# TEST REPORT

**Technical Report** **(8722)166-0329** June 30, 2022
Date Received June 15, 2022 

| | |
|---|---|
| Factory Company Name: | SHAHI EXPORTS PVT LTD UNIT-105 (WPD) |
| Factory Address: | SURVEY NO: 156, KIADB INDUSTRIAL AREA, MACHENAHALLI VILLAGE, SHIVAMOGGA, KARNATAKA – 577 222. |
| Project No.: | / |
| Client Reference No.: | / |
| Sampling Method: | I001) Raw Wastewater – 6 hours - Time – weighted Composite<br>I002) Sludge – Grab |
| Sample Pick Up Date: | June 14, 2022 |
| Wastewater Discharge to: | Others |
| On-Site Effluent Treatment Plant (ETP): | Yes |
| Discharge Type: | Zero Liquid Discharge |
| Off-site ETP name (if applicable): | N/A |
| Off-site ETP address (if applicable): | N/A |
| Local Regulation: / Ordinance / requirements related to wastewater discharged are followed: | AW-330942 |
| Permit Validation Date: | 30/06/2026 |
| Parameters Exceeded Local Regulation | N/A |
| Legal compliance: | N/A |
| Conventional Parameters Overall Category: | Exceeding Foundational / Reporting Limit |
| Test Period: | June 15, 2022 - June 30, 2022 |

Sample Description:

I001) Blue color liquid – Raw Wastewater
I002) Black color Solid – Sludge

| | |
|---|---|
| Parameters exceeded maximum holding time: | N/A |

Sample Number: 8F146509871



**Bureau Veritas Consumer Products Services (I) Pvt. Ltd.**
AKR Tech Park, Ground Floor,
C Block, Survey No 112,
BANGALORE
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**REMARK**

If there are questions or concerns on this report, please contact the following persons:

| | |
|---|---|
| General enquiry and invoicing | Sunesh.nair@in.bureauveritas.com<br>080-40701621 |
| Technical enquiry-Chemical | Sudalaimuthu.vs@in.bureauveritas.com<br>080-40701639 |

This report shown the test result of the auxiliary chemical and/or raw material samples, which collected during particular factory audit. The results of this report shall not be used for any regulatory compliance purposes.

* The sampling is agreed with client.
The NABL symbol is published only on the page/s having NABL accredited tests.

**BUREAU VERITAS CONSUMER PRODUCTS SERVICES (INDIA) PVT. LTD.**
**AUTHORIZED SIGNATORIES**

**APPROVED BY :** _____

**P.Sugumar**
Lab Manager - Analytical Services

PREPARED BY: SS/MK (8722)166-0329

## Executive Summary

| **1A) Conventional Parameters** | **I001** | **I002** |
|---|---|---|
| Temperature | NR | NR |
| TSS | | |
| COD | | |
| Total-N | | |
| pH Value | | |
| Color [$m^{-1}$] (436nm; 525nm; 620nm) | | |
| $BOD_5$ | | |
| Ammonium-N | | |
| Total-P | | |
| AOX | | |
| Oil and Grease | | |
| Phenol | | |
| Coliform | | |
| Persistent Foam | | |
| ANIONS - Cyanide | | ☐ |
| ANIONS - Sulfide | | NR |
| ANIONS - Sulfite | | |
| **1B) Conventional Parameters** – METALS | ☐ | ■ |

Note / Key :

- ☐ – Meet Foundational Limit / Meet discharge license criteria / Meet Reporting Limit
- ■ – Exceeding Foundational Limit / Exceeding discharge license criteria / Exceeding Reporting Limit
- NR – Not Requested / Not required

| **ZDHC MRSL Substances** | **I001** | **I002** |
|---|---|---|
| 2A) APs and APEOs | o | o |
| 2B) Chlorobenzenes and Chlorotoluenes | o | o |
| 2C) Chlorophenols | o | o |
| 2D) Azo Dyes | o | o |
| 2E) Carcinogenic Dyes | o | o |
| 2F) Disperse Dyes | o | o |
| 2G) Flame Retardants | o | o |
| 2H) Glycols | o | o |
| 2I) Halogenated Solvents | o | o |
| 2J) Organotin Compounds | o | o |
| 2K) Perfluorinated and Polyfluorinated Chemicals | o | o |
| 2L) Phthalates | o | o |
| 2M) Poly Aromatic Hydrocarbons | o | o |
| 2N) Volatile Organic Compounds | o | o |

Note / Key :

- ● – Detected
- o – Not Detected
- NR – Not Requested
- N/A – Not Applicable

## Objective

The environment samples were tested for below parameters.

1B) Conventional Parameters – METALS
2A) APs and APEOs
2B) Chlorobenzenes and Chlorotoluenes
2C) Chlorophenols
2D) Azo Dyes
2E) Carcinogenic Dyes
2F) Disperse Dyes
2G) Flame Retardants
2H) Glycols
2I) Halogenated Solvents
2J) Organotin Compounds
2K) Perfluorinated and Polyfluorinated Chemicals
2L) Phthalates
2M) Poly Aromatic Hydrocarbons
2N) Volatile Organic Compounds
Table 3 Sludge parameter

## Sampling Plan

Basically, two environment samples were sampled per factory, including 1) Raw wastewater and 2) Sludge. Total number of sample collected will be depended on the actual factory facilities and manufacturing processes.

Method of sampling used is time-weighted composite grab samples (agreed with client.). Composite sampling shall be performed for no less than six hours, with no more than one hour between discrete samples. Each discrete sample shall be of equal volume. Wastewater and freshwater samples should, as much as possible, be collected simultaneously, during the time that PU is in normal operation. The sampling shall aim to analyse the snapshot of water quality characteristics of the operating PU. Under no circumstance shall samples be taken during times when the production process is not running or the wastewater is diluted due to heavy rainfall, etc.

Remark :

- Sampling procedure is with reference to below standards:
  1) South Australia EPA Guidelines (June 2007), Regulatory Monitoring and Testing Water and Wastewater Sampling.
  2) Australia EPA (Victoria) Guideline (June 2009), Sampling and Analysis of Waters, Wastewaters, Soils and Wastes.
  3) ISO 5667-3:2003, Water Quality - Sampling - Part 3: Guidance on the Preservation and Handling of Water Samples.
  4) ASTM D3976-92 (Reapproved 2010), Standard Practice for Preparation of Sediment Samples for Chemical Analysis.
- Field data records are attached in Appendix C.

## Test Result

ANIONS - Cyanide

**Test Method** : Reference to ISO 6703-1,2, ISO 14403-1,2, US EPA 335.2, APHA 4500-CN, HJ 484

| Tested Item(s) | Result | Unit | Conclusion |
|---|---|---|---|
| I002 | ND | mg/kg | DATA |

Note:

mg/kg = milligram per kilogram

Dry mass (total solids)

**Test Method** : Reference to US EPA 160.3 /209A

| Tested Item(s) | Result | Unit | Conclusion |
|---|---|---|---|
| I002 | 82.49 | % | DATA |

% = % by mass

1B) Conventional Parameters – METALS

| **Heavy Metals** | **I001** ***(mg/L)*** | **I002** ***(mg/kg)*** |
|---|---|---|
| Antimony( Sb )<br>*Foundational Limit: 0.1 mg/L;*<br>*Progressive Limit: 0.05 mg/L;*<br>*Aspirational Limit: 0.01 mg/L* | 0.004<br>(Aspirational) | NR |
| Chromium( Cr ), total<br>*Foundational Limit: 0.2 mg/L;*<br>*Progressive Limit: 0.1 mg/L;*<br>*Aspirational Limit: 0.05 mg/L* | 0.025<br>(Aspirational) | NR |
| Cobalt( Co )<br>*Foundational Limit:0.05 mg/L;*<br>*Progressive Limit: 0.02 mg/L;*<br>*Aspirational Limit: 0.01 mg/L* | 0.002<br>(Aspirational) | NR |
| Copper( Cu )<br>*Foundational Limit: 1 mg/L;*<br>*Progressive Limit: 0.5 mg/L;*<br>*Aspirational Limit: 0.25 mg/L* | 0.327<br>(Progressive) | NR |
| Nickel (Ni)<br>*Foundational Limit:.0.2 mg/L;*<br>*Progressive Limit: 0.1 mg/L;*<br>*Aspirational Limit: 0.05 mg/L* | 0.021<br>(Aspirational) | NR |
| Silver (Ag)<br>*Foundational Limit: 0.1 mg/L;*<br>*Progressive Limit: 0.05 mg/L;*<br>*Aspirational Limit: 0.005 mg/L* | **0.255**<br>**(Exceeding Foundational)** | NR |
| Zinc( Zn )<br>*Foundational Limit: 5 mg/L;*<br>*Progressive Limit: 1 mg/L;*<br>*Aspirational Limit: 0.5 mg/L* | 0.261<br>(Aspirational) | NR |
| Arsenic (As)<br>*Foundational Limit: 0.05 mg/L;*<br>*Progressive Limit: 0.01 mg/L;*<br>*Aspirational Limit: 0.005 mg/L* | 0.002<br>(Aspirational) | ND |
| Cadmium( Cd )<br>*Foundational Limit: 0.1 mg/L;*<br>*Progressive Limit: 0.05 mg/L;*<br>*Aspirational Limit: 0.01 mg/L* | 0.004<br>(Aspirational) | ND |
| Chromium VI( CrVI )<br>*Foundational Limit: 0.05 mg/L;*<br>*Progressive Limit: 0.005 mg/L;*<br>*Aspirational Limit: 0.001 mg/L* | ND<br>(Aspirational) | ND |
| Lead( Pb )<br>*Foundational Limit:0.1 mg/L;*<br>*Progressive Limit: 0.05 mg/L;*<br>*Aspirational Limit: 0.01 mg/L* | 0.011<br>(Aspirational) | **5**<br>**(Exceeding Reporting Limit)** |
| Mercury (Hg)<br>*Foundational Limit: 0.01 mg/L;*<br>*Progressive Limit: 0.005 mg/L;*<br>*Aspirational Limit :0.001 mg/L* | ND<br>(Aspirational) | ND |

Others Priority Chemical Groups

| | **I001** ***(µg/L)*** | **I002** ***(mg/kg)*** |
|---|---|---|
| 2A) APs and APEOs | ND | ND |
| 2B) Chlorobenzenes and Chlorotoluenes | ND | ND |
| 2C) Chlorophenols | ND | ND |
| 2D) Azo Dyes | ND | ND |
| 2E) Carcinogenic Dyes | ND | ND |
| 2F) Disperse Dyes | ND | ND |
| 2J) Organotin Compounds | ND | ND |
| 2L) Phthalates | ND | ND |
| 2M) Poly Aromatic Hydrocarbons | ND | ND |

Remark：

- Test method, reporting limit and list of chemical are summarized in tables of Appendix B.
- ND = Not detected (Please refer to reporting limit shown in Appendix B.).
- All results are in ppb as unit.
- ppm = part(s) per million; ppb = part(s) per billion; mg/kg = milligram per kilogram

Others Priority Chemical Groups

| | | |
|---|---|---|
| 2G) Flame Retardants | ND | ND |
| 2H) Glycols | ND | ND |
| 2I) Halogenated Solvents | ND | ND |
| 2K) Perfluorinated and Polyfluorinated Chemicals | ND | ND |
| 2N) Volatile Organic Compounds | ND | ND |

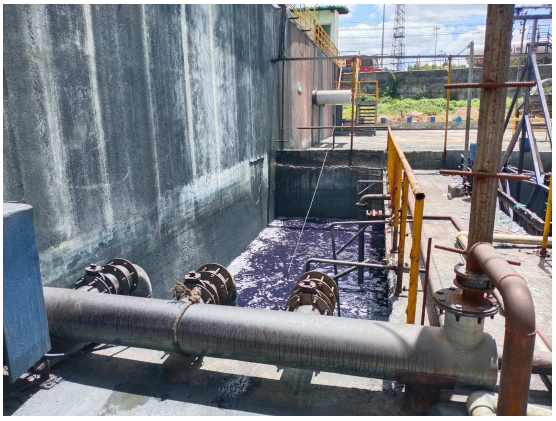
Remark：

- Test method, reporting limit and list of chemical are summarized in tables of Appendix B.
- ND = Not detected (Please refer to reporting limit shown in Appendix B.).
- All results are in ppb as unit.
- ppm = part(s) per million; ppb = part(s) per billion; mg/kg = milligram per kilogram

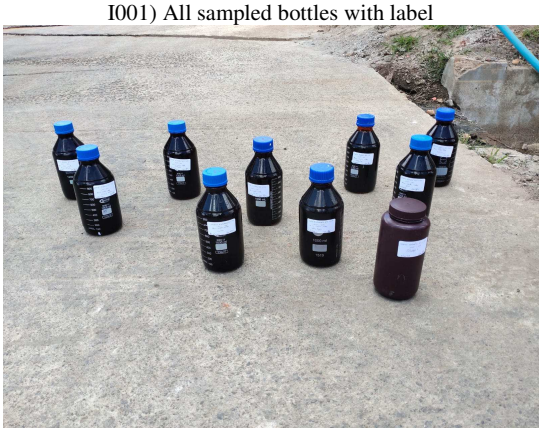
## APPENDIX A - Photo of the Sample/ Sampling Location

I001) Sampling Point
13°52'19.6"N 75°38'34.9"E

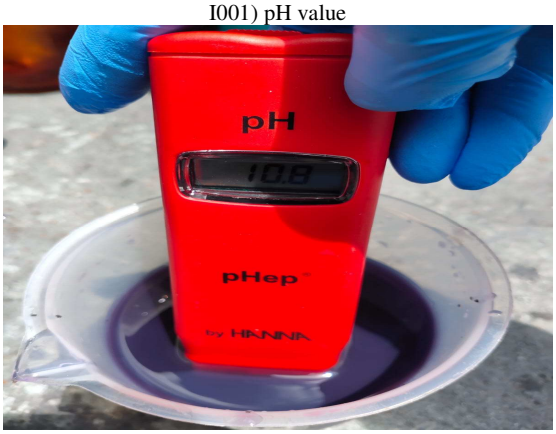
I001) Sampling Point Surrounding Environment
13°52'19.6"N 75°38'34.9"E



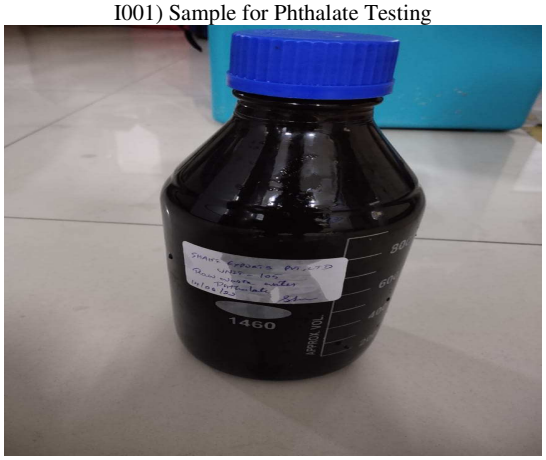
I001) All sampled bottles with label



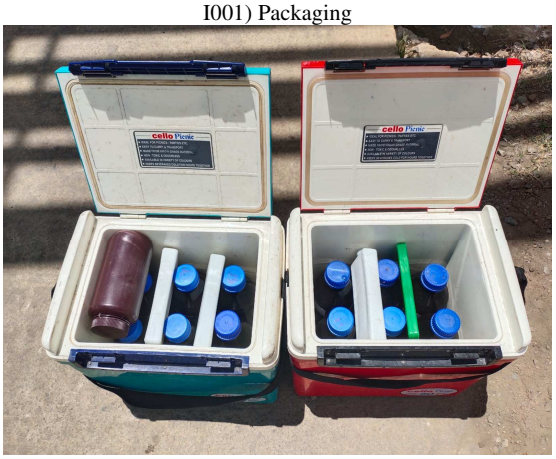
I001) pH value



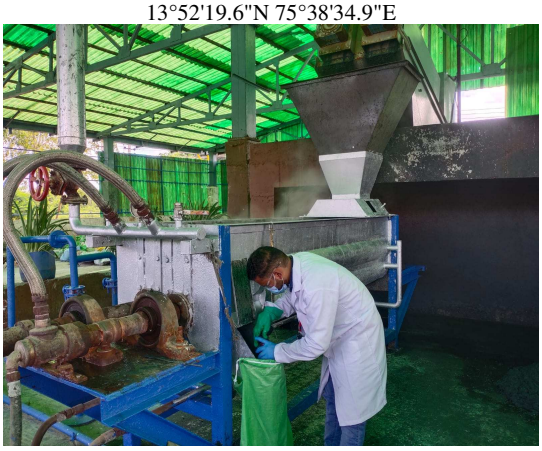

I001) Sample for Phthalate Testing



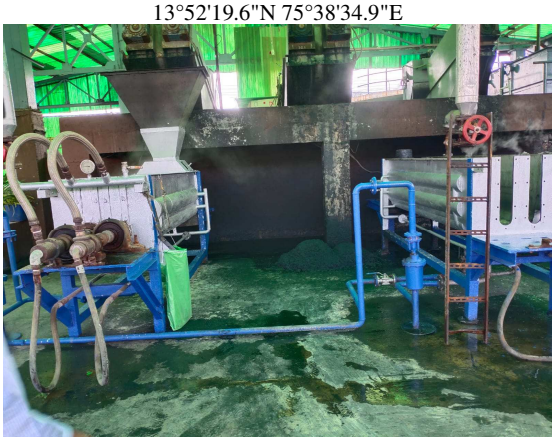
I001) Packaging



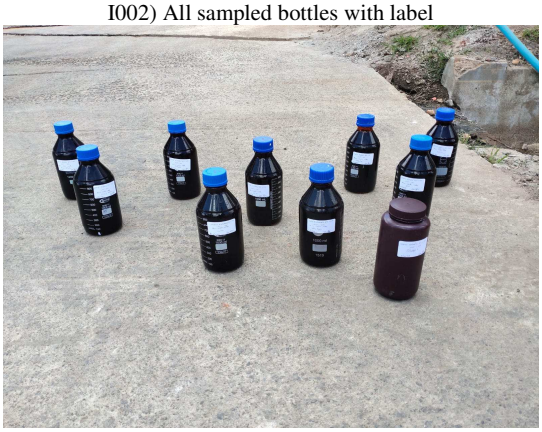
I002) Sampling Point
13°52'19.6"N 75°38'34.9"E



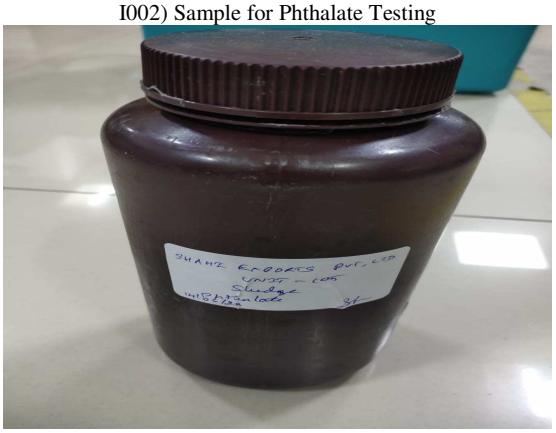
I002) Sampling Point Surrounding Environment
13°52'19.6"N 75°38'34.9"E



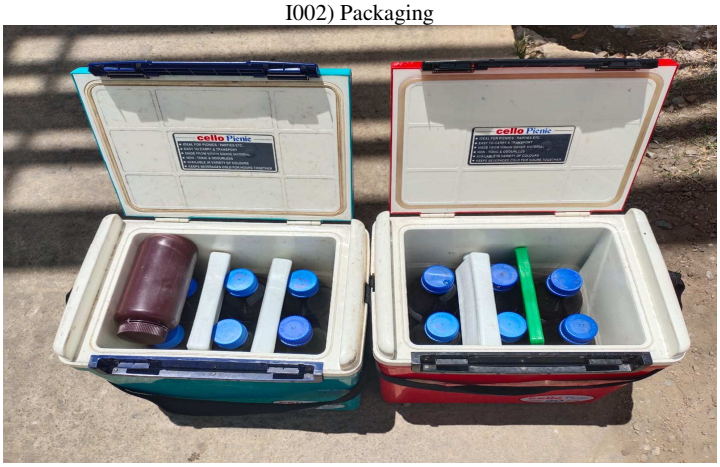
I002) All sampled bottles with label



I002) Sample for Phthalate Testing



I002) Packaging



## APPENDIX B

| Group | Substance (Testing parameter) | CAS No. | Report Limit | | Name of the testing method |
|---|---|---|---|---|---|
| | | | Wastewater (ug/L)/(ppb) | Sludge (mg/kg)/(ppm) | |
| 2A. Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers | Nonylphenol NP, mixed isomers | Various (incl. 104-40-5, 11066-49-2, 25154-52-3, 84852-15-3) | 5 | 0.4 | NP/OP: ISO 18857-2 (modified dichloromethane extraction) or ASTM D7065 (GC/MS or LC/MS(-MS)<br><br>OPEO/NPEO: ISO18857-2 or ASTM D7065(LC/MS; GC/MS or LC/MSMS for n=1,2)<br><br>APEO 1-18 |
| | Octylphenol OP, mixed isomers | Various (incl. 140-66-9, 1806-26-4, 27193-28-8) | 5 | 0.4 | |
| | Octylphenol ethoxylates (OPEO) | Various (incl. 9002-93-1, 9036-19-5, 68987-90-6) | 5 | 0.4 | |
| | Nonylphenol ethoxylates (NPEO) | Various (inc. 9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0) | 5 | 0.4 | |
| 2B. Chlorobenzenes and Chlorotoluenes | Monochlorobenzene | 108-90-7 | 0.2 | 0.2 | USEPA 8260B,8270D. Dichloromethane extraction followed by GC/MS |
| | 1,2-Dichlorobenzene | 95-50-1 | 0.2 | 0.2 | |
| | 1,3-Dichlorobenzene | 541-73-1 | 0.2 | 0.2 | |
| | 1,4-Dichlorobenzene | 106-46-7 | 0.2 | 0.2 | |
| | 1,2,3-Trichlorobenzene | 87-61-6 | 0.2 | 0.2 | |
| | 1,2,4-Trichlorobenzene | 120-82-1 | 0.2 | 0.2 | |
| | 1,3,5-Trichlorobenzene | 108-70-3 | 0.2 | 0.2 | |
| | 1,2,3,4-Tetrachlorobenzene | 634-66-2 | 0.2 | 0.2 | |
| | 1,2,3,5-Tetraclorobenzene | 634-90-2 | 0.2 | 0.2 | |
| | 1,2,4,5-Tetrachlorobenzene | 95-94-3 | 0.2 | 0.2 | |
| | Pentachlorobenzene | 608-93-5 | 0.2 | 0.2 | |
| | Hexachlorobenzene | 118-74-1 | 0.2 | 0.2 | |
| | 2-Chlorotoluene | 95-49-8 | 0.2 | 0.2 | |
| | 3-Chlorotoluene | 108-41-8 | 0.2 | 0.2 | |
| | 4-Chlorotoluene | 106-43-4 | 0.2 | 0.2 | |
| | 2,3-Dichlorotoluene | 32768-54-0 | 0.2 | 0.2 | |
| | 2,4-Dichlorotoluene | 95-73-8 | 0.2 | 0.2 | |
| | 2,5-Dichlorotoluene | 19398-61-9 | 0.2 | 0.2 | |
| | 2,6-Dichlorotoluene | 118-69-4 | 0.2 | 0.2 | |
| | 3,4-Dichlorotoluene | 95-75-0 | 0.2 | 0.2 | |
| | 3,5-Dichlorotoluene | 25186-47-4 | 0.2 | 0.2 | |
| | 2,3,4-Trichlorotoluene | 7359-72-0 | 0.2 | 0.2 | |
| | 2,3,6-Trichlorotoluene | 2077-46-5 | 0.2 | 0.2 | |
| | 2,4,5-Trichlorotoluene | 6639-30-1 | 0.2 | 0.2 | |
| | 2,4,6-Trichlorotoluene | 23749-65-7 | 0.2 | 0.2 | |
| | 3,4,5-Trichlorotoluene | 21472-86-6 | 0.2 | 0.2 | |
| | 2,3,4,5-Tetrachlorotoluene | 76057-12-0 | 0.2 | 0.2 | |
| | 2,3,5,6-Tetrachlorotoluene | 29733-70-8 | 0.2 | 0.2 | |
| | 2,3,4,6-Tetrachlorotoluene | 875-40-1 | 0.2 | 0.2 | |
| | Pentachlorotoluene | 877-11-2 | 0.2 | 0.2 | |
| 2C. Chlorophenols | 2-Chlorophenol | 95-57-8 | 0.5 | 0.05 | USEPA 8270 D Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC/MS |
| | 3-Chlorophenol | 108-43-0 | 0.5 | 0.05 | |
| | 4-Chlorophenol | 106-48-9 | 0.5 | 0.05 | |
| | 2,3-Dichlorophenol | 576-24-9 | 0.5 | 0.05 | |
| | 2,4-Dichlorophenol | 120-83-2 | 0.5 | 0.05 | |
| | 2,5-Dichlorophenol | 583-78-8 | 0.5 | 0.05 | |
| | 2,6-Dichlorophenol | 87-65-0 | 0.5 | 0.05 | |

| Group | Substance (Testing parameter) | CAS No. | Report Limit | | Name of the testing method |
|---|---|---|---|---|---|
| | | | Wastewater (ug/L)/(ppb) | Sludge (mg/kg)/(ppm) | |
| | 3,4-Dichlorophenol | 95-77-2 | 0.5 | 0.05 | |
| | 3,5-Dichlorophenol | 591-35-5 | 0.5 | 0.05 | |
| | 2,3,4-Trichlorophenol | 15950-66-0 | 0.5 | 0.05 | |
| | 2,3,5-Trichlorophenol | 933-78-8 | 0.5 | 0.05 | |
| | 2,3,6-Trichlorophenol | 933-75-5 | 0.5 | 0.05 | |
| | 2,4,5-Trichlorophenol | 95-95-4 | 0.5 | 0.05 | |
| | 2,4,6-Trichlorophenol | 88-06-2 | 0.5 | 0.05 | |
| | 3,4,5-Trichlorophenol | 609-19-8 | 0.5 | 0.05 | |
| | 2,3,4,5-Tetrachlorophenol | 4901-51-3 | 0.5 | 0.05 | |
| | 2,3,4,6-Tetrachlorophenol | 58-90-2 | 0.5 | 0.05 | |
| | 2,3,5,6-Tetrachlorophenol | 935-95-5 | 0.5 | 0.05 | |
| | Pentachlorophenol (PCP) | 87-86-5 | 0.5 | 0.05 | |
| 2D. Dyes - Azo (Forming Restricted Amines) | 4,4`-Methylene-bis-(2-chloro-aniline) | 101-14-4 | 0.1 | 0.2 | EN 14362. Reduction step with Sodiumdithionite, solvent extraction, GC/MS or LC/MS |
| | 4,4'-methylenedianiline | 101-77-9 | 0.1 | 0.2 | |
| | 4,4`-Oxydianiline | 101-80-4 | 0.1 | 0.2 | |
| | 4-Chloroaniline | 106-47-8 | 0.1 | 0.2 | |
| | 3,3`-Dimethoxybenzidine | 119-90-4 | 0.1 | 0.2 | |
| | 3,3`-Dimethylbenzidine | 119-93-7 | 0.1 | 0.2 | |
| | 6-methoxy-m-toluidine (p-Cresidine) | 120-71-8 | 0.1 | 0.2 | |
| | 2,4,5-Trimethylaniline | 137-17-7 | 0.1 | 0.2 | |
| | 4,4`-Thiodianiline | 139-65-1 | 0.1 | 0.2 | |
| | 4-Aminoazobenzene | 60-09-3 | 0.1 | 0.2 | |
| | 4-Methoxy-m-phenylenediamine | 615-05-4 | 0.1 | 0.2 | |
| | 4,4`-Methylene-di-o-toluidine | 838-88-0 | 0.1 | 0.2 | |
| | 2,6-Xylidine | 87-62-7 | 0.1 | 0.2 | |
| | o-Anisidine | 90-04-0 | 0.1 | 0.2 | |
| | 2-Naphthylamine | 91-59-8 | 0.1 | 0.2 | |
| | 3,3`-Dichlorobenzidine | 91-94-1 | 0.1 | 0.2 | |
| | 4-Aminodiphenyl | 92-67-1 | 0.1 | 0.2 | |
| | Benzidine | 92-87-5 | 0.1 | 0.2 | |
| | o-Toluidine | 95-53-4 | 0.1 | 0.2 | |
| | 2,4-Xylidine | 95-68-1 | 0.1 | 0.2 | |
| | 4-Chloro-o-toluidine | 95-69-2 | 0.1 | 0.2 | |
| | 4-Methyl-m-phenylenediamine | 95-80-7 | 0.1 | 0.2 | |
| | o-Aminoazotoluene | 97-56-3 | 0.1 | 0.2 | |
| | 5-nitro-o-toluidine | 99-55-8 | 0.1 | 0.2 | |
| 2E. Dyes-Carcionogenic or Equivalent Concern | C.I. Direct Black 38 | 1937-37-7 | 500 | 10 | Liquid Extraction LC/MS |
| | C.I. Direct Blue 6 | 2602-46-2 | 500 | 10 | |
| | C.I. Acid Red 26 | 3761-53-3 | 500 | 10 | |
| | C.I. Basic Red 9 | 569-61-9 | 500 | 10 | |
| | C.I. Direct Red 28 | 573-58-0 | 500 | 10 | |
| | C.I. Basic Violet 14 | 632-99-5 | 500 | 10 | |
| | C.I. Disperse Blue 1 | 2475-45-8 | 500 | 10 | |
| | C.I. Disperse Blue 3 | 2475-46-9 | 500 | 10 | |
| | C.I. Basic Blue 26 (with Michler's Ketone > 0.1%) | 2580-56-5 | 500 | 10 | |
| | C.I. Basic Green 4 (malachite green chloride) | 569-64-2 | 500 | 10 | |
| | C.I. Basic Green 4 | 2437-29-8 | 500 | 10 | |

| Group | Substance (Testing parameter) | CAS No. | Report Limit | | Name of the testing method |
|---|---|---|---|---|---|
| | | | Wastewater (ug/L)/(ppb) | Sludge (mg/kg)/(ppm) | |
| | (malachite green oxalate) | | | | |
| | C.I. Basic Green 4(malachite green) | 10309-95-2 | 500 | 10 | |
| | Disperse Orange 11 | 82-28-0 | 500 | 10 | |
| 2F. Dyes-disperse (sensitizing) | Disperse Yellow 1 | 119-15-3 | 50 | 2 | Liquid Extraction LC/MS |
| | Disperse Blue 102 | 12222-97-8 | 50 | 2 | |
| | Disperse Blue 106 | 12223-01-7 | 50 | 2 | |
| | Disperse Yellow 39 | 12236-29-2 | 50 | 2 | |
| | Disperse Orange 37/59/76 | 13301-61-6 | 50 | 2 | |
| | Disperse Brown 1 | 23355-64-8 | 50 | 2 | |
| | Disperse Orange 1 | 2581-69-3 | 50 | 2 | |
| | Disperse Yellow 3 | 2832-40-8 | 50 | 2 | |
| | Disperse Red 11 | 2872-48-2 | 50 | 2 | |
| | Disperse Red 1 | 2872-52-8 | 50 | 2 | |
| | Disperse Red 17 | 3179-89-3 | 50 | 2 | |
| | Disperse Blue 7 | 3179-90-6 | 50 | 2 | |
| | Disperse Blue 26 | 3860-63-7 | 50 | 2 | |
| | Disperse Yellow 49 | 54824-37-2 | 50 | 2 | |
| | Disperse Blue 35 | 12222-75-2 | 50 | 2 | |
| | Disperse Blue 124 | 61951-51-7 | 50 | 2 | |
| | Disperse Yellow 9 | 6373-73-5 | 50 | 2 | |
| | Disperse Orange 3 | 730-40-5 | 50 | 2 | |
| | Disperse Blue 35 | 56524-77-7 | 50 | 2 | |
| 2G. Flame Retardants | Tris(2-chloroethyl) phosphate (TCEP) | 115-96-8 | 5 | 1 | ISO 22032, USEPA527 and USEPA8321B. Dichloromethane extraction GC/MS or LC/MS(-MS) |
| | Decabromodiphenyl ether (DecaBDE) | 1163-19-5 | 5 | 1 | |
| | Tris(2,3-dibromopropyl) phosphate (TRIS/TDBPP) | 126-72-7 | 5 | 1 | |
| | Pentabromodiphenyl ether (PentaBDE) | 32534-81-9 | 5 | 1 | |
| | Octabromodiphenyl ether (OctaBDE) | 32536-52-0 | 5 | 1 | |
| | Bis(2,3-dibromopropyl) phosphate (BIS/BDBPP) | 5412-25-9 | 5 | 1 | |
| | Tris(aziridinyl)-phosphineoxide (TEPA) | 545-55-1 | 5 | 1 | |
| | Polybromobiphenyls (PBBs) | 59536-65-1 | 5 | 1 | |
| | Tetrabromobisphenol A (TBBPA) | 79-94-7 | 5 | 1 | |
| | Hexabromocyclododecane (HBCDD) | 3194-55-6 | 5 | 1 | |
| | 2,2-Bis(bromomethyl)-1,3-propanediol (BBMP) | 3296-90-0 | 5 | 1 | |
| | Tris(1,3-dichloro-isopropyl) phosphate (TDCP) | 13674-87-8 | 5 | 1 | |
| | Short chain chlorinated paraffins (SCCPs) (C10-C13) | 85535-84-8 | 5 | 1 | |
| 2H. Glycols | Bis(2-methoxyethyl)-ether | 111-96-6 | 50 | 10 | US EPA 8270 Liquid Extraction LC/MS |
| | 2-ethoxyethanol | 110-80-5 | 50 | 10 | |
| | 2-ethoxyethyl acetate | 111-15-9 | 50 | 10 | |

| Group | Substance (Testing parameter) | CAS No. | Report Limit | | Name of the testing method |
|---|---|---|---|---|---|
| | | | Wastewater (ug/L)/(ppb) | Sludge (mg/kg)/(ppm) | |
| | Ethylene glycol dimethyl ether | 110-71-4 | 50 | 10 | |
| | 2-methoxyethanol | 109-86-4 | 50 | 10 | |
| | 2-methoxyethylacetate | 110-49-6 | 50 | 10 | |
| | 2-methoxypropylacetate | 70657-70-4 | 50 | 10 | |
| | Triethylene glycol dimethyl ether | 112-49-2 | 50 | 10 | |
| 2I. Halogenated Solvents | 1,2-Dichloroethane | 107-06-2 | 1 | 2 | USEPA 8260B Headspace GC/MS or Purgeand-Trap-GC/MS |
| | Methylene Chloride | 75-09-2 | 1 | 2 | |
| | Trichloroethylene | 79-01-6 | 1 | 2 | |
| | Tetrachloroethylene | 127-18-4 | 1 | 2 | |
| 2J. Organotin Compounds | Mono-, di- and tri-methyltin derivatives | Multiple | 0.01 | 0.2 | ISO 17353 Derivatisation with NaB(C2H5) GC/MS |
| | Mono-, di- and tri-butyltin derivatives | Multiple | 0.01 | 0.2 | |
| | Mono-, di- and tri-phenyltin derivatives | Multiple | 0.01 | 0.2 | |
| | Mono-, di- and tri-octyltin derivatives | Multiple | 0.01 | 0.2 | |
| | Monomethyltin | Multiple | 0.01 | 0.2 | |
| | Dimethyltin | Multiple | 0.01 | 0.2 | |
| | Trimethyltin | Multiple | 0.01 | 0.2 | |
| | Monobutyltin | Multiple | 0.01 | 0.2 | |
| | Dibutyltin | Multiple | 0.01 | 0.2 | |
| | Tributyltin | Multiple | 0.01 | 0.2 | |
| | Monophenyltin | Multiple | 0.01 | 0.2 | |
| | Diphenyltin | Multiple | 0.01 | 0.2 | |
| | Triphenyltin | Multiple | 0.01 | 0.2 | |
| | Monooctyltin | Multiple | 0.01 | 0.2 | |
| | Dioctyltin | Multiple | 0.01 | 0.2 | |
| | Trioctyltin | Multiple | 0.01 | 0.2 | |
| 2K. Perfluorinated and Polyfluorinated Chemicals (PFCs) | Perfluorooctanesulfonic acid (PFOS) | 1763-23-1 | 0.01 | 0.10 | DIN 38407-42 (modified) Ionic PFC: Concentration or direct injection, LC/MS(-MS); Non-ionic PFC (FTOH): derivatisation with acetic anhydride, followed by GC/MS |
| | Perfluoro-n-octanoic acid (PFOA) | 335-67-1 | 0.01 | 0.10 | |
| | Perfluorobutanesulfonic acid (PFBS) | 29420-49-3, 29420-43-3 | 0.01 | 0.10 | |
| | Perfluoro-n-hexanoic acid (PFHxA) | 307-24-4 | 0.01 | 0.10 | |
| | 8:2 FTOH | 678-39-7 | 1 | 1 | |
| | 6:2 FTOH | 647-42-7 | 1 | 1 | |
| 2L. Phthalates (including all other esthers of phthalic acid) | Di-2-ethylhexyl phthalate (DEHP) | 117-81-7 | 10 | 2 | US EPA 8270D, ISO 18856 Dichloromethane extraction GC/MS |
| | Dimethoxyethyl phthalate (DMEP) | 117-82-8 | 10 | 2 | |
| | Di-n-octyl phthalate (DNOP) | 117-84-0 | 10 | 2 | |
| | Di-iso-decyl phthalate (DIDP) | 26761-40-0 | 10 | 2 | |
| | Di-iso-nonyl phthalate (DINP) | 28553-12-0 | 10 | 2 | |
| | Di-n-hexyl phthalate (DnHP) | 84-75-3 | 10 | 2 | |
| | Dibutyl phthalate (DBP) | 84-74-2 | 10 | 2 | |

| Group | Substance (Testing parameter) | CAS No. | Report Limit | | Name of the testing method |
|---|---|---|---|---|---|
| | | | Wastewater (ug/L)/(ppb) | Sludge (mg/kg)/(ppm) | |
| | Butyl benzyl phthalate (BBP) | 85-68-7 | 10 | 2 | |
| | Dinonyl phthalate (DNP) | 84-76-4 | 10 | 2 | |
| | Diethyl phthalate (DEP) | 84-66-2 | 10 | 2 | |
| | Di-n-propyl phthalate (DPRP) | 131-16-8 | 10 | 2 | |
| | Di-iso-butyl phthalate (DIBP) | 84-69-5 | 10 | 2 | |
| | Di-cyclohexyl phthalate (DCHP) | 84-61-7 | 10 | 2 | |
| | Di-iso-octyl phthalate (DIOP) | 27554-26-3 | 10 | 2 | |
| | 1,2-benzenedicarboxylic acid, di-C7-11-branched and linearalkyl esters (DHNUP) | 68515-42-4 | 10 | 2 | |
| | 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) | 71888-89-6 | 10 | 2 | |
| 2M. Poly Aromatic Hydrocarbons (PaHs) | Benzo[a]pyrene (BaP) | 50-32-8 | 1 | 0.2 | DIN 38407-39 Solvent extraction GC/MS |
| | Anthracene | 120-12-7 | 1 | 0.2 | |
| | Pyrene | 129-00-0 | 1 | 0.2 | |
| | Benzo[ghi]perylene | 191-24-2 | 1 | 0.2 | |
| | Benzo[e]pyrene | 192-97-2 | 1 | 0.2 | |
| | Indeno[1,2,3-cd]pyrene | 193-39-5 | 1 | 0.2 | |
| | Benzo[j]fluoranthene | 205-82-3 | 1 | 0.2 | |
| | Benzo[b]fluoranthene | 205-99-2 | 1 | 0.2 | |
| | Fluoranthene | 206-44-0 | 1 | 0.2 | |
| | Benzo[k]fluoranthene | 207-08-9 | 1 | 0.2 | |
| | Acenaphthylene | 208-96-8 | 1 | 0.2 | |
| | Chrysene | 218-01-9 | 1 | 0.2 | |
| | Dibenz[a,h]anthracene | 53-70-3 | 1 | 0.2 | |
| | Benzo[a]anthracene | 56-55-3 | 1 | 0.2 | |
| | Acenaphthene | 83-32-9 | 1 | 0.2 | |
| | Phenanthrene | 85-01-8 | 1 | 0.2 | |
| | Fluorene | 86-73-7 | 1 | 0.2 | |
| | Naphthalene | 91-20-3 | 1 | 0.2 | |
| 2N. Volatile Organic Compound (VOCs) | Benzene | 71-43-2 | 1 | 2 | ISO 11423-1 Headspace- or Purge-and-Trap-GC/MS |
| | Xylene | 1330-20-7 | 1 | 2 | |
| | o-cresol | 95-48-7 | 1 | 2 | |
| | p-cresol | 106-44-5 | 1 | 2 | |
| | m-cresol | 108-39-4 | 1 | 2 | |
| 1A. Conventional Parameters | Temperature | — | N/A | N/A | Apply the standard methods that best apply to the region (ISO, EU, US, China), please refer to ZDHC Wastewater Guidelines for more details on the testing method and the levels (Foundational, Progressive, and Aspirational). |
| | TSS | — | N/A | N/A | |
| | COD | — | N/A | N/A | |
| | Total-N | — | N/A | N/A | |
| | pH | — | N/A | N/A | |
| | Color [$m^{-1}$] (436nm; 525nm; 620nm) | — | N/A | N/A | |
| | BOD5 | — | N/A | N/A | |
| | Ammonium-N | — | N/A | N/A | |
| | Total-P | — | N/A | N/A | |
| | AoX | — | N/A | N/A | |

| Group | Substance (Testing parameter) | CAS No. | Report Limit | | Name of the testing method |
|---|---|---|---|---|---|
| | | | Wastewater (ug/L)/(ppb) | Sludge (mg/kg) /(ppm) | |
| | Oil and Grease | — | N/A | N/A | Cyanide: With reference to APHA 4500 CN—B,C&E and followed by UV analysis |
| | Phenol | — | N/A | N/A | |
| | Coliform(bacteria/100ml) | — | N/A | N/A | |
| | Persistent Foam | — | Not visible | Not visible | |
| | **ANIONS** | | | | |
| | Cyanide( CN-) | Various (incl. 57-12-5) | 0.02 | 1 | |
| | Sulfide | — | N/A | N/A | |
| | Sulfite | — | N/A | N/A | |
| Group | Substance (Testing parameter) | CAS No. | Report Limit | | Name of the testing method |
| | | | Wastewater (mg/L) / (ppm) | Sludge (mg/kg) / (ppm) | |
| 1B. Conventional Parameters - **METALS** | Antimony( Sb ) | 7440-36-0 | 0.001 | N/A | Various Acid Digestion with ICP analysis<br><br>please refer to ZDHC Wastewater Guidelines for more details on the testing method and the levels (Foundational, Progressive, and Aspirational).<br><br>Cr(VI): Various Solvent extraction and derivatisation followed by UV analysis |
| | Chromium( Cr ), total | 7440-47-3 | 0.001 | N/A | |
| | Cobalt( Co ) | 7440-48-4 | 0.001 | N/A | |
| | Copper( Cu ) | 7440-50-8 | 0.001 | N/A | |
| | Nickel (Ni) | 7440-02-0 | 0.001 | N/A | |
| | Silver (Ag) | 7440-22-4 | 0.001 | N/A | |
| | Zinc( Zn ) | 7440-66-6 | 0.001 | N/A | |
| | Arsenic (As) | 7440-38-2 | 0.001 | 2 | |
| | Cadmium( Cd ) | 7440-43-9 | 0.0001 | 2 | |
| | Chromium VI( CrVI ) | 18540-29-9 | 0.001 | 2 | |
| | Lead( Pb ) | 7439-92-1 | 0.001 | 2 | |
| | Mercury (Hg) | 7439-97-6 | 0.00005 | 0.2 | |
| **3. Conventional Parameters** | Dry mass (total solids) | — | N/A | N/A | US EPA 160.3 / 209A |

Note / Key :

ppm = part(s) per million; ppb = part(s) per billion
U. S. EPA = United States Environmental Protection Agency
APHA = American Public Health Association

## APPENDIX C – Onsite Field Data Record Sheet

| FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / ~~INDIVIDUAL~~ SAMPLING) | CPSD-AN-00613-DATA 04 |
|---|---|
| | **Issue Date:** |
| | **Version No.:** 1.3 |
| | **Business Line:** Analytical |

**General Data**

| | |
|---|---|
| Laboratory Sample Number: | C8722)166-0329 |
| Client Name: | |
| Field Contact Person: | VINOD VERMA Phone No: 8894671534 |
| Project (Facility Name and Address): | SHAHI EXPORTS PVT. LTD., ~~SE~~ VAMOGRA (Unit-105) |
| Sampling Location / Description: | Raw waste water |
| Sample Identification: | Zero discharge with sampling plan |
| Sample Type: | Composite Sample / Grab sample (Please delete as appropriate) |
| Name of Sampler: | S. AFTHIKUR RAHMAN |
| Discharge mode: | Direct discharge to environment (Specify destination: River, Sea, Stream...) OR Indirect discharge to sewage treatment plant |
| Date of collection: | 14-06-22 |
| Factory Type: | Dyeing / Printing / Washing / Finishing / Others (please specify): |
| | *Note: It would be selected more than one |

**Field Data for Wastewater**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Arrival Time: | 10:00 am | Departure Time: | 04:30 pm | | | | | |
| Field Parameters | pH: 10.8 | Temp: 33.6 °C | Color: Blue | Flow rate: (volume/min) | | | | |
| Control No. of field equipment | | | | | | | | |
| Factory with effluent treatment plant: | ✓ Yes | | No | | | | | |
| Sample matrix: | Incoming water (If required) | | | | | | | |
| | ✓ Wastewater before treatment | | | | | | | |
| | Wastewater after treatment – water at discharge point | | | | | | | |
| Sampler container number | | | | | | | | |

| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| Recording time | ID | | | | | | | | |
| | Time | 11:00am | 12:00pm | 1:00pm | 2:00pm | 3:00pm | 4:00pm | | |
| pH: | | 10.8 | 10.7 | 10.8 | 10.9 | 10.8 | 10.8 | | |
| Temp (°C): | | 33°c | 34°c | 32°c | 33°c | 34°c | 36°c | | |
| Color (visual estimation): | | Blue | Blue | Blue | Blue | Blue | Blue | | |
| Flow rate (volume/time) | | – | – | – | – | – | – | | |
| Volume collected, mL | | 1000 m | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| Total volume collected | | Remark: Total volume collected must be greater than total of sample size required | | | | | | | |

**Analysis Required and Preservation Method**

| Tests (ZDHC MRSL Parameters) | | Test required (√) | Total of sample size | Type of container | Preservation method |
|---|---|---|---|---|---|
| Combined test or Individual test (Remark 4) | 1. Phthalate | ✓ | 1000 mL total or 1000 mL each | Amber Glass,washed with nitric acid, rinsed thoroughly with distillated water and dried before use | Without adding acid Store sample at 6°C |
| | 2. Chlorobenzenes, Chlorotoluene & PAH | ✓ | | | |
| | 3. SCCPs | ✓ | | | |
| | 4. APS | ✓ | | | |
| 5. APEOs | | ✓ | 100 mL | | |
| 6. Chlorophenols & Cresols | | ✓ | 100 mL | | |
| 7. Flame retardant | | ✓ | 500 mL | | |
| 8. Dyes | | ✓ | 10 mL | | |
| 9. Glycol | | ✓ | 50 mL | | |
| 10. *Pesticides | | ✗ | 1000 mL | | |
| 11. *Nitrosamine | | ✗ | 10 mL | | |
| 12. Banned Azodyes | | ✓ | 2000 mL | | |
| 13. *Free primary aromatic amines | | ✓ | 500 mL | | |
| 14. Organotin Compounds | | ✓ | 500 mL | Amber Glass, washed with nitric acid | Acidify to pH 2 with HCl and store sample at 6°C |
| 15. VOC & Halogenated Solvents (Remark 6) | | ✓ | 10 mL | | Fill to full container without air gap; acidify to pH 2 with HCl and store sample at 6°C |
| 16. PFCs | | ✓ | 2 mL | PE, washed with pesticide grade Acetone | Without adding acid Store sample at 6°C |

## FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / ~~INDIVIDUAL~~ SAMPLING)

| CPSD-AN-00613-DATA 04 |
|---|
| **Issue Date:** |
| **Version No.:** 13 |
| **Business Line:** Analytical |

| Tests (Conventional Parameters) | | Test required (√) | Total of sample size | Type of container | Preservation method |
|---|---|---|---|---|---|
| Combined test or Individual test (Remark 4) | 17. Total suspened solids (TSS) | X | 2000 mL total or 2000 mL each | Amber Glass, washed with nitric acid, rinsed thoroughly with distillated water and dried before use | Without adding acid Store sample at 6°C |
| | 18. *Total dissolved solids (TDS) | X | | | |
| 19. 5-day Biochemical Oxygen Demand (BOD5) | | X | 1000 mL | | |
| 20. Heavy Metals except Cr(VI) & Total-P (Remark 6) | | √ | 9 mL | PE, washed with nitric acid | Acidify to pH 2 with $HNO_3$ and store at 6°C |
| 21. Cr(VI) | | √ | 95 mL | Amber Glass, washed with pesticide grade acetone | Filter by 0.45μm filter in field, fill to full container without air gap; adjust pH to 9.0-9.5 by adding ammonium buffer. Store sample at 6°C |
| 22. Cyanide | | X | 500 mL | | Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% $Na_2S_2O_3$, and store sample at 6°C |
| 23. Chemical oxygen demand (COD) | | X | 150 mL | Amber Glass; washed with nitric acid | Acidify to pH 2 with $H_2SO_4$ Store sample at 6°C |
| 24. Phenols | | X | 500 mL | | |
| 25. *Formaldehyde | | X | 25 mL | | Fill to full container without air gap; acidify to pH 2 with H2SO4 and store sample at 6°C |
| 26. Sulfide (Remark 5) | | X | 50 mL | PE, washed with pesticide grade Acetone; | Fill to full container without air gap; add 2 drops of 2M zinc acetate, adjust pH to 9 with 6M NaOH Store sample at 6°C |
| 27. Adsorbable organically bound halogens (AOX) | | X | 100 mL | Amber Glass, washed with nitric acid | Add 0.05 ml of 10% $Na_2S_2O_3$, acidify to pH 2 with $H_2SO_4$, Store sample at 6°C |
| 28. Total Coliform (Remark 6) | | X | 125 mL | PE, clean, sterile, non-reactive | Add 0.05 ml of 10% Na2S2O3, Store sample at 6°C |
| 29. Persistent foam | | X | N.A. | Foam higher than 45 cm (visual estimation): ___ Yes / No ___ | |
| 30. Sulfite | | X | 100 mL | Amber Glass, washed with pesticide grade acetone | Add 1mL of 2.5% EDTA, 0.5g zinc acetate Store sample at 6°C |
| 31. Total-N | | X | 100 mL | Amber Glass with wide-mouth PTFE lid;washed with nitric acid; | Acidify to pH 2 with H2SO4 Store sample at 6°C |
| 32. Ammonium-N | | X | 500 mL | | |
| 33. Oil and Grease & Total Hydrocarbon | | X | 1000 mL | Amber Glass; washed with nitric acid; | Acidify to pH 2 with HCl Store sample at 6°C |
| 34. Luminus Bacteria Toxicity | | X | 1000 mL | Amber Glass, washed with nitric acid, rinsed thoroughly with distillated water and dried before use | Without adding acid Store sample at 6°C |
| 35. Sulphate | | X | 100 mL | | |
| 36. Chloride | | X | 100 mL | | |
| 37. Color | | X | 100 mL | | |
| 38. Others: | | X | | | |
| Observation/ Remark: | | | | | |

*Remarks:

1.Individual sampling can be performed upon request

2. The minimum sampling time for 2016 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request.

3. Scope of ZDHC guideline: Parameter 1, 2, 4-9, 12, 14-17, 19-24, 26-33

Scope of synthetic leather industry: Parameter 1, 2, 4-9, 12, 14-17, 19-33

Scope of MMCF: Parameter 4, 5, 15, 17, 19-21, 23, 24, 26, 27, 31-34, 37

Free primary aromatic amine, pesticides, nitrosamine and TDS are not in the scope of ZDHC Guidline, they are tested upon request.

4. Refer to CPSD-AN-G00019-STIP01, loactions with those CPSD test capability inside TCD matrix can perform the combined test.

5. Refer to CPSD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested.

6. Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

Recorded by: SATTHIKUR RAHMAN Date: 14/06/22
Full name:

Comment from factory

Acknowledgement by factory

I hereby confirmed that Bureau Veritas has completed the stated sampling activity at captioned date, time and location. All sample(s) is/are collected in desinated container(s) and without any observation in leakage. Sample(s) collected by Bureau Veritas is/are stored in portable freezer / fridge that is maintained in 1-6°C

Signature of Factory Representative: Vinod Verma Date: 14.6.2022
Full Name:

CPSD-AN-00613-DATA 04-FIELD DATA RECORD ZDHC SAMPLING-V13 - Wastewater.xls Page 2 of 2

| FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (~~COMPOSITE~~ / INDIVIDUAL SAMPLING) | CPSD-AN-00613-DATA 04 |
|---|---|
| | **Issue Date:** |
| | **Version No.:** 13 |
| | **Business Line:** Analytical |

**General Data**

| | |
|---|---|
| Laboratory Sample Number: | (8722)166-0329 |
| Client Name: | |
| Field Contact Person: | VINOD VERMA Phone No: 8971671534 |
| Project (Facility Name and Address): | SHAHI EXPORTS PVT. LTD., UNIT-105 - SHIVAMOGGA |
| Sampling Location / Description: | SLUDGE |
| Sample Identification: | Zero discharge with sampling plan |
| Sample Type: | Composite Sample / Grab sample (Please delete as appropriate) |
| Name of Sampler: | S. AFTHIKUR RAHMAN |
| Discharge mode: | Direct discharge to environment (Specify destination: River, Sea, Stream...) OR Indirect discharge to sewage treatment plant |
| Date of collection: | 14/06/2022 |
| Factory Type: | Dyeing / Printing / Washing / Finishing / Others (please specify): |

*Note: It would be selected more than one

**Field Data for Sludge**

| | | | | | |
|---|---|---|---|---|---|
| Arrival Time: | 10:00 am | | Departure Time: | 04:30 pm | |
| Field Parameters | | pH : | Temp : 33.6 °C | Color : BLACK | |
| Control No. of field equipment | | | | | |

**Analysis Required and Preservation Method**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Factory with effluent treatment plant | | Yes ✓ | | | | No | | | |
| Sample matrix | | | Sludge in clarifier (sedimentation tank) | | | | | | |
| Sampler container number | | 07 | | | | | | | |
| Recording time | | 12:30PM | | | | | | | |
| **Tests (MRSL Parameter)** | | Test required (V) | Total of sample size | Type of container | | Preservation method | | | |
| **Combined test or Individual test (Remark 3)** | 1. Phthalate | ✓ | 10g total or 10g each | Amber Glass, washed with nitric acid | | Fill to full bottle without any air gap and store at 6°C | | | |
| | 2. Chlorobenzenes, Chlorotoluene & PAHs | ✓ | | | | | | | |
| | 3. SCCPs | ✓ | | | | | | | |
| | 4. APS | ✓ | | | | | | | |
| 5. APEOs | | ✓ | 20 g | | | | | | |
| 6. Chlorophenols & Cresols | | ✓ | 20 g | | | | | | |
| 7. Flame retardant | | ✓ | 10 g | | | | | | |
| 8. Dyes | | ✓ | 10 g | | | | | | |
| 9. Glycols | | ✓ | 100 g | | | | | | |
| 10. *Pesticides | | ✗ | 20g | | | | | | |
| 11. Banned Azodyes | | ✓ | 20 g | | | | | | |
| 12. *Free primary aromatic amines | | ✓ | 10 g | | | | | | |
| 13. Organotin Compounds | | ✓ | 10 g | | | | | | |
| 14. VOC & Halogenated Solvents | | ✓ | 10 g | Amber Glass, wash with pesticide grade acetone | | Fill to full container without any air gap and acid add and store at 6°C | | | |
| 15. PFCs | | ✓ | 10 g | PE, wash with pesticide garde acetone | | Fill to full bottle without any air gap and store at 6°C | | | |

| Tests (Conventional Parameters) | Test required (V) | Total of sample size | Type of container | Preservation method |
|---|---|---|---|---|
| 16. Heavy Metals except Cr(VI) | ✓ | 0.2 g | PE, wash with nitric acid | Fill to full bottle without any air gap and store at 6°C |
| 17. Cr(VI) | ✓ | 2.5 g | Amber Glass, wash with pesticide grade acetone | Fill to full container without any air gap and acid add and store at 6°C |
| 18. Adsorbable organically bound halogens (AOX) | ✗ | 1 g | | |
| 19. Extractable organichalides (EOX) | ✗ | 20 g | | |
| 20. Total organic carbon (TOC) | ✗ | 20 g | | |
| 21. Cyanide | ✓ | 50 g | | Fill to full container without any air gap and adjust pH 12 with 50% NaOH and store at 6°C |
| 22. Others | ✗ | | | |

## APPENDIX D – Limitation Value of Legal Requirements

N/A

-END-