

Test Report No.: 222279672 Date: 08-09-2021 Page 1 of 9

Factory Company Name Abir Fashions

Factory Address H-44, R-02, Kutubail, Post Office Road, Fatullah, Narayanganj

Contact Person Mr. Maynul Islam

Type of Sampling: Composite

Sample Description Waste Water

Sampling Done By: TUV Rheinland Staffs

Sample Type: 1) ETP Outlet Water (After Treatment)

Sample Pick Up Date: 02-09-2021

Test Period: 02-09-2021 to 08-09-2021

For and on behalf of
TÜV Rheinland Bangladesh Pvt. Ltd.



08-09-2021

Hasem Ali/
Director, Technical & Laboratories

Date

Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed. The laboratory apply decision rule for giving statement of conformity considering measurement of uncertainty at 95% confidence level. This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

Executive Summary:	Test result:		
Temperature	P		
Total Suspended Solids (TSS)	P		
Chemical Oxygen Demand (COD)	P		
Total Nitrogen	P		
pH Value	P		
Colour[m ⁻¹](436 nm; 525nm;620 nm)	P		
Biochemical Oxygen Demand (BOD ₅)	P		
Ammonium Nitrogen	P		
Total Phosphorous	P		
Absorbable Organic Halogens (AOX)	P		
Oil and Grease	P		
Phenol	P		
Coliform	P		
Foam	P		
Sulfide	P		
Sulfite	P		
Cyanide			Data
Metals			Data

Note : P = Pass
 # = See Data

F = Fail
 - = Did Not Perform N/A = Not Applicable

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Sampling point indication (Map)

Wastewater After Treatment: 23°38'34.8"N 90°29'06.1"E

Sampling date and time

After Treatment water: Total Sample Volume : 19L

	1	2	3	4	5	6	Remark
Sampling Time	10:00 AM	11:00 AM	12:00 PM	01:00 PM	02:00 PM	03:00 PM	

Sample storage condition: ≤4°C

Material list

Material No.	Material
M001	ETP Outlet Water (After Treatment)

Photo of the Sample/Sampling Location

ETP outlet water (After Treatment)



Test result

Temperature

Test Method : USEPA 170.1 (1994) , Analysis by Calibrated thermometer

Tested Item(s)	Unit	Result	Requirement	Conclusion
M001	deg.C	33.1	15-35	Pass

Note: deg. C = degree Celsius (°C)

Total Suspended Solids (TSS)

Test Method : USEPA 160.2 (1971)

Tested Item(s)	Unit	Result	Requirement	Conclusion
M001	mg/L	24	50	Pass

Note:

mg/L = milligram per liter

Reporting Limit: 5

N.D. = Not Detected (< Reporting Limit)

Chemical Oxygen Demand (COD)

Test Method : Reference to USEPA 410.4 (1993)

Tested Item(s)	Unit	Result	Requirement	Conclusion
M001	mg/L	45	150	Pass

Note:

mg/L = milligram per liter

Reporting Limit: 40

N.D. = Not Detected (< Reporting Limit)

Total Nitrogen (Total-N)

Test Method : Reference to APHA 4500 N-C

Tested Item(s)	Unit	Result	Requirement	Conclusion
M001	mg/L	6.1	20	Pass

Note:

mg/L = milligram per liter

Reporting Limit: 5

N.D. = Not Detected (< Reporting Limit)

pH Value

Test Method : Reference to USEPA150.1

-	Unit	Result
Tested Item(s)	-	M001
Parameter	-	-
Temp. of sample	Deg. C	31.1
pH value of Sample	-	7.6
Conclusion	-	Pass

Note:

Temp. = Temperature

deg. C = degree Celsius (°C)

Requirement: 6-9

Color [m⁻¹] (436nm: 525nm: 620nm)

Test Method : ISO 7887-B:2011

Tested Item(s)	Unit	Result	Requirement	Conclusion
M001	m ⁻¹	1.5;1.1;0.8	7; 5; 3	Pass

Biochemical Oxygen Demand (BOD5)

Test Method : Reference to USEPA 405.1 & APHA 5210B

Tested Item(s)	Unit	Result	Requirement	Conclusion
M001	mg/L	12	30	Pass

Note:

mg/L = milligram per liter

Reporting Limit: 5

N.D. = Not Detected (< Reporting Limit)

Ammonium Nitrogen

Test Method : Reference to HJ536 (2009)

Tested Item(s)	Unit	Result	Requirement	Conclusion
M001	mg/L	N.D.	10	Pass

Note:

mg/L = milligram per liter

Reporting Limit: 0.5

N.D. = Not Detected (< Reporting Limit)

Total Phosphorous (Total-P)

Test Method : Reference to GB/T 11893

Tested Item(s)	Unit	Result	Requirement	Conclusion
M001	mg/L	N.D.	3	Pass

Note:

mg/L = milligram per liter

Reporting Limit: 0.1

N.D. = Not Detected (< Reporting Limit)

Adsorbable Organic Halogen (AOX)

Test Method : EN ISO 9562

Tested Item(s)	Unit	Result	Requirement	Conclusion
M001	mg/L	N.D.	5	Pass

Note:

mg/L = milligram per liter

Reporting Limit: 0.1

N.D. = Not Detected (< Reporting Limit)

Oil & Grease

Test Method : Reference to USEPA 1664

Tested Item(s)	Unit	Result	Requirement	Conclusion
M001	mg/L	2.43	10	Pass

Note:

mg/L = milligram per liter

Reporting Limit: 0.5

N.D. = Not Detected (< Reporting Limit)

Phenol

Test Method : Reference to APHA 5530 (B, C & D)

Tested Item(s)	Unit	Result	Requirement	Conclusion
M001	mg/L	N.D.	0.5	Pass

Note:

mg/L = milligram per liter

Reporting Limit: 0.001

N.D. = Not Detected (< Reporting Limit)

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Coliform

Test Method : Reference to USEPA 9132

Tested Item(s)	Unit	Result	Requirement	Conclusion
M001	MPN/100 mL	128	400	Pass

Note:

Bacteria/100 mL = Bacteria per 100 milliliters

Reporting Limit:10

N.D. = Not Detected (< Reporting Limit)

Foam

Test Method : Visual

Tested Item(s)	Unit	Result	Requirement	Conclusion
M001	-	Not Visible	Not Visible	Pass

Anions- Sulfide

 Test Method: APHA 4500-S²-D(23rd edition):2017

Tested Item(s)	Unit	Result	Requirement	Conclusion
M001	mg/L	N.D.	0.5	Pass

Note:

mg/L = milligram per liter

Reporting Limit: 0.01

N.D. = Not Detected (< Reporting Limit)

Anions- Sulfite

Test Method: EN ISO 10304-3

Tested Item(s)	Unit	Result	Requirement	Conclusion
M001	mg/L	N.D.	2.0	Pass

Note:

mg/L = milligram per liter

Reporting Limit: 0.2

N.D. = Not Detected (< Reporting Limit)

Anions- Cyanide – (CN-)

Test Method : Reference to APHA:4500- CN

Tested Item(s)	Unit	Result	Requirement	Conclusion
M001	mg/L	N.D.	0.2	Pass

Note:

mg/L = milligram per liter

mg/kg= milligram per kilogram

Reporting Limit: 0.05

N.D. = Not Detected (< Reporting Limit)

METALS

Test Method: Wastewater: EN ISO 11885; ISO 18412

Test Parameter	Unit	RL	Requirement	Result
				M001
Sb (Antimony)	mg/l	0.005	0.1	N.D.
As (Arsenic)	mg/l	0.005	0.05	N.D.
Pb (Lead)	mg/l	0.01	0.1	N.D.
Cd (Cadmium)	mg/l	0.01	0.1	N.D.
Cr (Chromium)	mg/l	0.005	0.2	N.D.
Co (Cobalt)	mg/l	0.005	0.05	N.D.
Cu (Copper)	mg/l	0.05	1.0	N.D.
Ni (Nickel)	mg/l	0.005	0.2	N.D.
Silver (Ag)	mg/l	0.001	0.1	N.D.
Zinc (Zn)	mg/l	0.1	5.0	N.D.
Hg (Mercury)	mg/l	0.001	0.01	N.D.
Cr VI (Chromium VI)	mg/l	0.001	0.05	N.D.
Conclusion	-	-	-	Pass

Note:

mg/L = milligram per liter

mg/kg= milligram per kilogram

N.D. = Not Detected (< Reporting Limit)

-END-