



TEST REPORT NO : 1001316389

Sep.23,2021

UL ORDER NO : 14006041

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**Factory :** FCI (BD) LTD.  
**Address :** PLOT # 36-39, DEPZ, GANAKBARI, SAVAR, DHAKA-1349, BANGLADESH  
**Contact Person :** MR. UTTAM DEBNATH  
**Testing For:** All ZDHC signatory brands  
**Reference Sample Handling Method:** ZDHC Sampling and Analysis Plan (SAP) Version 1.3  
**Sample Collected By:** UL VS Bangladesh Ltd.  
**Discharge Method:** In-Direct Discharge

**Sampling Date :** Sep.12,2021  
**Laboratory Received Date:** Sep.13,2021  
**Test Date:** Sep.13 - 23,2021  
**Buyer Name:** /  
**Reference Testing Protocol:** ZDHC Wastewater Guidelines Version 1.1  
**Wastewater:** Composite: 11.00am, 12.00pm, 1.00pm, 2.00pm, 3.00pm, 4.00pm, 5.00pm

**Sample Information :**

Sample ID	Description	Equivalent Code / Color
001	Wastewater Before Treatment	Light Grey

Sl. No.	Test Item	Sample ID	Remarks
1.	Temperature (°C)	001	
2.	TSS	001	
3.	COD	001	
4.	BOD (5-day)	001	
5.	pH Value	001	
6.	Colour [m-1] (436nm, 525nm, 620nm)	001	
7.	Total Nitrogen as N	001	
8.	Ammonium as N	001	
9.	Total Phosphorus as P	001	
10.	Absorbable organic Halogen, AOX	001	
11.	Oil & Grease	001	
12.	Total Phenol	001	
13.	Coliform♦	001	
14.	Persistent foam	001	
15.	Cyanide	001	
16.	Sulfide	001	
17.	Sulfite	001	

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18.	Heavy metals	001	
19.	Alkyphenol (AP) & Alkyphenol ethoxylates (APEOs)	001	
20.	Chlorobenzenes & Chlorotoluenes	001	
21.	Chlorophenols	001	
22.	Azo dyes / Amines	001	
23.	Carcinogenic dyestuff	001	
24.	Allergenic disperse dyestuff	001	
25.	Flame retardants	001	
26.	Glycols	001	
27.	Halogenated solvents	001	
28.	Organotin compounds	001	
29.	PFCs (Perfluorocarbon / Polyfluorinated Compounds)	001	
30.	Phthalates	001	
31.	Polycyclic Aromatic Hydrocarbons (PAHs)	001	
32.	Volatile Organic Compounds, VOC	001	

Remark:

1. The results relate only to the samples tested.
2. "NC"=No Comment, "NA"=Not Applicable,
3. ♦ Marked test was subcontracted to an ISO 17025 accredited laboratory.

For and on behalf of  
UL VS Bangladesh Limited

Md. Nur Alam – Lab Technical & Operations Manager

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**(01) Temperature (°C)**

Test Method: With reference USEPA 170.1

Test ID	Detection limit(°C)	Result (°C)	Requirement, °C	Comment
001	5	32.8	Foundational Δ15 or max. 35 Progressive Δ10 or 30 Aspirational Δ5 or 25	<b>PASS</b>

“°C” Means “Degree Celsius”

Note: Result also comply with Discharge License Criteria: ECR 1997 as there is no requirement for indirect discharge waste water.

**(02) Total Suspended Solid (TSS)**

Test Method: With reference APHA/SM 2540D

Test ID	Detection limit, mg/L	Result, mg/L	Requirement, mg/L	Comment
001	5	107	Foundational 50 Progressive 15 Aspirational 5	<b>PASS*</b>

“<” means “less than” ; “mg/L” means “milligram per litre”;

Note: \* = Comply with Discharge License Criteria: ECR 1997 as there is no requirement for indirect discharge waste water.

**(03) Chemical Oxygen Demand (COD)**

Test Method: With reference APHA/SM 5220D

Test ID	Detection limit, mg/L	Result, mg/L	Requirement, mg/L	Comment
001	5	300	Foundational 150 Progressive 80 Aspirational 40	<b>PASS*</b>

“<” means “less than” ; “mg/L” means “milligram per litre”;

Note: \* = Comply with Discharge License Criteria: ECR 1997 as there is no requirement for indirect discharge waste water.

**(04) Biological Oxygen Demand (BOD) (5-day)**

Test Method: With reference APHA/SM 5210B

Test ID	Detection limit, mg/L	Result, mg/L	Requirement, mg/L	Comment
001	2	85	Foundational 30 Progressive 15 Aspirational 5	<b>PASS*</b>

“<” means “less than” ; “mg/L” means “milligram per litre”;

Note: \* = Comply with Discharge License Criteria: ECR 1997 as there is no requirement for indirect discharge waste water.

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(05) pH Value

Test Method: With reference USEPA 150.1

Test ID	Detection limit	Result,	Requirement	Comment
001	-	7.4	6 - 9	PASS
Note: Result also comply with Discharge License Criteria: ECR 1997 as there is no requirement for indirect discharge waste water.				

(06) Colour [m-1] (436nm, 525nm, 620nm)

Test Method: With reference ISO 7887 Method B

Test ID	Detection limit (m-1)	Result (m-1)	Requirement (m-1)	Comment
001	0.01	0.09; 0.04; 0.04	Foundational 7; 5; 3 Progressive 5; 3; 2 Aspirational 2; 1; 1	PASS
" < " means "less than" ; Note: Comply with Discharge License Criteria: ECR 1997 as there is no requirement for indirect discharge waste water.				

(07) Total Nitrogen as N

Test Method: With reference APHA/SM 4500N-C

Test ID	Detection limit, mg/L	Result, mg/L	Requirement, mg/L	Comment
001	5	<5	Foundational 20 Progressive 10 Aspirational 5	PASS
" < " means "less than" ; "mg/L" means "milligram per litre"; Note: Result also comply with Discharge License Criteria: ECR 1997 as there is no requirement for indirect discharge waste water.				

(08) Ammonium as N

Test Method: With reference APHA/SM 4500 NH<sub>3</sub>-N

Test ID	Detection limit, mg/L	Result, mg/L	Requirement, mg/L	Comment
001	0.5	<0.5	Foundational 10 Progressive 1.0 Aspirational 0.5	PASS
" < " means "less than" ; "mg/L" means "milligram per litre"; Note: Result also comply with Discharge License Criteria: ECR 1997 as there is no requirement for indirect discharge waste water.				

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(09) Total Phosphorus as P

Test Method: With reference APHA/SM 4500P-J

Test ID	Detection limit, mg/L	Result, mg/L	Requirement, mg/L	Comment
001	0.1	<0.1	Foundational 3.0 Progressive 0.5 Aspirational 0.1	PASS

"<" means "less than" ; "mg/L" means "milligram per litre";  
Note: Result also comply with Discharge License Criteria: ECR 1997 as there is no requirement for indirect discharge waste water.

(10) Absorbable Organic Halogens (AOX)

Test Method: Photometric measurement

Test ID	Detection limit, mg/L	Result, mg/L	Requirement, mg/L	Comment
001	0.1	0.40	Foundational 5.0 Progressive 1.0 Aspirational 0.1	PASS

"<" means "less than" ; "mg/L" means "milligram per litre";  
Note: Comply with Discharge License Criteria: ECR 1997 as there is no requirement for indirect discharge waste water.

(11) Oil & Grease

Test Method: With reference USEPA 1664

Test ID	Detection limit, mg/L	Result, mg/L	Requirement, mg/L	Comment
001	0.5	<0.5	Foundational 10.0 Progressive 2.0 Aspirational 0.5	PASS

"<" means "less than" ; "mg/L" means "milligram per litre";  
Note: Result also comply with Discharge License Criteria: ECR 1997 as there is no requirement for indirect discharge waste water.

(12) Total Phenol

Test Method: With reference APHA/ SM 5530B, C&D

Test ID	Detection limit, mg/L	Result, mg/L	Requirement, mg/L	Comment
001	0.001	<0.001	Foundational 0.5 Progressive 0.01 Aspirational 0.001	PASS

"<" means "less than" ; "mg/L" means "milligram per litre";  
Note: Result also comply with Discharge License Criteria: ECR 1997 as there is no requirement for indirect discharge waste water.

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(13) Coliform

Test Method: With reference USEPA 9132

Test ID	Detection limit, Bacteria/100ml	Result, Bacteria/100ml	Requirement, Bacteria/100ml	Comment
001	25	<25	Foundational 400 Progressive 100 Aspirational 25	PASS

"<" means "less than" ;

Note: Comply with Discharge License Criteria: ECR 1997 as there is no requirement for indirect discharge waste water.

(14) Persistent Foam

Test Method: Visual Analysis

Test ID	Detection limit	Result	Requirement	Comment
001	-	Not Visible	Not Visible	PASS

Note: Comply with Discharge License Criteria: ECR 1997 as there is no requirement for indirect discharge waste water.

(15) Cyanide

Test Method: With reference APHA/SM 4500 CN

Test ID	Detection limit, mg/L	Result, mg/L	Requirement, mg/L	Comment
001	0.05	<0.05	Foundational 0.2 Progressive 0.1 Aspirational 0.05	PASS

"<" means "less than" ; "mg/L" means "milligram per litre";

Note: Result also comply with Discharge License Criteria: ECR 1997 as there is no requirement for indirect discharge waste water.

(16) Sulfide

Test Method: With reference APHA/SM 4500-S2-D

Test ID	Detection limit, mg/L	Result, mg/L	Requirement, mg/L	Comment
001	0.005	<0.005	Foundational 0.5 Progressive 0.05 Aspirational 0.01	PASS

"<" means "less than" ; "mg/L" means "milligram per litre";

Note: Result also comply with Discharge License Criteria: ECR 1997 as there is no requirement for indirect discharge waste water.

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(17) Sulfite

Test Method: With reference USEPA 377.1

Test ID	Detection limit, mg/L	Result, mg/L	Requirement, mg/L	Comment
001	0.2	1.2	Foundational 2.0 Progressive 0.5 Aspirational 0.2	PASS

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**(18) Heavy metals**

Test Method: With reference to USEPA 200.7, USEPA 200.8, USEPA 6010c, USEPA 6020a, Acid Digestion with ICP analysis or For Cr VI, with reference to USEPA 218.6 derivatisation followed by UV analysis

Substance name	CAS No.	Detection limit, mg/L	Result, mg/L (001)	Requirement	Comment
Total Cadmium (Cd)	7440-43-9	0.01	<0.01	Foundational 0.1 mg/L Progressive 0.05 mg/L Aspirational 0.01 mg/L	<b>PASS</b>
Total Lead (Pb)	7439-92-1	0.01	<0.01	Foundational 0.1 mg/L Progressive 0.05 mg/L Aspirational 0.01 mg/L	<b>PASS</b>
Total Mercury (Hg)	7439-97-6	0.001	<0.001	Foundational 0.01 mg/L Progressive 0.005 mg/L Aspirational 0.001 mg/L	<b>PASS</b>
Total Nickel (Ni)	7440-02-0	0.05	<0.05	Foundational 0.2 mg/L Progressive 0.1 mg/L Aspirational 0.05 mg/L	<b>PASS</b>
Hexavalent Chromium (Cr-VI)	18540-29-9	0.001	<0.001	Foundational 0.05 mg/L Progressive 0.005 mg/L Aspirational 0.001 mg/L	<b>PASS</b>
Total Arsenic (As)	7440-38-2	0.005	<0.005	Foundational 0.05 mg/L Progressive 0.01 mg/L Aspirational 0.005 mg/L	<b>PASS</b>
Total Chromium (Cr)	7440-47-3	0.05	<0.05	Foundational 0.2 mg/L Progressive 0.1 mg/L Aspirational 0.05 mg/L	<b>PASS</b>
Total Copper (Cu)	7440-50-8	0.25	<0.25	Foundational 1.0 mg/L Progressive 0.5 mg/L Aspirational 0.25 mg/L	<b>PASS</b>
Total Zinc (Zn)	7440-66-6	0.5	<0.5	Foundational 5.0 mg/L Progressive 1.0 mg/L Aspirational 0.5 mg/L	<b>PASS</b>
Total Antimony (Sb)	7440-36-0	0.01	<0.01	Foundational 0.1 mg/L Progressive 0.05 mg/L Aspirational 0.01 mg/L	<b>PASS</b>
Total Cobalt (Co)	7440-48-4	0.01	<0.01	Foundational 0.05 mg/L Progressive 0.02 mg/L Aspirational 0.01 mg/L	<b>PASS</b>
Total Silver (Ag)	7440-22-4	0.005	<0.005	Foundational 0.1 mg/L Progressive 0.05 mg/L Aspirational 0.005 mg/L	<b>PASS</b>

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(19) Alkyphenol (AP) & Alkyphenol ethoxylates (APEOs)

Test Method: With Reference to ISO 18857-2, ISO 18254-1, followed by LCMS analysis

Substance name	CAS No.	Detection limit, µg/L	Result, µg/L (001)
Octylphenol	1806-26-4, 27193-28-8, 140-66-9	5	<5
Nonylphenol	104-40-5, 25154-52-3, 11066-49-2, 84852-15-3	5	<5
NPEO, n=1~2	various	5	<5
NPEO	68412-54-4, 9016-45-9, 26027-38-3, 37205-87-1, 127087-87-0	5	<5
OPEO, n=1~2	various	5	<5
OPEO	9002-93-1, 9036-19-5, 68987-90-6	5	<5
	<b>Comment</b>	-	<b>PASS</b>

"<" means "less than" ; "µg/L" means "microgram per litre";

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(20) Chlorobenzenes & Chloro-Toluenes

Test Method: With reference USEPA 8260B & 8270D, Solvent extraction with GCMS analysis

Substance name	CAS No.	Detection limit, µg/L	Result, µg/L (001)
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-Tetrachlorobenzene	634-90-2	0.2	<0.2
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	<0.2
Pentachlorobenzene	608-93-5	0.2	<0.2
Hexachlorobenzene	118-74-1	0.2	<0.2
2-chlorotoluene	95-49-8	0.2	<0.2
3-chlorotoluene	108-41-8	0.2	<0.2
4-chlorotoluene	106-43-4	0.2	<0.2
2,3-dichlorotoluene	32768-54-0	0.2	<0.2
2,4-dichlorotoluene	95-73-8	0.2	<0.2
2,5-dichlorotoluene	19398-61-9	0.2	<0.2
2,6-dichlorotoluene	118-69-4	0.2	<0.2
3,4-dichlorotoluene	95-75-0	0.2	<0.2
3,5-dichlorotoluene	25186-47-4	0.2	<0.2
2,3,4-dichlorotoluene	7359-72-0	0.2	<0.2
2,3,6-trichlorotoluene	2077-46-5	0.2	<0.2
2,4,5-trichlorotoluene	6639-30-1	0.2	<0.2
2,4,6-trichlorotoluene	23749-65-7	0.2	<0.2
3,4,5-trichlorotoluene	21472-86-6	0.2	<0.2
2,3,4,5- tetra chlorotoluene	76057-12-0	0.2	<0.2
2,3,5,6- tetra chlorotoluene	29733-70-8	0.2	<0.2
2,3,4,6- tetra chlorotoluene	875-40-1	0.2	<0.2
Pentachlorotoluene	877-11-2	0.2	<0.2
	<b>Comment</b>	-	<b>PASS</b>

"<" means "less than" ; "µg/L" means "microgram per litre";

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(21) Chlorophenols

Test Method: With reference USEPA 8270D, Solvent extraction and derivatisation with KOH, acetic anhydride followed by GCMS analysis

Substance name	CAS No.	Detection limit, µg/L	Result, µg/L (001)
Pentachlorophenols (PCP)	87-86-5	0.5	<0.5
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	<0.5
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	<0.5
2,3,5,6-tetrachlorophenol	935-95-5	0.5	<0.5
2,4,6-trichlorophenol	88-06-2	0.5	<0.5
2,3,4-trichlorophenol	15950-66-0	0.5	<0.5
2,3,5-trichlorophenol	933-78-8	0.5	<0.5
2,3,6-trichlorophenol	933-75-5	0.5	<0.5
2,4,5-trichlorophenol	95-95-4	0.5	<0.5
3,4,5-trichlorophenol	609-19-8	0.5	<0.5
2,3-dichlorophenol	576-24-9	0.5	<0.5
2,4-dichlorophenol	120-83-2	0.5	<0.5
2,5-dichlorophenol	583-78-8	0.5	<0.5
2,6-dichlorophenol	87-65-0	0.5	<0.5
3,4-dichlorophenol	95-77-2	0.5	<0.5
3,5-dichlorophenol	591-35-5	0.5	<0.5
2-Chlorophenol	95-57-8	0.5	<0.5
3-Chlorophenol	108-43-0	0.5	<0.5
4-Chlorophenol	106-48-9	0.5	<0.5
	<b>Comment</b>	-	<b>PASS</b>

"<" means "less than"; "µg/L" means "microgram per litre";

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Test Method: With reference to EN 14362-1&amp;3 and followed by GCMS &amp;/or LCMS Analysis

Substance name	CAS No.	Detection limit, µg/L	Result, µg/L (001)
4-Aminodiphenyl	92-67-1	0.1	<0.1
Benzidine	92-87-5	0.1	<0.1
4-Chloro-o-Toluidine	95-69-2	0.1	<0.1
2-Naphthylamine	91-59-8	0.1	<0.1
o-Aminoazotoluene	97-56-3	0.1	<0.1
2-Amino-4-Nitrotoluene	99-55-8	0.1	<0.1
p-Chloroaniline	106-47-8	0.1	<0.1
2,4-Diaminoanisole	615-05-4	0.1	<0.1
4,4'-Diaminodiphenylmethane	101-77-9	0.1	<0.1
3,3'-Dichlorobenzidine	91-94-1	0.1	<0.1
3,3'-Dimethoxybenzidine	119-90-4	0.1	<0.1
3,3'-Dimethylbenzidine	119-93-7	0.1	<0.1
3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	0.1	<0.1
p-Cresidine	120-71-8	0.1	<0.1
4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	0.1	<0.1
4,4'-Oxydianiline	101-80-4	0.1	<0.1
4,4'-Thiodianiline	139-65-1	0.1	<0.1
o-Toluidine	95-53-4	0.1	<0.1
2,4-Toluylenediamine	95-80-7	0.1	<0.1
2,4,5-Trimethylaniline	137-17-7	0.1	<0.1
o-Anisidine	90-04-0	0.1	<0.1
p-Aminoazobenzene	60-09-3	0.1	<0.1
2,4-Xylidine	95-68-1	0.1	<0.1
2,6-Xylidine	87-62-7	0.1	<0.1
	<b>Comment</b>	-	<b>PASS</b>

“&lt;” means “less than” ; “µg/L” means “microgram per litre;

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(23) Carcinogenic Dyes

Test Method: Solvent extraction with LCMS analysis

Substance name	CAS No.	Detection limit, µg/L	Result, µg/L (001)
Acid Red 26	3761-53-3	500	<500
Basic Red 9	569-61-9	500	<500
Basic Violet 14	632-99-5	500	<500
Direct Blue 6	2602-46-2	500	<500
Direct Red 28	573-58-0	500	<500
Direct Black 38	1937-37-7	500	<500
Disperse Blue 1	2475-45-8	500	<500
Disperse Blue 3	2475-46-9	500	<500
Disperse Orange 11	82-28-0	500	<500
Basic Blue 26 (with Michler's Ketone >0.1%)	2580-56-5	500	<500
Basic Green 4 (malachite green chloride)	569-64-2	500	<500
Basic Green 4 (malachite green oxalate)	2437-29-8	500	<500
Basic Green 4 (malachite green)	10309-95-2	500	<500
	<b>Comment</b>	-	<b>PASS</b>

"<" means "less than" ; "µg/L" means "microgram per litre";

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(24) Allergenic Disperse Dyes

Test Method: Solvent extraction with LCMS analysis

Substance name	CAS No.	Detection limit, µg/L	Result, µg/L (001)
Disperse Blue 7	3179-90-6	50	<50
Disperse Blue 26	3860-63-7	50	<50
Disperse Blue 35	12222-75-2 56524-77-7	50	<50
Disperse Blue 102	12222-97-8	50	<50
Disperse Blue 106	12223-01-7	50	<50
Disperse Blue 124	61951-51-7	50	<50
Disperse Brown 1	23355-64-8	50	<50
Disperse Orange 1	2581-69-3	50	<50
Disperse Orange 3	730-40-5	50	<50
Disperse Orange 37/59/76	13301-61-6	50	<50
Disperse Red 1	2872-52-8	50	<50
Disperse Red 11	2872-48-2	50	<50
Disperse Red 17	3179-89-3	50	<50
Disperse Yellow 1	119-15-3	50	<50
Disperse Yellow 3	2832-40-8	50	<50
Disperse Yellow 9	6373-73-5	50	<50
Disperse Yellow 39	12236-29-2	50	<50
Disperse Yellow 49	54824-37-2	50	<50
	<b>Comment</b>	-	<b>PASS</b>

"<" means "less than"; "µg/L" means "microgram per litre;

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(25) Flame retardants

Test Method: With reference to USEPA 8270, USEPA 527, USEPA 8321B Solvent extraction followed by GC/MS & LCMS analysis

Substance name	CAS No.	Detection limit, µg/L	Result, µg/L (001)
Polybromo biphenyls (PBB)	59536-65-1	5	<5
Pentabromo diphenyl ethers (PentaBDE)	32534-81-9	5	<5
Octabromo diphenyl ethers (OctaBDE)	32536-52-0	5	<5
Decabromo diphenyl ethers (DecaBDE)	1163-19-5	5	<5
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	5	<5
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	5	<5
Hexabromocyclododecane (HBCDD)	3194-55-6	5	<5
Tetrabromobisphenol A (TBBPA)	79-94-7	5	<5
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	5	<5
Bis(2,3-dibromopropyl)phosphate (BIS)	5412-25-9	5	<5
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	13674-87-8	5	<5
2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	5	<5
Short Chain Chlorinated Paraffins (SCCP), C10-C13	85535-84-8	5	<5
	<b>Comment</b>	-	<b>PASS</b>

“<” means “less than”; “µg/L” means “microgram per litre”;

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**(26) Glycols**

Test Method: With reference USEPA 8270, Solvent extraction followed by GCMS or LCMS analysis

Substance name	CAS No.	Detection limit, µg/L	Result, µg/L (001)
Bis(2-methoxyethyl)-ether	111-96-6	50	<50
2-ethoxyethanol	110-80-5	50	<50
2-ethoxyethyl acetate	111-15-9	50	<50
Ethylene glycol dimethyl ether	110-71-4	50	<50
2-methoxyethanol	109-86-4	50	<50
2-methoxyethylacetate	110-49-6	50	<50
2-methoxypropylacetate	70657-70-4	50	<50
Triethylene glycol dimethyl ether	112-49-2	50	<50
	<b>Comment</b>	-	<b>PASS</b>

"<" means "less than"; "µg/L" means "microgram per litre;"

**(27) Halogenated solvents**

Test Method: With reference USEPA 8260B, analysis by GCMS with Headspace

Substance name	CAS No.	Detection limit, µg/L	Result, µg/L (001)
Dichloromethane	75-09-2	1	<1
1,2-Dichloroethane	107-06-2	1	<1
Trichloroethylene	79-01-6	1	<1
Perchloroethylene	127-18-4	1	<1
	<b>Comment</b>	-	<b>PASS</b>

"<" means "less than"; "µg/L" means "microgram per litre;"

**(28) Organotin compounds**

Test Method: With reference to ISO 17353 and followed by GCMS analysis

Substance name	CAS No.	Detection limit, µg/L	Result, µg/L (001)
Mono-, di- and tri-Methyltin derivatives	Multiple	0.01	<0.01
Mono-, di- and tri-Butyltin derivatives	Multiple	0.01	<0.01
Mono-, di- and tri-Phenyltin derivatives	Multiple	0.01	<0.01
Mono-, di- and tri-octyltin derivatives	Multiple	0.01	<0.01
	<b>Comment</b>	-	<b>PASS</b>

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**(29) Perfluorinated compounds (PFCs)**

Test Method: With reference CEN/TS 15968, USEPA 537, Solvent extraction followed by GCMS or LCMS analysis

Substance name	CAS No.	Detection limit, µg/L	Result, µg/L (001)
PFOA	335-67-1	0.01	<0.01
PFBS	29420-49-3 / 29420-43-3, 375-73-5	0.01	<0.01
6:2 FTOH	647-42-7	1	<1
8:2 FTOH	678-39-7	1	<1
PFOS (PFHXS)	1763-23-01	0.01	<0.01
PFHXA	307-24-4	0.01	<0.01
	<b>Comment</b>	-	<b>PASS</b>

“&lt;” means “less than”; “µg/L” means “microgram per litre;

**(30) Phthalates**

Test Method: With reference to USEPA 8270D, Solvent extraction followed by GC/MS analysis

Substance name	CAS No.	Detection limit, µg/L	Result, µg/L (001)
Di-Butyl Phthalate (DBP)	84-74-2	10	<10
Di(2-Ethyl Hexyl) Phthalate(DEHP)	117-81-7	10	<10
Benzyl Butyl Phthalate (BBP)	85-68-7	10	<10
Di-Iso-Nonyl Phthalate (DINP)	28553-12-0	10	<10
Di-N-Octyl Phthalate (DNOP)	117-84-0	10	<10
Di-Iso-Decyl Phthalate (DIDP)	26761-40-0	10	<10
Di-Iso-Butyl Phthalate (DIBP)	84-69-5	10	<10
Di-N-Hexyl Phthalate (DNHP)	84-75-3	10	<10
Bis(2-methoxyethyl)phthalate (DMEP)	117-82-8	10	<10
1,2-Benzenedicarboxylic acid, Di-C7-11 Branched and Linear Alkyl Esters (DHNUP)	68515-42-4	10	<10
Di-Iso-Hexyl Phthalate (DIHP)	71888-89-6	10	<10
D-inonyl Phthalate (DNP)	84-76-4	10	<10
Diethyl Phthalate (DEP)	84-66-2	10	<10
Di-n-propyl Phthalate (DPrP)	131-16-8	10	<10
Di-cyclohexyl Phthalate (DCHP)	84-61-7	10	<10
Di-iso-octyl Phthalate (DIOP)	27554-26-3	10	<10
	<b>Comment</b>	-	<b>PASS</b>

“&lt;” means “less than”; “µg/L” means “microgram per litre;

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**(31) Polycyclic Aromatic Hydrocarbons (PAHs)**

Test Method: With reference USEPA 8270, Solvent extraction with GCMS analysis

Substance name	CAS No.	Detection limit, µg/L	Result, µg/L (001)
Benzo[a]pyrene (BaP)	50-32-8	1	<1
Anthracene	120-12-7	1	<1
Pyrene	129-00-0	1	<1
Benzo[ghi]perylene	191-24-2	1	<1
Benzo[e]pyrene	192-97-2	1	<1
Indeno[1,2,3-cd]pyrene	193-39-5	1	<1
Benzo[j]fluoranthene	205-82-3	1	<1
Benzo[b]fluoranthene	205-99-2	1	<1
Fluoranthene	206-44-0	1	<1
Benzo[k]fluoranthene	207-08-9	1	<1
Acenaphthylene	208-96-8	1	<1
Chrysene	218-01-9	1	<1
Dibenz[a,h]anthracene	53-70-3	1	<1
Benzo[a]anthracene	56-55-3	1	<1
Acenaphthene	83-32-9	1	<1
Phenanthrene	85-01-8	1	<1
Fluorene	86-73-7	1	<1
Naphthalene	91-20-3	1	<1
	<b>Comment</b>	-	<b>PASS</b>

"<" means "less than"; "µg/L" means "microgram per litre";

**(32) Volatile Organic Compounds, VOC**

Test Method: With reference USEPA 8260, analysis by GCMS with Headspace

Substance name	CAS No.	Detection limit, µg/L	Result, µg/L (001)
Benzene	71-43-2	1	<1
Xylene	1330-20-7	1	<1
o-cresol	95-48-7	1	<1
p-cresol	106-44-5	1	<1
m-cresol	108-39-4	1	<1
	<b>Comment</b>	-	<b>PASS</b>

"<" means "less than"; "µg/L" means "microgram per litre";

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**Wastewater Before Treatment**



GPS for this point (if available); Latitude: 23.948631<sup>0</sup>, Longitude: 90.270541<sup>0</sup>

**Sample Photo(s):**

**Wastewater Before Treatment**



GPS for this point (if available); Latitude: 23.948419<sup>0</sup>, Longitude: 90.270743<sup>0</sup>

**Sampling Point Photo(s):**

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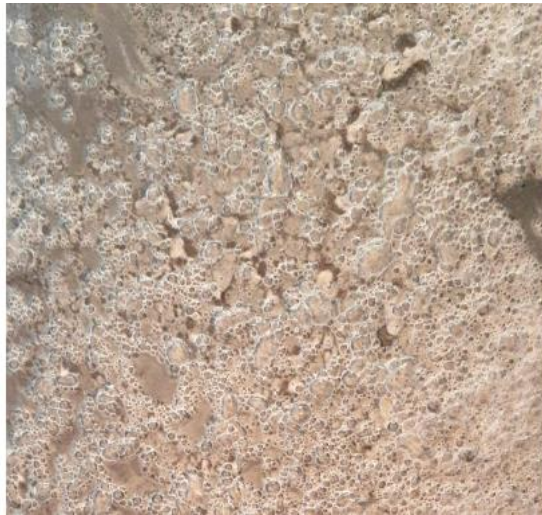
**Sep.23,2021**

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**Foam Picture at 4.12pm, 12 Sep. 2021**

**GPS for this point (if available); Latitude: 23.948451<sup>0</sup>, Longitude: 90.270888<sup>0</sup>**

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UL Wastewater Test Request Form

Contact information: M: +88-01730087200, +88-01730317241, Email: customer@ul.com.bd, ul.com.bd
Office Address: The Pearl Trade Centre | 5<sup>th</sup>, 14<sup>th</sup> & 15<sup>th</sup> floor, Cha-90/3, Progoti Sharani, North Badda, Dhaka 1209, Bangladesh

Required Service: Regular Service (DETOX & ZDHC) or Regular Service (selective test)
Applicant & Report Sending Information: Submitter's Name, Company Name, Address, Mobile Phone, Email addresses
Sampling Location: Inflowing Water, Wastewater, Drain, Drinking Water, Discharge Water, Sludge, Grade 3 Water
Sample Description: Sample Color
Reference: Buy, Self-Reference
Billing Information: Buy/Agent, Bill to person Name
General Chemistry: Temperature, pH Value, Total Dissolved Solid (TDS), Total Suspended Solids (TSS), Biological Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Chloride (CL), Sulfide (S2-), Ammonia Nitrogen (NH3-N), Total Phosphorus (TP), Arsenic, Cadmium, Chromium, Cobalt, Copper, Cyanide, Lead, Mercury, Nickel, Zinc, Coliform 400 bacteria per 100ml
Detox Parameter: Aldehydes (AP) and Aliphatic Ethers (APE), Phthalates, Flame Retardants, Azo dyes / Amines, Organotin Compounds, Polybrominated and Polyfluorinated Compounds (PBFCs), Chlorinated Solvents and Other VOCs, Chlorophenols, Chlorinated Paraffins (CCPs), Heavy Metals, Carcinogenic and Allergic Dyes, Organics, Chlorinated Solvents and Other VOCs, Chlorophenols, Chlorinated Paraffins (CCPs)
ZDHC Parameter / GRS Standard / Sludge / DEKO-TEX: Temperature, TSS, COD, Total-N, pH, Sulfide, Ammonia, Chromium, Cobalt, Copper, Hexachlorocyclopentadiene (HCCP), Polycyclic Aromatic Hydrocarbons (PAHs), Glycols, Polycyclic Aromatic Hydrocarbons (PAHs)
Grade 3 Water: pH at 25°C, Electrical Conductivity (EC), Residue After Evaporation at 110°C, Dissolved Matter
Other Tests: Chloride, Nitrate, Manganese
Additional Instruction: Wastewater before treatment, Plus 4 127, DEPZ, Gankabari, Sector Dhaka 1349, Bangladesh

Name and position of the test representative: M.D. AKKASAL



Signature (E-Signature)

WASTEWATER TEST APPLICATION FORM-VI (24 NOV 2019)

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UL VS Bangladesh Ltd.

ONSITE ZERO DISCHARGE SAMPLING DATA SHEET

Primary Data:

Table with 2 columns: Field Name, Value. Includes Laboratory Sample Number, Client Name, Plant Contact Person, Facility Name and Address, Sampling Location, Reference Sampling Method, Sample Type, Name of Sample, Discharge Mode, Date of Collection, and Factory Type.

Field Data for Wastewater

Table with 8 columns: Parameter, 1, 2, 3, 4, 5, 6, 7. Includes Arrival Time, Departure Time, Field with Effluent Treatment Plant, Sample Matrix, Field Parameters (pH, Temp, Color, Odor, Turbidity, Flow Rate, Number of Sample Container, Volume Collected, Total Volume Collected).

Analysis required and preservation method:

Table with 4 columns: Tests (Conventional Parameters & MRIs), Required Test (M), Required Sample Volume (ML), Sample Container Pre-treatment Process & Preservation. Lists various chemical and physical tests and their corresponding procedures.

Remarks:

ZDHC wastewater Guideline test parameters can be allowed to perform in-situ if sampling upon request. The minimum sampling time for ZDHC Guideline is 6 hours with no more than 1 hour between discrete samples. Sampling time could be adjusted upon request. Free primary aromatic amines, pesticides, nitroaromatic and TDS are not in the scope of ZDHC Guideline. They are tested upon request.

Recorded By

Signature

Factory Representative Signature

Signature of M. Akkas Ali and official stamp of Pearl Trade Center, Dhaka.

Date: 22-Sep-21

Date: 22-Sep-21

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

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## UL VS Terms and Conditions

### All services are governed by the following Terms and Conditions.

- Verification Services.** The UL Contracting Party ("we", "us", or "our" as the context requires) will perform commercial testing, verification, audit, assessment, inspection, and/or other services ("Services") in accordance with your instructions as described in this order, scope of work, project proposal, quotation, or order acknowledgment ("Quotation"). The Services will be limited to an assessment of your samples' conformity to requirements, specifications, and/or protocols you have established ("Your Requirements"), and do not express any opinion regarding the bulk from which the samples were drawn. The Services do not involve any assessment or evaluation to independent safety standards, and we and our affiliates have no responsibility to make any independent safety assessment of any samples.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- Our Findings.** We do not guarantee that our opinions or findings will be recognized or accepted by third parties.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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 Pingston Road, Northbrook, Illinois 60062. Notice will be effective upon receipt.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.