

TEST REPORT NO : 1002471500 REVISION1
Oct.20, 2024
UL ORDER NO : 15514769
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Factory:	FCI (BD) LTD.	Sampling Date:	Oct.06, 2024
Address:	PLOT # 36-39 & 83-84, DEPZ, GANAKBARI, SAVAR, DHAKA-1349, BANGLADESH	Laboratory Received Date:	Oct.06, 2024
Contact Person:	MR. RASEL AHMED	Test Date:	Oct.06 – Oct.15, 2024
Reference Testing Protocol:	ZDHC Wastewater Guidelines Version 2.1	Laboratory Received Temperature:	Untreated Wastewater: 5.8°C Effluent: 5.8°C
Reference Sample Handling Method:	ZDHC Sampling and Analysis Plan (SAP) Version 2.1	Sampling Time Untreated Wastewater:	Composite: 10.35am, 11.35am, 12.35pm, 1.35pm, 2.35pm, 3.35pm, 4.35pm
Buyer Name:	Self-Reference	Sampling Time Effluent/Treated Wastewater:	Composite: 10.35am, 11.35am, 12.35pm, 1.35pm, 2.35pm, 3.35pm, 4.35pm
Sampler accreditation certification number (ZDHC):	C74D106817971	Discharge Method:	Indirect Discharge Without Pretreatment
Sample Collected By:	UL VS Bangladesh Ltd.		

Sample Information:

Sample ID	Description	Equivalent Code / Color
001	Untreated Wastewater	Light Grey
002	Effluent/Treated Wastewater	Light Brown

 For and on behalf of
 UL VS Bangladesh Limited



Md. Nur Alam – Lab Technical & Operations Manager

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Test Table	Executive Summary	Result	
		001	002
1A-1T	Untreated Wastewater Parameters:		
1A	Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs)	PASS	/
1B	Anti- Microbials & Biocides	PASS	/
1C	Chlorinated Paraffins	PASS	/
1D	Chlorobenzenes and Chlorotoluenes	PASS	/
1E	Chlorophenols	PASS	/
1F	N,N-di-methyl formamide (DMFa)	PASS	/
1G	Dyes – Carcinogenic or Equivalent Concern	PASS	/
1H	Dyes – Disperse (Allergenic)	PASS	/
1I	Dyes – Navy Blue Colourant	PASS	/
1J	Flame retardants	PASS	/
1K	Glycols / Glycol Ethers	PASS	/
1L	Halogenated Solvents	PASS	/
1M	Organotin Compounds	PASS	/
1N	Other/Miscellaneous Chemicals	PASS	/
1O	Perfluorinated and Polyfluorinated Chemicals (PFCs)	PASS	/
1P	Phthalates – including all other esters of ortho-phthalic acid	PASS	/
1Q	Polycyclic Aromatic Hydrocarbons (PAHs)	PASS	/
1R	Restricted Aromatic Amines (Cleavable from Azo colourants)	PASS	/
1S	UV Absorbers	PASS	/
1T	Volatile Organic Compounds (VOC)	PASS	/
2	Heavy Metals (Effluent)	/	PASS

Remark:

- The results relate only to the samples tested.
- “ND”=Not Detected, “NA”=Not Applicable,
- ** = test result(s) will be added later
- All collected samples have been tested within the maximum holding time stipulated by the SAP guidelines.

This report replaces the report No 1002471500 from Oct. 15, 2024 and must be used instead of it. Untreated Wastewater- Sample Photo(s) and Sampling Point Photo(s) has been updated in revised report due to attaching error.

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1A-1T) Wastewater Parameters:
(1A) Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs):

Standard Method for Analysis/Testing: NP/OP: ISO 18857-2(modified dichloromethane extraction) or ASTM D7065 (GC-MS or LC-MS(-MS) OPEO/NPEO (n>2): ASTM D7742 ISO 18857-2

Detection Limit: 5 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
Nonylphenol ethoxylates (NPEO)	9016-45-9, 26027-38-3 37205-87-1, 68412-54-4 127087-87-0	5	ND
Nonylphenol (NP), mixed isomers	104-40-5, 11066-49-2 25154-52-3, 84852-15-3	5	ND
Octylphenol ethoxylates (OPEO)	9002-93-1, 9036-19-5 68987-90-6	5	ND
Octylphenol (OP), mixed isomers	140-66-9, 1806-26-4 27193-28-8	5	ND
Conclusion			PASS
“<” means “less than” ; “ND” means “Not detected” ; “µg/L” means “microgram per litre”;			
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

(1B) Anti- Microbials & Biocides:

Standard Method for Analysis/Testing: Inhouse Method, USEPA 8270E Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS BS EN 12673-1999 an alternative method of solvent extraction and derivatization are included, USEPA 8270E Solvent extraction, followed by GC-MS ISO 14154:2005 An alternate method, without derivatization and determination by LCMS/LCMSMS.

Substance name	CAS No.	Detection limit, µg/L	Reporting limit, µg/L	Result, µg/L (001)
o-Phenylphenol (+salts)	90-43-7	0.5	100	ND
Triclosan	3380-34-5	100	100	ND
Permethrin	Multiple	500	500	ND
Conclusion				PASS
“<” means “less than” ; “ND” means “Not detected” ; “µg/L” means “microgram per litre”;				
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction				

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(1C) Chlorinated Paraffins:

Standard Method for Analysis/Testing: Preparation: EPA 3510 Analysis: ISO18219-2:2021 Method for MCCP/SCCP with GC-MS(NCI) or LC-MS/MS

Detection Limit: 5 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
Medium-chain Chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	5	ND
Short-chain Chlorinated paraffin (C10 – C13)	85535-84-8	5	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre;			
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

(1D) Chlorobenzenes and Chlorotoluenes:

Standard Method for Analysis/Testing: USEPA 8260D, 8270E, Purge and Trap, Head Space Dichloromethane extraction followed by GC-MS

Detection Limit: 0.2 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
1,2-dichlorobenzene	95-50-1	0.2	ND
Other isomers of mono-, di-, tri-, tetra-, penta- and hexa- Chlorobenzene and mono-, di-, tri-, tetra- and penta- chlorotoluene	Multiple	0.2	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre;			
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

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(1E) Chlorophenols:

Standard Method for Analysis/Testing: USEPA 8270D, ISO 14154:2005, In House Method.

Detection Limit: 0.5 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
Pentachlorophenols (PCP)	87-86-5	0.5	ND
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	ND
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	ND
2,3,5,6-tetrachlorophenol	935-95-5	0.5	ND
2,4,6-trichlorophenol	88-06-2	0.5	ND
2,3,4-trichlorophenol	15950-66-0	0.5	ND
2,3,5-trichlorophenol	933-78-8	0.5	ND
2,3,6-trichlorophenol	933-75-5	0.5	ND
2,4,5-trichlorophenol	95-95-4	0.5	ND
3,4,5-trichlorophenol	609-19-8	0.5	ND
2,3-dichlorophenol	576-24-9	0.5	ND
2,4-dichlorophenol	120-83-2	0.5	ND
2,5-dichlorophenol	583-78-8	0.5	ND
2,6-dichlorophenol	87-65-0	0.5	ND
3,4-dichlorophenol	95-77-2	0.5	ND
3,5-dichlorophenol	591-35-5	0.5	ND
2-Chlorophenol	95-57-8	0.5	ND
3-Chlorophenol	108-43-0	0.5	ND
4-Chlorophenol	106-48-9	0.5	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”;			
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

(1F) N,N-di-methyl formamide (DMFa):

Standard Method for Analysis/Testing: EPA 8015, EPA 8270E

Detection Limit: 1000 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
Dimethyl formamide; N,N-dimethylformamide (DMFa)	68-12-2	1000	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”;			
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

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(1G) Dyes – Carcinogenic or Equivalent Concern:

Standard Method for Analysis/Testing: Liquid extraction, LC-MS

Detection Limit: 500 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
Basic violet 3 with >0.1% of Michler’s Ketone	548-62-9	500	ND
C.I. Acid Red 26	3761-53-3	500	ND
C.I. Acid Violet 49	1694-09-3	500	ND
C.I. Basic Blue 26 (with Michler’s Ketone > 0.1%)	2580-56-5	500	ND
C.I. Basic Green 4 (Malachite Green Chloride)	569-64-2	500	ND
C.I. Basic Green 4 (Malachite Green Oxalate)	2437-29-8	500	ND
C.I. Basic Green 4 (Malachite Green)	10309-95-2	500	ND
C.I. Basic Red 9	569-61-9	500	ND
C.I. Basic Violet 14	632-99-5	500	ND
C.I. Direct Black 38	1937-37-7	500	ND
C.I. Direct Blue 6	2602-46-2	500	ND
C.I. Direct Red 28	573-58-0	500	ND
C.I. Disperse Blue 1	2475-45-8	500	ND
C.I. Disperse Blue 3	2475-46-9	500	ND
Disperse Orange 11	82-28-0	500	ND
Conclusion			PASS
“<” means “less than” ; “ND” means “Not detected” ; “µg/L” means “microgram per litre”;			
Recommended Holding Time: NA			
Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

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(1H) Dyes – Disperse (Allergenic):

Standard Method for Analysis/Testing: Liquid extraction, LC-MS

Detection Limit: 50 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
Disperse Blue 102	12222-97-8	50	ND
Disperse Blue 106	12223-01-7	50	ND
Disperse Blue 124	61951-51-7	50	ND
Disperse Blue 26	3860-63-7	50	ND
Disperse Blue 35	12222-75-2	50	ND
Disperse Blue 35	56524-77-7	50	ND
Disperse Blue 7	3179-90-6	50	ND
Disperse Brown 1	23355-64-8	50	ND
Disperse Orange 1	2581-69-3	50	ND
Disperse Orange 3	730-40-5	50	ND
Disperse Orange 37/59/76	13301-61-6	50	ND
Disperse Red 1	2872-52-8	50	ND
Disperse Red 11	2872-48-2	50	ND
Disperse Red 17	3179-89-3	50	ND
Disperse Yellow 1	119-15-3	50	ND
Disperse Yellow 3	2832-40-8	50	ND
Disperse Yellow 39	12236-29-2	50	ND
Disperse Yellow 49	54824-37-2	50	ND
Disperse Yellow 9	6373-73-5	50	ND
Conclusion			PASS
“<” means “less than” ; “ND” means “Not detected” ; “µg/L” means “microgram per litre”;			
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

(1I) Dyes – Navy Blue Colourant:

Standard Method for Analysis/Testing: Liquid extraction, LC-MS

Detection Limit: 500 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
Component 1: C39H23Cl-CrN7O12S 2Na	118685-33-9	500	ND
Component 2: C46H-30CrN10O20S2 3Na	Not Allocated	500	ND
Conclusion			PASS
“<” means “less than” ; “ND” means “Not detected” ; “µg/L” means “microgram per litre”;			
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

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(1J) Flame retardants:

Standard Method for Analysis/Testing: USEPA 8270E, ISO 22032, USEPA 527 and USEPA 8321B Dichloromethane extraction GC-MS or LC-MS(-MS), determined as total boron via ICP

Substance name	CAS No.	Detection limit, µg/L	Reporting limit, µg/L	Result, µg/L (001)
2,2-bis(bromomethyl)- 1,3-propanediol (BBMP)	3296-90-0	25	25	ND
Bis(2,3-dibromopropyl) phosphate (BIS)	5412-25-9	25	25	ND
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	25	ND
Hexabromocyclodecane (HBCDD)	3194-55-6	25	25	ND
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	25	ND
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	25	ND
Polybromobiphenyls (PBB)	59536-65-1	25	25	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	25	25	ND
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	25	ND
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	25	25	ND
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	25	ND
Tris(2-chloroethyl phosphate (TCEP)	115-96-8	25	25	ND
Tris(2,3,-dibromopropyl)- phosphate (TRIS)	126-72-7	25	25	ND
Decabromobiphenyl (DecaBB)	13654-09-6	25	25	ND
Dibromobiphenyls (DiBB)	Multiple	25	25	ND
Octabromobiphenyls (OctaBB)		25	25	ND
Dibromopropylether	21850-44-2	25	25	ND
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	25	ND
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	25	ND
Monobromobiphenyls (MonoBB)	Multiple	25	25	ND
Monobromodiphenylethers (MonoBDEs)		25	25	ND
Nonabromobiphenyls (NonaBB)		25	25	ND
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	25	ND
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	25	ND

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Tribromodiphenylethers (TriBDEs)	Multiple	25	25	ND
Boric acid	10043-35-3 11113-50-1	100	100	ND
Diboron trioxide	1303-86-2	100	100	ND
Disodium octaborate	12008-41-2	100	100	ND
Disodium tetraborate anhydrous	1303-96-4 1330-43-4	100	100	ND
Tetraboron disodium heptaoxide, hydrate	12267-73-1	100	100	ND
Conclusion				PASS
“<” means “less than” ; “ND” means “Not detected” ; “µg/L” means “microgram per litre;				
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction				

(1K) Glycols / Glycol Ethers:

Standard Method for Analysis/Testing: In-house Method, USEPA 8270E, Liquid extraction, LC-MS GC-MS

Detection Limit: 50 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
2-ethoxyethanol	110-80-5	50	ND
2-ethoxyethyl acetate	111-15-9	50	ND
2-methoxyethanol	109-86-4	50	ND
2-methoxyethylacetate	110-49-6	50	ND
2-methoxypropylacetate	70657-70-4	50	ND
Bis(2-methoxyethyl)-ether	111-96-6	50	ND
Ethylene glycol dimethyl ether	110-71-4	50	ND
Triethylene glycol dimethyl ether	112-49-2	50	ND
Conclusion			PASS
“<” means “less than” ; “ND” means “Not detected” ; “µg/L” means “microgram per litre;			
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

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(1L) Halogenated Solvents:

Standard Method for Analysis/Testing: USEPA 8260D Headspace GC-MS or Purge and trap GC-MS

Detection Limit: 1 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
1,2-dichloroethane	107-06-2	1	ND
Methylene chloride	75-09-2	1	ND
Tetrachloroethylene	127-18-4	1	ND
Trichloroethylene	79-01-6	1	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”; Recommended Holding Time: 7-days. Maximum Holding Time: Extraction: 14-days.			

(1M) Organotin Compounds:

 Standard Method for Analysis/Testing: ISO 17353 Derivatisation with NaB (C₂H₅)₄ GC-MS/ ISO 17353

Detection Limit: 0.01 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
Dipropyltin compounds (DPT)	Multiple	0.01	ND
Mono-, di- and tri-butyltin derivatives		0.01	ND
Mono-, di- and tri-methyltin derivatives		0.01	ND
Mono-, di- and tri-octyltin derivatives		0.01	ND
Mono-, di- and tri-phenyltin derivatives		0.01	ND
Tetrabutyltin compounds (TeBT)		0.01	ND
Tripropyltin Compounds (TPT)		0.01	ND
Tetraoctyltin compounds (TeOT)		0.01	ND
Tricyclohexyltin (TCyHT)		0.01	ND
Tetraethyltin Compounds (TeET)		0.01	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”; Recommended Holding Time: 24-Hours. Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

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(1N) Other/Miscellaneous Chemicals:

Standard Method for Analysis/Testing: In-house Method, Liquid extraction, LC-MSMS, Determined as total boron and total zinc via ICP.

Substance name	CAS No.	Detection limit, µg/L	Reporting limit, µg/L	Result, µg/L (001)
AEEA [2-(2-aminoethylamino)ethanol]	111-41-1	500	500	ND
Bisphenol A	80-05-7	10	10	ND
Thiourea	62-56-6	50	50	ND
Quinoline	91-22-5	50	50	ND
Borate, zinc salt	12767-90-7	100	100	ND
Conclusion				PASS
“<” means “less than” ; “ND” means “Not detected” ; “µg/L” means “microgram per litre”;				
Recommended Holding Time: NA. Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction				

(1O) Perfluorinated and Polyfluorinated Chemicals (PFCs):

Standard Method for Analysis/Testing: CEN/TS 15968, USEPA 537, In House Method.

Substance name	CAS No.	Detection limit, µg/L	Reporting limit, µg/L	Result, µg/L (001)
Perfluorooctane sulfonate (PFOS) and related substances	Multiple	0.01	0.01	ND
Perfluorooctanoic acid (PFOA) and related substances		1	1	ND
Conclusion				PASS
“<” means “less than” ; “ND” means “Not detected” ; “µg/L” means “microgram per litre”;				
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction				

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(1P) Phthalates – including all other esters of ortho-phthalic acid:

Standard Method for Analysis/Testing: USEPA 8270E, ISO 18856 Dichloromethane extraction GC-MS

Detection Limit: 10 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
1,2-benzenedicarboxylic acid, di-C6-8 branched and linear alkyl esters, C7-rich (DIHP)	71888-89-6 84777-06-0	10	ND
1,2-benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP)	68515-42-4 68515-50-4	10	ND
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	10	ND
Butyl benzyl phthalate (BBP)	85-68-7	10	ND
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	ND
Di-iso-decyl phthalate (DIDP)	26761-40-0	10	ND
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	ND
Di-isobutyl phthalate (DIBP)	84-69-5	10	ND
Di-isononyl phthalate (DINP)	28553-12-0	10	ND
Di-n-hexyl phthalate (DnHP)	84-75-3	10	ND
Di-n-octyl phthalate (DNOP)	117-84-0	10	ND
Di-n-pentylphthalates	131-18-0	10	ND
Di-n-propyl phthalate (DPRP)	131-16-8	10	ND
Di(ethylhexyl) phthalate (DEHP)	117-81-7	10	ND
Dibutyl phthalate (DBP)	84-74-2	10	ND
Diethyl phthalate (DEP)	84-66-2	10	ND
Diisopentylphthalates	605-50-5	10	ND
Dinonyl phthalate (DNP)	84-76-4	10	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”;			
Recommended Holding Time: NA.			
Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

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(1Q) Polycyclic Aromatic Hydrocarbons (PAHs):

Standard Method for Analysis/Testing: USEPA 8270E DIN 38407-39 Solvent extraction GC-MS

Detection Limit: 1 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
Acenaphthene	83-32-9	1	ND
Acenaphthylene	208-96-8	1	ND
Anthracene	120-12-7	1	ND
Benzo[a]anthracene	56-55-3	1	ND
Benzo[a]pyrene (BaP)	50-32-8	1	ND
Benzo[b]fluoranthene	205-99-2	1	ND
Benzo[e]pyrene	192-97-2	1	ND
Benzo[ghi]perylene	191-24-2	1	ND
Benzo[j]fluoranthene	205-82-3	1	ND
Benzo[k]fluoranthene	207-08-9	1	ND
Chrysene	218-01-9	1	ND
Dibenz[a,h]anthracene	53-70-3	1	ND
Fluoranthene	206-44-0	1	ND
Fluorene	86-73-7	1	ND
Indeno[1,2,3-cd]pyrene	193-39-5	1	ND
Naphthalene	91-20-3	1	ND
Phenanthrene	85-01-8	1	ND
Pyrene	129-00-0	1	ND
Conclusion			PASS
“<” means “less than” ; “ND” means “Not detected” ; “µg/L” means “microgram per litre”;			
Recommended Holding Time: NA			
Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

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(1R) Restricted Aromatic Amines (Cleavable from Azo-colourants):

Standard Method for Analysis/Testing: Reduction step with sodium dithionite, solvent extraction EPA 8270

Detection Limit: 0.1 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
2-naphthylamine	91-59-8	0.1	ND
2-Naphthylammoniumacetate	553-00-4	0.1	ND
2,4-xylidine	95-68-1	0.1	ND
2,4,5-trimethylaniline	137-17-7	0.1	ND
2,4,5-trimethylaniline hydrochloride	21436-97-5	0.1	ND
2,6-xylidine	87-62-7	0.1	ND
3,3'-dichlorobenzidine	91-94-1	0.1	ND
3,3-dimethoxybenzidine	119-90-4	0.1	ND
3,3-dimethylbenzidine	119-93-7	0.1	ND
4-aminoazobenzene	60-09-3	0.1	ND
4-aminodiphenyl	92-67-1	0.1	ND
4-chloro-o-toluidine	95-69-2	0.1	ND
4-chloro-o-toluidinium chloride	3165-93-3	0.1	ND
4-chloroaniline	106-47-8	0.1	ND
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	0.1	ND
4-methoxy-m-phenylenediamine	615-05-4	0.1	ND
4-methyl-m-phenylenediamine	95-80-7	0.1	ND
4,4-methylene-bis-(2-chloro-aniline)	101-14-4	0.1	ND
4,4-methylenedi-o-toluidine	838-88-0	0.1	ND
4,4-methylenedianiline	101-77-9	0.1	ND
4,4-oxydianiline	101-80-4	0.1	ND
4,4-thiodianiline	139-65-1	0.1	ND
5-nitro-o-toluidine	99-55-8	0.1	ND
6-methoxy-m-toluidine	120-71-8	0.1	ND
Benzidine	92-87-5	0.1	ND
o-aminoazotoluene	97-56-3	0.1	ND
o-anisidine	90-04-0	0.1	ND
o-toluidine	95-53-4	0.1	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”;			
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

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(1S) UV Absorbers:

Standard Method for Analysis/Testing: In House Method, DIN EN 62321-6:2016-05

Detection Limit: 100 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	100	ND
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	100	ND
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	100	ND
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	100	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”;			
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

(1T) Volatile Organic Compounds (VOC):

Standard Method for Analysis/Testing: ISO 11423-1 Headspace or Purge and trap GC-MS USEPA 8260D Add ISO 20595, EPA 8270 BS EN 12673-1999, HJ 1067 or EPA 8260D or ISO 11423-1

Detection Limit: 1 ug/L

Substance name	CAS No.	Reporting limit, µg/L	Result, µg/L (001)
Benzene	71-43-2	1	ND
m-cresol	108-39-4	1	ND
o-cresol	95-48-7	1	ND
p-cresol	106-44-5	1	ND
Xylene	1330-20-7	1	ND
Toluene	108-88-3	1	ND
Conclusion			PASS
“<” means “less than”; “ND” means “Not detected”; “µg/L” means “microgram per litre”;			
Recommended Holding Time: 7-days. Maximum Holding Time: Extraction: 14-days.			

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(2) Heavy Metals:

Standard Method for Analysis/Testing: EPA 200.7, USEPA 200.8, USEPA 218.6, USEPA 6010c, USEPA 6020a, ISO 11885, ISO 12846, ISO 18412

Substance name	CAS No.	Detection limit, mg/L	Result, mg/L (002)	Limit, mg/L	Conclusion
Total Arsenic (As)	7440-38-2	0.005	ND	Foundational 0.05 Progressive 0.01 Aspirational 0.005	PASS
Total Cadmium (Cd)	7440-43-9	0.01	ND	Foundational 0.1 Progressive 0.05 Aspirational 0.01	
Total Lead (Pb)	7439-92-1	0.01	ND	Foundational 0.1 Progressive 0.05 Aspirational 0.01	
Total Mercury (Hg)	7439-97-6	0.001	ND	Foundational 0.01 Progressive 0.005 Aspirational 0.001	
Hexavalent Chromium (Cr-VI)	18540-29-9	0.001	ND	Foundational 0.05 Progressive 0.005 Aspirational 0.001	
“<” means “less than” ; “mg/L” means “milligram per litre”;					
Recommended Holding Time: Cr-VI: 24-Hours; Mercury: NA; Other Metals: 28-days. Maximum Holding Time: Cr-VI /Mercury: 28-days; Other Metals: 6-Months.					

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23.9485291°****Longitude
90.2706721°****Local 04:16:43 PM
GMT 10:16:43 AM****Altitude 14 m
Sunday, 06.10.2024****Sample Photo(s):**

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TEST REPORT NO: 1002471500 REVISION1**Oct.20, 2024****UL ORDER NO: 15514769****Page:****18 of 22****Untreated Wastewater****Sampling Point Photo(s):**

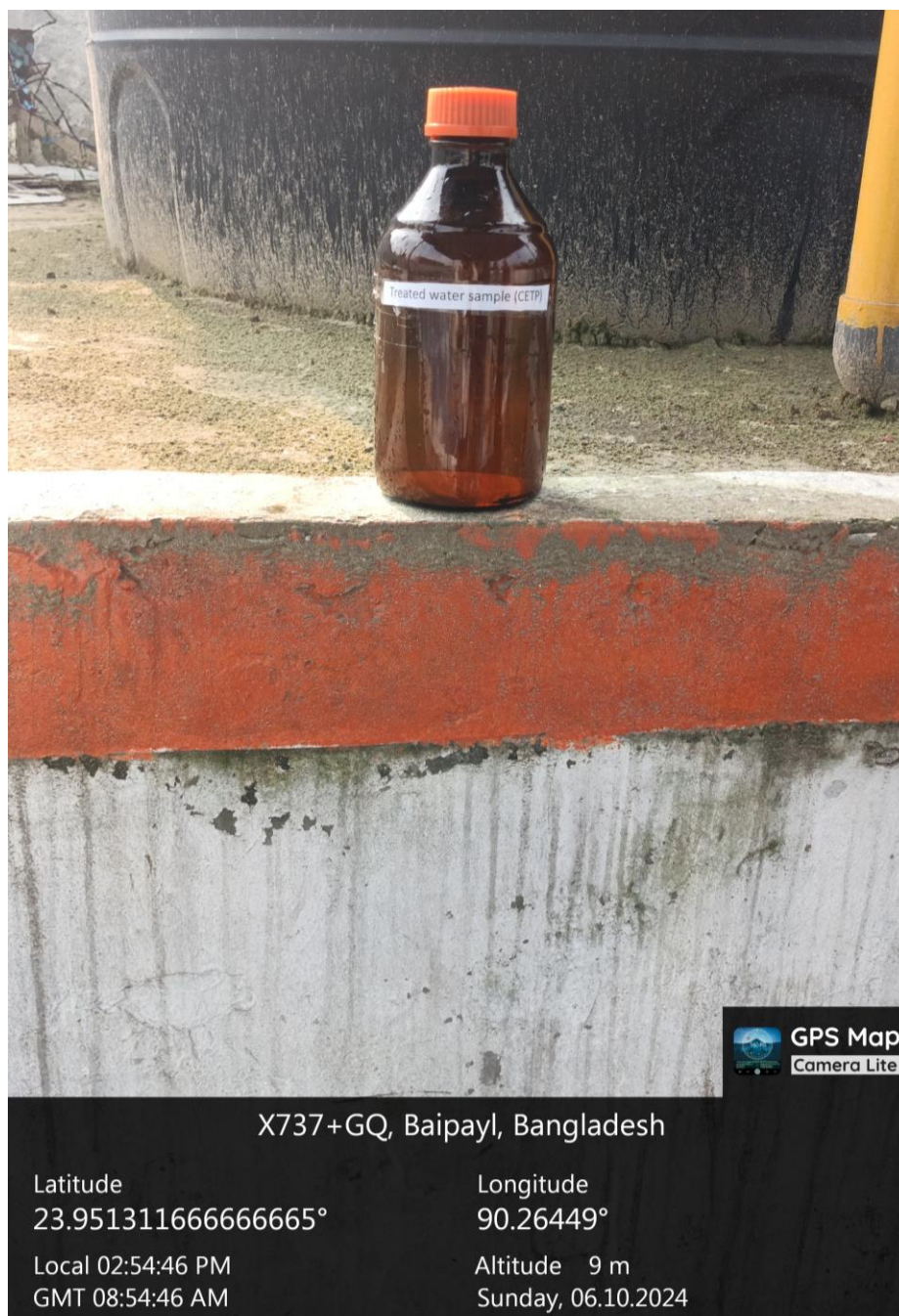
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TEST REPORT NO : 1002471500 REVISION1**Oct.20, 2024****UL ORDER NO : 15514769****Page:**

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Effluent/Treated Wastewater**Sample Photo(s):**

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TEST REPORT NO : 1002471500 REVISION1**Oct.20, 2024****UL ORDER NO : 15514769****Page:****20 of 22****Effluent/Treated Wastewater****Sampling Point Photo(s):**

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TEST REPORT NO: 1002471500 REVISION1


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1002471500
15.10



UL Wastewater Test Request Form

Contact Information: M: +88-01730087200, +88-01730087201, Email: customer@ul.com.bd
Office Address: The Pearl Trade Centre (5th, 14th & 15th floor) Cha-90/3, Progoti Sharani, North Badda, Dhaka-1206, Bangladesh

Required Service:			
Regular Service (DETOX & ZDHC)	Regular Service(selective test)	Log In Date:	For UL office use only
<input type="checkbox"/> 15-18 Working Days** - Regular Price	<input type="checkbox"/> 6-7 Working Days** - Regular Price	Oracle Order No.:	15514769
*Express Service(selective test)	*Emergency Service(selective test)	Report No.:	
<input type="checkbox"/> 4 Working Days*** - 40% Surcharge	<input type="checkbox"/> 2 Days*** - 150% Surcharge	Report Due Date:	

Applicant & Report Sending Information		Email addresses to send Electronic Reports:	
Submitter's Name:	M. Rasel Ahmed	Email 1:	rasel.ahmed@ul.com
Company Name:	FCI BOLD LTD	Email 2:	asad@fobd.com
Address:	DEP2-Plot 36-39, 83-84 Garabari, Savar Dhaka-1349 Bangladesh	Email 3:	arifkhan@ul.com
Mobile Phone:	01798148544	Email 4:	mahmudur.rahman@ul.com

Sampling Location	Sample Description	Reference	Billing Information
<input type="checkbox"/> Incoming Water	<input type="checkbox"/> Discharge Water	Raw wastewater from factory outlet pipe	<input type="checkbox"/> Buyer
<input checked="" type="checkbox"/> Waste Water	<input type="checkbox"/> Sludge		<input checked="" type="checkbox"/> Manufacturer
<input type="checkbox"/> Drain	<input type="checkbox"/> Grade 3 Water	Sample Color	<input type="checkbox"/> Buyer/Agent
<input type="checkbox"/> Drinking Water			Bill to person Name
			K.M. Mahmudur Rahman
			DEP2-Plot 36-39, 83-84 Garabari, Savar Dhaka-1349 Bangladesh

General Chemistry

<input type="checkbox"/> Temperature	<input type="checkbox"/> Total Suspended Solids(TSS)	<input type="checkbox"/> Chemical Oxygen Demand(COD)
<input type="checkbox"/> pH Value	<input type="checkbox"/> Biological Oxygen Demand(BOD)	<input type="checkbox"/> Color (ADM or 150 CO-PT)
<input type="checkbox"/> Total Dissolved Solids (TDS)	<input type="checkbox"/> Dissolved Oxygen (DO)	<input type="checkbox"/> Electrical Conductivity(EC)

BSR Standard Parameter

<input type="checkbox"/> Turbidity	<input type="checkbox"/> Arsenic	<input type="checkbox"/> Cyanide
<input type="checkbox"/> pH Value	<input type="checkbox"/> Arsenic	<input type="checkbox"/> Lead
<input type="checkbox"/> Total Suspended Solids(TSS)	<input type="checkbox"/> Cadmium	<input type="checkbox"/> Mercury
<input type="checkbox"/> Biological Oxygen Demand(BOD)	<input type="checkbox"/> Chromium	<input type="checkbox"/> Nickel
<input type="checkbox"/> Chemical Oxygen Demand(COD)	<input type="checkbox"/> Cobalt	<input type="checkbox"/> Zinc
<input type="checkbox"/> Color (ADM or 150 CO-PT)	<input type="checkbox"/> Copper	<input type="checkbox"/> Calcium 400 bacteria per 100ml
<input type="checkbox"/> Total Nitrogen (discharge of floating solids or precipitant form)		

Detox Parameter

<input type="checkbox"/> Alkylbenzenes (AP) and Alkylphenol Ethoxylates (APEO)	<input type="checkbox"/> Chlorobenzenes and Chloroalkanes	<input type="checkbox"/> Dioxin
<input type="checkbox"/> Phenols	<input type="checkbox"/> Chlorinated Solvents and Other VOCs	<input type="checkbox"/> Bacteria
<input type="checkbox"/> Fatty Acids	<input type="checkbox"/> Chlorophenols	<input type="checkbox"/> Orthophosphates (OPPs)
<input type="checkbox"/> Azo dyes / Azoxy	<input type="checkbox"/> Chlorinated Paraffins (CCPs)	<input type="checkbox"/> Nitrobenzenes
<input type="checkbox"/> Organotin Compounds	<input type="checkbox"/> Heavy Metals	<input type="checkbox"/> Polycyclic Aromatic Hydrocarbons (PAHs)
<input type="checkbox"/> Perfluorinated and Polyfluorinated Compounds (PFCA)	<input type="checkbox"/> Carcinogenic and Allergenic Disperse Dyes	<input type="checkbox"/> Dinitrophenols (DNPs) and Dinitrobenzenes (DNBs)

ZDHC Parameter / GRS Standard / Sludge*** / OEKO-TEX

<input type="checkbox"/> Temperature (°C)	<input type="checkbox"/> Colour Int-1 (430nm, 525, 620nm)	<input type="checkbox"/> Oil and Grease
<input type="checkbox"/> TSS	<input type="checkbox"/> BOD5	<input type="checkbox"/> Phenol
<input type="checkbox"/> COD	<input type="checkbox"/> Ammonia-N	<input type="checkbox"/> Calcium (hardness) (500 ml)
<input type="checkbox"/> TSS-P	<input type="checkbox"/> Total-P	<input type="checkbox"/> Persistent Fats
<input type="checkbox"/> pH	<input type="checkbox"/> AOX	<input type="checkbox"/> Cyanide***
<input type="checkbox"/> Chloride	<input type="checkbox"/> S. 99a	<input type="checkbox"/> Arsenic***
<input type="checkbox"/> Ammonia	<input type="checkbox"/> Noise	<input type="checkbox"/> Cadmium***
<input type="checkbox"/> Chromium total	<input type="checkbox"/> Sewer	<input type="checkbox"/> Chromium (VI)***
<input type="checkbox"/> Cobalt	<input type="checkbox"/> Zinc	<input type="checkbox"/> Lead***
<input type="checkbox"/> Copper	<input type="checkbox"/> Mercury***	<input type="checkbox"/> Dry Mass (dry solids)***
<input type="checkbox"/> Alkylbenzenes (AP) and Alkylphenol Ethoxylates (APEO)	<input type="checkbox"/> Organotin Compounds	<input type="checkbox"/> Chlorophenols
<input type="checkbox"/> Phenols	<input type="checkbox"/> Perfluorinated and Polyfluorinated Compounds (PFCA)	<input type="checkbox"/> Chlorobenzene
<input type="checkbox"/> Fatty Acids	<input type="checkbox"/> Chlorobenzenes and Chloroalkanes	<input type="checkbox"/> Dioxin
<input type="checkbox"/> Azo dyes / Azoxy	<input type="checkbox"/> Chlorinated Solvents and Other VOCs	<input type="checkbox"/> Polycyclic Aromatic Hydrocarbons (PAHs)
<input type="checkbox"/> Organotin Compounds		<input type="checkbox"/> Nickel

Grade 3 Water

<input type="checkbox"/> pH at 25°C	<input type="checkbox"/> Residual Alkalinity (RAl) at 10°C	<input type="checkbox"/> Ouduable Matter
<input type="checkbox"/> Electrical Conductivity(EC)		

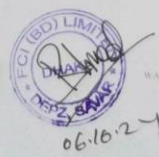
Other Tests

<input type="checkbox"/> Chlorine	<input type="checkbox"/> PVCs	
<input type="checkbox"/> Manganese**	<input type="checkbox"/> PCOs	

Additional Instruction:

<input type="checkbox"/> ZDHC WU02 3 set 1M		
<input type="checkbox"/> HSE Testing for 12 TP outlet water		

Name and position of factory representative: _____ Signature/Stamp: _____



WASTEWATER TEST APPLICATION FORM V1.04 NOV 2019

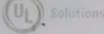
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UL VS Bangladesh Ltd.
ZDHC Wastewater Sampling Field Data and Representative Sample Declaration

Primary Data	
Laboratory Sample Number/Project No.	1002471500
Client Name	PO: BD LTD
Field Contact Person	Mr. Shah Alam (01790108171)
Facility Name and Address	C-01, 17, 20/2, Progoti Sharani, North Badda, Dhaka-1212, Bangladesh
Sampler's Name & ZDHC ID	Mr. Shaheen Alam (074210817971)
Date of Collection	6-Oct-24
Sampling Location	Wastewater before Treatment/Untreated Wastewater sampling point and Treated water
Reference Sampling Guideline	ZDHC Wastewater and Sludge Laboratory Sampling and Analysis Plan (SAP) version 2.1
Sampling Type	Composite Sampling/Approved Grab
Discharge Mode	Direct Discharge / Indirect Discharge with Pretreatment / Indirect Discharge without Pretreatment/ Zero Liquid Discharge (ZLD)
Factory Type	Dyeing/Printing/Washing/Finishing/Textiles/Others (Please specify)



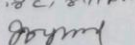
Field Data	Arrival Time	am/pm	Departure Time
Sample Matrix (If Yes, X)	X	10:20	4:45
Field Parameters	Wastewater before Treatment/Untreated Wastewater		
Recording Time	10:35 am	11:35 am	12:35 pm
Wastewater Flow Meter, L/min	1:35 pm	2:35 pm	3:35 pm
Flow Rate(m ³ /hour) (Factory Flow Meter (Manual)	4:35 pm		
Retention time of the equalization tank, Hours			
Color	Light Grey and Lt Brown		
Number of sample Container	6 (2.5L)	1 (0.25 L)	2 (1L)
Volume Collected, L	6 X 2.5 L = 15 L	1 X 0.25 = 0.25 L	2 X 1 L = 2 L
Total Volume Collected, L	17.25 L		

ZDHC Wastewater Flow Device Dimension	Measurement (mm)	Unit	Pipe (O)	Flume (L)	Weir (V)
Diameter	NA	mm			
Depth	NA	mm			

Wastewater Sample Containers and Preservatives	Test Name (Conventional Parameters & POPs)	Required Test (S)	Required Sample Volume (ml)	Sample Container Pre-treatment Process & Preservation
Biochemical Oxygen Demand (BOD) Chloride, Soluble, Dichloride, TDS, TSS, before AP and APFOs including all screens Total Microbial & Viruses Chlorinated Parathion Chlorobenzene and Dichlorobenzene Chlorophenol Dimethyl Formamide (DMF) Dyes - Carbazone or Equivalent Concern Dyes - Coupling (dyes) Dyes - Heavy Base Colloidal Flame Retardant Glycols / Glycol Ethers Degradation Compounds Chloroalkylating Chemicals Phthalates - including all isomers of ortho-phthalic acid Polyacrylate Acrylate / Substituted (PAA) Resistant Anionic Dyes (Extractable from Non-colourants) UV Absorbers Polychlorinated and Polybrominated Chemicals (PCCs) Polychlorinated Biphenyls (PCBs) Soluble Organic Compounds (SOC) Heavy Metals (As, Hg, Ni, Pb, Cr, V)	Required	1000	1. Amber glass cleaned with 60% acid, rinsed thoroughly with distilled water and dried before use. Keep cool between 2°C to 8°C (25C, 4 bottles)	
	2. Plastic with no PE bond oil, keep cool between 2°C and 8°C	1000	2. Plastic with no PE bond oil, keep cool between 2°C and 8°C	
	3. Amber glass cleaned with 60% acid, rinsed thoroughly with distilled water and dried before use. Add 1 pH 2, keep cool between 2°C and 8°C	750	3. Amber glass cleaned with 60% acid, rinsed thoroughly with distilled water and dried before use. Add 1 pH 2, keep cool between 2°C and 8°C	
	4. Amber glass rinsed with 60% acid, Pre-add 0.5ml of 2M HNO ₃ , HNO ₃ + pH 2, keep cool between 2°C to 8°C	1000	4. Amber glass rinsed with 60% acid, Pre-add 0.5ml of 2M HNO ₃ , HNO ₃ + pH 2, keep cool between 2°C to 8°C	
	5. PE, Washes with peroxide grade Acetone, 0.4µm filter to field, add buffer to pH 6-9.5, keep cool between 2°C to 8°C	250	5. PE, Washes with peroxide grade Acetone, 0.4µm filter to field, add buffer to pH 6-9.5, keep cool between 2°C to 8°C	
	6. PE, Washes with peroxide grade Acetone, NaOH + 12 pH, Add 0.1 ml of 20% Sodium Thiosulfate, keep cool between 2°C to 8°C	250	6. PE, Washes with peroxide grade Acetone, NaOH + 12 pH, Add 0.1 ml of 20% Sodium Thiosulfate, keep cool between 2°C to 8°C	
	7. Amber glass rinsed with 60% acid, Pre-add 0.5ml of 2M HNO ₃ , HNO ₃ + pH 2, keep cool between 2°C to 8°C (25C, 8 bottles)	3000	7. Amber glass rinsed with 60% acid, Pre-add 0.5ml of 2M HNO ₃ , HNO ₃ + pH 2, keep cool between 2°C to 8°C (25C, 8 bottles)	
	8. Amber glass rinsed with 60% acid, Pre-add 0.5ml of 2M HNO ₃ , HNO ₃ + pH 2, keep cool between 2°C to 8°C	750	8. Amber glass rinsed with 60% acid, Pre-add 0.5ml of 2M HNO ₃ , HNO ₃ + pH 2, keep cool between 2°C to 8°C	
	9. PE, Washes with peroxide grade Acetone, 0.3 µm 2.0µm filter, keep cool between 2°C to 8°C	250	9. PE, Washes with peroxide grade Acetone, 0.3 µm 2.0µm filter, keep cool between 2°C to 8°C	
	10. PE, Washes with peroxide grade Acetone, 30 drops 3N Dow water, NaOH + pH 9, keep cool between 2°C to 8°C	250	10. PE, Washes with peroxide grade Acetone, 30 drops 3N Dow water, NaOH + pH 9, keep cool between 2°C to 8°C	
	11. P, Glass, Wash, Non-reactive, 0.1 ml of 20% Sodium Thiosulfate, keep cool between 2°C to 8°C	500	11. P, Glass, Wash, Non-reactive, 0.1 ml of 20% Sodium Thiosulfate, keep cool between 2°C to 8°C	

Remarks:

- The minimum composite sampling time for ZDHC guideline is 6 hours with no more than 1 hour between discrete samples.
- If the retention time of the equalization tank is 12 hours/ more than untreated & effluent samples can be collected once and that sample is considered a composite.
- ZDHC Wastewater Sampling-facility confirmation:**
The wastewater sample has been collected under the facility's normal production scale and wastewater flow rate. The sampler below was on-site and collected the sample.

Sampler's Name	Mr. Shaheen Alam	Date	6-Oct-24
Sampler's ZDHC Accreditation	(074210817971)		
Sampler's Signature			
Facility Representative Name		Date	6-Oct-24
Facility Representative Signature & Stamp			
Laboratory Received Temperature (°C) & Time	5.8°C, 8:11 pm	Date	6-Oct-24
Sample Received By (Laboratory Person) & Date		Date	6-Oct-24

****** End of Report ******

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- 2. Retailer Programs.** If you request us to test compliance with retailer, carrier or other third party program ("Retailer") by requesting Services under the Retailer's program, you consent to our disclosure of all associated information, materials, and deliverables to such Retailer and acknowledge that, notwithstanding any terms to the contrary in these Service Terms, the ownership of the deliverables for the Services will be in accordance with the Retailer's program.
- 3. Payment Terms.** You will pay, without set off, our fees and related expenses in accordance with the Quotation including the cost of all taxes, wire or transfer fees, duties, and other fiscal charges which become due on the quoted price and will indemnify us from and against liabilities, incurred as a result of failure to pay any such sums when they become due. We may charge interest at 1% per month (12% per year), or the maximum legal rate if less than 1.0% per month, from the due date until paid fully. You agree to pay reasonable collection costs, including attorneys' fees, if necessary, in the event of late or non-payment.
- 4. Your Requirements.** You are responsible for establishing or selecting all Your Requirements that we will use in performing the Services. We may provide you with assistance in developing Your Requirements that meet your needs, however, in all cases you must review and approve Your Requirements to be used in performing the Services.
- 5. Estimated Schedule and Price.** Any time schedule and pricing terms set forth in this Quotation are estimates only and subject to change upon reasonable notice from us depending upon the specific project.
- 6. On-Site Investigations.** If we perform Services on site at your facilities, or at the facilities of other parties as directed by you, you will ensure that our representatives have safe, secure, and free access to the facilities. Our access will not be conditioned upon the execution of any agreement, waiver, or release. If our representatives are prevented from performing or completing any Services for any reason beyond our reasonable control, we will not be responsible for the nonperformance, and you may be charged for any actual expenses we incur and fees for Services performed.
- 7. Deliverables.** We will provide you with a report outlining: (i) your instructions and request for Services accepted by us, (ii) Your Requirements used in providing the Services, (iii) the Services performed, and (iv) the results of those Services. We are under no obligation to refer to or report on any facts or circumstances which are outside your specific instructions received and accepted by us.
- 8. Our Findings.** We do not guarantee that our opinions or findings will be recognized or accepted by third parties.
- 9. Use of Names and Marks.** Except as otherwise authorized by us in writing, you will not use our name, abbreviation, symbols, marks, or the name of any of our subsidiaries, affiliates, or parent on any goods or their containers or packaging, or in connection with any advertising, promotions, or otherwise.
- 10. Cancellation Fees.** If you cancel or change a Quotation: (i) for an inspection after 3:00 PM of the working day before the scheduled inspection date, we will charge you the Quotation price plus any travel costs incurred before the cancellation; (ii) for testing after we receive the sample(s) at the testing facility, we will charge you cancellation fees according to the amount of actual work performed with a minimum cancellation fee of \$100 USD; or (iii) for a scheduled audit date, you will be responsible for all incurred non-refundable travel costs associate with that audit. Any change or cancellation of an audit that occurs within 7 days of the scheduled audit will be charged a \$600 USD fee in addition to any incurred travel costs.
- 11. No Warranty.** NO REPRESENTATION, WARRANTY, OR GUARANTEE, EXPRESS OR IMPLIED, IS INCLUDED IN THESE TERMS AND CONDITIONS, OR IN ANY QUOTATION, REPORT, OR OTHER DOCUMENT PROVIDED UNDER THESE TERMS AND CONDITIONS INCLUDING, BUT NOT LIMITED TO: (i) ANY "IMPLIED WARRANTY OF MERCHANTABILITY" OR "FITNESS FOR A PARTICULAR PURPOSE", (ii) NON-INFRINGEMENT, AND (iii) THAT THE WEB SERVICES (AS DEFINED BELOW) WILL BE UNINTERRUPTED, TIMELY, SECURE, OR ERROR-FREE.
- 12. Your Information.** You represent and warrant that all information and data provided to us by you, or on your behalf, is complete and accurate and may be relied upon to provide Services. In addition, you represent and warrant that all of Your Information is owned or licensed by you, and does not infringe on the intellectual property rights of any third party. If any information or data provided to us by you or on your behalf is either incomplete or inaccurate, we will not be liable in any manner for any deficiencies in the Services.
- 13. Ownership of Work Product.** You will own the test reports or other materials provided to you pursuant to any Quotation. We may retain a copy of the test reports and other materials for our archives and for creating reports for you and third parties, as required by you.
- 14. Web Services.** We may provide you with certain website tools and related services, including the ability to order services online through a website (collectively, the "Web Services"). The Web Services are provided to you as a convenience and are provided on an "as is, as available" basis. By using the Web Services, you acknowledge and agree that no data or content transmitted over our networks, the Internet, or wirelessly, or through or in connection with the Web Services, is guaranteed to be secure or free from unauthorized intrusion, and that data stored by us, our affiliates, or our service providers may be deleted, modified, or damaged. You acknowledge that if you wish to protect your transmission of data or files to us, it is your responsibility to use a secure encrypted connection to communicate with and use the Web Services. Your use of the Web Services is at your sole risk and is subject to any terms of use applicable to such Web Services. Web Services are included in the definition of Services above.
- 15. Confidentiality.** We will not disclose your information obtained in confidence ("Confidential Information") to third parties, except our subsidiaries, affiliates, or subcontractors, without your prior written authorization. Confidential Information will not include information: (a) already known to us, (b) publicly available, (c) subsequently acquired by us from other sources without a breach of these Terms and Conditions, (d) disclosure that is necessary to perform the Services, (e) required to be produced by law or government order, or accreditation authority, or (f) related to a product bearing a UL Mark that should be disclosed to us or our affiliates pursuant to another agreement with you.
- 16. Samples.** If we require sample examination, you will ship samples to us at your expense. Upon completion of testing, the samples will be destroyed, unless other arrangements are made for return of the samples at your expense. You acknowledge that testing and sample preparation may damage or destroy the sample(s), for which we will not be liable.
- 17. LIMITATION OF LIABILITY.** OUR LIABILITY FOR ANY CLAIMS FOR LOSS, DAMAGE, OR EXPENSE OF ANY NATURE AND HOWSOEVER ARISING FOR ANY BREACH OF CONTRACT AND/OR ANY FAILURE TO EXERCISE APPROPRIATE SKILL AND CARE BY US WILL UNDER NO CIRCUMSTANCE EXCEED THE FEES RECEIVED FOR THE SPECIFIC SERVICES WHICH GIVE RISE TO SUCH CLAIMS. UNDER NO CIRCUMSTANCE WILL WE HAVE ANY LIABILITY FOR ANY CLAIMS FOR INDIRECT, CONSEQUENTIAL, INCIDENTAL, SPECIAL, EXEMPLARY, OR PUNITIVE DAMAGES OF ANY NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO: LOSS OF PROFITS, GOODWILL, USE, DATA, FUTURE BUSINESS, OR PRODUCTION; CANCELLATION OF CONTRACTS ENTERED INTO BY YOU; OR OTHER INTANGIBLE LOSSES (EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES). UNDER NO CIRCUMSTANCE WILL WE BE LIABLE TO YOU FOR ANY CLAIMS FOR LOSS, DAMAGE, OR EXPENSE UNLESS SUCH CLAIM IS BROUGHT UNDER SECTION 24 (DISPUTES) WITHIN TWELVE MONTHS AFTER THE DATE OF THE PERFORMANCE BY US OF THE SERVICES WHICH GIVE RISE TO THE CLAIM OR, IN THE EVENT OF ANY ALLEGED NON-PERFORMANCE, WITHIN TWELVE MONTHS OF THE DATE WHEN SUCH SERVICES SHOULD HAVE BEEN COMPLETED.
- 18. Indemnification.** You will defend, hold harmless, and indemnify us and our officers, directors, trustees, employees, agents, or subcontractors against all claims made by any third party for loss, damage, or expense arising out of these Terms and Conditions, including without limitation, the performance or non-performance of any Services or the Web Services.
- 19. Waiver.** Any failure by a party to insist upon the performance of any section of these Terms and Conditions will not constitute a waiver of any rights under these Terms and Conditions or future performance of that section.
- 20. No Third Party Beneficiaries.** The parties intend that no provisions of these Terms and Conditions will in any way bind or benefit any third party or the public at large and that no third party will have any rights or cause of action under these Terms and Conditions. In particular, in the event Singapore law governs these Terms and Conditions pursuant to Section 23 (Governing Law), a person or entity who is not a party to these Terms and Conditions will have no right under the Contracts (Rights of Third Parties) Act (Chapter 53B) to enforce any term of these Terms and Conditions, regardless of whether such person or entity has been identified by name, as a member of a class, or as answering a particular description.
- 21. No Assignment.** Neither party may assign any of its rights or obligations under these Terms and Conditions to any other person without the other party's written authorization. However, we may, upon written notice, assign our rights and obligations under these Terms and Conditions to any of our affiliates or subsidiaries.
- 22. Subcontracting.** We may use subcontractors for certain testing or other Services. All subcontractors will meet our current qualification requirements and will comply with our requirements for confidentiality, conflicts of interest, and ethical standards.
- 23. Termination and Notice.** These Terms and Conditions will continue in effect until terminated by either party upon thirty days written notice or, in the event of your breach of these Terms and Conditions, immediately upon receipt of written notice to you. You will pay those fees and expenses incurred by us prior to termination. Notice to either party may be made by hand delivery, courier service, mail, facsimile, or e-mail transmission at the receiving party's designated principal place of business. Notice to us must be sent both to: UL Verification Services Pte. Ltd, Attn: President, 1 Maritime Square, Harbour Front Centre, #11-03, Singapore 099253 with a copy to UL LLC, Attn.: General Counsel at 333 Pfingsten Road, Northbrook, Illinois 60062. Notice will be effective upon receipt.
- 24. Governing Law:** These Terms and Conditions will be governed and interpreted by the laws of the State of Illinois, United States of America, except if: (i) UL Contracting Party's principal place of business is Asia, Australia, or New Zealand, then Singapore law, and (ii) UL Contracting Party's principal place of business is Europe, then Swiss law, without reference to the applicable jurisdiction's choice of law principles.
- 25. Disputes.** Any dispute or disagreement, other than nonpayment of fees, relating to these Terms and Conditions or the Services, will be settled by confidential, binding arbitration administered by the International Centre for Dispute Resolution of the American Arbitration Association ("AAA") pursuant to the AAA Commercial Arbitration Rules and the Procedures for Large, Complex Commercial Disputes. The arbitration venue will be Chicago, Illinois, except if: (i) UL Contracting Party's principal place of business is in Europe, the venue will be Geneva, Switzerland, and (ii) UL Contracting Party's principal place of business is in Asia, Australia, or New Zealand, the venue will be Singapore, Republic of Singapore. The arbitration will be conducted before a panel of three (3) arbitrators. The arbitration panel will be selected as follows: the parties will request a list of ten (10) arbitrators drawn from the AAA's panel of commercial arbitrators (who are experienced in and familiar with the AAA's Procedures for Large, Complex Commercial Disputes). From this list, both parties will each choose one arbitrator. After they have been notified of their panel selection, the two (2) arbitrators will agree on a third arbitrator from the list of ten (10), who will be the chair of the panel, and the panel will be final. The decision of the majority of the arbitrators will be the panel's decision. The arbitrators will not have the authority to add, change, or disregard any term of these Terms and Conditions to award incidental, consequential, or punitive damages (including, but not limited to, loss of use, unjust enrichment, and/or lost profits), or exceed the remedies provided by the limitation of liability of these Terms and Conditions. The panel's decision will be binding and judgment on the arbitration award may be entered by a court of competent jurisdiction. Arbitration will be the final remedy for any dispute between the parties arising out of these Terms and Conditions, provided, however, that nothing herein will prevent either party from seeking a court order for injunctive relief (in addition to other remedies) to stop or prevent misuse or misappropriation of its marks, confidential or proprietary information, or infringement of its intellectual property, in a court of law. All arbitrations will be conducted in English.
- 26. Severability.** If any section of these Terms and Conditions is held invalid, void, or unenforceable for any reason that section will be severed, and all other sections of these Terms and Conditions will remain valid to the extent permissible under law.
- 27. Modifications.** These Terms and Conditions are the entire and complete agreement between the parties and supersede any other communications, representations, or agreements with respect to its subject matter. Under no circumstances will any preprinted, additional, or different terms and conditions on your requests for quotation, purchase orders, invoices, sales or marketing materials, emails, any acceptance communications, or other business documents apply to any Services or Quotation or bind us in any manner. Modifications that have not been made by us or that have not been accepted by us in a written or emailed confirmation from us are not accepted by us, and commencement of performance will not signify acceptance by us of any such modifications. Any such modifications are excluded from our agreement, and such modifications will not be a binding agreement on us.
- 28. Order of Precedence.** Except for conflicts with Section 2 (Payment Terms), Section 4 (Estimated Schedule and Price) and Section 9 (Cancellation Fees), these Terms and Conditions will take precedence over any conflicting terms in any Quotation.
- 29. Electronic Signature.** These Terms and Conditions may be executed and delivered by facsimile, PDF, or by means of other electronic signature. Our electronic, digital, or hard copies of these Terms and Conditions, your acceptance, and Quotations as signed, or otherwise accepted, by you will be the true, complete, valid, authentic, and enforceable copies of these documents. You agree that you will not contest the admissibility or enforceability of our copies in a court or any proceeding arising out of such documents.
- 30. Force Majeure.** Neither party will be liable for any failure or delay in the performance of its obligations due to fire, flood, earthquake, elements of nature, or acts of God, acts of war, terrorism, riots, civil disorder, rebellions, or other similar cause beyond the reasonable control of the party affected, provided such default or delay: (i) could not have been prevented by reasonable precautions; (ii) cannot reasonably be circumvented; (iii) and the party hindered or delayed immediately notifies the other party describing the circumstance causing delay.