



Bangladesh

**Test Report: BD/T(W)/22/010948 A1**

**Dated: 2022-04-21**

Applicant : Tarasima Apparels Ltd.  
Golora, Kaitta, Satoria, Manikganj-1810, Bangladesh.  
Attention : Mr. Pijush Sarkar  
Sample Description : (A) Raw Wastewater(ETP Inlet)  
(B) Treated Discharge Wastewater(ETP Outlet)  
Sampled by : TÜV SÜD Representative  
Client's Representative : Mr. Pijush Sarkar  
Type of treatment : ECOT  
Type of Discharge : Direct Discharge  
Discharge to : Nearest Canal  
Discharge Volume : 70 m3/ hour  
Sample Type : Composite  
Sampling Protocol : As Per ISO 5667-13:2011  
Sample condition : Good  
Weather condition : Sunny  
Date of Sample collection : 29/03/2022  
Test Analysis Started : 30/03/2022  
Test Analysis Completed : 11/04/2022

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Laboratory:  
TÜV SÜD Bangladesh (Pvt.) Ltd.  
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| SUMMARY OF TEST RESULTS                                                     |                    |                                  |
|-----------------------------------------------------------------------------|--------------------|----------------------------------|
| TEST REQUESTED                                                              | Result             |                                  |
|                                                                             | A (Raw Wastewater) | B (Treated Discharge Wastewater) |
| Conventional Parameters & Anions                                            | -                  | ■                                |
| Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): Including All Isomers | □                  | □                                |
| Chlorobenzenes and Chlorotoluenes                                           | □                  | □                                |
| Chlorophenols                                                               | □                  | □                                |
| Dyes – Azo (Forming Restricted Amines)                                      | □                  | □                                |
| Dyes – Carcinogenic or Equivalent Concern                                   | □                  | □                                |
| Dyes – Disperse (Sensitizing)                                               | □                  | □                                |
| Flame Retardants                                                            | □                  | □                                |
| Glycols                                                                     | □                  | □                                |
| Halogenated Solvents                                                        | □                  | □                                |
| Organotin Compounds                                                         | □                  | □                                |
| Perfluorinated and Polyfluorinated Chemicals (PFCs)                         | □                  | □                                |
| Otho-Phthalates – Including all ortho esters of phthalic acid               | □                  | □                                |
| Polycyclic Aromatic Hydrocarbons (PAHs)                                     | □                  | □                                |
| Volatile Organic Compounds (VOC)                                            | □                  | □                                |
| Heavy metals                                                                | □                  | □                                |
| Note/ Key:<br>— ■ — Detected<br>— □ — Not Detected<br>— - — Not Tested      |                    |                                  |

Remark: The report no BD/T(W)/22/010948 Dated: 2022-04-11 has been superseded. The test report is amended in terms of correcting PCP test result as requested by applicant.

Authorized By:



Md Shafikul Islam  
Authorized Signatory

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### Sampling Plan

Method of wastewater sampling used is composite sampling as per ISO 5667-13:2011(Part-1,3,10,13 and 15). Wastewater was sampled by time-weighted composite grab samples to obtain a single mixed sample

### Photo of Sampling points

|                                                                                    |                                                                                               |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|  |            |
| <p><b>Raw Wastewater Sampling Point</b><br/>Date-29.03.2022; Time-10.56 am</p>     | <p><b>Treated Discharged Wastewater Sampling Point</b><br/>Date-29.03.2022; Time-10.48 am</p> |

**Photo of sample**



**Raw Wastewater Sample Picture**



**Treated Discharged Wastewater Sample Picture**



**Photo of Aeration Tank**



Date-29.03.2022, Time-10.50 am

| Test Parameters Name               | Test Method                                                   | Test Result   | Limit        |             |              |
|------------------------------------|---------------------------------------------------------------|---------------|--------------|-------------|--------------|
|                                    |                                                               |               | Foundational | Progressive | Aspirational |
| Temperature [°C]                   | With Reference to USEPA 170.1                                 | 32.1          | 35           | 30          | 25           |
| TSS (mg/L)                         | With Reference to APHA 23rd Edition 2017 (2540 D)             | 20            | 50           | 15          | 5            |
| COD (mg/L)                         | With Reference to APHA 23rd Edition 2017 (5220 D)             | 89            | 150          | 80          | 40           |
| Total-N# (mg/L)                    | With reference APHA/SM 4500N-C                                | 6.9           | 20           | 10          | 5            |
| pH                                 | With Reference to USEPA 150.1                                 | 8.0           | 6-9          |             |              |
| Colour [m-1]<br>(436, 525; 620) nm | With Reference to ISO 7887-B                                  | 6.2; 3.3; 2.9 | 7; 5; 3      | 5; 3; 2     | 2; 1; 1      |
| BOD5 (mg/L)                        | With Reference to APHA 23rd Edition 2017 (5210 B)             | 21.2          | 30           | 15          | 5            |
| Ammonium-N (mg/L)                  | With Reference to APHA 23rd Edn, 2017 4500- NH3-C             | ND            | 10           | 1           | 0.5          |
| Total-P(mg/L)                      | With Reference to APHA 23rd Edn, 2017. 4500 -P-B,C & E        | 2.18          | 3            | 0.5         | 0.1          |
| AOX #(mg/L)                        | With Reference to ISO 9562/Photometric measurement            | 0.17          | 5            | 1           | 0.1          |
| Oil and Grease(mg/L)               | With Reference to APHA 23rd Edn, 2017. 5520. B/USEPA 1664     | 1.4           | 10           | 2           | 0.5          |
| Phenol (mg/L)                      | With Reference to APHA 23rd Edn, 2017.5530 B, C,D/USEPA 420.1 | 0.08          | 0.5          | 0.01        | 0.001        |
| Coliform# [bacteria/ 100 ml]       | With Reference to ISO 9308-1/USEPA 9132                       | ND            | 400          | 100         | 25           |
| Persistent Foam                    | Visual                                                        | Not Visible   | Not Visible  |             |              |
| Cyanide# (mg/L)                    | With reference APHA/SM 4500 CN                                | ND            | 0.2          | 0.1         | 0.05         |
| Sulfide (mg/L)                     | With Reference to APHA 23rd Edn, 2017. 4500-S2-D/USEPA 376.2  | ND            | 0.5          | 0.05        | 0.01         |

|                |                                                                |    |   |     |                   |
|----------------|----------------------------------------------------------------|----|---|-----|-------------------|
| Sulfite (mg/L) | With Reference to APHA 23rd Edn. 2017 4500-SO3 2-B/USEPA 377.1 | ND | 2 | 0.5 | Bangladesh<br>0.2 |
|----------------|----------------------------------------------------------------|----|---|-----|-------------------|

**Test Result****Sample-(B) Treated Discharge Wastewater (ETP Outlet)****1.0 Conventional Parameter & Anions**

Remrks: #Test have been subcontracted to other competent laboratory

Remark: ND = Not detected

**Test Result****Sample (A) Raw Wastewater (ETP Inlet) (B) Treated Dischrged Wastewater (ETP Outlet)****2.0 Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): Including All Isomers**

|               |                                                                                                                                                              |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Method : | With reference to NP/OP: ISO 18857-2 (modified dichloromethane extraction) & OPEO/NPEO: ISO 18254-1: By Liquid Chromatography - Mass Spectrometry (LC/MS-MS) |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Compound(s)                     | Cas No.     | Result (µg/L) |    | Reporting Limit(µg/L) |
|---------------------------------|-------------|---------------|----|-----------------------|
|                                 |             | A             | B  |                       |
| Nonylphenol (NP), mixed isomers | 104-40-5    |               |    |                       |
|                                 | 11066-49-2  |               |    |                       |
|                                 | 25154-52-3  | ND            | ND | 5                     |
|                                 | 84852-15-3  |               |    |                       |
| Octylphenol (OP),mixed isomers  | 140-66-9    |               |    |                       |
|                                 | 1806-26-4   | ND            | ND | 5                     |
|                                 | 27193-28-8  |               |    |                       |
| Nonylphenoethoxylates           | 9002-93-1   |               |    |                       |
|                                 | 9036-19-5   | ND            | ND | 5                     |
|                                 | 68987-90-6  |               |    |                       |
| Octylphenoethoxylates           | 9016-45-9   |               |    |                       |
|                                 | 26027-38-3  |               |    |                       |
|                                 | 37205-87-1  | ND            | ND | 5                     |
|                                 | 68412-54-4  |               |    |                       |
|                                 | 127087-87-0 |               |    |                       |

Remark: ND = Not detected

## Test Result

**Sample (A) Raw Wastewater (ETP Inlet) (B) Treated Discharged Wastewater (ETP Outlet)**  
**3.0 Chlorobenzenes and Chlorotoluenes**

| Test Method :              | Based on USEPA 8260B & 8270D: Solvent Extraction And Followed By Gas Chromatography-Mass Spectrometry (GC-MS) Analysis. |              |    |                        |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------|--------------|----|------------------------|
| Compound(s)                | Cas No.                                                                                                                 | Result(µg/L) |    | Reporting Limit (µg/L) |
|                            |                                                                                                                         | A            | B  |                        |
| Monochlorobenzene          | 108-90-7                                                                                                                | ND           | ND | 0.2                    |
| 1,2-Dichlorobenzene        | 95-50-1                                                                                                                 | ND           | ND | 0.2                    |
| 1,3-Dichlorobenzene        | 541-73-1                                                                                                                | ND           | ND | 0.2                    |
| 1,4-Dichlorobenzene        | 106-46-7                                                                                                                | ND           | ND | 0.2                    |
| 1,2,3-Trichlorobenzene     | 87-61-6                                                                                                                 | ND           | ND | 0.2                    |
| 1,2,4-Trichlorobenzene     | 120-82-1                                                                                                                | ND           | ND | 0.2                    |
| 1,3,5-Trichlorobenzene     | 108-70-3                                                                                                                | ND           | ND | 0.2                    |
| 1,2,3,4-Tetrachlorobenzene | 634-66-2                                                                                                                | ND           | ND | 0.2                    |
| 1,2,3,5-Tetrachlorobenzene | 634-90-2                                                                                                                | ND           | ND | 0.2                    |
| 1,2,4,5-Tetrachlorobenzene | 95-94-3                                                                                                                 | ND           | ND | 0.2                    |
| Pentachlorobenzene         | 608-93-5                                                                                                                | ND           | ND | 0.2                    |
| Hexachlorobenzene          | 118-74-1                                                                                                                | ND           | ND | 0.2                    |
| 2-Chlorotoluene            | 95-49-8                                                                                                                 | ND           | ND | 0.2                    |
| 3-Chlorotoluene            | 108-41-8                                                                                                                | ND           | ND | 0.2                    |
| 4-Chlorotoluene            | 106-43-4                                                                                                                | ND           | ND | 0.2                    |
| 2,3-Dichlorotoluene        | 32768-54-0                                                                                                              | ND           | ND | 0.2                    |
| 2,4-Dichlorotoluene        | 95-73-8                                                                                                                 | ND           | ND | 0.2                    |
| 2,5-Dichlorotoluene        | 19398-61-9                                                                                                              | ND           | ND | 0.2                    |
| 2,6-Dichlorotoluene        | 118-69-4                                                                                                                | ND           | ND | 0.2                    |
| 3,4-Dichlorotoluene        | 95-75-0                                                                                                                 | ND           | ND | 0.2                    |
| 3,5-Dichlorotoluene        | 25186-47-4                                                                                                              | ND           | ND | 0.2                    |
| 2,3,4-Trichlorotoluene     | 7359-72-0                                                                                                               | ND           | ND | 0.2                    |
| 2,3,6-Trichlorotoluene     | 2077-46-5                                                                                                               | ND           | ND | 0.2                    |
| 2,4,5-Trichlorotoluene     | 6639-30-1                                                                                                               | ND           | ND | 0.2                    |
| 2,4,6-Trichlorotoluene     | 23749-65-7                                                                                                              | ND           | ND | 0.2                    |



|                            |            |    |    |     |
|----------------------------|------------|----|----|-----|
| 3,4,5-Trichlorotoluene     | 21472-86-6 | ND | ND | 0.2 |
| 2,3,4,5-Tetrachlorotoluene | 76057-12-0 | ND | ND | 0.2 |
| 2,3,5,6-Tetrachlorotoluene | 29733-70-8 | ND | ND | 0.2 |
| 2,3,4,6-Tetrachlorotoluene | 875-40-1   | ND | ND | 0.2 |
| Pentachlorotoluene         | 877-11-2   | ND | ND | 0.2 |

Remark: ND = Not detected

## Test Result

Sample (A) Raw Wastewater (ETP Inlet) (B) Treated Discharged Wastewater (ETP Outlet)

### 4.0 Chlorophenols

Test Method : Based on USEPA 8270 D /ISO 14154:2005 Solvent Extraction And Acetylated By Acetic Anhydride, And Analyzed By Gas Chromatography-Mass Spectrometry (GC-MS).

| Compound(s)               | Cas No.    | Result (µg/L) |    | Reporting Limit ( µg/L) |
|---------------------------|------------|---------------|----|-------------------------|
|                           |            | A             | B  |                         |
| 2-chlorophenol            | 95-57-8    | ND            | ND | 0.5                     |
| 3-chlorophenol            | 108-43-0   | ND            | ND | 0.5                     |
| 4-chlorophenol            | 106-48-9   | ND            | ND | 0.5                     |
| 2,3-dichlorophenol        | 576-24-9   | ND            | ND | 0.5                     |
| 2,4-dichlorophenol        | 120-83-2   | ND            | ND | 0.5                     |
| 2,5-dichlorophenol        | 583-78-8   | ND            | ND | 0.5                     |
| 2,6-dichlorophenol        | 87-65-0    | ND            | ND | 0.5                     |
| 3,4-dichlorophenol        | 95-77-2    | ND            | ND | 0.5                     |
| 3,5-dichlorophenol        | 591-35-5   | ND            | ND | 0.5                     |
| 2,3,4-trichlorophenol     | 15950-66-0 | ND            | ND | 0.5                     |
| 2,3,5-trichlorophenol     | 933-78-8   | ND            | ND | 0.5                     |
| 2,3,6-trichlorophenol     | 933-75-5   | ND            | ND | 0.5                     |
| 2,4,5-trichlorophenol     | 95-95-4    | ND            | ND | 0.5                     |
| 2,4,6-trichlorophenol     | 88-06-2    | ND            | ND | 0.5                     |
| 3,4,5-trichlorophenol     | 609-19-8   | ND            | ND | 0.5                     |
| 2,3,4,5-tetrachlorophenol | 4901-51-3  | ND            | ND | 0.5                     |
| 2,3,4,6-tetrachlorophenol | 58-90-2    | ND            | ND | 0.5                     |
| 2,3,5,6-tetrachlorophenol | 935-95-5   | ND            | ND | 0.5                     |
| Pentachlorophenol         | 87-86-5    | ND            | ND | 0.5                     |

Remark: ND= Not detected

## Test Result

Sample (A) Raw Wastewater (ETP Inlet) (B) Treated Discharged Wastewater (ETP Outlet)

## 5.0 Dyes – Azo (Forming Restricted Amines)

| Test Method :                           | With Reference To EN 14362-1:2017 & EN 14362-3:2017 , By Gas Chromatography - Mass Spectrometric (GC-MS) And High Performance Liquid Chromatography (HPLC-DAD) Analysis. |               |    |                        |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----|------------------------|
| Compound(s)                             | Cas No.                                                                                                                                                                  | Result (µg/L) |    | Reporting Limit (µg/L) |
|                                         |                                                                                                                                                                          | A             | B  |                        |
| 4,4'-methy-lene-bis-(2-chloro-ani-line) | 101-14-4                                                                                                                                                                 | ND            | ND | 0.1                    |
| 4,4'-methylenedianiline                 | 101-77-9                                                                                                                                                                 | ND            | ND | 0.1                    |
| 4,4'-oxydianiline                       | 101-80-4                                                                                                                                                                 | ND            | ND | 0.1                    |
| 4-chloroaniline                         | 106-47-8                                                                                                                                                                 | ND            | ND | 0.1                    |
| 3,3'-dimethoxylbenzi-dine               | 119-90-4                                                                                                                                                                 | ND            | ND | 0.1                    |
| 3,3'-dimethylbenzidine                  | 119-93-7                                                                                                                                                                 | ND            | ND | 0.1                    |
| 6-methoxy-m-toluidine                   | 120-71-8                                                                                                                                                                 | ND            | ND | 0.1                    |
| 2,4,5-trimethylaniline                  | 137-17-7                                                                                                                                                                 | ND            | ND | 0.1                    |
| 4,4'-thiodianiline                      | 139-65-1                                                                                                                                                                 | ND            | ND | 0.1                    |
| 4-aminoazobenzene                       | 60-09-3                                                                                                                                                                  | ND            | ND | 0.1                    |
| 4-methoxy-m-phenyl-enediamine           | 615-05-4                                                                                                                                                                 | ND            | ND | 0.1                    |
| 4,4'-methylene-di-o-toluidine           | 838-88-0                                                                                                                                                                 | ND            | ND | 0.1                    |
| 2,6-xylidine                            | 87-62-7                                                                                                                                                                  | ND            | ND | 0.1                    |
| o-anisidine                             | 90-04-0                                                                                                                                                                  | ND            | ND | 0.1                    |
| 2-naphthylamine                         | 91-59-8                                                                                                                                                                  | ND            | ND | 0.1                    |
| 3,3'-dichlorobenzidine                  | 91-94-1                                                                                                                                                                  | ND            | ND | 0.1                    |
| 4-aminodiphenyl                         | 92-67-1                                                                                                                                                                  | ND            | ND | 0.1                    |

|                              |         |    |    |     |
|------------------------------|---------|----|----|-----|
| Benzidine                    | 92-87-5 | ND | ND | 0.1 |
| o-toluidine                  | 95-53-4 | ND | ND | 0.1 |
| 2,4-xylidine                 | 95-68-1 | ND | ND | 0.1 |
| 4-chloro-o-toluidine         | 95-69-2 | ND | ND | 0.1 |
| 4-methyl-m-phenylene-diamine | 95-80-7 | ND | ND | 0.1 |
| o-aminoazotoluene            | 97-56-3 | ND | ND | 0.1 |
| 5-nitro-o-toluidine          | 99-55-8 | ND | ND | 0.1 |

Remark: ND= Not detected

### Test Result

Sample (A) Raw Wastewater (ETP Inlet) (B) Treated Discharged Wastewater (ETP Outlet)

#### 6.0 Dyes – Carcinogenic or Equivalent Concern

| Test Method :                                     | Based on USEPA 8321B, USEPA 8270; Solvent Extraction And By Liquid Chromatography - Mass Spectrometry (LC-MS) |               |    |                        |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------|----|------------------------|
| Compound(s)                                       | Cas No.                                                                                                       | Result (µg/L) |    | Reporting Limit (µg/L) |
|                                                   |                                                                                                               | A             | B  |                        |
| C.I. Direct Black 38                              | 1937-37-7                                                                                                     | ND            | ND | 500                    |
| C.I. Direct Blue 6                                | 2602-46-2                                                                                                     | ND            | ND | 500                    |
| C.I. Acid Red 26                                  | 3761-53-3                                                                                                     | ND            | ND | 500                    |
| C.I. Basic Red 9                                  | 569-61-9                                                                                                      | ND            | ND | 500                    |
| C.I. Direct Red 28                                | 573-58-0                                                                                                      | ND            | ND | 500                    |
| C.I. Basic Violet 14                              | 632-99-5                                                                                                      | ND            | ND | 500                    |
| C.I. Disperse Blue 1                              | 2475-45-8                                                                                                     | ND            | ND | 500                    |
| C.I. Disperse Blue 3                              | 2475-46-9                                                                                                     | ND            | ND | 500                    |
| C.I. Basic Blue 26 (with Michler's Ketone > 0.1%) | 2580-56-5                                                                                                     | ND            | ND | 500                    |
| C.I. Basic Green 4 (malachite green chloride)     | 569-64-2                                                                                                      | ND            | ND | 500                    |
| C.I. Basic Green 4 (malachite green oxalate)      | 2437-29-8                                                                                                     | ND            | ND | 500                    |
| C.I. Basic Green 4 (malachite green)              | 10309-95-2                                                                                                    | ND            | ND | 500                    |
| Disperse Orange 11                                | 82-28-0                                                                                                       | ND            | ND | 500                    |

Remark: ND= Not detected

## Test Result

Sample (A) Raw Wastewater (ETP Inlet) (B) Treated Discharged Wastewater (ETP Outlet)

### 7.0 Dyes – Disperse (Sensitizing)

| Test Method:             | Based on USEPA 8321B, USEPA 8270; Solvent Extraction And By Liquid Chromatography - Mass Spectrometry (LC-MS) |               |    |                        |
|--------------------------|---------------------------------------------------------------------------------------------------------------|---------------|----|------------------------|
| Compound(s)              | Cas No.                                                                                                       | Result (µg/L) |    | Reporting Limit (µg/L) |
|                          |                                                                                                               | A             | B  |                        |
| Disperse Yellow 1        | 119-15-3                                                                                                      | ND            | ND | 50                     |
| Disperse Blue 102        | 12222-97-8                                                                                                    | ND            | ND | 50                     |
| Disperse Blue 106        | 12223-01-7                                                                                                    | ND            | ND | 50                     |
| Disperse Yellow 39       | 12236-29-2                                                                                                    | ND            | ND | 50                     |
| Disperse Orange 37/59/76 | 13301-61-6                                                                                                    | ND            | ND | 50                     |
| Disperse Brown 1         | 23355-64-8                                                                                                    | ND            | ND | 50                     |
| Disperse Orange 1        | 2581-69-3                                                                                                     | ND            | ND | 50                     |
| Disperse Yellow 3        | 2832-40-8                                                                                                     | ND            | ND | 50                     |
| Disperse Red 11          | 2872-48-2                                                                                                     | ND            | ND | 50                     |
| Disperse Red 1           | 2872-52-8                                                                                                     | ND            | ND | 50                     |
| Disperse Red 17          | 3179-89-3                                                                                                     | ND            | ND | 50                     |
| Disperse Blue 7          | 3179-90-6                                                                                                     | ND            | ND | 50                     |
| Disperse Blue 26         | 3860-63-7                                                                                                     | ND            | ND | 50                     |
| Disperse Yellow 49       | 54824-37-2                                                                                                    | ND            | ND | 50                     |
| Disperse Blue 35         | 12222-75-2                                                                                                    | ND            | ND | 50                     |
| Disperse Blue 124        | 61951-51-7                                                                                                    | ND            | ND | 50                     |



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|                   |            |    |    |    |
|-------------------|------------|----|----|----|
| Disperse Yellow 9 | 6373-73-5  | ND | ND | 50 |
| Disperse Orange 3 | 730-40-5   | ND | ND | 50 |
| Disperse Blue 35  | 56524-77-7 | ND | ND | 50 |
|                   |            |    |    |    |

Remark: ND= Not detected

**Test Result****Sample (A) Raw Wastewater (ETP Inlet) (B) Treated Discharged Wastewater (ETP Outlet)****8.0 Flame Retardants**

|               |                                                                                                                                                                                                     |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Method : | Based on US EPA 8270, ISO 22032, USEPA 527 & USEPA 8321 B: Solvent Extraction And By Liquid Chromatography - Mass Spectrometry (LC-MS) And Gas Chromatography – Mass Spectrometry (GC-MS) Analysis. |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Compound(s)                                        | Cas No.    | Result (µg/L) |    | Reporting Limit (µg/L) |
|----------------------------------------------------|------------|---------------|----|------------------------|
|                                                    |            | A             | B  |                        |
| Tris-(2-chloro-ethyl)-phosphate(TCEP)              | 115-96-8   | ND            | ND | 5                      |
| Decabromodiphenyl ether (DecaBDE)                  | 1163-19-5  | ND            | ND | 5                      |
| Tri-(2,3-di-bromo-propyl)-phosphate(TRIS)          | 126-72-7   | ND            | ND | 5                      |
| Pentabromodiphenyl ether (PentaBDE)                | 32534-81-9 | ND            | ND | 5                      |
| Octa-bromo-diphenyl-ether(OctaBDE)                 | 32536-52-0 | ND            | ND | 5                      |
| Bis-(2,3-di-bromo-propyl)-phosphate                | 5412-25-9  | ND            | ND | 5                      |
| Tris(1-aziridinyl)phosphine oxide)(TEPA)           | 545-55-1   | ND            | ND | 5                      |
| Polybromobiphenyls (PBB)                           | 59536-65-1 | ND            | ND | 5                      |
| Tetra-bromo-bisphenol-A(TBBPA)                     | 79-94-7    | ND            | ND | 5                      |
| Hexa-bromo-cyclo-dodecan(HBCDD)                    | 3194-55-6  | ND            | ND | 5                      |
| 2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)        | 3296-90-0  | ND            | ND | 5                      |
| Tris-(1,3-di-chloro-iso-propyl)-phosphate(TDCPP)   | 13674-87-8 | ND            | ND | 5                      |
| Short-chain chlorinated Paraffins (SCCP) (C10-C13) | 85535-84-8 | ND            | ND | 5                      |

Remark: ND= Not detected

**9.0 Glycols**

Test Method : Based on US EPA 8270 Liquid extraction, LC/MS &amp; GC-MS

| Compound(s) | Cas No. | Result (µg/L) | Reporting Limit (µg/L) |
|-------------|---------|---------------|------------------------|
|-------------|---------|---------------|------------------------|

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|                                   |            | A  | B  |    |
|-----------------------------------|------------|----|----|----|
| Bis(2-methoxyethyl)-ether         | 111-96-6   | ND | ND | 50 |
| 2-ethoxyethanol                   | 110-80-5   | ND | ND | 50 |
| 2-ethoxyethyl acetate             | 111-15-9   | ND | ND | 50 |
| Ethylene glycol dimethyl ether    | 110-71-4   | ND | ND | 50 |
| 2-methoxyethanol                  | 109-86-4   | ND | ND | 50 |
| 2-methoxyethylacetate             | 110-49-6   | ND | ND | 50 |
| 2-methoxypropylacetate            | 70657-70-4 | ND | ND | 50 |
| Triethylene glycol dimethyl ether | 112-49-2   | ND | ND | 50 |

Remark: ND= Not detected

### Test Result

Sample (A) Raw Wastewater (ETP Inlet) (B) Treated Discharged Wastewater (ETP Outlet)

#### 10.0 Halogenated Solvents

Test Method Based on USEPA 8260B Headspace GC/ MS

| Compound(s)         | Cas No.  | Result (µg/L) |    | Reporting Limit (µg/L) |
|---------------------|----------|---------------|----|------------------------|
|                     |          | A             | B  |                        |
| 1,2-dichloroethane  | 107-06-2 | ND            | ND | 1                      |
| Methylene chloride  | 75-09-2  | ND            | ND | 1                      |
| Trichloroethylene   | 79-01-6  | ND            | ND | 1                      |
| Tetrachloroethylene | 127-18-4 | ND            | ND | 1                      |

Remark: ND= Not detected

### Test Result

Sample (A) Raw Wastewater (ETP Inlet) (B) Treated Discharged Wastewater (ETP Outlet)

#### 11.0 Organotin Compounds

Test Method : With Reference To ISO 17353: 2004, By Gas Chromatography-Mass Spectrometry (GC-MS) Analysis.

| Compound(s)                              | CAS No.  | Result (µg/L) |    | Reporting Limit (µg/L) |
|------------------------------------------|----------|---------------|----|------------------------|
|                                          |          | A             | B  |                        |
| Mono-, di- and tri-methyltin derivatives | Multiple | ND            | ND | 0.01                   |
| Mono-, di- and tri-butyltin derivatives  | Multiple | ND            | ND | 0.01                   |
| Mono-, di- and tri-phenyltin derivatives | Multiple | ND            | ND | 0.01                   |
| Mono-, di- and tri-octyltin derivatives  | Multiple | ND            | ND | 0.01                   |

Remark: ND= Not Detected

#### 12.0 Perfluorinated and Polyfluorinated Chemicals (PFCs)

Test Method : DIN 38407-42:2011 (modified) Ionic PFC: Concentration or direct injection, LC/ MS(-MS);  
Non-ionic PFC (FTOH): derivatisation with acetic anhydride followed by GC/ MS

| Compound(s)                        | Cas No.  | Result (µg/L) |    | Reporting Limit (µg/L) |
|------------------------------------|----------|---------------|----|------------------------|
|                                    |          | A             | B  |                        |
| Perfluorooctane sulphonates (PFOS) | 355-46-4 | ND            | ND | 0.01                   |

|                                    |                           |    |    |      |
|------------------------------------|---------------------------|----|----|------|
|                                    | 432-50-7                  |    |    |      |
| Perfluorooctanoic acid (PFOA)      | 335-67-1                  | ND | ND | 0.01 |
| Perfluorobutane sulphonates (PFBS) | 29420-49-3.<br>29420-43-3 | ND | ND | 0.01 |
| Perfluoro-n-hexanoic acid (PFHxA)  | 307-24-4                  | ND | ND | 0.01 |
| 8:2 FTOH                           | 678-39-7                  | ND | ND | 1    |
| 6:2 FTOH                           | 647-42-7                  | ND | ND | 1    |

Remark: ND = Not detected

### Test Result

Sample (A) Raw Wastewater (ETP Inlet) (B) Treated Discharged Wastewater (ETP Outlet)

#### 13.0 Otho-Phthalates – Including all ortho esters of phthalic acid

|               |                                                                                                                    |
|---------------|--------------------------------------------------------------------------------------------------------------------|
| Test Method : | With Reference To ISO 18856: 2004 Solvent Extraction And By Gas Chromatography-Mass Spectrometry (GC-MS) Analysis. |
|---------------|--------------------------------------------------------------------------------------------------------------------|

| Compound(s)                           | Cas No.    | Result (µg/L) |    | Reporting Limit (µg/L) |
|---------------------------------------|------------|---------------|----|------------------------|
|                                       |            | A             | B  |                        |
| Di-(2-ethyl-hexyl)-phthalate(DEHP)    | 117-81-7   | ND            | ND | 10                     |
| Bis-(2-methoxy-ethyl)-phthalate(DMEP) | 117-82-8   | ND            | ND | 10                     |
| Di-n-octyl-phthalate(DNOP)            | 117-84-0   | ND            | ND | 10                     |
| Di-iso-decyl-phthalate(DIDP)          | 26761-40-0 | ND            | ND | 10                     |
| Di-iso-nonyl-phthalate(DINP)          | 28553-12-0 | ND            | ND | 10                     |
| Di-n-hexyl phthalate (DnHP)           | 84-75-3    | ND            | ND | 10                     |
| Di-butyl-phthalate(DBP)               | 84-74-2    | ND            | ND | 10                     |
| Benzyl-butyl-phthalate(BBP)           | 85-68-7    | ND            | ND | 10                     |
| Di-nonyl-phthalate(DNP)               | 84-76-4    | ND            | ND | 10                     |
| Di-ethyl-phthalate(DEP)               | 84-66-2    | ND            | ND | 10                     |
| Di-n-propyl phthalate (DPRP)          | 131-16-8   | ND            | ND | 10                     |
| Di-iso-butyl-phthalate(DIBP)          | 84-69-5    | ND            | ND | 10                     |

|                                                                                  |            |    |    |    |
|----------------------------------------------------------------------------------|------------|----|----|----|
| Di-cyclohexyl phthalate (DCHP)                                                   | 84-61-7    | ND | ND | 10 |
| Di-iso-octyl phthalate (DIOP)                                                    | 27554-26-3 | ND | ND | 10 |
| 1,2-Benzene-di-carboxylic acid, di-C7,11-branched and linear alkyl esters(DHNUP) | 68515-42-4 | ND | ND | 10 |
| Di-iso-heptyl-phthalate(DIHP)                                                    | 71888-89-6 | ND | ND | 10 |

Remark: ND= Not detected

### Test Result

Sample (A) Raw Wastewater (ETP Inlet) (B) Treated Dischrged Wastewater (ETP Outlet)

#### 14.0 Polycyclic Aromatic Hydrocarbons (PAHs)

|               |                                                                                                                                |
|---------------|--------------------------------------------------------------------------------------------------------------------------------|
| Test Method : | Based on DIN 38407-39:2011 Solvent(Dichloromethane) Extraction And By Gas Chromatography – Mass Spectrometry (GC-MS) Analysis. |
|---------------|--------------------------------------------------------------------------------------------------------------------------------|

| Compound(s)            | Cas No.  | Result (µg/L) |    | Reporting Limit (µg/L) |
|------------------------|----------|---------------|----|------------------------|
|                        |          | A             | B  |                        |
| Benzo[a]pyrene (BaP)   | 50-32-8  | ND            | ND | 1                      |
| Anthracene             | 120-12-7 | ND            | ND | 1                      |
| Pyrene                 | 129-00-0 | ND            | ND | 1                      |
| Benzo[ghi]perylene     | 191-24-2 | ND            | ND | 1                      |
| Benzo[e]pyrene         | 192-97-2 | ND            | ND | 1                      |
| Indeno[1,2,3-cd]pyrene | 193-39-5 | ND            | ND | 1                      |
| Benzo[j]fluoranthene   | 205-82-3 | ND            | ND | 1                      |
| Benzo[b]fluoranthene   | 205-99-2 | ND            | ND | 1                      |
| Fluoranthene           | 206-44-0 | ND            | ND | 1                      |
| Benzo[k]fluoranthene   | 207-08-9 | ND            | ND | 1                      |
| Acenaphthylene         | 208-96-8 | ND            | ND | 1                      |
| Chrysene               | 218-01-9 | ND            | ND | 1                      |
| Dibenz[a,h]anthracene  | 53-70-3  | ND            | ND | 1                      |
| Benzo[a]anthracene     | 56-55-3  | ND            | ND | 1                      |

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**Test Report: BD/T(W)/22/010948 A1****Dated: 2022-04-21**

Bangladesh

|              |         |    |    |   |
|--------------|---------|----|----|---|
| Acenaphthene | 83-32-9 | ND | ND | 1 |
| Phenanthrene | 85-01-8 | ND | ND | 1 |
| Fluorene     | 86-73-7 | ND | ND | 1 |
| Naphthalene  | 91-20-3 | ND | ND | 1 |
|              |         |    |    |   |

Remark: ND= Not detected

**Test Result****Sample (A) Raw Wastewater (ETP Inlet) (B) Treated Discharged Wastewater (ETP Outlet)****15.0 Volatile Organic Compounds (VOC)**

Test Method: Based on ISO 11423-1/ USEPA 8260 Headspace GC/ MS

| Compound(s) | Cas No.   | Result (µg/L) |    | Reporting Limit (µg/L) |
|-------------|-----------|---------------|----|------------------------|
|             |           | A             | B  |                        |
|             |           |               |    |                        |
| Benzene     | 71-43-2   | ND            | ND | 1                      |
| Xylene      | 1330-20-7 | ND            | ND | 1                      |
| o-cresol    | 95-48-7   | ND            | ND | 1                      |
| p-cresol    | 106-44-5  | ND            | ND | 1                      |
| m-cresol    | 108-39-4  | ND            | ND | 1                      |

Remark: ND= Not detected

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### Test Result

Sample (A) Raw Wastewater (ETP Inlet) (B) Treated Discharged Wastewater (ETP Outlet)

#### 16.0 Heavy Metals

Test Method : Based on USEPA 6010C / EN ISO 18412-2005 & ISO 17075-1:2017, By Inductively Coupled Argon Plasma-Mass Spectrometry(ICP-MS)/ Inductively Coupled Plasma-Optical Emission Spectrometry(ICP-OES) Analysis And UV-VIS Spectrophotometer .

| Compound(s)         | CAS No.    | Result (mg/L) |    | Reporting Limit (mg/L) |
|---------------------|------------|---------------|----|------------------------|
|                     |            | A             | B  |                        |
| Antimony (Sb)       | 7440-36-0  | ND            | ND | 0.01 mg/L              |
| Chromium,total (Cr) | 7440-47-3  | ND            | ND | 0.05 mg/L              |
| Cobalt (Co)         | 7440-48-4  | ND            | ND | 0.01 mg/L              |
| Copper (Cu)         | 7440-50-8  | ND            | ND | 0.25 mg/L              |
| Nickel (Ni)         | 7440-02-0  | ND            | ND | 0.05 mg/L              |
| Silver (Ag)         | 7440-22-4  | ND            | ND | 0.005 mg/L             |
| Zinc (Zn)           | 7440-66-6  | ND            | ND | 0.5 mg/L               |
| Arsenic (As)        | 7440-38-2  | ND            | ND | 0.005 mg/L             |
| Cadmium (Cd)        | 7440-43-9  | ND            | ND | 0.01 mg/L              |
| Chromium(VI)        | 18540-29-9 | ND            | ND | 0.001 mg/L             |
| Lead (Pb)           | 7439-92-1  | ND            | ND | 0.01 mg/L              |
| Mercury (Hg)        | 7439-97-6  | ND            | ND | 0.001 mg/L             |

**Test Report: BD/T(W)/22/010948 A1**

**Dated: 2022-04-21**

Remark: ND = Not detected



Bangladesh

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**TUV®**

**FIELD DATA RECORD ZERO DISCHARGE SAMPLE  
FOR PRIORITY CHEMICALS/  
CONVENTIONAL PARAMETERS**

*Discharge Wastewater*

**General Data**

Laboratory Sample Number: \_\_\_\_\_  
 Customer Name: Tanayama Apparel Ltd.  
 Field Contact Person: Mr. Pijush Sarkar Phone No: 81619003575  
 Project/Facility Name and Address: Tanayama Apparel Ltd. Boleora, Kailash Satama, Masabari  
 Sampling Location/Description: ETP Outlet/ Discharge Wastewater  
 ETP Type: ECOT ETP Capacity: 70 m<sup>3</sup>/hour  
 Initiated By: SUB  
 Sample Identification: 0001  
 Sample Type: Composite  
 Name of Sample: Discharge Wastewater  
 Use of Sampler: M. Nazim Sheikh  
 Discharge Mode: Direct discharge to environment (Specify destination: river, sea, stream) or indirect: discharge to sewage treatment plant Nearest Canal  
 Date and time collected: 29.03.2022 (11:00 am - 4:15 pm)  
 Factory Type: Dyeing/Finishing/Washing/Printing/Other (Please specify)  
 Note: It should be selected more than one.

**Field Data for Wastewater / Sludge**

Equipment used: \_\_\_\_\_  
 Factory with effluent treatment plant: ☒ Yes ☐ No  
 Sample matrix: ☒ Incoming Water  
☐ Wastewater before treatment  
☐ Wastewater after treatment water at discharge point  
☐ Sludge

| Field Parameters        | 1           | 2                                                                                 | 3           | 4           | 5           | 6           |
|-------------------------|-------------|-----------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|
| Recording Time          | 11:00 AM    | 12:00 PM                                                                          | 1:00 PM     | 2:00 PM     | 3:00 PM     | 4:00 PM     |
| pH                      | 8.2         | 8.2                                                                               | 8.1         | 8.1         | 8.0         | 8.1         |
| Temp (°C)               | 31.1        | 31.3                                                                              | 32.2        | 32.3        | 32.1        | 32.3        |
| Electrical Conductivity | /           | /                                                                                 | /           | /           | /           | /           |
| Dissolved Oxygen (DO)   | /           | /                                                                                 | /           | /           | /           | /           |
| Color                   | Transparent | Transparent                                                                       | Transparent | Transparent | Transparent | Transparent |
| Sample Container Number | /           | /                                                                                 | /           | /           | /           | /           |
| Volume Collected (ml)   | /           | /                                                                                 | /           | /           | /           | /           |
| Total Volume Collected  | 2.500 ml    | Remark: Total volume collected must be greater than total of sample size required |             |             |             |             |

**Analysis Required and Preservation Method**

| Test             | Test Required                       | Total of Sample Size | Type of Container | Preservation Method                               |
|------------------|-------------------------------------|----------------------|-------------------|---------------------------------------------------|
| TSS              | <input checked="" type="checkbox"/> |                      | P, G 200-ml       | Cool + 5°C                                        |
| BOD <sub>5</sub> | <input checked="" type="checkbox"/> |                      | P, G, PP 1000-ml  | Cool + 5°C                                        |
| COD              | <input checked="" type="checkbox"/> |                      | P, G, PP 150-ml   | H <sub>2</sub> SO <sub>4</sub> < pH 2, cool + 5°C |
| Total N          | <input checked="" type="checkbox"/> |                      | P, G, PP 150-ml   | H <sub>2</sub> SO <sub>4</sub> < pH 2, cool + 5°C |
| Ammonium-N       | <input checked="" type="checkbox"/> |                      | P, G, PP 500-ml   | H <sub>2</sub> SO <sub>4</sub> < pH 2, cool + 5°C |

Prepared and Issued By: Nazim Sheikh  
 Document No.: LAB\_F\_054\_054 Issue No.: 03  
 Approved By: Md. Enayetur Raheem  
 Revision Date: 13/11/2020 Page 3 of 5

**20HC Sample ID → 8F146508483**

# FIELD DATA RECORD ZERO DISCHARGE SAMPLE FOR PRIORITY CHEMICALS/ CONVENTIONAL PARAMETERS



|                                                                                       |   |  |                                           |                                                                |
|---------------------------------------------------------------------------------------|---|--|-------------------------------------------|----------------------------------------------------------------|
| Total-P                                                                               | ✓ |  | P, G, PP 100-ml                           | H2SO4 = pH 2, cool < 6°C                                       |
| AOB                                                                                   | ✓ |  | P, G, PP 600-ml                           | 5.1 ml of 10% Sodium Thiosulfate,<br>H2SO4 = pH 2, cool < 6°C  |
| Oil and Grease                                                                        | ✓ |  | Glass, wide mouth PTFE lined lid 1,000-ml | HCl or H2SO4 = pH 2, cool < 6°C                                |
| Phenols                                                                               | ✓ |  | P, G PTFE lined lid 500-ml                | H2SO4 = pH 2, cool < 6°C                                       |
| Total Coliform (per ml 100ml)                                                         | ✓ |  | P, G clean, sterile, non-reactive, 125-ml | 0.1 ml of 10% Sodium Thiosulfate,<br>cool < 6°C, do not freeze |
| Persistent Inks                                                                       | ✓ |  | NA                                        | Measured in the field                                          |
| Cyanide                                                                               | ✓ |  | P, PP 1,000-ml                            | NaOH > 12 pH, 5.1 ml of 10% Sodium Thiosulfate, cool < 6°C     |
| Sulfide                                                                               | ✓ |  | P, PP 100-ml                              | 4 drops 2N zinc acetate,<br>NaOH > pH 9, cool < 6°C            |
| Sulfate                                                                               | ✓ |  | P, G, PP 100-ml                           | 1-ml 2.5% EDTA, 0.5 g zinc acetate,<br>cool < 6°C              |
| Arsimony, Chromium-tryp, Cobalt, Copper, Methyl, Silver, Zinc, Arsenic, Cadmium, Lead | ✓ |  | P, G, PP acid washed 250-ml               | HNO3 = pH 2                                                    |
| Chlorine (ml)                                                                         | ✓ |  | G acid washed 40-ml Brown Glass VOA vial  | 0.45µm filter in field, add buffer to pH 9.0-9.5, cool < 6°C   |
| Mercury                                                                               | ✓ |  | P, G, PP acid washed 500-ml               | HNO3 = pH 2, cool < 6°C                                        |
| AP and APEOs including All Isomers                                                    | ✓ |  | G 1,000-ml PTFE lined lid                 | cool < 6°C                                                     |
| Chlorobenzenes and Chlorotoluenes                                                     | ✓ |  | G 1,000-ml PTFE lined lid                 | cool < 6°C                                                     |
| Chlorophenols                                                                         | ✓ |  | G 1,000-ml PTFE lined lid                 | cool < 6°C                                                     |
| Dyes - Azo (Forming Restricted Amines)                                                | ✓ |  | G 1,000-ml PTFE lined lid                 | cool < 6°C                                                     |
| Dyes - Carcinogenic or equivalent Concern                                             | ✓ |  | G 1,000-ml PTFE lined lid                 | cool < 6°C                                                     |
| Dyes - Disperse (Sensitizing)                                                         | ✓ |  | G 1,000-ml PTFE lined lid                 | cool < 6°C                                                     |
| Flame Retardants                                                                      | ✓ |  | G 1,000-ml PTFE lined lid                 | cool < 6°C                                                     |
| Glycols                                                                               | ✓ |  | G 1,000-ml PTFE lined lid                 | cool < 6°C                                                     |
| Halogenated Solvents                                                                  | ✓ |  | Three x 40-ml amber VOA vial no headspace | HCl = pH 2, cool < 6°C                                         |
| Organotin Compounds                                                                   | ✓ |  | G 1,000-ml acid washed PTFE lined lid     | W HCl to pH 2-3, cool < 6°C                                    |
| Perfluorinated and Polyfluorinated Chemicals (PFOS)                                   | ✓ |  | P 1,000-ml no PTFE lined lid              | cool < 6°C                                                     |
| Ortho-Phenols - including all ortho esters of phthalic acid                           | ✓ |  | G 1,000-ml PTFE lined lid                 | cool < 6°C                                                     |
| Polycyclic Aromatic Hydrocarbons                                                      | ✓ |  | G 1,000-ml PTFE lined lid                 | cool < 6°C                                                     |
| VOC                                                                                   | ✓ |  | Three x 40-ml amber VOA vial no headspace | HCl = pH 2, cool < 6°C                                         |

Prepared and issued By: Yasir Anwar  
Document No.: LAB\_F\_BD\_064 Issue No.: 01

Reviewed By: Md. Shafiqul Islam  
Issued On: 08/04/2018 Revision No.: 00

Approved By: Md. Kamruzzaman  
Revision Date: 11/11/2018 Page 2 of 2

# FIELD DATA RECORD ZERO DISCHARGE SAMPLE FOR PRIORITY CHEMICALS/ CONVENTIONAL PARAMETERS



Client Representative  
(Name & Signature)

## Quality Control

| Sample type     | Action(Y/N) | Amount | Action in lab                                                                                                                                                                                                                                                                | Action in field                                                                                                                                                |
|-----------------|-------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Field blank     | Y           | 500 ml | Fill all with distilled water (or water of corresponding salinity to sample). One sample is left in the laboratory as a control sample. Two samples are taken to the field—one as a field blank and one as a transport blank. The actions in the field are then carried out. | Field blank—open container in the field for a similar period of time as is required to take sample. Re-cap container and transport to laboratory for analysis. |
| Transport blank | Y           | 500 ml |                                                                                                                                                                                                                                                                              | Transport blank—Carry a sealed sample container in the cooler with other samples. No other action necessary in the field. Return to laboratory for analysis.   |
| Container blank | Y           | 500 ml | Fill a sample container with distilled water—do not freeze. Apply the preservation appropriate to samples taken in that container type. The sample is to be held in the laboratory for a similar period of time as the majority of samples are held before analysis.         | None                                                                                                                                                           |

Pt: plastic, G: amber glass FPs: fluoropolymer

Prepared and issued By: Yeasin Anisat  
Document No.: LNB\_F\_BD\_064 Issue No.: 02

Reviewed By: Md. Shafikul Islam  
Issued On: 08/04/2022 Revision No.: 02

Approved By: Md. Kamruzzaman  
Revision Date: 13/11/2022 Page 3 of 3



**FIELD DATA RECORD ZERO DISCHARGE SAMPLE  
FOR PRIORITY CHEMICALS/  
CONVENTIONAL PARAMETERS**

 Bangladesh

Raw Wastewater

**General Data**

Laboratory Sample Number: \_\_\_\_\_

Customer Name: Tanayana Apparels Ltd.

Field Contact Person: Md. Pijush Sankar Phone No: 01619 003675

Project/Facility Name and Address: Tanayana Apparels Ltd., Bolanda, Kailha, Morikganj.

Sampling Location/Description: ETP Inlet / Raw Wastewater

ETP Type: ECOT ETP Capacity: 70 m<sup>3</sup>/hour

Initiated By: G.S.

Sample Identification: P001

Sample Type: Composite

Name of Sample: Raw Wastewater

Type of Sampler: Md. Nazim Sharik

Discharge Mode: \_\_\_\_\_

Date and time collected: 29-03-2022 (11:00 am - 4:15 pm)

Factory Type: \_\_\_\_\_

Direct discharge to environment (Specify destination: river, sea, stream or indirect: discharge to sewage treatment plant) Nearby canal

Dyeing/Finishing/Washing/Finishing/Other (Please specify): \_\_\_\_\_

Note: It would be selected more than one.

**Field Data for Wastewater / Sludge**

| Equipment used                                                                    | ✓ Yes                                               |          | No       |          |          |          |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|----------|----------|----------|----------|----------|
| Factory with effluent treatment plant                                             |                                                     |          |          |          |          |          |
| Sample matrix                                                                     | ✓                                                   |          |          |          |          |          |
|                                                                                   | Wastewater before treatment                         |          |          |          |          |          |
|                                                                                   | Wastewater after treatment water at discharge point |          |          |          |          |          |
|                                                                                   | Sludge                                              |          |          |          |          |          |
| Field Parameters                                                                  | 1                                                   | 2        | 3        | 4        | 5        | 6        |
| Recording Time                                                                    | 11:00 AM                                            | 12:00 PM | 1:00 PM  | 2:00 PM  | 3:00 PM  | 4:15 PM  |
| pH                                                                                | 7.2                                                 | 7.3      | 7.4      | 7.4      | 7.2      | 7.4      |
| Temp (°C)                                                                         | 32.1                                                | 32.4     | 33.4     | 33.2     | 33.0     | 33.7     |
| Conductivity                                                                      | /                                                   | /        | /        | /        | /        | /        |
| Dissolved Oxygen (DO)                                                             | /                                                   | /        | /        | /        | /        | /        |
| Color                                                                             | 0.1 mg/L                                            | 0.1 mg/L | 0.1 mg/L | 0.1 mg/L | 0.1 mg/L | 0.1 mg/L |
| Sample Container Number                                                           | /                                                   | /        | /        | /        | /        | /        |
| Volume Collected (ml)                                                             | /                                                   | /        | /        | /        | /        | /        |
| Total Volume Collected                                                            | 14,000 ml                                           |          |          |          |          |          |
| Remark: Total volume collected must be greater than total of sample size required |                                                     |          |          |          |          |          |

**Analysis Required and Preservation Method**

| Test      | Test Required | Total of Sample Size | Type of Container | Preservation Method      |
|-----------|---------------|----------------------|-------------------|--------------------------|
| TSS       | NA            |                      | P, G, 250-ml      | Cool < 5°C               |
| BOD5      |               |                      | P, G, PP 1,000-ml | Cool < 5°C               |
| COD       |               |                      | P, G, PP 150-ml   | H2SO4 < pH 2, cool < 5°C |
| Total-N   |               |                      | P, G, PP 100-ml   | H2SO4 < pH 2, cool < 5°C |
| Ammonia-N |               |                      | P, G, PP 500-ml   | H2SO4 < pH 2, cool < 5°C |

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# FIELD DATA RECORD ZERO DISCHARGE SAMPLE FOR PRIORITY CHEMICALS/ CONVENTIONAL PARAMETERS



|                                                                                          |    |                                           |                                                             |
|------------------------------------------------------------------------------------------|----|-------------------------------------------|-------------------------------------------------------------|
| Total-P                                                                                  | NA | P, G, FP 100-ml                           | H2SO4 = pH 2, cool < 6°C                                    |
| KOC                                                                                      |    | P, G, FP 500-ml                           | 0.1 ml of 10% Sodium Thiosulfate, H2SO4 = pH 2, cool < 6°C  |
| Oil and Grease                                                                           |    | Glass, white metal PTFE lined 1,000-ml    | HCl or H2SO4 = pH 2, cool < 6°C                             |
| Phenols                                                                                  |    | P, G PTFE lined 500-ml                    | H2SO4 = pH 2, cool < 6°C                                    |
| Total Coliform (per liter/100ml)                                                         |    | P, G clear, sterile, non-reactive, 125-ml | 0.1 ml of 10% Sodium Thiosulfate, cool < 6°C, do not freeze |
| Persistent Inks                                                                          |    | NA                                        | Measured in the field                                       |
| Cyanide                                                                                  |    | P, FP 1,000-ml                            | NaOH = 12 pH, 0.1 ml of 10% Sodium Thiosulfate, cool < 6°C  |
| Sulfide                                                                                  |    | P, FP 100-ml                              | 4 drops 2M zinc acetate, NaOH > pH 10, cool < 6°C           |
| Sulfate                                                                                  | NA | P, G, FP 100-ml                           | 1-ml 2.3% EDTA, 0.5 g zinc acetate, cool < 6°C              |
| Arsimony, Chromium (total), Cobalt, Copper, Nickel, Silver, Zinc, Arsenic, Cadmium, Lead | ✓  | P, G, FP acid washed 250-ml               | HNO3 = pH 2                                                 |
| Chromium (VI)                                                                            | ✓  | G acid washed 40-ml Brown Glass VOA vial  | 0.45µm filter in field, add buffer to pH 9-10.5, cool < 6°C |
| Mercury                                                                                  | ✓  | P, G, FP acid washed 500-ml               | HNO3 < pH 2, cool < 6°C                                     |
| AP and APEOs, including All Isomers                                                      | ✓  | G 1,000-ml PTFE lined lid                 | cool < 6°C                                                  |
| Chlorobenzenes and Chlorobenzenes                                                        | ✓  | G 1,000-ml PTFE lined lid                 | cool < 6°C                                                  |
| Chlorophenols                                                                            | ✓  | G 1,000-ml PTFE lined lid                 | cool < 6°C                                                  |
| Dyes - Azo (Forming Restricted Amino)                                                    | ✓  | G 1,000-ml PTFE lined lid                 | cool < 6°C                                                  |
| Dyes - Carcinogenic or equivalent Concom                                                 | ✓  | G 1,000-ml PTFE lined lid                 | cool < 6°C                                                  |
| Dyes - Disperse (Sensitizing)                                                            | ✓  | G 1,000-ml PTFE lined lid                 | cool < 6°C                                                  |
| Flame Retardants                                                                         | ✓  | G 1,000-ml PTFE lined lid                 | cool < 6°C                                                  |
| Glycols                                                                                  | ✓  | G 1,000-ml PTFE lined lid                 | cool < 6°C                                                  |
| Halogenated Solvents                                                                     | ✓  | Three x 40-ml amber VOA vial no headspace | HCl < pH 2, cool < 6°C                                      |
| Organic Compounds                                                                        | ✓  | G 1,000-ml acid washed PTFE lined lid     | 1M HCl to pH 2-3, cool < 6°C                                |
| Perfluorinated and Polyfluorinated Chemicals (PFCs)                                      | ✓  | P 1,000-ml no PTFE lined lid              | cool < 6°C                                                  |
| Ortho-Phthalates -including all ortho isomers of phthalic acid                           | ✓  | G 1,000-ml PTFE lined lid                 | cool < 6°C                                                  |
| Polycyclic Aromatic Hydrocarbons                                                         | ✓  | G 1,000-ml PTFE lined lid                 | cool < 6°C                                                  |
| VOC                                                                                      | ✓  | Three x 40-ml amber VOA vial no headspace | HCl < pH 2, cool < 6°C                                      |

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# FIELD DATA RECORD ZERO DISCHARGE SAMPLE FOR PRIORITY CHEMICALS/ CONVENTIONAL PARAMETERS



✓    
Client Representative  
(Name & Signature)

## Quality Control

| Sample type     | Action (Y/N) | Amount | Action in lab                                                                                                                                                                                                                                                                | Action in field                                                                                                                                                |
|-----------------|--------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Field blank     | Y            | 500 ml | Fill all with distilled water (or water of corresponding salinity to sample). One sample is left in the laboratory as a control sample. Two samples are taken to the field—one as a field blank and one as a transport blank. The actions in the field are then carried out. | Field blank—open container in the field for a similar period of time as is required to take sample. Re-cap container and transport to laboratory for analysis. |
| Transport blank | Y            | 500 ml |                                                                                                                                                                                                                                                                              | Transport blank—Carry a sealed sample container in the cooler with other samples. No other action necessary in the field. Return to laboratory for analysis.   |
| Container blank | Y            | 500 ml | Fill a sample container with distilled water—do not reuse. Apply the preservation appropriate to samples taken in that container type. The sample is to be held in the laboratory for a similar period of time as the majority of samples are held before analysis.          | None                                                                                                                                                           |

Plastic: Gr amber glass PPA fluoropolymer

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-END OF THE TEST REPORT-