



GLOBAL ENVIRONMENT & MINING SERVICES

(Consulting Engineers, Mine designers, Geologist & Surveyors)

3rd Main Road, Basaveswara Badavane,

HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)

Ph : +918394 355369

e-mail : gems_hpt@yahoo.com

Website : www.globalmining.in

GEMS-LD/TF/23/01

TEST REPORT OF WATER QUALITY DATA

1. Name of the Customer/Address : **Delhi World School**
3rd Mile Camp, Kustagi Road,
Sindhanur, Raichur Dist,
Karnataka State. 584128.
2. Customer Reference : Sample collected Date: 09.08.2025 (by Hand)
3. Sample collected by : **(Submitted Sample)**
4. Sample Received : 09.08.2025
5. Date of Analysis : 09.08.2025
6. Date of Completion : 11.08.2025
7. Report to be Sent : 11.08.2025
8. Sample Type : **Borewell Water**
9. Discipline : **Chemical**
10. Group : **Water**
11. Sample Quantity : Each Sample 1.0 Lts.
12. Environmental Condition : **Good**
13. Sample Method : **Not Applicable**
14. Sample Code : **180**
15. Report Number : **GEMS/BW/2025-2026/167**

Results

Sl. No	Parameters	Protocol	Unit	Results	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
PHYSICAL						
1	pH	APHA 24th Edition 4500 H +B: 2023	-	7.95	6.5 to 8.5	NR
2	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	1030	-	-
3	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	618	500max	2000 max
4	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	0.2	1 max	5max
5	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<1.0	-	-
CHEMICAL						
6	Sulphate as SO4	APHA 24th Edition 4500 SO4 E: 2023	mg/L	117.65	200max	400max
7	Phosphorus as P	APHA 24th Edition 4500 P D: 2023	mg/L	<0.01	-	-
8	Sodium as Na	APHA 24th Edition 3500 Na B : 2023	mg/L	28.78	-	-
9	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	0.00	-	-
10	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	37.28	75max	200max
11	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	32.75	30max	100max
12	Total Hardness as CaCO3	APHA 24th Edition 2340 C : 2023	mg/L	228.0	200max	600max
13	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	196.17	250max	1000 max
14	Fluoride as F	APHA 24thEditin 4500 F D : 2023	mg/L	1.06	1 max	1.5 max
15	Chemical Oxygen Demand as O2	APHA 24th Edition 5520 B: 2023	mg/L	0.00	-	-
16	Oil & Grease	APHA 24th Edition 5520 B: 2023	mg/L	0.00	-	-
17	Nitrate Nitrogen as NO3	APHA 24th Edition 4500 NO3 E : 2023	mg/L	12.52	45 max	NR max

Note:

1. The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied.
2. Water Samples will be destroyed after 7 Days, Minerals 3 Months, Filter papers & Thimbles After analysis Discard 7 days.
3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the Court of law & should not use any advertising media without special permission in writing.
4. Total liability of our laboratory is limited to the Invoice amount. Any dispute arising out of this report is subject to Hosapete jurisdiction only.
5. Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
6. Recognized by Government of Karnataka, Maharashtra, Goa for DGPS survey





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GEMS/ BW/2025-26/167

18	Total Alkalinity as CaCO ₃	APHA 24th Edition 2320 B : 2023	mg/L	188.0	200 max	600 max
19	Total Iron as Fe	APHA 24th Edition 3500 Fe B : 2023	mg/L	BDL	0.30 max	NR
TRACE METALS						
20	Nickel as Ni	APHA 24th Edition 3111 B : 2023	mg/L	BDL	0.02 max	NR
21	Manganese as Mn	APHA 24th Edition 3111 B : 2023	mg/L	BDL	0.10 max	0.30 max
22	Copper as Cu	APHA 24th Edition 3111 B : 2023	mg/L	BDL	0.05 max	1.50 max
23	Zinc as Zn	APHA 24th Edition 3111 B : 2023	mg/L	BDL	5 max	15 max
24	Lead as Pb	APHA 24th Edition 3111 B : 2023	mg/L	BDL	0.01 max	NR
25	Chromium as Cr	APHA 24th Edition 3111Cr B : 2023	mg/L	BDL	0.05 max	NR
Microbiological Parameters						
26	<i>E-Coli</i>	IS: 15185:2016	MPN/100 ml	Absent	Shall not be detectable in any 100 ml	-
27	Total Coliforms	IS: 15185:2016	MPN/100 ml	Absent	Shall not be detectable in any 100 ml	-

Note: Raw Water (Sample not drawn by us)

Total Coliforms are Absent in the Water Sample

BDL: Below Detectable Limit

Ag: Agreeable

NR: No Relaxation

RA: Reaffirmed

End of Report

Samreen P
Analysed By
Samreen P
Chemist

K. Ramakrishna Reddy
Authorised Signatory
K. Ramakrishna Reddy
Technical Manager



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2. Customer Reference : Sample collected Date: 09.08.2025 (by Hand)
3. Sample collected by : **(Submitted Sample)**
4. Sample Received : 09.08.2025
5. Date of Analysis : 09.08.2025
6. Date of Completion : 11.08.2025
7. Report to be Sent : 11.08.2025
8. Sample Type : **Filter Water**
9. Discipline : **Chemical**
10. Group : Water
11. Sample Quantity : Each Sample 1.0 Lts.
12. Environmental Condition : Good
13. Sample Method : Not Applicable
14. Sample Code : **181**
15. Report Number : **GEMS/FW/2025-2026/168**

Results

Sl. No	Parameters	Protocol	Unit	Results	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
PHYSICAL						
1	pH	APHA 24th Edition 4500 H +B: 2023	-	7.09	6.5 to 8.5	NR
2	Conductivity	APHA 24th Edition 2510 B : 2023	µS/cm	70	-	-
3	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	42	500max	2000 max
4	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	0.1	1 max	5max
5	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<1.0	-	-
CHEMICAL						
6	Sulphate as SO4	APHA 24th Edition 4500 SO4 E: 2023	mg/L	4.41	200max	400max
7	Phosphorus as P	APHA 24th Edition 4500 P D: 2023	mg/L	<0.01	-	-
8	Sodium as Na	APHA 24th Edition 3500 Na B : 2023	mg/L	1.16	-	-
9	Potassium as K	APHA 24th Edition 3500 K B : 2023	mg/L	0.00	-	-
10	Calcium as Ca	APHA 24th Edition 3500 Ca B : 2023	mg/L	1.52	75max	200max
11	Magnesium as Mg	APHA 24th Edition 3500 Mg B : 2023	mg/L	0.92	30max	100max
12	Total Hardness as CaCO3	APHA 24th Edition 2340 C : 2023	mg/L	7.6	200max	600max
13	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	10.06	250max	1000 max
14	Fluoride as F	APHA 24thEditin 4500 F D : 2023	mg/L	BDL	1 max	1.5 max
15	Chemical Oxygen Demand as O2	APHA 24th Edition 5520 B: 2023	mg/L	0.00	-	-
16	Oil & Grease	APHA 24th Edition 5520 B: 2023	mg/L	0.00	-	-
17	Nitrate Nitrogen as NO3	APHA 24th Edition 4500 NO3 E : 2023	mg/L	1.34	45 max	NR max

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19	Total Iron as Fe	APHA 24th Edition 3500 Fe B : 2023	mg/L	BDL	0.30 max	NR
TRACE METALS						
20	Nickel as Ni	APHA 24th Edition 3111 B : 2023	mg/L	BDL	0.02 max	NR
21	Manganese as Mn	APHA 24th Edition 3111 B : 2023	mg/L	BDL	0.10 max	0.30 max
22	Copper as Cu	APHA 24th Edition 3111 B : 2023	mg/L	BDL	0.05 max	1.50 max
23	Zinc as Zn	APHA 24th Edition 3111 B : 2023	mg/L	BDL	5 max	15 max
24	Lead as Pb	APHA 24th Edition 3111 B : 2023	mg/L	BDL	0.01 max	NR
25	Chromium as Cr	APHA 24th Edition 3111Cr B : 2023	mg/L	BDL	0.05 max	NR
Microbiological Parameters						
26	<i>E-Coli</i>	IS: 15185:2016	MPN/10 0ml	Absent	Shall not be detectable in any 100 ml	-
27	Total Coliforms	IS: 15185:2016	MPN/10 0ml	Absent	Shall not be detectable in any 100 ml	-

Note: Filter Water (Sample not drawn by us)

Total Coliforms are Absent in the Water Sample

BDL: Below Detectable Limit

Ag: Agreeable

NR: No Relaxation

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End of Report

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