чята: 105 (SLW TL 2022-23)001 दिनांक: 24 5 201

प्रेषक,

Technical Manager राज्य स्तरीय जल जाँच प्रयोगशाला. पेय जल एवं स्वच्छता विभाग, राँची, झारखण्ड ।

सेवा में.

The Principal, Delhi Public School Ranchi, Sail Township, P.O.: Dhurwa, Ranchi-834004 (Jharkhand).

जल जाँच के संबंध में। विषय:-

पत्रांक - DPS/RAN/WTESTING/2022-232, प्रसंग:-

दिनांक - 12/05/2022

महाशय,

उपरोक्त विषय एवं प्रसिंगिक पत्र के संदर्भ में कहना है कि दिनांक – 12/05/2022 को आपके द्वारा दिया गया जल नमुनों का रासायनिक एवं जैविक जाँच समपन्न कर जल जाँच प्रतिवेदन आपको समर्पित किया जा रहा है।

अद्द। अनुलग्नक :-00

विश्वासभाजन

5 2022 24

Technical Manager राज्य स्तरीय जल जाँच प्रयोगशाला,राँची।

-	State	Level W	ater	Testi	ing Labo	orate	ory, Ranchi, Jharkh	and		
TEST ANALYS					Doc No.: SLWTL-QP-4-F31 Issue No.: 01			TC-7351		
Issued	to :- The Principal,			S	-005					
Delhi Public School Ranchi, Sail Township, P.O.: Dhurwa, Ranchi-834				Sample Code: - 220512-GW-/ ULR NO. : - TC73512200000						
				004 (Jharkhand). Date			ate of Issue: - 24/05/2022			
Sample No.:- 01 – Bore Well (Near Junior Wing).						C	LR/CLR//MAY	-22/041		
Sample Particulars								of Sampling		
1	le Name/Description: - Gro	ound Water.					Date of sampling : -N/A	105/2022		
	le Quantity: - 1 Lit.						Sample Received date: - 12			
Samp	le pkg. Condition: - Good.						Sample collected by: - Cus Sampling Location: - Final			
Discip	oline: Chemical						Sampning Location I mar	oulier		
	started on: - 12/05/20	22	Tes	t comp	leted on :-			23/05/2022		
SI. No.	Test Parameter	Unit		sults	Method			10500:20 Re	on as per BIS – D12 (Second vision) nt – June 2015	
NO.								Acceptable Limit	Permissible Limit (In Absence of Alternate source)	
1	pH	-	6	5.93	APHA 23	Brd Ed.2	017-4500-H B, (Electrometric method)	6.5 - 8.5	No relaxation	
2	Total Dissolved Solids at 180° C	mg/L max		358	APHA 2		2017-2540 C, (Total Dissolved ds Dried at 180º C)	500	2000	
3	Turbidity	NTU max		0.6	APHA 2	3 ^{rd.} Ed	2017-2130 B, (Nephelometric method)	1	5	
4	Odour	-	Agi	eeable]	S 3025 (Part-5)	Agreeable	Agreeable	
5	Taste	-	Agr	eeable		-	Part-7) (Taste Threshold)	Agreeable	Agreeable	
6	Colour	Hazen unit		5			117-2120 B, (Visual Comparison method)	5	15	
7	Total Alkalinity as CaCO ₃	mg/L max		196	APHA 23	^{rd.} Ed.2	017-2320 B, (Titration method)	200	600	
8	Total Hardness as CaCO ₃	mg/L max		284			2017-2340 C, (EDTA Titration method)	200	600	
9	Calcium as Ca	mg/L max		64			17-3500 Ca B, (EDTA Titration method)	75	200	
10	Magnesium as Mg	mg/L max	3	0.13			2017-3500-Mg B, (Calculation method)	30	100	
11	Chloride as Cl	mg/L max	6	5.98			017-4500 Cl ⁻ B, (Argentometric method)	250	1000	
12	Fluoride as F	mg/L max	F	DL		e	2017-4500 F^- C, (Ion selective ectrode method)	1.0	1.50	
13	Nitrate as NO3	mg/L max	I	DL	spect	trophot	2017-4500 NO ₃ ⁻ B, (Ultraviolet ometric screening method)	45	No relaxation	
14	Iron as Fe	mg/L max	I	BDL	APH.		Ed.2017-3500 Fe B, (1,10- anthroline method)	1.0	No relaxation	

Remarks:-The submitted sample of water confirm to IS - 10500 with respect to above test.

Specific contractual notes: -

- The results listed refer only to the tested sample and applicable parameter. ٠
- This report, in full or in part, shall not be used for advertising or as evidence in any court of law.
- This report can not be reproduced, except when in full, without the written permission of the Lab In-charge Tested Sample shall be retained up to Fifteen Days from the date of issue of the certificate.
- ٠ The liability of the laboratory is limited to the invoiced amount.
- All disputes are subjected to the Ranchi Jurisdiction.
- NOTE:-BDL=Below Detection Limit.

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Authorised Signatory Technical Manager (Technical Manager) -- End of the Rstate Level Water Testing Laboratory D.W. & S. Deptt., Hinoo, Ranchi

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TEST ANALYSIS REPORT

Doc No.: SLWTL-QP-4-F31 Issue No.: 01 Revision No.: 01 Date :18.02.2022



Issued to :- The Principal, Delhi Public School Ranchi, Sail Township, P.O.: Dhurwa, Ranchi-834004 (. Sample No.:- 01 – Bore Well (Near Junior Wing).					lharkhand).	Sample Code: - 220512-GW-A ULR NO. : - TC735122000000 Date of Issue: - 24/05/2022 Customer Reference No. : - SI)513P(B)	22/041	
Sample Particulars				rs	Details of Sampling				
Sample	e Name/Descript	ion: - Gr	ound Water.			Date of sampling : -N/A			
Sample	e Quantity: - 1 L	.it.				Sample Received date: - 12/0	5/2022		
Sample pkg. Condition: - Good.			Sample collected by: - Customer						
				Sampling Location: - Final Ou	ıtlet				
Discipline: Chemical - Residues in Water									
Test s	tarted on: -	12/05/20	22	Test com	pleted on :-		23/05/2022		
							Specificatio	n as per BIS –	
					5		10500:20	12 (Second	
						Method	Rev	vision)	
SI. No.	Test Paran	neter	Unit	Results			Amendmen	nt – June 2015	
140.								Permissible	
							Acceptable Limit	Limit	
							Limit	(In Absence of Alternate source)	
01	Arsenic as As		μg/L max	BDL	(Silver D	IS : 3025(part-37) iethyldithiocarbmate method)	10	No relaxation	

Remarks:-The submitted sample of water confirm to IS - 10500 with respect to above test.

Specific contractual notes: -

• The results listed refer only to the tested sample and applicable parameter.

• This report, in full or in part, shall not be used for advertising or as evidence in any court of law.

This report can not be reproduced, except when in full, without the written permission of the Lab In-charge

Tested Sample shall be retained up to Fifteen Days from the date of issue of the certificate.

• The liability of the laboratory is limited to the invoiced amount.

All disputes are subjected to the Ranchi Jurisdiction.

NOTE:-BDL=Below Detection Limit.

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Authorised Signatory (Technical Manager)

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

Technical Manager State Level Water Testing Laboratory D.W. & S. Deptt., Hinoo, Ranchi



TEST ANALYSIS REPORT

Doc No.: SLWTL-QP-4-F33 Issue No.: 01 Revision No.: 01 Date: 18.02.2022

		Public School Ranchi, pwnship, P.O.: Dhurwa, Ranchi-834004 (Jharkhand). Bore Well (Near Junior Wing).								
	Com	nla Dautiquiana		Details of Sampling						
Sample Particulars Sample Name/Description: - Ground Water.				Date of sampling : -N/A						
				Sample Received date:	- 12/05/2022					
Sample Quantity: - 1 Lit.				Sample collected by: - Customer						
Sample pkg. Condition: - Good.				Sample Concerca by Concerca by Sample Concerca by Sample Concerca by Sampling Location: - Final Outlet						
				Sampling Location: - Fi	nai Oullet					
Dissiplingt Biological										
Discipline: Biological Test started on: - 12/05/2022			-	Test completed on :-	23/05/2022					
SL				Method	10500:2012	ion as per BIS – (Second Revision) ent – June 2015				
No.	Test Parameter	Unit	Results	Method	Acceptable Limit	Permissible Limit (In Absence of Alternate source)				
-		CFU/100mL	Nil	APHA 23 rd Ed.2017-9222 B	Shall not be	e detectable in any				
1	Total Coliform			(Membrane Filter Technique) / IS: 1622-1981 (MTD Test)	100	mL sample				
	Thermotolerant (Fecal)	CFU/100mL	Nil	APHA 23 ^{rd.} Ed.2017-9222 D		detectable in any				
2	Coliform/ E.coli			(Membrane Filter Technique)	100	mL sample				

Remarks:- The submitted sample of water confirm to IS + 20500 with respect to above test. Specific contractual notes: -

- The results listed refer only to the tested sample and applicable parameter.
- This report, in full or in part, shall not be used for advertising or as evidence in any court of law.
- This report cannot be reproduced, except when in full, without the written permission of the Lab In-charge
- Tested Sample shall be retained up to Fifteen Days from the date of issue of the certificate.
- The liability of the laboratory is limited to the invoiced amount.
- All disputes are subjected to the Ranchi Jurisdiction.
- NOTE: -BDL=Below Detection Limit; TNTC = Too Numerous To Count, MTD = Multiple Tube Dilution Test.

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Authorised Signatory (Technical Manager)

----End of the Report---

Technical Manager State Level Water Testing Laboratory D.W. & S. Deptt., Hinoo, Ranchi

	State		atei	Test			ory, Ranchi, Jharkh	and		
TEST ANALYSI				SIS REPORT Doc No.: SLWTL-QP-4-F31 Issue No.: 01 Revision No.: 01 Date :18.02.2022			TC-7351			
Issued	to :- The Principal,					15	Sample Code: - 220512-GW-/	1-006		
Issueu	Delhi Public School F				ULP NO : - TC735122000000514P(A)					
Sail Township, P.O.: Dhurwa, Ranchi-8340				004 (Jh	04 (Jharkhand). Date of Issue: - 24/05/2022					
Sample	e No.:- 02 - Bore Well (Ne	ar Sarna Gate)					Customer Reference No. : - S	LR/CLR//MAY	-22/041	
					Details of Sampling					
Sample	e Name/Description: - Gr	ple Particula ound Water.	irs				Date of sampling : -N/A	or Sumpring		
	e Quantity: - 1 Lit.						Sample Received date: - 12	2/05/2022		
	e pkg. Condition: - Good.						Sample collected by: - Cus			
Campt	Page Conditions - Goods				Sampling Location: - Final Outlet					
Discip	line: Chemical									
	tarted on: - 12/05/20	22	Tes	t compl	leted on :-			23/05/2022		
SI.	Test Parameter	Unit	R	sults	Method			10500:2 Re	on as per BIS – 012 (Second vision) nt – June 2015 Permissible	
No.								Acceptable Limit	Limit (In Absence of Alternate source)	
1	pН	-	e	5.72	APHA 23 rd Ed.2017-4500-H ⁻ B, (Electrometric method)		6.5 - 8.5	No relaxation		
2	Total Dissolved Solids at 180° C	mg/L max		340	APHA 23 rd Ed.2017-2540 C, (Total Dissolved Solids Dried at 180 ^o C)		500	2000		
3	Turbidity	NTU max		0.4	APHA 23	3 ^{rd.} Ec	1.2017-2130 B, (Nephelometric method)	1	5	
4	Odour	-	Agr	eeable			IS 3025 (Part-5)	Agreeable	Agreeable	
5	Taste	-	Agr	eeable			Part-7) (Taste Threshold)	Agreeable	Agreeable	
6	Colour	Hazen unit		5	APHA 23 rd	Ed.2	017-2120 B, (Visual Comparison method)	5	15	
7	Total Alkalinity as CaCO ₃	mg/L max		164			2017-2320 B, (Titration method)	200	600	
8	Total Hardness as CaCO ₃	mg/L max		256			2017-2340 C, (EDTA Titration method)	200	600	
9	Calcium as Ca	mg/L max	4	1.60)17-3500 Ca B, (EDTA Titration method)	75	200	
10	Magnesium as Mg	mg/L max	3	6.94			2017-3500-Mg B, (Calculation method)	30	100	
11	Chloride as Cl	mg/L max	6	1.98			017-4500 Cl B, (Argentometric method)	250	1000	
12	Fluoride as F	mg/L max	E	BDL		e	2017-4500 F ⁻ C, (Ion selective lectrode method)	1.0	1.50	
13	Nitrate as NO3	mg/L max	E	BDL	spectr	ropho	2017-4500 NO ₃ ⁻ B, (Ultraviolet tometric screening method)	45	No relaxation	
14	Iron as Fe	mg/L max		BDL		pher	Ed.2017-3500 Fe B, (1,10- nanthroline method)	1.0	No relaxation	
		water confirm	1.10	10500	the ways and to a	hand	4			

Remarks:-The submitted sample of water confirm to IS - 10500 with respect to above test.

Specific contractual notes: -The results listed refer only to the tested sample and applicable parameter.

٠ This report, in full or in part, shall not be used for advertising or as evidence in any court of law.

٠ This report can not be reproduced, except when in full, without the written permission of the Lab In-charge

٠ Tested Sample shall be retained up to Fifteen Days from the date of issue of the certificate. ٠

The liability of the laboratory is limited to the invoiced amount. ٠

- All disputes are subjected to the Ranchi Jurisdiction.
- NOTE:-BDL=Below Detection Limit. ٠

Authorised Signatory (Technical Manager) Technical Manager

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-- End of the Report--

State Level Water Testing Laboratory DW & S. Deptt., Hinoo, Ranchi



TEST ANALYSIS REPORT

Doc No.: SLWTL-QP-4-F31 Issue No.: 01 Revision No.: 01 Date :18.02.2022



Issued to :- The Principal, Delhi Public School Ranchi, Sail Township, P.O.: Dhurwa, Ranchi-834004 (Jharkhand). Sample No.:- 02 – Bore Well (Near Sarna Gate).	Sample Code: - 220512-GW-A-005 ULR NO. : - TC735122000000513P(B) Date of Issue: - 24/05/2022 Customer Reference No. : - SLR/CLR//MAY-22/041
Sample Particulars	Details of Sampling
Sample Name/Description: - Ground Water.	Date of sampling : -N/A
Sample Quantity: - 1 Lit.	Sample Received date: - 12/05/2022
Sample pkg. Condition: - Good.	Sample collected by: - Customer
	Sampling Location: - Final Outlet
Dissiplines Chamical Desidues in Water	

Test started on: - 12/05/2022		Test con	ipleted on :-	23/05/2022		
SL No.	Test Parameter	Unit	Results	Method	10500:20 Rev	n as per BIS – 012 (Second vision) nt – June 2015 Permissible Limit (In Absence of Alternate source)
01	Arsenic as As	μg/L max	BDL	IS : 3025(part-37) (Silver Diethyldithiocarbmate method)	10	No relaxation

Remarks:-The submitted sample of water confirm to IS + 10500 with respect to above test.

Specific contractual notes: -

• The results listed refer only to the tested sample and applicable parameter.

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Tested Sample shall be retained up to Fifteen Days from the date of issue of the certificate.

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All disputes are subjected to the Ranchi Jurisdiction.

NOTE:-BDL=Below Detection Limit.

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Authorised Signatory (Technical Manager)

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

Technical Manager
State Level Water Testing Laboratory
D.W. & S. Deptt., Hinoo, Ranchi



TEST ANALYSIS REPORT

Doc No.: SLWTL-QP-4-F33 Issue No.: 01 Revision No.: 01 Date : 18.02.2022

	to :- The Principal, Delhi Public School Ra Sail Township, P.O.: D le No.:- 02 – Bore Well (Nea	hurwa, Ranchi-83	4004 (Jharkhar	Da	mple Code: - 220512-GW ate of Issue: - 24/05/2022 astomer Reference No. : -		\Y-22/041		
	Sam	ple Particulars		Details of Sampling					
Sample Name/Description: - Ground Water.					Date of sampling : -N/A				
Sample Quantity: - 1 Lit.					Sample Received date: -	12/05/2022			
Sample pkg. Condition: - Good.					Sample collected by: - Customer				
campte pige contaition - Good					Sampling Location: - Fir				
Dissiplines Dislogical									
Discipline: Biological Test started on: - 12/05/2022					Test completed on :-	23/05/2022			
SL.			Results		Method	Specificat 10500:2012	ion as per BIS – (Second Revision) ent – June 2015		
No.	Test Parameter	Unit	Results		Method	Acceptable Limit	Permissible Limit (In Absence of Alternate source)		
1	Total Coliform	CFU/100mL	Nil	(Membra	3 rd Ed.2017-9222 B ne Filter Technique) / 2-1981 (MTD Test)		e detectable in any mL sample		
2	Thermotolerant (Fecal) Coliform/ E.coli	CFU/100mL	Nil		3 ^{rd.} Ed.2017-9222 D ne Filter Technique)		e detectable in any mL sample		

Remarks:- The submitted sample of water confirm to IS - 10500 with respect to above test.

Specific contractual notes: -

- The results listed refer only to the tested sample and applicable parameter.
- This report, in full or in part, shall not be used for advertising or as evidence in any court of law.
- This report cannot be reproduced, except when in full, without the written permission of the Lab In-charge
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- NOTE: -BDL=Below Detection Limit; TNTC = Too Numerous To Count, MTD = Multiple Tube Dilution Test.

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Authorised Signatory (Technical Manager)

----End of the Report---

Technical Manager State Level Water Testing Laboratory D.W. & S. Deptt., Hinoo, Ranchi

	to :- The Principal Delhi Public Sail Townshi No.:- 03 – R.O. V	l, School Ra p, P.O.: D Water.	TEST A	NALY	'SIS REF	PORT R	evis ate		TC A-007 00515P(A)	2-7351
•	Name/Description Quantity: - 1 Life	on: - Gro						Date of sampling : -N/A Sample Received date: - 12		
•	pkg. Condition:							Sample collected by: - Cus		
								Sampling Location: - Final	Outlet	
	ine: Chemical	2/05/201	22	Tac	teomel	eted on :-			23/05/2022	
SI. No.	tarted on: - 1	1 <u>2/05/202</u> eter	Unit		sults	Method			Specification 10500:2 Re	on as per BIS – 012 (Second vision) nt – June 2015 Permissible Limit (In Absence of Alternate source
1	pН		-	7	.09	APHA 23 rd Ed.2017-4500-H ⁻ B, (Electrometric method)		6.5 - 8.5	No relaxation	
2	Total Dissolved at 180° C	Solids	mg/L max		26	APHA 23 rd Ed.2017-2540 C, (Total Dissolved Solids Dried at 180°C)		500	2000	
3	Turbidity		NTU max		0.1	APHA 23'	^{rd.} Ed	.2017-2130 B, (Nephelometric method)	1	5
4	Odour		-	Agr	eeable			IS 3025 (Part-5)	Agreeable	Agreeable
5	Taste		-	Agr	eeable			Part-7) (Taste Threshold)	Agreeable	Agreeable
6	Colour		Hazen unit		5	APHA 23 rd	Ed.2	017-2120 B, (Visual Comparison method)	5	15
7	Total Alkalinit CaCO ₃	-	mg/L max		16			2017-2320 B, (Titration method)	200	600
8	Total Hardness CaCO ₃	s as	mg/L max		24			2017-2340 C, (EDTA Titration method)	200	600
9	Calcium as Ca	1	mg/L max		1.6	APHA 23 rd I	Ed.2()17-3500 Ca B, (EDTA Titration method)	75	200
10	Magnesium as	s Mg	mg/L max	4	.86			2017-3500-Mg B, (Calculation method)	30	100
11	Chloride as Cl		mg/L max	9	.99			017-4500 Cl ⁻ B, (Argentometric method)	250	1000
12	Fluoride as F		mg/L max	E	BDL		e	2017-4500 F ⁻ C, (lon selective lectrode method)	1.0	1.50
13	Nitrate as NO3	3	mg/L max	E	BDL	spectro	ophot	2017-4500 NO ₃ ⁻ B, (Ultraviolet ometric screening method)	45	No relaxation
14	Iron as Fe		mg/L max	E	DL			Ed.2017-3500 Fe B, (1,10- nanthroline method)	1.0	No relaxation

Remarks:-The submitted sample of water confirm to IS - 00500 with respect to above test.

Specific contractual notes: -

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The results listed refer only to the tested sample and applicable parameter. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report can not be reproduced, except when in full, without the written permission of the Lab In-charge Tested Sample shall be retained up to Fifteen Days from the date of issue of the certificate. The liability of the laboratory is limited to the involced amount.

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All disputes are subjected to the Ranchi Jurisdiction.

NOTE:-BDL=Below Detection Limit. ٠

--End of the Report---

M. M

Authorised Signatory (Technical Manager) Technical Manager State Level Water Testing Laboratory D.W. & S. Deptt., Hinoo, Ranchi

					ung Lai					
TEST ANALY					EPORT	lssue Revi	No.: SLWTL-QP-4-F31 2 No.: 01 5ion No.: 01 9 :18.02.2022	TC	7351	
	o :- The Principa Delhi Public Sail Townsh No.:- 03 – R.O.	School R ip, P.O.: I	anchi, Dhurwa, Rancl	ni-834004 (.	Jharkhand).		Sample Code: - 220512-GW-A ULR NO. : - TC73512200000 Date of Issue: – 24/05/2022 Customer Reference No. : - SI	0515P(B)	-22/041	
Sample Particulars				*6			Details o	of Sampling		
Sample Name/Description: - Ground Water.					Date of sampling : -N/A					
Sample Quantity: - 1 Lit.						Sample Received date: - 12/0	5/2022			
	Sample Quantity: - 1 Lit. Sample pkg. Condition: - Good.							ample collected by: - Customer		
Sample	e prg. Condition	- Good.					-	mpling Location: - Final Outlet		
							Sampling Docation. That et			
	ine: Chemical -]							23/05/2022		
Test st	arted on: -	12/05/20	22	Test con	npleted on a	-			n as per BIS –	
SL. No.	Test Paran	neter	Unit	Results			Method	10500:20 Rev Amendmen Acceptable	12 (Second vision) nt – June 2015 Permissible Limit	
								Limit	(In Absence of Alternate source)	
01	Arsenic as As		μg/L max	BDL	(Sil		S : 3025(part-37) thyldithiocarbmate method)	10	No relaxation	

Remarks:-The submitted sample of water confirm to IS - 10500 with respect to above test.

Specific contractual notes: -

- The results listed refer only to the tested sample and applicable parameter.
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- All disputes are subjected to the Ranchi Jurisdiction.

NOTE:-BDL=Below Detection Limit.

F L 1

Authorised Signatory (Technical Manager)

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

Technical Manager State Level Water Testing Laboratory D.W. & S. Deptt., Hinoo, Ranchi