

**TEST REPORT NO : 1001458898****Feb.20,2022****UL ORDER NO : 14210888****Page : 1 of 21**

**Factory :** FCI (BD) LTD.  
**Address :** PLOT # 36-39, DEPZ, GANAKBARI, SAVAR, DHAKA-1349, BANGLADESH  
**Contact Person :** MR. UTTAM KUMAR 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 :** Feb.10,2022  
**Laboratory Received Date :** Feb.10,2022  
**Test Date :** Feb.10–20,2022  
**Reference Testing Protocol:** ZDHC Wastewater Guidelines Version 1.1  
**Sampling Time Discharge water:** 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 Brown

	Executive Summary	Result
<b>1A</b>	<b>Conventional Parameters-Sum Parameters and Anions</b>	<b>001</b>
	Temperature (°C)	See test result
	Total Suspended Solid (TSS)	
	Chemical Oxygen Demand (COD)	
	Total Nitrogen as N	
	pH Value	
	Colour (436nm, 525nm, 620nm)	
	Biochemical Oxygen Demand (BOD <sub>5</sub> )	
	Ammonium as N	
	Total Phosphorus as P	
	Absorbable organic Halogen (AOX)	
	Oil & Grease	
	Total Phenol	
	Coliform ♦	
	Persistent foam	
	Sulfide	
	Sulfite	
	Cyanide	
<b>1B</b>	<b>Conventional Parameters- Metals</b>	<b>Not Detected</b>

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2A-2N	ZDHC MRSL Parameters	001
2A	Alkylphenol (AP) & Alkylphenol ethoxylates (APEOs)	Not Detected
2B	Chlorobenzenes & Chlorotoluenes	Not Detected
2C	Chlorophenols	Not Detected
2D	Azo dyes / Amines	Not Detected
2E	Carcinogenic dyestuff	Not Detected
2F	Allergenic disperse dyestuff	Not Detected
2G	Flame retardants	Not Detected
2H	Glycols	Not Detected
2I	Halogenated solvents	Not Detected
2J	Organotin compounds	Not Detected
2K	PFCs (Perfluorocarbon / Polyfluorinated Compounds)	Not Detected
2L	Phthalates	Not Detected
2M	Polycyclic Aromatic Hydrocarbons (PAHs)	Not Detected
2N	Volatile Organic Compounds, VOC	Not Detected

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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1A) Conventional Parameters-Sum Parameters and Anions:

Temperature:

Test Method: With reference USEPA 170.1

Test ID	Detection limit(°C)	Result (°C)	Limit, °C	Conclusion
001	5°C	32.5 (Foundational)	Foundational Δ15 or max. 35 Progressive Δ10 or 30 Aspirational Δ5 or 25	DATA
“<” means “less than”; “°C” Means “Degree Celsius”				

Total Suspended Solid (TSS):

Test Method: With reference APHA/SM 2540D

Test ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
001	5	125 (Above the Foundational)	Foundational 50 Progressive 15 Aspirational 5	DATA
“<” means “less than”; “mg/L” means “milligram per litre;				

Chemical Oxygen Demand (COD):

Test Method: With reference APHA/SM 5220D

Test ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
001	5	395 (Above the Foundational)	Foundational 150 Progressive 80 Aspirational 40	DATA
“<” means “less than”; “mg/L” means “milligram per litre;				

Total Nitrogen as N:

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

Test ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
001	5	5.3 (Progressive)	Foundational 20 Progressive 10 Aspirational 5	DATA
“<” means “less than”; “mg/L” means “milligram per litre;				

pH Value:

Test Method: With reference USEPA 150.1

Test ID	Result	Limit	Conclusion
001	7.0	6 - 9	DATA

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**Colour (436nm, 525nm, 620nm):**

Test Method: With reference ISO 7887 Method B

Test ID	Detection limit (m-1)	Result (m-1)	Limit, (m-1)	Conclusion
001	0.01	0.18; 0.13; 0.11 (Aspirational)	Foundational 7; 5; 3 Progressive 5; 3; 2 Aspirational 2; 1; 1	DATA
"<" means "less than" ;				

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

Test Method: With reference APHA/SM 5210B

Test ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
001	2	155 (Above the Foundational)	Foundational 30 Progressive 15 Aspirational 5	DATA
"<" means "less than" ; "mg/L" means "milligram per litre;				

**Ammonium as N:**

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

Test ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
001	0.5	<0.5 (Aspirational)	Foundational 10 Progressive 1.0 Aspirational 0.5	DATA
"<" means "less than" ; "mg/L" means "milligram per litre;				

**Total Phosphorus as P:**

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

Test ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
001	0.1	2.8 (Foundational)	Foundational 3.0 Progressive 0.5 Aspirational 0.1	DATA
"<" means "less than" ; "mg/L" means "milligram per litre;				

**Absorbable Organic Halogens (AOX):**

Test Method: Photometric measurement

Test ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
001	0.1	0.48 (Progressive)	Foundational 5.0 Progressive 1.0 Aspirational 0.1	DATA
"<" means "less than" ; "mg/L" means "milligram per litre;				

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**Oil & Grease:**

Test Method: With reference USEPA 1664

Test ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
001	0.5	<0.5 (Aspirational)	Foundational 10.0 Progressive 2.0 Aspirational 0.5	DATA
“<” means “less than” ; “mg/L” means “milligram per litre”;				

**Total Phenol:**

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

Test ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
001	0.001	<0.001 (Aspirational)	Foundational 0.5 Progressive 0.01 Aspirational 0.001	DATA
“<” means “less than” ; “mg/L” means “milligram per litre”;				

**Coliform:**

Test Method: With reference USEPA 9132

Test ID	Detection limit, Bacteria/100ml	Result, Bacteria/100ml	Limit, Bacteria/100ml	Conclusion
001	25	<25 (Aspirational)	Foundational 400 Progressive 100 Aspirational 25	DATA
“<” means “less than” ;				

**Persistent Foam:**

Test Method: Visual Analysis

Test ID	Result	Limit	Conclusion
001	Not Visible	Not Visible	DATA

**Sulfide:**

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

Test ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
001	0.005	<0.005 (Aspirational)	Foundational 0.5 Progressive 0.05 Aspirational 0.01	DATA
“<” means “less than” ; “mg/L” means “milligram per litre”;				

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**Sulfite:**

Test Method: With reference USEPA 377.1

Test ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
001	0.2	<0.2 (Aspirational)	Foundational 2.0 Progressive 0.5 Aspirational 0.2	<b>DATA</b>
“<” means “less than”; “mg/L” means “milligram per litre;				

**Cyanide:**

Test Method: With reference APHA/SM 4500 CN

Test ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
001	0.05	<0.05 (Aspirational)	Foundational 0.2 Progressive 0.1 Aspirational 0.05	<b>DATA</b>
“<” means “less than”; “mg/L” means “milligram per litre;				

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**(1B) Conventional Parameters- 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

Heavy metals	CAS No.	Detection limit, mg/L	Result, mg/L (001)	Requirement	Conclusion
Total Cadmium (Cd)	7440-43-9	0.01	ND (Aspirational)	Foundational 0.1 mg/L Progressive 0.05 mg/L Aspirational 0.01 mg/L	DATA
Total Lead (Pb)	7439-92-1	0.01	ND (Aspirational)	Foundational 0.1 mg/L Progressive 0.05 mg/L Aspirational 0.01 mg/L	DATA
Total Mercury (Hg)	7439-97-6	0.001	ND (Aspirational)	Foundational 0.01 mg/L Progressive 0.005 mg/L Aspirational 0.001 mg/L	DATA
Total Nickel (Ni)	7440-02-0	0.05	ND (Aspirational)	Foundational 0.2 mg/L Progressive 0.1 mg/L Aspirational 0.05 mg/L	DATA
Hexavalent Chromium (Cr-VI)	18540-29-9	0.001	ND (Aspirational)	Foundational 0.05 mg/L Progressive 0.005 mg/L Aspirational 0.001 mg/L	DATA
Total Arsenic (As)	7440-38-2	0.005	ND (Aspirational)	Foundational 0.05 mg/L Progressive 0.01 mg/L Aspirational 0.005 mg/L	DATA
Total Chromium (Cr)	7440-47-3	0.05	ND (Aspirational)	Foundational 0.2 mg/L Progressive 0.1 mg/L Aspirational 0.05 mg/L	DATA
Total Copper (Cu)	7440-50-8	0.25	ND (Aspirational)	Foundational 1.0 mg/L Progressive 0.5 mg/L Aspirational 0.25 mg/L	DATA
Total Zinc (Zn)	7440-66-6	0.5	2.18 (Foundational)	Foundational 5.0 mg/L Progressive 1.0 mg/L Aspirational 0.5 mg/L	DATA
Total Antimony (Sb)	7440-36-0	0.01	ND (Aspirational)	Foundational 0.1 mg/L Progressive 0.05 mg/L Aspirational 0.01 mg/L	DATA
Total Cobalt (Co)	7440-48-4	0.01	ND (Aspirational)	Foundational 0.05 mg/L Progressive 0.02 mg/L Aspirational 0.01 mg/L	DATA
Total Silver (Ag)	7440-22-4	0.005	ND (Aspirational)	Foundational 0.1 mg/L Progressive 0.05 mg/L Aspirational 0.005 mg/L	DATA

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**(2A) Alkylphenol (AP) & Alkylphenol ethoxylates (APEOs):**

Test Method: With Reference to ISO 18254-1, ISO 18857-2 or ASTM D7065 followed by LCMSMS or GC MS analysis

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

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(2B) 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	ND
1,2-Dichlorobenzene	95-50-1	0.2	ND
1,3-Dichlorobenzene	541-73-1	0.2	ND
1,4-Dichlorobenzene	106-46-7	0.2	ND
1,2,3-Trichlorobenzene	87-61-6	0.2	ND
1,2,4-Trichlorobenzene	120-82-1	0.2	ND
1,3,5-Trichlorobenzene	108-70-3	0.2	ND
1,2,3,4-Tetrachlorobenzene	634-66-2	0.2	ND
1,2,3,5-Tetrachlorobenzene	634-90-2	0.2	ND
1,2,4,5-Tetrachlorobenzene	95-94-3	0.2	ND
Pentachlorobenzene	608-93-5	0.2	ND
Hexachlorobenzene	118-74-1	0.2	ND
2-chlorotoluene	95-49-8	0.2	ND
3-chlorotoluene	108-41-8	0.2	ND
4-chlorotoluene	106-43-4	0.2	ND
2,3-dichlorotoluene	32768-54-0	0.2	ND
2,4-dichlorotoluene	95-73-8	0.2	ND
2,5-dichlorotoluene	19398-61-9	0.2	ND
2,6-dichlorotoluene	118-69-4	0.2	ND
3,4-dichlorotoluene	95-75-0	0.2	ND
3,5-dichlorotoluene	25186-47-4	0.2	ND
2,3,4-dichlorotoluene	7359-72-0	0.2	ND
2,3,6-trichlorotoluene	2077-46-5	0.2	ND
2,4,5-trichlorotoluene	6639-30-1	0.2	ND
2,4,6-trichlorotoluene	23749-65-7	0.2	ND
3,4,5-trichlorotoluene	21472-86-6	0.2	ND
2,3,4,5- tetra chlorotoluene	76057-12-0	0.2	ND
2,3,5,6- tetra chlorotoluene	29733-70-8	0.2	ND
2,3,4,6- tetra chlorotoluene	875-40-1	0.2	ND
Pentachlorotoluene	877-11-2	0.2	ND
	<b>Conclusion</b>	-	<b>DATA</b>

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(2C) 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	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
	<b>Conclusion</b>	-	<b>DATA</b>

"<" means "less than"; "ND" means "Not detected" ; "µg/L" means "microgram per litre;

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**(2D) Azo dyes / Amines:**

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	ND
Benzidine	92-87-5	0.1	ND
4-Chloro-o-Toluidine	95-69-2	0.1	ND
2-Naphthylamine	91-59-8	0.1	ND
o-Aminoazotoluene	97-56-3	0.1	ND
2-Amino-4-Nitrotoluene	99-55-8	0.1	ND
p-Chloroaniline	106-47-8	0.1	ND
2,4-Diaminoanisole	615-05-4	0.1	ND
4,4'-Diaminodiphenylmethane	101-77-9	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
3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	0.1	ND
p-Cresidine	120-71-8	0.1	ND
4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	0.1	ND
4,4'-Oxydianiline	101-80-4	0.1	ND
4,4'-Thiodianiline	139-65-1	0.1	ND
o-Toluidine	95-53-4	0.1	ND
2,4-Toluylenediamine	95-80-7	0.1	ND
2,4,5-Trimethylaniline	137-17-7	0.1	ND
o-Anisidine	90-04-0	0.1	ND
p-Aminoazobenzene	60-09-3	0.1	ND
2,4-Xylidine	95-68-1	0.1	ND
2,6-Xylidine	87-62-7	0.1	ND
	<b>Conclusion</b>	-	<b>DATA</b>

" &lt; " means "less than" ; "ND" means "Not detected" ; "µg/L" means "microgram per litre;

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(2E) 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	ND
Basic Red 9	569-61-9	500	ND
Basic Violet 14	632-99-5	500	ND
Direct Blue 6	2602-46-2	500	ND
Direct Red 28	573-58-0	500	ND
Direct Black 38	1937-37-7	500	ND
Disperse Blue 1	2475-45-8	500	ND
Disperse Blue 3	2475-46-9	500	ND
Disperse Orange 11	82-28-0	500	ND
Basic Blue 26 (with Michler's Ketone >0.1%)	2580-56-5	500	ND
Basic Green 4 (malachite green chloride)	569-64-2	500	ND
Basic Green 4 (malachite green oxalate)	2437-29-8	500	ND
Basic Green 4 (malachite green)	10309-95-2	500	ND
	<b>Conclusion</b>	-	<b>DATA</b>

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(2F) 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	ND
Disperse Blue 26	3860-63-7	50	ND
Disperse Blue 35	12222-75-2 56524-77-7	50	ND
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 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 9	6373-73-5	50	ND
Disperse Yellow 39	12236-29-2	50	ND
Disperse Yellow 49	54824-37-2	50	ND
	<b>Conclusion</b>	-	<b>DATA</b>

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**(2G) 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	ND
Pentabromo diphenyl ethers (PentaBDE)	32534-81-9	5	ND
Octabromo diphenyl ethers (OctaBDE)	32536-52-0	5	ND
Decabromo diphenyl ethers (DecaBDE)	1163-19-5	5	ND
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	5	ND
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	5	ND
Hexabromocyclododecane (HBCDD)	3194-55-6	5	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	5	ND
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	5	ND
Bis(2,3-dibromopropyl)phosphate (BIS)	5412-25-9	5	ND
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	13674-87-8	5	ND
2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	5	ND
Short Chain Chlorinated Paraffins (SCCP), C10-C13	85535-84-8	5	ND
	<b>Conclusion</b>	-	<b>DATA</b>

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(2H) 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	ND
2-ethoxyethanol	110-80-5	50	ND
2-ethoxyethyl acetate	111-15-9	50	ND
Ethylene glycol dimethyl ether	110-71-4	50	ND
2-methoxyethanol	109-86-4	50	ND
2-methoxyethylacetate	110-49-6	50	ND
2-methoxypropylacetate	70657-70-4	50	ND
Triethylene glycol dimethyl ether	112-49-2	50	ND
	<b>Conclusion</b>	-	<b>DATA</b>

"<" means "less than"; "ND" means "Not detected"; "µg/L" means "microgram per litre";

(2I) 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	ND
1,2-Dichloroethane	107-06-2	1	ND
Trichloroethylene	79-01-6	1	ND
Perchloroethylene	127-18-4	1	ND
	<b>Conclusion</b>	-	<b>DATA</b>

"<" means "less than"; "ND" means "Not detected"; "µg/L" means "microgram per litre";

(2J) 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	ND
Mono-, di- and tri-Butyltin derivatives	Multiple	0.01	ND
Mono-, di- and tri-Phenyltin derivatives	Multiple	0.01	ND
Mono-, di- and tri-octyltin derivatives	Multiple	0.01	ND
	<b>Conclusion</b>	-	<b>DATA</b>

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**(2K) PFCs (Perfluorocarbon / Polyfluorinated Compounds):**

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	ND
PFBS	29420-49-3 / 29420-43-3, 375-73-5	0.01	ND
6:2 FTOH	647-42-7	1	ND
8:2 FTOH	678-39-7	1	ND
PFOS (PFHXS)	1763-23-01	0.01	ND
PFHXA	307-24-4	0.01	ND
	<b>Conclusion</b>	-	<b>DATA</b>

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**(2L) 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	ND
Di(2-Ethyl Hexyl) Phthalate(DEHP)	117-81-7	10	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	10	ND
Di-Iso-Nonyl Phthalate (DINP)	28553-12-0	10	ND
Di-N-Octyl Phthalate (DNOP)	117-84-0	10	ND
Di-Iso-Decyl Phthalate (DIDP)	26761-40-0	10	ND
Di-Iso-Butyl Phthalate (DIBP)	84-69-5	10	ND
Di-N-Hexyl Phthalate (DNHP)	84-75-3	10	ND
Bis(2-methoxyethyl)phthalate (DMEP)	117-82-8	10	ND
1,2-Benzenedicarboxylic acid, Di-C7-11 Branched and Linear Alkyl Esters (DHNUP)	68515-42-4	10	ND
Di-Iso-Hexyl Phthalate (DIHP)	71888-89-6	10	ND
D-inonyl Phthalate (DNP)	84-76-4	10	ND
Diethyl Phthalate (DEP)	84-66-2	10	ND
Di-n-propyl Phthalate (DPrP)	131-16-8	10	ND
Di-cyclohexyl Phthalate (DCHP)	84-61-7	10	ND
Di-iso-octyl Phthalate (DIOP)	27554-26-3	10	ND
	<b>Conclusion</b>	-	<b>DATA</b>

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**(2M) 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	ND
Anthracene	120-12-7	1	ND
Pyrene	129-00-0	1	ND
Benzo[ghi]perylene	191-24-2	1	ND
Benzo[e]pyrene	192-97-2	1	ND
Indeno[1,2,3-cd]pyrene	193-39-5	1	ND
Benzo[j]fluoranthene	205-82-3	1	ND
Benzo[b]fluoranthene	205-99-2	1	ND
Fluoranthene	206-44-0	1	ND
Benzo[k]fluoranthene	207-08-9	1	ND
Acenaphthylene	208-96-8	1	ND
Chrysene	218-01-9	1	ND
Dibenz[a,h]anthracene	53-70-3	1	ND
Benzo[a]anthracene	56-55-3	1	ND
Acenaphthene	83-32-9	1	ND
Phenanthrene	85-01-8	1	ND
Fluorene	86-73-7	1	ND
Naphthalene	91-20-3	1	ND
	<b>Conclusion</b>	-	<b>DATA</b>

"<" means "less than"; "ND" means "Not detected"; "µg/L" means "microgram per litre";

**(2N) Volatile Organic Compounds, VOC:**

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

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

"<" means "less than"; "ND" means "Not detected"; "µg/L" means "microgram per litre";

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**Wastewater Before Treatment**



**Sample Photo(s):**

**Wastewater Before Treatment**



**GPS for this point (if available); Latitude: 23.948049<sup>o</sup>, Longitude: 90.270940<sup>o</sup>**

**Sampling Point Photo(s):**

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Sampling Point Photo(s):



Foam Picture at 3.53pm, 10 Feb. 2022

GPS for this point (if available); Latitude: 23.948049<sup>0</sup>, Longitude: 90.270940<sup>0</sup>

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Feb.20,2022

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1001458898  
**UL Wastewater Test Request Form**

Contact information: M: +88-01730087200, +88-01730087201, Email: [ul@ulvsbangladesh.com](mailto:ul@ulvsbangladesh.com)  
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-1205, Bangladesh

Regular Service (DETOX & ZDHC)		Regular Service (selective test)		For UL office use only	
<input checked="" type="checkbox"/> 10-12 Working Days** - Regular Price	<input checked="" type="checkbox"/> 5-7 Working Days** - Regular Price	Log In Date:			
<input checked="" type="checkbox"/> *Express Service (selective test)	<input checked="" type="checkbox"/> *Emergency Service (selective test)	Customer PO : 5300001110	Report No.:	14210888	
<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: Uttam Kumar Debnath		Email 1: <a href="mailto:uttam@fci.bd.com">uttam@fci.bd.com</a>	
Company Name: FCI (BD) LTD		Email 2: <a href="mailto:masc1.ahmed@fci.bd.com">masc1.ahmed@fci.bd.com</a>	
Address: PLOT-36-39, DEPZ, GANAKBARI, SAVAR, DHAKA BANGLADESH		Email 3: <a href="mailto:arifzaman@fci.bd.com">arifzaman@fci.bd.com</a>	
Mobile Phone: +880 1718819353		Email 4: <a href="mailto:husan.mia@fci.bd.com">husan.mia@fci.bd.com</a>	

Sampling Location		Sampling Description		Reference		Billing Information	
<input type="checkbox"/> Incoming Water	<input checked="" type="checkbox"/> Discharge Water	6 hrs time-weighted composite sampling for wastewater of FCI (BD) LTD		<input type="checkbox"/> Buyer	<input checked="" type="checkbox"/> Manufacturer		
<input checked="" type="checkbox"/> Wastewater	<input type="checkbox"/> Sludge			<input checked="" type="checkbox"/> Self-Reference	<input type="checkbox"/> Buyer/Agent		
<input type="checkbox"/> Drain	<input type="checkbox"/> Grade 3 Water	Sample Color		Bill to Person		Uttam Kumar Debnath	
<input type="checkbox"/> Drinking Water	<input type="checkbox"/>	Wastewater before ETP Treatment		Company		FCI (BD) LTD	
				Email Address		<a href="mailto:uttam@fci.bd.com">uttam@fci.bd.com</a>	

<b>General Chemistry</b>					
<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 (ADMI or 150 CO-PT)			
<input type="checkbox"/> Total Dissolved Solid (TDS)	<input type="checkbox"/> Dissolved Oxygen (DO)	<input type="checkbox"/> Electrical Conductivity (EC)			
<b>Detox Parameter</b>					
<input type="checkbox"/> Alkylphenols (AP) and Alkylphenol Ethoxylates (APEO)	<input type="checkbox"/> Chlorobenzenes and Chlorotoluenes	<input type="checkbox"/> Glycols			
<input type="checkbox"/> Phthalates	<input type="checkbox"/> Chlorinated Solvents and Other VOCs	<input type="checkbox"/> Biocides			
<input type="checkbox"/> Flame Retardants	<input type="checkbox"/> Chlorophenols	<input type="checkbox"/> Orthophenylphenol (OPP)			
<input type="checkbox"/> Azo dyes / Amines	<input type="checkbox"/> Chlorinated Paraffins (CCPs)	<input type="checkbox"/> Nitrosamines			
<input type="checkbox"/> Organotin Compounds	<input type="checkbox"/> Heavy Metals	<input type="checkbox"/> Polycyclic Aromatic Hydrocarbons (PAHs)			
<input type="checkbox"/> Perfluorocarbons and Polyfluorinated Compounds (PFs)	<input type="checkbox"/> Carcinogenic and Allergic Dispersed Dyes	<input type="checkbox"/> Dimethylfumarate (DMFu) and Dimethylformamide (DMFA)			
<b>ZDHC Parameter / GRS Standard / Sludge** / OEKO-TEX</b>					
<input type="checkbox"/> Temperature [°C] *	<input type="checkbox"/> Colour (m-1) (436nm, 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"/> Ammonium-N	<input type="checkbox"/> Coliform (bacteria/100 ml)			
<input type="checkbox"/> Total-N	<input type="checkbox"/> Total-P	<input type="checkbox"/> Nonsterile Foam			
<input type="checkbox"/> pH	<input type="checkbox"/> AOX	<input type="checkbox"/> Cyanide**			
<input type="checkbox"/> Sulfide	<input type="checkbox"/> Sulfite	<input type="checkbox"/> Arsenic**			
<input type="checkbox"/> Antimony**	<input type="checkbox"/> Nickel	<input type="checkbox"/> Cadmium**			
<input type="checkbox"/> Chromium, total	<input type="checkbox"/> Silver	<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 (total solids)**			
<input type="checkbox"/> Alkylphenols (AP) and Alkylphenol Ethoxylates (APEO)	<input type="checkbox"/> Organotin Compounds	<input type="checkbox"/> Chlorophenols			
<input type="checkbox"/> Phthalates	<input type="checkbox"/> Perfluorocarbons and Polyfluorinated Compounds (PFs)	<input type="checkbox"/> Glycols			
<input type="checkbox"/> Flame Retardants	<input type="checkbox"/> Chlorobenzenes and Chlorotoluenes	<input type="checkbox"/> Polycyclic Aromatic Hydrocarbons (PAHs)			
<input type="checkbox"/> Azo dyes / Amines	<input type="checkbox"/> Chlorinated Solvents and Other VOCs				


**Additional Instruction:**

ZDHC Conventional Parameter 1A-1B

ZDHC MRSL Parameter 2A-2N

Name and position of factory representative: Uttam Kumar Debnath

Signature/Signature



10/02/22

WASTEWATER TEST APPLICATION FORM-V (24 NOV 2019)

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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 Pingsten 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.