T E S T R E P O R T N O : 1002734679 **Jun. 25, 2025**

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Factory:	CTA APPARELS PVT. LTD.	**Sampling Date:**	May.28,2025
Address:	UNIT-C 32, SECTOR 58, NOIDA UTTAR PRADESH 201301, INDIA	**Laboratory Received Date:**	May.28,2025
Contact Person:	Mr. Dharmendra Sharma	**Test Date:**	May.28,2025-Jun.25,2025
Reference Testing Protocol:	ZDHC Wastewater Guidelines Version 2.2	**Laboratory Received Temperature:**	Untreated Wastewater: 7.5°C Effluent: 7.2°C Sludge: 7.3°C
Reference Sample Handling Method:	ZDHC Sampling and Analysis Plan (SAP) Version 2.1	**Sampling Time (Untreated Wastewater/ Effluent):**	11.30 am-5:30 pm
Buyer Name:	/	**Sampling Time Sludge:**	Grab: 13.30 pm
Sampler accreditation certification number (ZDHC):	C74D106817539	**Discharge Method:**	In-Direct Discharge
Sludge Disposal Pathway:	A – Offsite Incineration at <1000^{0}C	**Sample Collected By:**	UL INDIA PRIVATE LIMITED.

Sample Information:

Sample ID	Description	Equivalent Code / Color
001	Untreated Wastewater	Lt. White Water as Composite sample
002	Effluent/Treated Wastewater	Transparent Water as Composite sample
003	Sludge	White as Single Grab Sampling

FOR AND ON BEHALF OF
UL INDIA PRIVATE LIMITED

Shashi Bhusan Rout- LABORATORY OPERATIONS MANAGER

Test Table	Executive Summary	Result		
1A-1T	**Untreated Wastewater Parameters:**	001	002	003
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	NA	/	/
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	/
3	**Conventional Parameters and Anions for Effluent/ Treated Wastewater:**			
	pH Value	/	PASS	/
	Temperature Deference	/	PASS	/
	E. coli ♦	/	PASS	/
	Colour (436nm, 525nm, 620nm)	/	PASS	/
	Persistent Foam	/	PASS	/
	Wastewater Flowrate	/	See Result	/
	Ammonium-Nitrogen	/	PASS	/
	Absorbable Organic Halogens (AOX)	/	PASS	/
	Biological Oxygen Demand (BOD) (5-day)	/	PASS	/
	Chemical Oxygen Demand (COD)	/	PASS	/
	Dissolved Oxygen (DO)	/	See Result	/
	Oil & Grease	/	PASS	/
	Total Phenols / Phenol Index	/	PASS	/

	Total Chlorine	/	See Result	/
	Total Dissolved Solids (TDS)	/	See Result	/
	Total Nitrogen	/	PASS	/
	Total Phosphorus	/	PASS	/
	Total Suspended Solids (TSS)	/	PASS	/
	Chloride♦	/	See Result	/
	Cyanide, total	/	PASS	/
	Sulfate♦	/	See Result	/
	Sulfide	/	PASS	/
	Sulfite	/	PASS	/
4A	**Sludge Parameters:**			
	Total Metals	/	/	PASS
	Cyanide	/	/	PASS
	pH Value	/	/	See Result
	% Solids (Dry mass)	/	/	See Result
	Paint Filter Test	/	/	See Result
	Faecal Coliform ♦	/	/	Not Applicable
	Alkylphenol (AP) & Alkylphenol ethoxylates (APEOs)	/	/	PASS
	Polycyclic Aromatic Hydrocarbons (PAHs)	/	/	PASS
	Chloro-Toluene's	/	/	PASS

Remark

1. The results relate only to the samples tested.
2. ND"=Not Detected, "NA"=Not Applicable,
3. ** = test result(s) will be added later
4. ♦ Marked test was subcontracted to an ISO 17025:2017 accredited laboratory.
5. The client having the facility of Indirect discharge with pretreatment but he requested to perform the test as per Direct discharge.

(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, Ref BS EN 12673-1999

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				

(1C) Chlorinated Paraffins:

Standard Method for Analysis/Testing: Preparation: USEPA 527:2005,ISO Dichloromethane extraction GC/MS 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 8260B, 8270D, 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			

(1E) Chlorophenols:

Standard Method for Analysis/Testing: USEPA 8270D Solvent extraction, derivatisation with KOH, acetic anhydride followedby GC-MS, ISO 14154

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			

(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			

(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	This group is not applicable for testing wastewater 2.2		
Component 2: C46H-30CrN10O20S2 3Na			
Conclusion			**Not Applicable**
"<" 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			

(1J) Flame retardants:

Standard Method for Analysis/Testing: USEPA 8270E, ISO 22032, USEPA 527 and USEPA 8321B

Dichloromethaneextraction GC-MS or LC-MS(-MS)

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
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-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			

(1L) Halogenated Solvents:

Standard Method for Analysis/Testing: USEPA 8260 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			

(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: DIN 38407-42:2011,IONIC PFCs: Concentration or Direct Injection, LCMSMS,NON-IONIC-Derivatisation with acetic anhydride followed by GCMS

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				

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

Standard Method for Analysis/Testing: USEPA 8270D, 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 liearalkyl esters , C7-rich (DIHP)	71888-89-6 84777-06-0	10	ND
1,2-benzenedicarboxylic acid, di-C7-11 branched and liearalkyl 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			

(1Q) Polycyclic Aromatic Hydrocarbons (PAHs):

Standard Method for Analysis/Testing: USEPA 8270D 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			

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

Standard Method for Analysis/Testing: EN 14362-1& 3:2017,Reduction step with sodium dithionite, solvent Extraction GCMS/LCMSMS

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 ydrochloride	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-dimethoxylbenzidine	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			

(1S) UV Absorbers:

Standard Method for Analysis/Testing: DIN EN 62321-6,Solvent Extraction followed by GCMS/LCMSMS
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: Standard Method for Analysis/Testing: ISO 11423-1 Headspace or Purge and trap GC-MS USEPA 8260D,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.			

(2) Heavy Metals:
Standard Method for Analysis/Testing: With reference to USEPA 200.7:1994, USEPA 200.8:1994, USEPA6010c:2000, USEPA6020a:1998, Acid Digestion with ICP analysisFor CrVI- USEPA218.6, EPA 200.8-SIM EPA 6020A-SIM EPA 245.1 EPA 245.7 with reference to USEPA 218.6:1994 derivatisation followed by UV analysis, ISO 18412:2005

Substance name	CAS No.	Detection limit, mg/L	Result, mg/L (002)	Limit, mg/L	Conclusion
Total Antimony (Sb)	7440-36-0	0.01	ND	Foundational 0.1 Progressive 0.05 Aspirational 0.01	PASS
Hexavalent Chromium (Cr-VI)	18540-29-9	0.001	ND	Foundational 0.05 Progressive 0.005 Aspirational 0.001	
Total Arsenic (As)	7440-38-2	0.005	ND	Foundational 0.05 Progressive 0.01 Aspirational 0.005	
Total Chromium (Cr)	7440-47-3	0.05	ND	Foundational 0.2 Progressive 0.1 Aspirational 0.05	
Total Cobalt (Co)	7440-48-4	0.01	ND	Foundational 0.05 Progressive 0.02 Aspirational 0.01	
Total Cadmium (Cd)	7440-43-9	0.01	ND	Foundational 0.1 Progressive 0.05 Aspirational 0.01	
Total Copper (Cu)	7440-50-8	0.25	ND	Foundational 1.0 Progressive 0.5 Aspirational 0.25	
Total Lead (Pb)	7439-92-1	0.01	ND	Foundational 0.1 Progressive 0.05 Aspirational 0.01	
Total Nickel (Ni)	7440-02-0	0.05	ND	Foundational 0.2 Progressive 0.1 Aspirational 0.05	
Total Silver (Ag)	7440-22-4	0.005	ND	Foundational 0.1 Progressive 0.05 Aspirational 0.005	
Total Zinc (Zn)	7440-66-6	0.5	ND	Foundational 5.0 Progressive 1.0 Aspirational 0.5	
Total Mercury (Hg)	7439-97-6	0.001	ND	Foundational 0.01 Progressive 0.005 Aspirational 0.001	
Total Barium (Ba)	7440-39-3	0.5	ND	/	
Total Selenium (Se)	7782-49-2	0.5	ND	/	
Total Tin (Sn)	7440-31-5	0.5	ND	/	
"<" 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.					

(3) Conventional Parameters and Anions:

pH Value:

Standard Method for Analysis/Testing: ISO 10523/IS 3025-11

Sample ID	Result	Limit	Conclusion
002	7.2	6 - 9	**PASS**
Recommended Holding Time: Measured in the field. Maximum Holding Time: 6-hours.			

Temperature difference:

Standard Method for Analysis/Testing: USEPA 170.1,

Sample ID	Detection limit(ºC)	Result (ºC)		Limit, ºC	Conclusion
002	0.1ºC	Temperature difference (°C)	1.1	Foundational Δ+15 Progressive Δ+10 Aspirational Δ+5	**PASS**
		Temperature-Discharge Pipe (°C)	28.2		
		Temperature-Receiving Water (°C)	27.1		
"<" means "less than" ; "ºC" Means "Degree Celsius"					
Recommended Holding Time: Measured in the field. Maximum Holding Time: 15-Mins.					

E. coli:

Standard Method for Analysis/Testing: APHA 23rd 9221.B & E

Sample ID	Detection limit, MPN/100 ml	Result, MPN/100 ml	Limit, MPN/100 ml	Conclusion
002	5	<5.0	126 MPN/100 ml	**PASS**
"<" means "less than" ; "MPN" means "Most Probable Number"				
Recommended Holding Time: 6-Hours. Maximum Holding Time: 24-Hours.				

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

Standard Method for Analysis/Testing: In-house Method, ISO 7887-B

Sample ID	Detection limit (m-1)		Result (m-1)	Limit, (m-1)			Conclusion
				Foundation	Progressive	Aspirational	
002	436 nm	<1	<1	7	5	2	**PASS**
	525 nm	<1	<1	5	3	1	
	620 nm	<1	<1	3	2	1	
"<" means "less than" ;							
Recommended Holding Time: NA Maximum Holding Time: 48-Hours.							

Persistent Foam:

Standard Method for Analysis/Testing: Visual Analysis

Sample ID	Result	Limit	Conclusion
002	Absent	Absent	**PASS**
Recommended Holding Time: Measured in the field. Maximum Holding Time: NA			

Wastewater Flowrate:

In-House with Reference to ZDHC Guideline

Sample ID	Result, m3 per day	Minimum Limit, m3 per day	Conclusion
002	26.79	15	**DATA**
"<" means "less than" ;			
Recommended Holding Time: NA Maximum Holding Time: NA			

Ammonium-Nitrogen:

Standard Method for Analysis/Testing: ISO 11732,

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	0.5	<0.5	Foundational 10 Progressive 1 Aspirational 0.5	**PASS**
"<" means "less than" ; "mg/L" means "milligram per litre;				
Recommended Holding Time: 7-days. Maximum Holding Time: 28-days.				

Absorbable Organic Halogens (AOX):

Standard Method for Analysis/Testing: ISO 9562

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	0.1	<0.1	Foundational 3.0 Progressive 0.5 Aspirational 0.1	**PASS**
"<" means "less than" ; "mg/L" means "milligram per litre;				
Recommended Holding Time: NA Maximum Holding Time: 6-Months.				

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

Standard Method for Analysis/Testing: ISO 5815-1,/IS 3025-44

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	2	17	Foundational 30 Progressive 15 Aspirational 8	**PASS**
"<" means "less than" ; "mg/L" means "milligram per litre;				
Recommended Holding Time: 6-Hours Maximum Holding Time: 48-Hours.				

Chemical Oxygen Demand (COD):

Standard Method for Analysis/Testing: ISO 6060/ IS 3025-58

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	5	49	Foundational 150 Progressive 80 Aspirational 40	**PASS**
"<" means "less than" ; "mg/L" means "milligram per litre;				
Recommended Holding Time: 7-days. Maximum Holding Time: 28-days.				

Dissolved Oxygen (DO):

Standard Method for Analysis/Testing: ISO 5814, EPA 360.1, SM 4500-O-G

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	1	3.1	/	**DATA**
"<" means "less than" ; "mg/L" means "milligram per litre				
Recommended Holding Time: Measured in the field. Maximum Holding Time: 15-Mins.				

Oil & Grease:

Standard Method for Analysis/Testing: USEPA 1664 revision B

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	0.5	<0.5	Foundational 10.0 Progressive 2.0 Aspirational 0.5	**PASS**
"<" means "less than" ; "mg/L" means "milligram per litre;				
Recommended Holding Time: NA Maximum Holding Time: 28-days.				

Total Phenols / Phenol Index:

Standard Method for Analysis/Testing: ISO 14402/IS 3025-11

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	0.001	<0.001	Foundational 0.5 Progressive 0.01 Aspirational 0.001	**PASS**
"<" means "less than" ; "mg/L" means "milligram per litre;				
Recommended Holding Time: 24-Hours. Maximum Holding Time: 28-Days.				

Total Chlorine:

Standard Method for Analysis/Testing: DPD Colorimetric Method with reference ISO 7393-2/EPA 330.5/SM4500-Cl G

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	0.1	3.1	/	**DATA**
"<" means "less than" ; "mg/L" means "milligram per litre;				
Recommended Holding Time: Measured in the field. Maximum Holding Time: 15-Mins.				

Total Dissolved Solids (TDS):

Standard Method for Analysis/Testing: USEPA 160.1

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	5	221	/	**DATA**
"<" means "less than" ; "mg/L" means "milligram per litre;				
Recommended Holding Time: 24-Hours. Maximum Holding Time: 7-Days.				

Total Nitrogen:

Standard Method for Analysis/Testing: ISO 5663/IS 3025-34

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	5	<5	Foundational 20 Progressive 10 Aspirational 5	**PASS**
"<" means "less than" ; "mg/L" means "milligram per litre;				
Recommended Holding Time: NA Maximum Holding Time: 28-Days.				

Total Phosphorus:

Standard Method for Analysis/Testing: ISO 6878/ IS 3025-31

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	0.1	<0.1	Foundational 3.0 Progressive 0.5 Aspirational 0.1	**PASS**
"<" means "less than" ; "mg/L" means "milligram per litre;				
Recommended Holding Time: NA Maximum Holding Time: 28-Days.				

Total Suspended Solids (TSS):

Standard Method for Analysis/Testing: ISO 11923/IS 3025-17

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	5	<5	Foundational 50 Progressive 15 Aspirational 5	**PASS**
"<" means "less than" ; "mg/L" means "milligram per litre;				
Recommended Holding Time: 24-Hours. Maximum Holding Time: 7-Days.				

Chloride♦:

Standard Method for Analysis/Testing: IS 3025-32

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	10	520	/	**DATA**
"<" means "less than" ; "mg/L" means "milligram per litre;				
Recommended Holding Time: NA. Maximum Holding Time: 28-days.				

Cyanide, total:

Standard Method for Analysis/Testing: ISO 6703-1/IS 3025-27

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	0.05	<0.05	Foundational 0.2 Progressive 0.1 Aspirational 0.05	**PASS**
"<" means "less than" ; "mg/L" means "milligram per litre;				
Recommended Holding Time: 24-Hours Maximum Holding Time: 14-Days.				

Sulfate♦:

Standard Method for Analysis/Testing IS 3024-24

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	10	56	/	**DATA**
"<" means "less than" ; "mg/L" means "milligram per litre;				
Recommended Holding Time: NA Maximum Holding Time: 28-Days.				

Sulfide:

Standard Method for Analysis/Testing: ISO 10530/IS 3025-29

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	0.01	<0.01	Foundational 0.5 Progressive 0.05 Aspirational 0.01	**PASS**
"<" means "less than" ; "mg/L" means "milligram per litre;				
Recommended Holding Time: NA Maximum Holding Time: 7-Days.				

Sulfite:

Standard Method for Analysis/Testing: ISO 10304-3/IS 3025-28

Sample ID	Detection limit, mg/L	Result, mg/L	Limit, mg/L	Conclusion
002	0.2	<0.2	Foundational 2.0 Progressive 0.5 Aspirational 0.2	**PASS**
"<" means "less than" ; "mg/L" means "milligram per litre;				
Recommended Holding Time: NA Maximum Holding Time: 48-Hours.				

(4A) Sludge Parameters:

Total Metals:
Standard Method for Analysis/Testing: In-house Method, Preparation: With reference to USEPA 200.7:1994, USEPA 200.8:1994, USEPA6010c:2000, USEPA6020a:1998, Acid Digestion with ICP analysisFor CrVI- USEPA218.6, EPA 200.8-SM EPA 6020A-SIM EPA 245.1 EPA 245.7 with reference to USEPA 218.6:1994 derivatisation followed by UV analysis, ISO 18412:2005

Substance name	CAS No.	Detection limit, mg/kg	Result, mg/kg (003)	Reporting limit, mg/kg	Conclusion
Total Antimony (Sb)	7440-36-0	2	3.8	5	PASS
Total Arsenic (As)	7440-38-2	2	ND	5	
Total Barium (Ba)	7440-39-3	10	124	200	
Total Cadmium (Cd)	7440-43-9	0.5	ND	1	
Total Cobalt (Co)	7440-48-4	10	ND	400	
Total Copper (Cu)	7440-50-8	10	41	50	
Total Lead (Pb)	7439-92-1	2	ND	5	
Total Nickel (Ni)	7440-02-0	5	14	20	
Total Selenium (Se)	7782-49-2	2	ND	5	
Total Silver (Ag)	7440-22-4	10	ND	50	
Total Chromium (Cr)	7440-47-3	2	15	50	
Total Zinc (Zn)	7440-66-6	10	304	400	
# Hexavalent Chromium (Cr-VI)	18540-29-9	2	ND	20	
Total Mercury (Hg)	7439-97-6	0.05	ND	1	

"<" means "less than" ; "ND" means "Not detected" ; "mg/kg" means "milligram per kilogram"

Hexavalent Chromium (Cr-VI) is reported as Total Chromium Content. Hexavalent Chromium (Cr-VI) value will not exceed Total Chromium Content.

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.

Cyanide:

Standard Method for Analysis/Testing: Preparation: CN converted to HCN by reflux-distillation to NaOH Analysis: Colourimetry (EPA 9014), or ISE (EPA 9213)

Sample ID	Detection limit, mg/kg	Result, mg/kg	Limit, mg/kg	Conclusion
003	1	<1	20	PASS

"<" means "less than" "mg/kg" means "milligram per kilogram"

Recommended Holding Time: 24-Hours.
Maximum Holding Time: 14-Days.

pH Value:

Standard Method for Analysis/Testing: with Ref. ISO 10523/IS 3025-11

Sample ID	Result	Limit	Conclusion
003	7.2	/	**DATA**
Recommended Holding Time: 15-Mins. Maximum Holding Time: 24-Hours.			

% Solids (Dry Mass):

Standard Method for Analysis/Testing: Dry at 105°C

Sample ID	Result (%)	Limit, (%)	Conclusion
003	83	/	**DATA**
Recommended Holding Time: 2-Days. Maximum Holding Time: 7-Days.			

Paint Filter Test:

Standard Method for Analysis/Testing: EPA SW-846 or EPA 9095B

Sample ID	Result	Limit	Conclusion
003	Absent	/	**DATA**
Recommended Holding Time: 2-Days. Maximum Holding Time: 7-Days.			

Faecal Coliform♦

Standard Method for Analysis/Testing: APHA 23rd 9221.B & E

Sample ID	Detection Limit (MPN/g)	Result (MPN/g)	Limit (MPN/g)	Conclusion
N/A-As disposal Pathways A				
"<" means "less than" "MPN/g" means "Most Probable Number per gram"				
Recommended Holding Time: 6-Hours. Maximum Holding Time: 24-Hours.				

Alkylphenol (AP) & Alkylphenol Ethoxylates (APEOs)

Standard Method for Analysis/Testing: With reference to USEPA 200.7:1994, USEPA 200.8:1994, USEPA 6010c:2000, USEPA6020a:1998, Acid Digestion with ICP analysisFor CrVI- USEPA218.6, EPA 200.8-SIM EPA 6020A-SIM EPA245.1 EPA 245.7 with reference to USEPA 218.6:1994 derivatisation followed by UV analysis, ISO 18412:2005

Detection Limit: 0.4 mg/kg

Substance name	CAS No.	Reporting limit, mg/kg	Result, mg/kg (003)
Nonylphenol ethoxylates (NPEO)	9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0	0.4	ND
Nonylphenol (NP), mixed isomers	104-40-5, 11066-49-2 25154-52-3, 84852-15-3	0.4	ND
Octylphenol ethoxylates (OPEO)	9002-93-1, 9036-19-5, 68987-90-6	0.4	ND
Octylphenol (OP), mixed isomers	140-66-9, 1806-26-4, 27193-28-8	0.4	ND
Conclusion			**PASS**
"<" means "less than" ; "ND" means "Not detected" ; "mg/kg" means "milligram per kilogram"			
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

Polycyclic Aromatic Hydrocarbons (PAHs)

Standard Method for Analysis/Testing: Dichloromethane extraction with mechanical agitation, soxhlet, or unltrasonic ,Clean up: GPC, Analysis: GC-MS/ Preparation with reference to USEPA 8270D, DIN 38407-39 Solvent extraction GC-MSDetection Limit: 0.2 mg/kg

Substance name	CAS No.	Reporting limit, mg/kg	Result, mg/kg (003)
Bezno[a]pyrene (BaP)	50-32-8	0.2	ND
Anthracene	120-12-7	0.2	ND
Pyrene	129-00-0	0.2	ND
Benzo[ghi]perylene	191-24-2	0.2	ND
Benzo[e]pyrene	192-97-2	0.2	ND
Indeno[1,2,3-cd]pyrene	193-39-5	0.2	ND
Benzo[j]fluoranthene	205-82-3	0.2	ND
Benzo[b]fluoranthene	205-99-2	0.2	ND
Fluoranthene	206-44-0	0.2	ND
Benzo[k]fluoranthene	207-08-9	0.2	ND
Acenaphthylene	208-96-8	0.2	ND
Chrysene	218-01-9	0.2	ND
Dibenz[a,h]anthracene	53-70-3	0.2	ND
Benzo[a]anthracene	56-55-3	0.2	ND
Acenaphthene	83-32-9	0.2	ND
Phenanthrene	85-01-8	0.2	ND
Fluorene	86-73-7	0.2	ND
Naphthalene	91-20-3	0.2	ND
Conclusion			**PASS**
"<" means "less than" ; "ND" means "Not detected" ; "mg/kg" means "milligram per kilogram"			
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

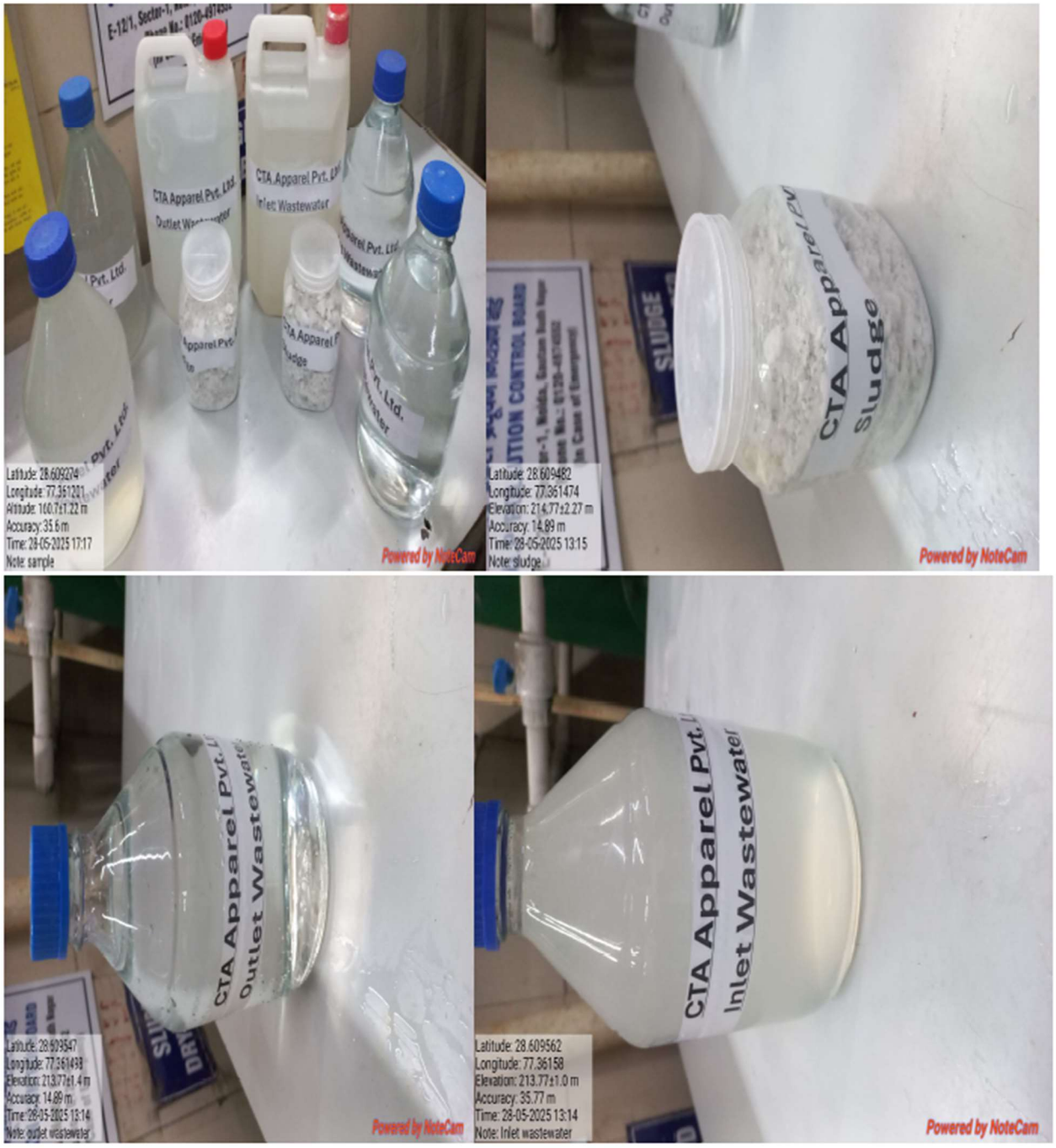
Chloro-Toluene's

Standard Method for Analysis/Testing: Preparation: Dichloromethane extraction with mechanical agitation, soxhlet, or unltrasonic,Clean up: GPC, Analysis: GC-MS, with reference Standard Method for Analysis/Testing: USEPA 8260B, 8270D, Dichloromethane extraction followed by GC- MS

Detection Limit: 0.2 mg/kg

Substance name	CAS No.	Reporting limit, mg/kg	Result, mg/kg (003)
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
Conclusion			**PASS**
"<" means "less than" ; "ND" means "Not detected" ; "mg/kg" means "milligram per kilogram"			
Recommended Holding Time: NA Maximum Holding Time: Extraction: 7-days from collection; Analysis: 40-days from extraction			

Sample Image



The End

Appendix E

ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration

Sampling Collection Information

Sampling Location: CTA Apparels Pvt Ltd.

Sampling Device Description/Owner: unit sec 58 C-32 Noida.

Sampling Mode: ☐ Autosampler ☐ Manual

Start Time: 12:00

Stop Time: 6:00

Sampler Information

Date: 28-05-2025

Sampler Name/Email: Jai Singh (Jai.Singh@ULS...)

Sampler ZDHC Accredited no.:

ZDHC Composite Sample Code: 001

ZDHC Wastewater Flow Device Dimensions

Measurement (cm)	Meter	Pipe (O)	Flume (U)	Wier (V)
Diameter	NA			
Depth	NA	NA	NA	

ZDHC Wastewater Sampling - Facility Confirmation

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

Facility Name: CTA Apparels Pvt Ltd

Facility Representative Name: YOGENDRA SINGH

Facility Representative Signature and stamp:

Sampler's Name: Jai Singh

Sampler's ZDHC Accreditation:

Sampler's Signature: Singh 28.05.2025

CTA APPARELS PVT. LTD. Auth. Sign. C-32, Sec-58 28/05/2025

ZDHC Wastewater Sampling Field Testing QA/QC

Parameter	LCS Known	LCS Measured	Accuracy %
pH	7.0	7.2	102.8
Total Chlorine			

ZDHC Wastewater Sample Collection Field Test Measurements

Sampling Time (Hours)	Temperature (°C)		pH (Units)	Dissolved Oxygen (mg/L)	Total Chlorine (mg/L)	Persistent Foam (Yes/No)	Wastewater Flow meter (L/min)	Alternate measured Flow	
	Wastewater Discharge	Receiving Water						Depth (cm)	Velocity (cm/sec)
0									
1	28	27	7.5	3	4	No			
2	29	28	7.2	5	3	No			
3	29	26	7.3	4	4	No			
4	28	29	7.4	2	2	No			
5	30	26	7.2	3	3	No			
6	29	27	7.1	2	3	No			
Ave*	28.8	27.1	7.2	3.1	3.1	No			

*reported with lab data

SAMPLING COLLECTION REQUEST FORM

UL Solutions

Customer:	CTA Apparels Pvt. Ltd. Unit Sector 58.
Facility (Address):	C-32 Sector 58 Noida.
Phone	9818788807 ☐ Date: 28-05-2024
Contact name	Dharmendra Sharma
Type of activity:	☒ Textile ☐ Leather ☐ _____

DEFINITION

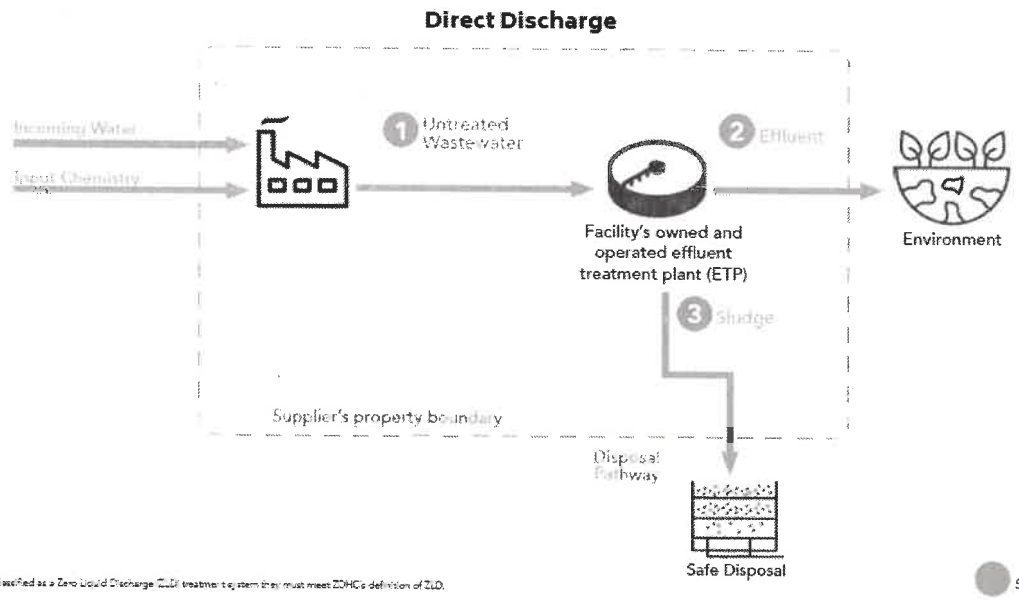
Untreated Wastewater - (previously referred to as 'Raw wastewater'), Wastewater that is collected prior to any treatment.

Effluent - treated or partially treated wastewater that leaves the facility boundary.

Sludge - the residual solid, semisolid, or slurry material generated as a by-product of wastewater treatment processes, including primary, secondary and tertiary (ZLD) treatments.

Direct Discharge - A point source that discharges wastewater to streams, lakes, oceans, or other receiving bodies. Distribution of wastewater into land is also considered a type of direct discharge. Municipal bodies and suppliers that introduce pollution through a defined conveyance or system such as outlet pipes are direct dischargers.

Figure 2a: Schematic illustration of the Sample Locations for a Direct Discharge Supplier. **Sampling locations:** *Untreated Wastewater, Effluent, Sludge.*



[1] For suppliers to be classified as a Zero Liquid Discharge (ZLD) treatment system they must meet ZDHC's definition of ZLD.

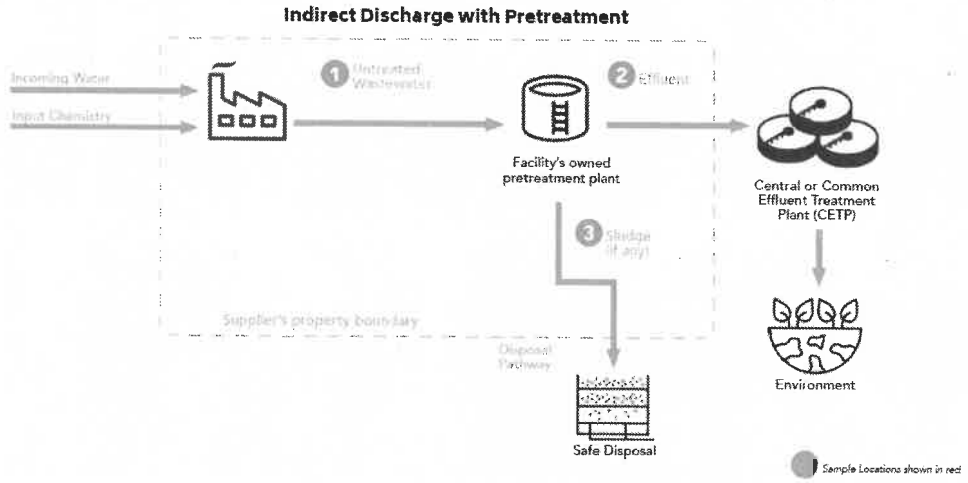
Extract from the LWW 2.1 ZDHC guidelines

Indirect Discharge - The discharge of wastewater through an industrial wastewater sewer system to a central or common effluent treatment plant (CETP), not owned and/or operated by the supplier discharging the wastewater. CETP is also referred to as off-site wastewater treatment, and there are two main models of Indirect discharge:

- With pretreatment where wastewater is collected, mixed and then treated using physical, chemical or biological processes prior to discharge to CETP.

  Note: Screening/filtration with size < 6 mm and pH correction are considered treatments.

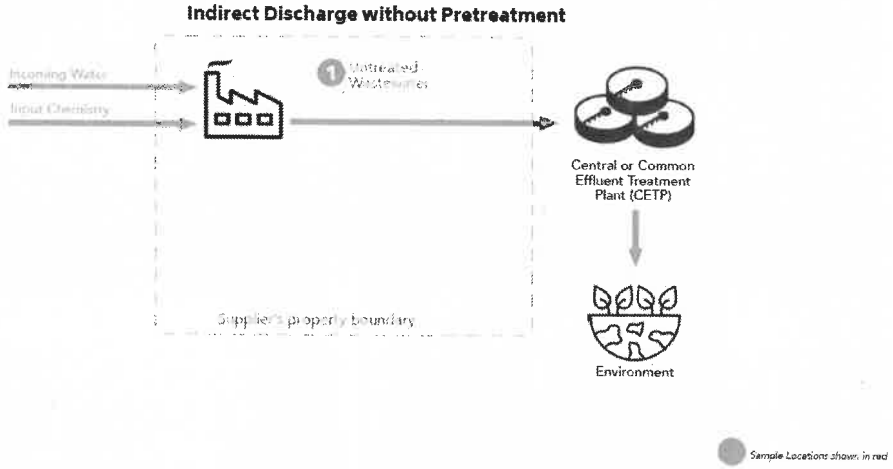
Figure 2b. Schematic illustration of the Sample Locations for an Indirect Discharge with pretreatment Supplier. **Sampling locations:** *Untreated Wastewater, Effluent, Sludge.*



Extract from the LWW 2.1 ZDHC guidelines

- Without pretreatment where the wastewater goes directly from processing to the CETP.

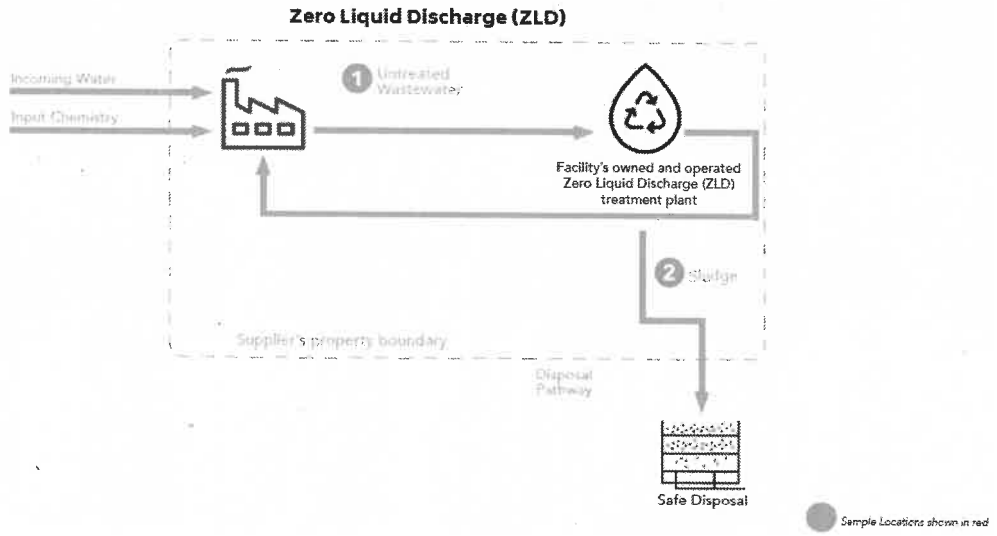
Figure 2c: Schematic illustration of the Sample Locations for an Indirect Discharge without pretreatment Supplier. **Sampling locations:** *Untreated Wastewater.*



Extract from the LWW 2.1 ZDHC guidelines

Zero Liquid Discharge (ZLD) - The concept that no industrial wastewater or effluent leaves a supplier's site in liquid form. On-site ZLD treatment system treats and recovers almost all wastewater such that the only water lost is through evaporation or as moisture in the sludge from treatment plant operations. A supplier is not considered to have a ZLD treatment system if there is any industrial liquid discharge.

Figure 2a: Schematic illustration of the Wastewater Discharge Types and Sample Locations. **Sampling locations:** *Untreated Wastewater, Sludge.*



Extract from the LWW 2.1 ZDHC guidelines

Fill in the fields below

Suppliers that generate on average:

- [x] equal to, or more than 15m³ of industrial wastewater per day (>= 15m³/day)
- [ ] less than 15m³ of industrial wastewater per day (< 15m³/day)

Wet processing:

Days: from Monday to Saturday

Hours: from 8:30 AM to 5:00 PM

- [ ] **Direct Discharge**
- [x] **Indirect Discharge With Pretreatment**
- [ ] **Indirect Discharge Without Pretreatment**
- [ ] **Zero Liquid Discharge (ZLD)**

Description of the type of wastewater

- [ ] **Industrial Wastewater**
- [ ] **Industrial Wastewater mixed with Domestic Wastewater**

Total Industrial Wastewater generated over a 12-month period _____ (m³)

Total working days in a 12-month period 303

(Intended to the full days of which Industrial Wastewater is generated)

INCOMING WATER *(Water supplied to a wet manufacturing process. Note: We need to sample untreated water (es. Desalinated water, etc.).*

Attach the image of the sampling point

Sampling point name:	

Indicate the type of water that feeds the wet production line:

- [ ] Aqueduct: _____
- [ ] Underground water / well: N°well _____
- [ ] River _____
- [ ] Other: _____

Do you want to sample Incoming Water*

- [ ] **Yes**
- [ ] **No**

* Sampling of incoming water is not mandatory for ZDHC guidelines, but it may be necessary to analyze these samples for Root Cause Analysis, in case of non-compliance in wastewater samples

Description of the sampling point:

- [ ] Tap: _____
- [ ] Well (depth m): _____
- [ ] Other: _____

UNTREATED WASTEWATER *(Wastewater that is collected prior to any treatment)*

Attach the image of the sampling point

Sampling point name: Inlet Wastewater

There is only one water collection line discharge processing

☑ YES

☐ NO (N. of collections lines present): _____

Description of the sampling point:

☑ Homogenization tank (m^3): _____

(If there is a Homogenization tank, it has an average holding time > 12 h? - ☑ YES - ☐ NO)

☑ Well (depth m): _____

☐ Other: _____

Is there a flow meter for the wastewater?

☑ Yes: _____

☐ No: _____

Type of discharge:

☑ Continuous: _____

☐ Discontinuous _____

☐ Other: _____

There is any screening / filtration system with size < 6 mm

☑ Yes: _____

☐ No: _____

EFFLUENT *(Treated or partially treated wastewater that leaves the facility boundary)*

Attach the image of the sampling/s point

Sampling point name: Outlet Wastewater

There is only one water collection line discharge?

☑ YES

☐ NO (N. of collections lines present): _____

Type of discharge

☑ Continuous: _____

☐ Discontinuous: _____

☐ Other: _____

Is there a flow meter for the wastewater?

☑ Yes _____

☐ No _____

Description of the sampling point:

☐ Well (depth m): _____

☑ Other: _____

Does this sample point discharge to aquatic bodies?

☐ Yes _____

☐ No _____

WASTEWATER TREATMENT DESCRIPTION

There is any screening / filtration system with size < 6 mm

☑ Yes _____

☐ No _____

Preliminary Treatment

☑ Equalization Basin

☑ Filtration

☐ Manual Grit Remover

☐ Mechanical or Aerated Grit Remover

☑ Other physical/chemical process

☑ pH adjustment

☑ Pre-Aeration

☑ Raw wastewater or effluent pumping

☐ Others (Please specify)

Primary Treatment

☐ Chemical injection with coagulation (DAF, inclined plate, etc.)

☑ Coagulation - flocculation

☐ Dissolved air flotation

☐ Lamellar settling

☑ Primary clarifier

☐ Others (Please specify)

Disinfection

- ☐ Chlorination (gas)
- ☐ Chlorination (others)
- ☐ Dechlorination
- ☐ Others - Please Specify
- ☐ Ozonation
- ☑ Sand filtration
- ☐ Ultraviolet

Secondary Treatment

- ☑ Activated Sludge
- ☐ Activated Sludge process (with membrane bioreactor)
- ☐ Activated Sludge process (without membrane bioreactor)
- ☐ Aerated biofilters
- ☐ Aerated ponds
- ☐ Biological Treatment
- ☐ Chemical coagulation with rapid mix, flocculation, clarification
- ☐ Fluidized Bed
- ☐ Intermittent sand filter without recirculation
- ☐ Membrane bioreactors
- ☐ Rotating biological contactors
- ☐ Secondary clarifier
- ☐ Sequential batch reactor (SBR)
- ☐ Submerged aerated filters
- ☐ Trickling filter, biological filter with recirculation
- ☐ Trickling filter, biological filter without recirculation
- ☐ UASB Reactor (Upflow Anaerobic Sludge Blanket Reactor)
- ☐ Unaerated lagoon
- ☐ Others (Please specify)

Cooling or hear recovery systems to cool wastewater

- ☐ Cooling tower
- ☐ Heat recovery Heat exchangers

Advanced Water Treatment / Tertiary treatment

- ☑ Activated carbon filters
- ☐ Adsorption with activated carbon
- ☐ Advanced Oxidation Processes (AOPs)
- ☐ Chemical Addition for Neutralization
- ☐ Electrocoagulation-Electroflocculation
- ☐ Evaporation
- ☐ Fenton reactions
- ☐ Intermittent Sand Filter
- ☐ Ion exchange
- ☐ Membrane filtration and reverse osmosis
- ☐ Microscreens
- ☐ Nitrification by Activated Sludge
- ☐ Nitrification by activated Sludge and dentrification
- ☐ Nitrification by other processes
- ☐ Nitrification by other processes and dentrification
- ☐ Phosphorus Removal
- ☐ Polishing Pond
- ☐ Rapid Sand filter
- ☐ Reverse osmosis, Electrodialysis
- ☐ Ultrafiltration
- ☐ Others (Please specify)

SLUDGE *(Sludge from wastewater treatment processes)*

Attach the image of the sampling/s point	**Type of Sludge** ☑ Solid ☐ Liquid ☐ Doughy **Description of the sampling point:**
Sampling point name: Sludge	

Describe which kind of ZDHC Disposal Pathways are used by the facility?

(If several paths are used, indicate the percentages of use)

Please attach a sludge disposal document or a copy of the contract with the authorized waste disposal company.

	% of use
☑ ZDHC Disposal Pathway A - Offsite Incineration at >1000 °C	
☐ ZDHC Disposal Pathway B - Landfill with Significant Control Measures	
☐ ZDHC Disposal Pathway C - Building Products Processed at >1000 °C	
☐ ZDHC Disposal Pathway D - Landfill with Limited Control Measures	
☐ ZDHC Disposal Pathway E - Offsite Incineration and Building Products Processed at <1000 °C	
☐ ZDHC Disposal Pathway F - Landfills with No Control Measures	
☐ ZDHC Disposal Pathway G - Land Application	

Note: Refer to the *"ZDHC Sludge Reference Document"* for more details on the definition of Disposal Pathways (Roadmap To Zero - Output)

Notes or observations

CHA Apparels Pvt. Ltd. Auth. Sign. C-32, Sec-58, Noida