

CHEMICAL ANALYSIS TEST REPORT (DRINKING WATER)



Reference Number: **ESPAK/176/19/DW/1158/00298** Date: **09/08/2019**
 Name of Industry / Client: **Combined Fabrics**
 Address: **Atta Bakhsh Road, 17 Km, Off Ferozpur Road, Lahore.**
 Telephone No.: **----**
 Nature of Sample: **Drinking Water From Outside Ladies Washroom**
 Date Sample Received: **05/08/2019** Grab / Composite: **Grab**
 Date of Sample Collection: **05/08/2019**
 Sample Collected / Sent By: **Muhammad Faraz, Field Officer, ESPAK**
 Date of Completion of Analysis: **09/08/2019**

S. No	Parameters	Limit Values (PEQS)	Concentration	Method / Equipment Used	Remarks
1	E. Coli	Must not be detectable in any 100mL Sample	Negative	SMWW 9223B	Within Prescribed Limits
2	Total Coliform Bacteria	---	Positive	SMWW 9223B	----
3	Color	≤15 TCU	4 TCU	SMWW 2120 C	Within Prescribed Limits
4	Taste	Non Objectionable / Acceptable	Acceptable	Organoleptic	Within Prescribed Limits
5	Odor	Non Objectionable / Acceptable	Acceptable	Organoleptic	Within Prescribed Limits
6	Turbidity	<5 NTU	<1 NTU	SMWW 2130B	Within Prescribed Limits
7	Total Hardness as CaCO ₃	<500 mg/L	152 mg/L	SMWW 2340C	Within Prescribed Limits
8	Total Dissolved Solids (TDS)	<1000 mg/L	860 mg/L	SMWW 2540C	Within Prescribed Limits
9	pH	6.5-8.5	7.8	SMWW 4500H ⁺ B	Within Prescribed Limits
10	Chloride (as Cl ⁻)	<250 mg/L	49 mg/L	SMWW 4500Cl ⁻ B	Within Prescribed Limits
11	Cyanide (CN ⁻)	≤0.05 mg/L	ND	SMWW 4500 CN ⁻ F	Within Prescribed Limits
12	Fluoride (F ⁻)	≤1.5 mg/L	0.4 mg/L	U.S. EPA 9214	Within Prescribed Limits
13	Nitrate (NO ₃ ⁻)	≤50 mg/L	1.15 mg/L	SMWW 4500NO ₃ ⁻ B	Within Prescribed Limits
14	Nitrite (NO ₂ ⁻)	≤3 mg/L	0.019 mg/L	SMWW 4500NO ₂ ⁻ B	Within Prescribed Limits
15	Residual Chlorine	0.2-0.5 mg/L	ND	SMWW 4500-Cl B	----
16	Phenolic Compounds (as Phenols)	NGVS	ND	SMWW 5530 D	----
17	Aluminum (Al)	≤0.2 mg/L	0.114 mg/L	U.S. EPA-200.7	Within Prescribed Limits
18	Arsenic (As)	≤0.05 mg/L	BDL	U.S. EPA-200.7	Within Prescribed Limits
19	Boron (B)	0.3 mg/L	0.487 mg/L	U.S. EPA-200.7	Within Prescribed Limits
20	Barium (Ba)	0.7 mg/L	0.078 mg/L	U.S. EPA-200.7	Within Prescribed Limits
21	Cadmium (Cd)	0.01 mg/L	BDL	U.S. EPA-200.7	Within Prescribed Limits
22	Chromium (Cr)	≤0.05 mg/L	BDL	U.S. EPA-200.7	Within Prescribed Limits
23	Copper (Cu)	2.0 mg/L	0.059 mg/L	U.S. EPA-200.7	Within Prescribed Limits
24	Mercury (Hg)	≤0.001 mg/L	BDL	U.S. EPA-200.7	Within Prescribed Limits

Faraz

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S. No	Parameters	Limit Values (PEQS)	Concentration	Method / Equipment Used	Remarks
25	Manganese (Mn)	≤0.5 mg/L	0.049 mg/L	U.S. EPA-200.7	Within Prescribed Limits
26	Lead (Pb)	≤0.05 mg/L	BDL	U.S. EPA-200.7	Within Prescribed Limits
27	Nickel (Ni)	≤0.02 mg/L	BDL	U.S. EPA-200.7	Within Prescribed Limits
28	Selenium (Se)	0.01 mg/L	BDL	U.S. EPA-200.7	Within Prescribed Limits
29	Zinc (Zn)	5.0 mg/L	0.049 mg/L	U.S. EPA-200.7	Within Prescribed Limits

PEQS: Punjab Environmental Quality Standards for Drinking Water, 2016

SMWW: Standard Methods for the Examination of Water and WasteWater 23rd Edition, American Public Health Association, American Water Works Association, Water Environment Federation USA (2017)

USEPA: United States Environmental Protection Agency

NGVS: No Guideline Value Set


BDL: Blow Detection Limit

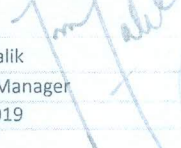
ND: Not Detected

Note:

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- The responsibility of the ethical use of this report lies with the client.
- The values represent sample conditions when monitoring/testing was carried out.
- The report data is not intended to be used legally by the client.

1. **Sample Analyzed By:** Umer Kazim Ali (Analyst), Muhammad Waqas (Analyst), Tehmina Waheed (Analyst), Muhammad Ramzan (Assistant Analyst), Muhammad Irfan (Deputy Analyst)

2. **Name of Chief Analyst with Seal:** Muhammad Arfan 

3. **Signature of Incharge of the Environmental Laboratory:** 
 Name: Imran Malik
 General Manager
 Date: 09/08/2019



----- End of Report -----

