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SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)

Number: BGDT25026599

Report Date: 04/03/2025

Factory's name	:	FCI (BD) LTD.
Factory's address	:	PLOT#36, 39, DEPZ (OLD), GANAKBARI, SAVAR, DHAKA, BANGLADESH
Type of wastewater discharge:		Indirect discharge
On-site Wastewater treatment plant:		Without pretreatment
Average total industrial wastewater generated:		≥ 15m3/day
Date and time of the beginning of sampling:		20/02/2025, 09:40
Date and time of the end of sampling:		20/02/2025, 15:40
Date received sample:		20/02/2025
Testing period:		From 20/02/2025 to 03/03/2025
Arrival temperature at laboratory:		7 °C
Sample type:		
Sample / Untreated wastewater		Light Grey, composite sample at 09:40; 10:40; 11:40; 12:40; 13:40; 14:40; 15:40 Sampling location: N 23.94879, E 90.27070
Sampling laboratory:		ITS Labtest Bangladesh Ltd.
Testing laboratory:		ITS Labtest Bangladesh Ltd.
ZDHC sampler accreditation certification number:		ZDHC-A-22-E-C001068-R2280-609FB
Local legal standard name[a]:		The Environment Conservation Rules, 2023; Government of the People's Republic of Bangladesh; Ministry of Environment, Forest and Climate Change
Local legal standard no.[a]:		The Environment Conservation Rules, 2023; Government of the People's Republic of Bangladesh; Ministry of Environment, Forest and Climate Change
Parameters (ZDHC WWSG V2.2, Table 2-3) exceeded local regulation:		N/A
Discharge permit provided:		Yes

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Tests conducted:
As requested by a brand program, for details refer to attached page(s).

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Summary of test results:

Wastewater / MRSL – Test items	Testing period	Untreated Wastewater
Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)	From 23/02/2025 to 23/02/2025	ND
Anti-Microbials & Biocides	From 25/02/2025 to 26/02/2025	ND
Chlorinated Parafins	From 22/02/2025 to 23/02/2025	ND
Chlorobenzenes and Chlorotoluenes	From 25/02/2025 to 26/02/2025	ND
Chlorophenols	From 25/02/2025 to 26/02/2025	ND
Dimethyl Formamide (DMFa)	From 22/02/2025 to 23/02/2025	ND
Dyes – Carcinogenic or Equivalent Concern	From 23/02/2025 to 23/02/2025	ND
Dyes – Disperse (Allergenic)	From 23/02/2025 to 23/02/2025	ND
Flame Retardants	From 25/02/2025 to 26/02/2025	ND
Glycols / Glycol Ethers	From 25/02/2025 to 26/02/2025	ND
Halogenated solvents	From 25/02/2025 to 26/02/2025	ND
Organotin compounds	From 25/02/2025 to 26/02/2025	ND
Other/Miscellaneous Chemicals (^)	From 23/02/2025 to 23/02/2025	ND
Perfluorinated & Polyfluorinated chemicals (PFCs)	From 23/02/2025 to 23/02/2025	ND
Phthalates (Ortho-phthalates)	From 22/02/2025 to 23/02/2025	ND
Polycyclic aromatic hydrocarbons (PAHs)	From 25/02/2025 to 26/02/2025	ND
Restricted Aromatic Amines (Cleavable from Azo- colourants)	From 22/02/2025 to 23/02/2025	ND
UV Absorbers	From 22/02/2025 to 23/02/2025	ND
Volatile Organic Compounds (VOC)	From 25/02/2025 to 26/02/2025	ND

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Wastewater / Heavy metals – Test items	Testing period	Untreated Wastewater		
		Foundational	Progressive	Aspirational
Chromium (VI)	From 24/02/2025 to 24/02/2025			Meet
Arsenic	From 24/02/2025 to 24/02/2025			Meet
Cadmium	From 24/02/2025 to 24/02/2025			Meet
Lead	From 24/02/2025 to 24/02/2025			Meet
Mercury	From 24/02/2025 to 24/02/2025			Meet

Remark:		
ND	=	Not detected (less than ZDHC reporting limit for MRSL parameters) / Not detected (less than lab reporting limit for other parameters)
D	=	Detected
N/A	=	Not applicable (Out of scope according to ZDHC WWSG v2.2)
NT	=	Not tested (Did not test according to applicant's request)
(T)	=	If sample temperature is greater than 8°C and less than 10°C when received from the laboratory.
(TT)	=	If sample temperature is exceeded 10°C when received from the laboratory.
@	=	Maximum holding time exceeded.
(^)		Borate, zinc salt would report ND when total boron or total zinc less than 100 µg/L.
[f]	=	On-site test by sampler.
[a]	=	The local legal standard name and legal standard no. is referenced to discharge permit (or contractual agree by CETP) that provided by applicant.
This report shows the test results of the environmental samples of the above factory which were collected on a specific date and time. The results of this report shall not be used for any regulatory compliance purposes.		

Remarks:
- Factory uses CETP.
- Untreated wastewater collected from raw wastewater discharge point of FCI (BD) Ltd. only.
- This sampling was agreed with the client.

Authorized By
For ITS Labtest Bangladesh Ltd. [Testing - Dhaka]

Mominul Islam
Head of Analytical, Softlines

SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)

Number: BGDT25026599

Sample / Wastewater

1. Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers

NP/OP: With reference to ASTM D7742, modified from ISO 18218 (LC-MS Analysis).
OPEO/NPEO (n>2): With reference to ASTM D7742, modified from ISO 18254 (LC-MS Analysis).

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
Nonylphenol ethoxylates (NPEO)	Multiple Including 9016-45-9; 26027-38-3; 37205-87-1; 68412-54-4; 127087-87-0	5	ND	µg/L
Nonylphenol (NP), mixed isomers	Multiple Including 104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	5	ND	µg/L
Octylphenol ethoxylates (OPEO)	Multiple Including 9002-93-1; 9036-19-5; 68987-90-6	5	ND	µg/L
Octylphenol (OP), mixed isomers	Multiple Including 140-66-9; 1806-26-4; 27193-28-8	5	ND	µg/L

2. Anti- Microbials & Biocides

OPP, Triclosan: With reference to USEPA 8270E Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS analysis; with reference to modified from EN 17134 (GC-MS Analysis), an alternative method of solvent extraction and derivatization are included.
Permethrin: With reference to USEPA 8270E Solvent extraction, followed by GC-MS analysis; With reference to ISO 14154 without derivatization and determination by GC-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
o-Phenylphenol (+salts)	90-43-7	100	ND	µg/L
Triclosan	3380-34-5	100	ND	µg/L
Permethrin	Multiple including 52645-53-1	500	ND	µg/L

3. Chlorinated Parafins

For MCCP: With reference to analysis by ISO18219-2 with GC-MS-NCI analysis.
For SCCP: With reference to analysis by ISO18219-1 with GC-MS-NCI analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
Medium-chain Chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	500	ND	µg/L
Short-chain Chlorinated paraffin (SCCPs)(C10 – C13)	85535-84-8	25	ND	µg/L

4. Chlorobenzenes and Chlorotoluenes

With reference to modified from ISO 17137 (GC-MS Analysis), USEPA 8270E, Purge and Trap, Head Space, Dichloromethane extraction followed by GC-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
1,2-Dichlorobenzene	95-50-1	0.2	ND	µg/L
Other isomers of mono-, di-, tri-, tetra-, penta- and hexa- Chlorobenzene and mono-, di-, tri-, tetra- and penta-chlorotoluene	Multiple including 108-90-7; 541-73-1; 106-46-7; 87-61-6; 120-82-1; 108-70-3; 634-66-2; 634-90-2; 95-94-3; 608-93-5; 118-74-1; 95-49-8; 108-41-8; 106-43-4; 32768-54-0; 95-73-8; 19398-61-9; 118-69-4; 95-75-0; 25186-47-4; 7359-72-0; 2077-46-5; 6639-30-1; 23749-65-7; 21472-86-6; 1006-32-2; 875-40-1; 1006-31-1; 877-11-2	0.2	ND	µg/L

5. Chlorophenols

With reference to US EPA 8270E solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS; with reference to modified from DIN 50009 (GC-MS Analysis), solvent extraction and derivatization are included.

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

6. Dimethyl Formamide (DMFa)

With reference to modified from EN ISO 16189 (GC-MS Analysis), EPA 8270E with GC-MS Analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
Dimethyl formamide; N,N-dimethylformamide (DMFa)	68-12-2	1000	ND	µg/L

7. Dyes – Carcinogenic or Equivalent Concern

With reference to modified DIN 54231 (LC-MS Analysis) By Liquid extraction.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
Basic violet 3 with >0.1% of Michler´s Ketone	548-62-9	500	ND	µg/L
C.I. Acid Red 26	3761-53-3	500	ND	µg/L
C.I. Acid Violet 49	1694-09-3	500	ND	µg/L
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	500	ND	µg/L

C.I. Basic Green 4 (malachite green chloride)	569-64-2	500	ND	µg/L
C.I. Basic Green 4 (malachite green oxalate)	2437-29-8	500	ND	µg/L
C.I. Basic Green 4 (malachite green)	10309-95-2	500	ND	µg/L
C.I. Basic Red 9	569-61-9	500	ND	µg/L
C.I. Basic Violet 14	632-99-5	500	ND	µg/L
C.I. Direct Black 38	1937-37-7	500	ND	µg/L
C.I. Direct Blue 6	2602-46-2	500	ND	µg/L
C.I. Direct Red 28	573-58-0	500	ND	µg/L
C.I. Disperse Blue 1	2475-45-8	500	ND	µg/L
C.I. Disperse Blue 3	2475-46-9	500	ND	µg/L
Disperse Orange 11	82-28-0	500	ND	µg/L

8. Dyes – Disperse (Allergenic)

With reference to modified DIN 54231 (LC-MS Analysis) By Liquid extraction.

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

9. Flame retardants

Borate salt: Determined as total boron via ICP analysis.

Other flame retardant substances: With reference to USEPA 8270E, modified from ISO 17881-1 (GC-MS Analysis), modified from ISO 17881-2 (GC-MS Analysis), Dichloromethane extraction GC-MS or LC-MS analysis.

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
Boric acid **	10043-35-3; 11113-50-1	500 in Boron	ND	µg/L
Diboron trioxide **	1303-86-2	500 in Boron	ND	µg/L
Disodium octaborate **	12008-41-2	500 in Boron	ND	µg/L
Disodium tetraborate anhydrous **	1303-96-4; 1330-43-4	500 in Boron	ND	µg/L
Tetraboron disodium heptaoxide, hydrate **	12267-73-1	500 in Boron	ND	µg/L
Hexabromocyclododecane (HBCDD)	3194-55-6	25	ND	µg/L
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25	ND	µg/L
Polybromobiphenyls (PBBs)	59536-65-1	25	ND	µg/L
Monobromobiphenyls (MonoBB)	Multiple	25	ND	µg/L
Monobromodiphenylethers (MonoBDEs)	Multiple	25	ND	µg/L
Dibromobiphenyls (DiBB)	Multiple	25	ND	µg/L
Dibromopropylether	21850-44-2	25	ND	µg/L
Tribromodiphenylethers (TriBDEs)	Multiple	25	ND	µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	ND	µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	ND	µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	ND	µg/L
Octabromobiphenyls (OctaBB)	Multiple	25	ND	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	ND	µg/L
Nonabromobiphenyls (NonaBB)	Multiple	25	ND	µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	ND	µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	25	ND	µg/L
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	ND	µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	25	ND	µg/L
Bis(2,3-dibromopropyl) phosphate (BDBPP)	5412-25-9	25	ND	µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	ND	µg/L
Tris(1-aziridinyl)phosphine oxide) (TEPA)	545-55-1	25	ND	µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	ND	µg/L
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	25	ND	µg/L
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	25	ND	µg/L

** Report total boron directly, no conversion from Boron salt.

10. Glycols / Glycol Ethers

With reference to US EPA 8270E, modified from ISO 22892 (GC-MS Analysis), Liquid extraction, GC-MS analysis.

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

11. Halogenated solvents

With reference to USEPA 8260D, Headspace GC-MS or Purge and trap GC-MS analysis.

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
1,2-Dichloroethane	107-06-2	1	ND	µg/L
Methylene chloride	75-09-2	1	ND	µg/L
Tetrachloroethylene	127-18-4	1	ND	µg/L
Trichloroethylene	79-01-6	1	ND	µg/L

12. Organotin compounds

With reference to modified from ISO/TS 16179 (GC-MS Analysis), ISO 17353, Derivatisation with NaB (C2H5)4, with GC-MS analysis.

Chemical substances	CAS no.	ZDHC Reporting limit µg/L)	Untreated wastewater	Unit
Dipropyltin compounds (DPT)	Multiple including 867-36-7	0.01	ND	µg/L
Mono-, di- and tri-butyltin derivatives	Multiple including 1118-46-3; 1461-22-9	0.01	ND	µg/L
Mono, di-, and tri-methyltin derivatives	Multiple including 993-16-8; 753-73-1; 1066-45-1	0.01	ND	µg/L
Mono, di-, and tri-octyltin derivatives	Multiple including 3091-25-6; 3542-36-7; 2587-76-0	0.01	ND	µg/L
Mono, di-, and tri-phenyltin derivatives	Multiple including 1124-19-2; 1135-99-5; 639-58-7	0.01	ND	µg/L

Tetrabutyltin compounds (TeBT)	Multiple including 1461-25-2	0.01	ND	µg/L
Tetraethyltin Compounds (TeET)	Multiple including 597-64-8	0.01	ND	µg/L
Tetraoctyltin compounds (TeOT)	Multiple including 3590-84-9	0.01	ND	µg/L
Tricyclohexyltin (TCyHT)	Multiple including 3091-32-5	0.01	ND	µg/L
Tripropyltin Compounds (TPT)	Multiple including 2279-76-7	0.01	ND	µg/L

13. Other/Miscellaneous Chemicals

Others: With reference to Liquid extraction, LC-MS-MS analysis.

Borate salt: Determined as total boron and total zinc via ICP analysis.

Chemical substances	**CAS no.**	**ZDHC Reporting limit (µg/L)**	**Untreated wastewater**	**Unit**
AEEA [2-(2-aminoethylamino) ethanol]	111-41-1	500	ND	µg/L
Bisphenol A	80-05-7	10	ND	µg/L
Borate, zinc salt ^^	12767-90-7	100 in Boron & 100 in Zinc	Boron: ND Zinc: ND	µg/L
Quinoline	91-22-5	50	ND	µg/L
Thiourea	62-56-6	50	ND	µg/L

^^ = Report total boron & total zinc individually, and no conversion from boron / zinc salt.

14. Perfluorinated & polyfluorinated chemicals (PFCs)

PFCs: With reference to modified from ISO 23702-1 (LC-MS Analysis), EPA 8270 with LC-MS Analysis
FTOH: With reference to modified from ISO 23702-1 (LC-MS Analysis), EPA 8270 with LC-MS Analysis

Chemical substances	**CAS no.**	**ZDHC Reporting limit (µg/L)**	**Untreated wastewater**	**Unit**
Perfluorooctane sulfonate (PFOS) and related substances	Multiple including 1763-23-1	0.01	ND	µg/L
Perfluorooctanoic acid (PFOA) and related Substances	Multiple including 335-67-1	1	ND	µg/L

15. Phthalates – including all other esters of ortho-phthalic acid

With reference to USEPA 8270E, modified from ISO 14389 (GC-MS Analysis), Dichloromethane extraction GC-MS analysis.

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

16. Polycyclic aromatic hydrocarbons (PAHs)

With reference to US EPA 8270E, DIN 38407-39, solvent extraction GC-MS analysis.

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
Acenaphthene	83-32-9	1	ND	µg/L
Acenaphthylene	208-96-8	1	ND	µg/L
Anthracene	120-12-7	1	ND	µg/L
Benzo[a]anthracene	56-55-3	1	ND	µg/L
Benzo[a]pyrene (BaP)	50-32-8	1	ND	µg/L
Benzo[b]fluoranthene	205-99-2	1	ND	µg/L
Benzo[e]pyrene	192-97-2	1	ND	µg/L
Benzo[ghi]perylene	191-24-2	1	ND	µg/L
Benzo[j]fluoranthene	205-82-3	1	ND	µg/L
Benzo[k]fluoranthene	207-08-9	1	ND	µg/L
Chrysene	218-01-9	1	ND	µg/L
Dibenz[a,h]anthracene	53-70-3	1	ND	µg/L
Fluoranthene	206-44-0	1	ND	µg/L

Fluorene	86-73-7	1	ND	µg/L
Indeno[1,2,3-cd]pyrene	193-39-5	1	ND	µg/L
Naphthalene	91-20-3	1	ND	µg/L
Phenanthrene	85-01-8	1	ND	µg/L
Pyrene	129-00-0	1	ND	µg/L

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

With reference to reduction step with sodium dithionite, solvent extraction, EPA 8270E and ISO 14362-1, ISO 14362-3 with GC-MS analysis.

Chemical substances	CAS no.	ZDHC Reporting limit µg/L)	Untreated wastewater	Unit
2-Naphthylamine	91-59-8	0.1	ND	µg/L
2-Naphthylammoniumacetate	553-00-4	0.1	ND	µg/L
2,4-Xylidine	95-68-1	0.1	ND	µg/L
2,4,5-Trimethylaniline	137-17-7	0.1	ND	µg/L
2,4,5-Trimethylaniline hydrochloride	21436-97-5	0.1	ND	µg/L
2,6-Xylidine	87-62-7	0.1	ND	µg/L
3,3'-Dichlorobenzidine	91-94-1	0.1	ND	µg/L
3,3'-Dimethoxybenzidine	119-90-4	0.1	ND	µg/L
3,3'-Dimethylbenzidine	119-93-7	0.1	ND	µg/L
4-Aminoazobenzene	60-09-3	0.1	ND	µg/L
4-Aminodiphenyl	92-67-1	0.1	ND	µg/L
4-Chloro-o-toluidine	95-69-2	0.1	ND	µg/L
4-Chloro-o-toluidinium chloride	3165-93-3	0.1	ND	µg/L
4-Chloroaniline	106-47-8	0.1	ND	µg/L
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	0.1	ND	µg/L
4-methoxy-m-phenylenediamine	615-05-4	0.1	ND	µg/L
4-methyl-m-phenylenediamine	95-80-7	0.1	ND	µg/L
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.1	ND	µg/L
4,4’-methylenedi-o-toluidine	838-88-0	0.1	ND	µg/L
4,4’-methylenedianiline	101-77-9	0.1	ND	µg/L
4,4'-Oxydianiline	101-80-4	0.1	ND	µg/L
4,4'-Thiodianiline	139-65-1	0.1	ND	µg/L
5-Nitro-o-toluidine	99-55-8	0.1	ND	µg/L
6-methoxy-m-toluidine	120-71-8	0.1	ND	µg/L
Benzidine	92-87-5	0.1	ND	µg/L
o-Aminoazotoluene	97-56-3	0.1	ND	µg/L
o-Anisidine	90-04-0	0.1	ND	µg/L
o-Toluidine	95-53-4	0.1	ND	µg/L

18. UV Absorbers

With reference to USEPA 8270, ISO 22032, USEPA 527, and USEPA 8321B, dichloromethane extraction GC-MS or LC-MS-MS analysis.

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

19. Volatile organic compounds (VOCs)

With reference to ISO 11423-1 Headspace or Purge and trap, GC-MS analysis.
USEPA 8260D static headspace for determination of VOC in wastewater.

Chemical substances	CAS no.	ZDHC Reporting limit (µg/L)	Untreated wastewater	Unit
Benzene	71-43-2	1	ND	µg/L
m-cresol	108-39-4	1	ND	µg/L
o-cresol	95-48-7	1	ND	µg/L
p-cresol	106-44-5	1	ND	µg/L
Toluene	108-88-3	1	ND	µg/L
Xylene	1330-20-7	1	ND	µg/L

20. Heavy metals

With reference to ISO 11885, USEPA 200.8, ISO 18412, modified from EN 16711-1 (ICP-MS Analysis).

Chemical substances	Limit			Legal * Require-ment	Lab Reporting limit (mg/L)	Untreated Wastewater	Unit
	Foundational	Progressive	Aspirational				
Chromium (VI)	0.05 mg/L	0.005 mg/L	0.001 mg/L	-	0.001	ND	mg/L
Arsenic	0.05 mg/L	0.01 mg/L	0.005 mg/L	-	0.005	ND	mg/L
Cadmium	0.1 mg/L	0.05 mg/L	0.01 mg/L	-	0.01	ND	mg/L
Lead	0.1 mg/L	0.05 mg/L	0.01 mg/L	-	0.01	ND	mg/L
Mercury	0.01 mg/L	0.005 mg/L	0.001 mg/L	-	0.001	ND	mg/L

* Regulation/Standard information for discharged wastewater as well as the limitation value (or contractual limit value agreed by CETP) for the required parameters (mandatory).

Photo of sampling point:

Untreated wastewater

Photo of samples:

Untreated wastewater

SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)

Number: BGDT25026599

Attachment – sampling protocol for wastewater & sludge:

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ZDHC Monitoring

Sampling Protocol for Wastewater and Sludge acc. **ZDHC SAP 2.1*** incl. Apdx. E

Facility Name	FCI (BD) Ltd.
Address and Contact:	Plot # 36, 39, DEPZ (Old) Gianakbari, Ashulia, Savar Dhaka.
Facility type : (tick all applicable)	☐ Dyeing and Finishing ☐ Fabric Mill ☑ Laundry, Washing and Finishing ☐ Natural Leather processing ☐ Printing ☐ Synthetic Leather processing
Date of sampling:	20-02-25
Sample General ID (if applicable):	ITSGL 2502074 ☐ direct discharge ☑ indirect discharge ☐ Zero Liquid Discharge (ZLD) ☐ MMCF ☐ with pre-treatment ☑ without treatment ☐ with own ETP discharge to: N/A
Discharge description:	N/A
Weather conditions:	on sampling day: Sunny on day before: Sunny.

*) Changes from ZDHC Wastewater Guidelines V2.2 (September 2024) are implemented.

Sample Type and Details (see also page 2)

☐ **Discharged Wastewater**	○ **direct:** Enter sampling times in Sample Details (page 2), and measure field parameters.	☑ ○ **indirect** Enter sampling time(s) for Indirect discharge. Field parameters are not required, except on client's request.	○ Facility has WWTP ○ Plant is in operating condition	◇ **with Equalisation Tank (EQT) present:** **Hydraulic Retention Time (HRT):** ..... h (= Volume of tank [m³] / Flow rate [m³/h]) **If HRT > 12h, grab sampling from EQT is allowed.**

☐ **Pre-treated WW without sludge**	☑ **Untreated WW**	○ **with Equalisation Tank (EQT) present:** HRT: ..... h (= Volume of tank [m³] / Flow rate [m³/h]) **If HRT > 12h, grab sampling from EQT is allowed**	☐ **Incoming Water**	☐ **MMCF**

☐ **Sludge** with below disposal pathway ①: age of sludge : ..... days / weeks

○ A	○ B	○ C	○ D	○ E	○ F	○ G
> 1000 °C on-site or off-site incineration	Landfill with significant control	Building products processed >1000 °C	Landfill with limited control	Off-site Incineration & Building products processed <1000 °C	Landfill with no control measures	Land application for specific purpose in approved areas

① if supplier cannot provide information, pathway "F" shall be assumed.

Sludge volume generated: ..... ○ m³/h ○ L/sec ○ other unit (specify): ..... ○ per facility info ○ measured ○ estimated

☐ **Process Chemical** ○ liquid ○ solid (powder/granulate/pieces) ◇ from running process ◇ from warehouse/storage

Times of sampling (if applicable)									
	Untreated:	1 9:40	2 10:40	3 11:40	4 12:40	5 13:40	6 14:40	7 15:40	or Grab (HRT>12h):
	Discharged WW (indirect) ②:	1	2	3	4	5	6	7	or Grab③ (HRT>12h):
	Incoming ③:	1	2	3	4	5	6	7	or Grab③ (HRT>12h):
	Sludge (liquid):	1	2	3	4	5	6	7	**Solid sludge:**

② for direct discharge, see page 2

③ take grab sample for tap water, river water, and industrial treated river water without EQT; recycled water from EQT <12h must be composite.

Picture ID (or Date & Time / Interval):
ITSGL2502074-Untw-1
ITSGL2502074-Untw-S-1

GPS coordinates of sampling points:

Incoming W.:	Lat.: ○ N ○ S	Long.: ○ E ○ W
Untreated WW:	Lat.: ~~○ N~~ ○ S 23.94879	Long.: ~~○ E~~ ○ W 90.27080
Discharged WW:	Lat.: ○ N ○ S	Long.: ○ E ○ W
Sludge:	Lat.: ○ N ○ S	Long.: ○ E ○ W

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ZDHC Monitoring

Sample Details ② Field parameters usually are only required for **direct discharge**. If client requests also for indirect discharge, use below fields.

☐ Composite Sample	☐ Grab Sample (only allowed from EQT of Discharged WW with HRT>12h) (enter data in column for **Averaged Readings** and in field at right)	Volume of aliquot(s): ..... mL

Time ④ of discrete Discharged WW sample	1	2	3	4	5	6	7	Averaged Readings or Grab Sample readings:
pH:								
Temp. of WW discharge	°C	°C	°C	°C	°C	°C	°C	°C
Temp. of receiving water	°C	°C	°C	°C	°C	°C	°C	°C
Flow rate:	L/s	L/s	L/s	L/s	L/s	L/s	L/s	**m^3/d avg.**
Dissolved Oxygen:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Total Chlorine:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Persistent foam:	O yes O no	O yes O no	O yes O no	O yes O no	O yes O no	O yes O no	O yes O no	

④ time when discrete sample for composite was taken. Use comment field if number of samples is greater than seven, or if above fields are otherwise not sufficient.
Note: 1.0 m^3/h = 0.27 L/s ; 1.0 L/s = 86.4 m^3/d; 1 m^3/h = 0.042 m^3/d; *multiply the flow rate in m^3/h by the daily operation time of the ETP to get flow rate in m^3/d;*

Sampling procedure: O automated sampling O with beaker/bowl O other: .....

Wastewater Flow Data (Discharged WW)

System:	❒ Flow meter (in facility)	❒ Pipe (O)	❒ Flume (U)	❒ Wier (V)
Diameter [cm]				
Water Depth [cm]				
Flow Speed [cm/sec]				

General Field Parameters and Sensory Data (enter as far as applicable)

Type	T ambient air [°C]	Odour	Colour	Foaming	Floating matter
Incoming				O yes O no	O yes O no
Untreated			Light Grey	O yes O no	O yes O no
Discharged WW				O yes O no	O yes O no
Sludge					

Field Testing QA/QC

Parameter	Lab Control Sample target value	Lab Control Sample measured value	Accuracy [%]
pH			
Total Chlorine			

Other observations:

Additional notes (e.g., alternatively measured flow and readings, abbreviations used, etc):

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ZDHC Monitoring

ZDHC Wastewater Sampling - Facility Confirmation

The Wastewater samples have been collected under the facility's normal production scale and wastewater flow rate. The sampler listed below was on-site and collected the samples.

Sampling person (name & email address):
Anisur Rahman
Environmentallab.softlines
bgd@intertek.com

Facility Name:
FCL (BD) Ltd.

Sampler's ZDHC accreditation no.:
ZDHe-A-22-E-C00668-R2280-609FB

Facility's Representative name:
Rasel Ahmed

Sampler's Signature:

Facility's Representative Signature and Stamp:

****

End of report

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