	500	10	
	C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	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. Basic Green	10309-95-2	500	10	
	4(malachite green) Disperse Orange 11	82-28-0	500	10	
	Disperse Yellow 1	119-15-3	50	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	<u> </u>
	Disperse Orange 1	2581-69-3	50	2	-
	Disperse Yellow 3 Disperse Red 11	2832-40-8	50	2	-
2F. Dyes-disperse	Disperse Red 11 Disperse Red 1	2872-48-2 2872-52-8	50	2	Liquid Extraction
(sensitizing)	Disperse Red 17	3179-89-3	50	2	LC/MS
	Disperse Blue 7	3179-90-6	50	2	-
	Disperse Blue 26	3860-63-7	50	2	-
	Disperse Yellow 49	54824-37-2	50	2	-
	Disperse Blue 35	12222-75-2	50	2	
	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	
	Bis(2,3-dibromopropyl) phosphate (BIS/BDBPP)	5412-25-9	5	1	
2G. Flame	Tris(aziridinyl)- phosphineoxide (TEPA)	545-55-1	5	1	ISO 22032, USEPA527 and USEPA8321B.
Retardants	Polybromobiphenyls (PBBs)	59536-65-1	5	1	Dichloromethane extraction GC/MS or
	Tetrabromobisphenol A (TBBPA)	79-94-7	5	1	LC/MS(-MS)
	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	
	Short chain chlorinated paraffins (SCCPs) (C10-C13)	85535-84-8	5	1	
	Bis(2-methoxyethyl)-ether	111-96-6	50	10	
ATT CI	2-ethoxyethanol	110-80-5	50	10	US EPA 8270
2H. Glycols	2-ethoxyethyl acetate	111-15-9	50	10	Liquid Extraction
	Ethylene glycol dimethyl ether	110-71-4	50	10	LC/MS





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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
	2-methoxyethanol	109-86-4	50	10	
	2-methoxyethylacetate	110-49-6	50	10	1
	2-methoxypropylacetate	70657-70-4	50	10	
	Triethylene glycol dimethyl ether	112-49-2	50	10	
	1,2-Dichloroethane	107-06-2	1	2	HIGERA OR COR
2I. Halogenated Solvents	Methylene Chloride	75-09-2	1	2	USEPA 8260B
	Trichloroethylene	79-01-6	1	2	Headspace GC/MS or
	Tetrachloroethylene	127-18-4	1	2	Purgeand-Trap-GC/MS
	Mono-, di- and tri- methyltin derivatives	Multiple	0.01	0.2	
	Mono-, di- and tri-butyltin derivatives	Multiple	0.01	0.2	-
	Mono-, di- and tri-phenyltin derivatives	Multiple	0.01	0.2	
	Mono-, di- and tri-octyltin derivatives	Multiple	0.01	0.2	1
	Monomethyltin	Multiple	0.01	0.2	ISO 17353 Derivatisation with NaB(C2H5) GC/MS
2J. Organotin	Dimethyltin	Multiple	0.01	0.2	
Compounds	Trimethyltin	Multiple	0.01	0.2	
Compounds	Monobutyltin	Multiple	0.01	0.2	
	Dibutyltin	Multiple	0.01	0.2	
	Tributyltin	Multiple	0.01	0.2	
	Monophenyltin	Multiple	0.01	0.2	
	Diphenyltin	Multiple	0.01	0.2	
	Triphenyltin	Multiple	0.01	0.2	
	Monooctyltin	Multiple	0.01	0.2	
	Dioctyltin	Multiple	0.01	0.2	
	Trioctyltin	Multiple	0.01	0.2	
	Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.01	0.10	DIN 38407-42
OK D G	Perfluoro-n-octanoic acid (PFOA)	335-67-1	0.01	0.10	(modified) Ionic PFC:
2K. Perfluorinated and Polyfluorinated	Perfluorobutanesulfonic acid (PFBS)	29420-49-3, 29420-43-3	0.01	0.10	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
	8:2 FTOH	678-39-7	1	1	with acetic anhydride,
	6:2 FTOH	647-42-7	1	1	followed by GC/MS
	Di-2-ethylhexyl phthalate (DEHP)	117-81-7	10	2	
	Dimethoxyethyl phthalate (DMEP)	117-82-8	10	2	1
	Di-n-octyl phthalate (DNOP)	117-84-0	10	2	1
2L. Phthalates (including all other	Di-iso-decyl phthalate (DIDP)	26761-40-0	10	2	US EPA 8270D, ISO 18856
esthers of phthalic acid)	Di-iso-nonyl phthalate (DINP)	28553-12-0	10	2	Dichloromethane extraction GC/MS
,	Di-n-hexyl phthalate (DnHP)	84-75-3	10	2	30,412
	Dibutyl phthalate (DBP)	84-74-2	10	2	1
	Butyl benzyl phthalate (BBP)	85-68-7	10	2	1
	Dinonyl phthalate (DNP)	84-76-4	10	2	<u> </u>





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			Repor	t Limit	
	Substance (Testing	G. G. S.	Wastew		Name of the testing
Group	parameter)	CAS No.	ater (ug/L)/(ppb)	Sludge (mg/kg) /(ppm)	method
	Diethyl phthalate (DEP)	84-66-2	10	2	
	Di-n-propyl phthalate (DPRP)	131-16-8	10	2	
	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	DIN 38407-39 Solvent extraction GC/MS
2M. Poly Aromatic	Benzo[b]fluoranthene	205-99-2	1	0.2	
Hydrocarbons	Fluoranthene	206-44-0	1	0.2	
(PaHs)	Benzo[k]fluoranthene	207-08-9	1	0.2	
(1 a115)	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	1
	Phenanthrene	85-01-8	1	0.2	1
	Fluorene	86-73-7	1	0.2	
	Naphthalene	91-20-3	1	0.2	1
	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
	pН	-	N/A	N/A	to ZDHC Wastewater
1A. Conventional	Color [m ⁻¹] (436nm; 525nm; 620nm)	_	N/A	N/A	Guidelines for more details on the testing
Parameters	BOD5	_	N/A	N/A	method and the levels
rarameters	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	
				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,
	Chromium VI(CrVI)	18540-29-9	0.001	2	Progressive, and
	Lead(Pb)	7439-92-1	0.001	2	Aspirational).
	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





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APPENDIX C - Onsite Field Data Record Sheet

		ELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / I NDIVIDUAL S AMPLING)					CPSD-AN-00613-DATA 04				
FIE FIE								Issue Date:			
BUREAU		(COMP	OSITE / INT	JIVIDUAL S.	AWPLING)			Version No.: 13 Business Line: Analytic			
NATIONAL SIL								Dusiliess L	ille. Allaiytical		
General Data		C -									
aboratory Sample Num	ber:	(-8)	721)2	21-004	8				_		
Client Name:									_		
Field Contact Person:		Mr.	PAVAN		Phone No:	19861198	388		_		
Project (Facility Name ar	nd Address):	SHAT	HEXPOR	IS PUT.	LTD UNI	1-7 . [BOLLAND	URGATE	<u>)</u> ,		
Sampling Location / Des	cription:	INAST	SHAHLEAPORTS PUT, LTD UNIT-7. BOLLANDURGIATE, WASTE MATER REFORE TREATMENT/RAW WOODE WO								
ample Identification:		Zero discharge v	Zero discharge with sampling plan								
ample Type:		Composite Samp	Composite Sample / Grab-sample (Please delete as appropriate)								
lame of Sampler:		SURIY									
ischarge mode:		Direct discharge to	environment (Sp	ecify destination: Ri	ver, Sea, Stream	.) OR Indirect disc	narge to sewage tr	eatment plant	ZLD PK		
Date of collection:		07-0	9-2021						_		
actory Type:				shing / Others (pl	ease specify):				_		
, -,,		*Note: It would be							_		
Field Data for Wastewa	ater										
Arrival Time:	1101	181 30	10! 30 9m		Departure Time:		4!80				
field Parameters		pH:	(.)	Temp: °C		Color :		Flow rate :	(volume/min		
Control No. of field equip	oment										
actory with effluent trea	itment plant:			es				No			
,			Incoming water	(If required)							
Sample matrix:			Wastewater before treatment								
			Wastewater after	er treatment – wat	er at discharge p	point					
Sampler container numb	ner .								T		
sampler container numb	701	1	2	3	4	5	6	7	8		
	In			,					_		
Recording time	Time		1010000	n11 n0/2m	6936000m	02100Pm	PAL DODO		1		
oH:	Time	11:00AM	,	01:00pm	7.4	7.3	7.2		_		
		7.5	チャチ		28'4	27'	27'6				
emp (°C):		27'2	28'C	27'C			Blue				
Color (visual estimation)		It grey	Itgrey	It Blue	1+Blue	27119	Blue	_			
Flow rate (volume/time)		2745	2645	2745		- 1-	27/13				
/olume collected, mL		1000M1-	(000m)-	colume collected must be greater than total of sample size required							
Total volume collected			Remark: Total v	rolume collected r	nust be greater ti	nan total of samp	ile size required				
Analysis Required and	Preservation Method										
Tests (ZDHC	MRSL Parameters)	Test required	Total of sample size	Type of container		er	Preservation method		thod		
		(V)	Sample Size								
	1. Phthalate										
Combined test or	Chlorobenzenes, Chlorotoluene & PAH		1000 mL total								
Individual test (Remark 4)	3. SCCPs		or 1000 mL each								
(Remark 4)	4. APS							. 4			
	+. APS	1		-							
5. APEOs			100 mL								
6. Chlorophenols & Cre	sols		100 mL	Amher G	Amber Glass,washed with nitric acid, rinsed thoroughly with			Without adding acid Store sample at 6°C			
7. Flame retardant	Andrew Constitution of the		500 mL	r							
		1		distillated water and Store san dried before use				Store sample at 0 C			
8. Dyes			10 mL								
9. Glycol			50 mL								
10. *Pesticides		~	1000 mL								
11. *Nitrosamine		-1	10 mL								
		1									
12. Banned Azodyes			2000 mL								
13. *Free primary aroma	atic amines		500 mL								
14. Organotin Compounds			500 mL				Acidify to pH 2 with HCl and store sample at 6°C				
				Amber 0	Blass, washed with	nitric acid	Fill to full container without air gap; acidify to pH 2 wi				
15. VOC & Halogenated	3 Solvents (Remark 6)	V ,	10 mL	-	washed	icide	HC	HCI and store sample at 6°C			
16. PFCs			2 mL	PE, washed with pesticide grade Acetone			Without adding acid Store sample at 6°C				

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FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)

CPSD-AN-00613-DATA 04
Issue Date:
Version No.: 13
Business Line: Analytical

VERIJAS					Business Line. Arraytoa		
Tests (Conventional Parameters)		Test required (v)	Total of sample size	Type of container	Preservation method		
Combined test or Individual test (Remark 4)	or Individual test (TSS) 18. *Total dissolved solids		2000 mL total or 2000 mL each	Amber Glass, washed with nitric acid, rinsed thoroughly with distillated water and	Without adding acid Store sample at 6°C		
19. 5-day Biochemical C	Oxygen Demand (BOD5)	X	1000 mL	dried before use			
20. Heavy Metals excep	t Cr(VI) & Total-P (Remark 6)	YEV	9 mL	PE, washed with nitric acid	Acidify to pH 2 with HNO ₃ and store at 6°C		
21. Cr(VI)		XV	95 mL	Amber Glass, washed with pesticide grade acetone	Filter by 0.45µm filter in field, fill to full contains without air gap; adjust pH to 9.0-9.5 by adding ammonium buffer. Store sample at 6"C		
22. Cyanide		X	500 mL		Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% Na ₂ S ₂ O ₃ , and store sample at 6°C		
23. Chemical oxygen de	emand (COD)	X	150 mL		Acidify to pH 2 with H ₂ SO ₄		
24. Phenois		X	500 mL	Amber Glass; washed with nitric acid	Store sample at 6°C		
25. *Formaldehyde		X	25 mL		Fill to full container without air gap; acidify to pH 2 with H2SO4 and store sample at 6°C		
26. Sulfide (Remark 5)		×	50 mL	PE, washed with pesticide grade Acetone;	Fill to full container without air gap; add 2 drops of zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 6°C		
27. Adsorbable organically bound halogens (AOX)		X	100 mL	Amber Glass, washed with nitric acid	Add 0.05 ml of 10% Na ₂ S ₂ O ₃ , acidify to pH 2 with H ₂ SO ₄ , Store sample at 6°C		
28. Total Coliform (Remark 6)		X	125 mL	PE, clean, sterile, non-reactive	Add 0.05 ml of 10% Na2S2O3, Store sample at 6°C		
29. Persistent foam		×	N.A.	Foam higher than 45 cm (visual estimation): Yes / No			
30. Sulfite		X	100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA, 0.5g zinc acetate Store sample at 6°C		
31. Total-N		×	100 mL	Amber Glass with wide-mouth PTFE lid;washed with	Acidify to pH 2 with H2SO4		
32. Ammonium-N		X	500 mL	nitric acid;	Store sample at 6°C		
33. Oil and Grease & To	3. Oil and Grease & Total Hydrocarbon		1000 mL	Amber Glass; washed with nitric acid;	Acidify to pH 2 with HCI Store sample at 6°C		
34. Luminus Bacteria Toxicity		X	1000 mL		Without adding acid		
35. Sulphate		X	100 mL	Amber Glass, washed with nitric acid, rinsed thoroughly with distillated water and			
36. Chloride 37. Color		X	100 mL	dried before use	Store sample at 6°C		
		X	100 mL				
38. Others:							
Observation/ Remark:					-		

*	R	e	n	12	ar	k	s	

- 1.Individual sampling can be performed upon request
- 2. The minimum sampling time for 2016 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request.
- ${\it 3. Scope of ZDHC guideline: Parameter 1, 2, 4-9, 12, 14-17, 19-24, 26-33}\\$

Scope of synthetic leather industry: Parameter 1, 2, 4-9, 12, 14-17, 19-33

Scope of MMCF: Parameter 4, 5, 15, 17, 19-21, 23, 24, 26, 27, 31-34, 37

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

- $4.\ Refer to \ CPSD-AN-G00019-STIP01, loactions with those \ CPSD test capability inside \ TCD \ matrix \ can \ perform the \ combined test.$
- Refer to CPSD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested.
 Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

Recorded by:

SURINA M

Date: 07/09/2021

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 1-6°C

Signatory of Factory Representative:

DAVAN M.K

Date: 07/09/202





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FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)

CPSD-AN-00613-DATA 04
Issue Date:
Version No.: 13

N. SECTION SEC		(COMF	POSITE / IN	DIVIDUAL S	AMPLING)			Version No.: 13			
VERITAS								Business Line: /	Analytical		
General Data											
Laboratory Sample Nun	nber:	(8	72110	51-00	45						
Client Name:			12		10						
Field Contact Person:		Mr. PAVAN Phone No: 9986119888									
Project (Facility Name a	nd Address):	SHAHI EXPORTS PVT. LTD UNIT - 7 RELLANDUR GATE									
Sampling Location / Des	scription:	GLUDOLE STATE ON 1 - 1 BELLINDER SIMILE									
Sample Identification:		Zero discharge with sampling plan									
Sample Type:		Composite Sample / Grab sample (Please delete as appropriate)									
Name of Sampler:		SURIYA:M DOW									
Discharge mode:		SURIYA · M Direct discharge to environment (Specify destination: River, Sea, Stream) OR Indirect discharge to sewage treatment plant ZLD Plour									
Date of collection:		07/09/2021									
Factory Type:		Dyeing / Printing / Washing / Finishing / Others (please specify):									
		*Note: It would be	selected more that	an one							
Field Data for Sludge											
Arrival Time:	10.30 am			Departure Time:		4.30	pm]			
Field Parameters		pH:		Temp: 12	°C	Color: RI	lue				
Control No. of field equi	pment					130		1			
							Kerekly (Southern St.	1			
Analysis Required and				res		Т					
Factory with effluent tre	atment plant					1		40			
Sample matrix		-	Sludge in clarifi	er (sedimentation	tank)	-					
Sampler container numb	per										
Recording time		12:15pm	}				ii.				
Tests (MR	SL Parameter)	Test required (√)	Total of sample		Type of containe	er	Р	reservation method			
	1. Phthalate	(V)	3126								
Combined test	Chlorobenzenes,										
or Individual test	Chlorotoluene & PAHs		10g total or								
(Remark 3)	3. SCCPs		10g each								
	4. APS										
5. APEOs			20 g	Amber Glass, washed with nitric acid			Fill to full bottle without any air gap and store at 6°C				
6. Chlorophenols & Cres	sols		20 g								
7. Flame retardant			10 g								
8. Dyes			10 g				William	without any air gap and store at 6 C			
9. Glycols			100 g								
10. *Pesticides		-1	20g								
11. Banned Azodyes		1					,				
	No continue	-	20 g								
12. *Free primary aroma		~	10 g								
13. Organotin Compoun	ds		10 g				Fill to full container without any air gap and acid				
14. VOC & Halogenated Solvents			10 g	Amber Glass, w	ash with pesticion	de grade acetone		iner without any air ga dd and store at 6°C	p and acid		
15. PFCs		/	10 g	PE, wash with pesticide garde acetone			Fill to full bottle without any air gap and store at 6°C				
							Without a	ny an gap and store a	100		
Tests (Conventional Parameters)		Test required (v)	Total of sample size	Type of container			Preservation method				
16. Heavy Metals except Cr(VI)		~	0.2 g	PE, wash with nitric acid			Fill to full bottle without any air gap and store at 6°C				
17. Cr(VI)		./	2.5 g				without a	ny air gap and store a	100		
				Fill to full of Amber Glass, wash with pesticide grade acetone			Fill to full container without any air gap and acid add and store at 6°C				
18. Adsorbable organically bound halogens (AOX)		1	1 g								
19. Extractable organichalides (EOX)		7	20 g								
20. Total organic carbon (TOC)		7	20 g ·								
			50 g	Fill to full container without any a							
21. Cyanide			50 g	adjust pH 12 with 50% NaOH and st				ore at 6°C			
loo ou				1							

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APPENDIX D – Limitation Value of Legal Requirements

N/A