

6.3

Water Usage and Care

6.3.2 Preventing Water System Pollution

MRIIRS Weblink to SDG 6:

<https://mriirs.edu.in/sdg06-clean-water-and-sanitation/>

Prevention of Water System Pollution

MRIIRS is extracting groundwater from three tube wells in the campus. The well head protection measures have been adopted in the campus.

- All the TWs are secured from accidental and incidental pollution by properly covering the wells.
- Further, prevention of pollution is also ensured through regular and scheduled cleaning of Over Head Tanks and Water Coolers and maintenance of RO systems.
- To ensure the extracted water quality, water quality testing is done at regular interval.

As evidence in support to 6.3.2 geotagged photographs of well head protection, sample cleaning records of Water Coolers and PVC Tanks as maintained on MIS, invoice of cleaning and chemical treatment: **Annexure Ia** and Water testing certificates: **Annexure-Ib**, have been provided. All the data are available in public domain through web site of MRIIRS.

Geotagged Pictures
of
Covered Tube Wells

The details of three tube wells are as provided below:

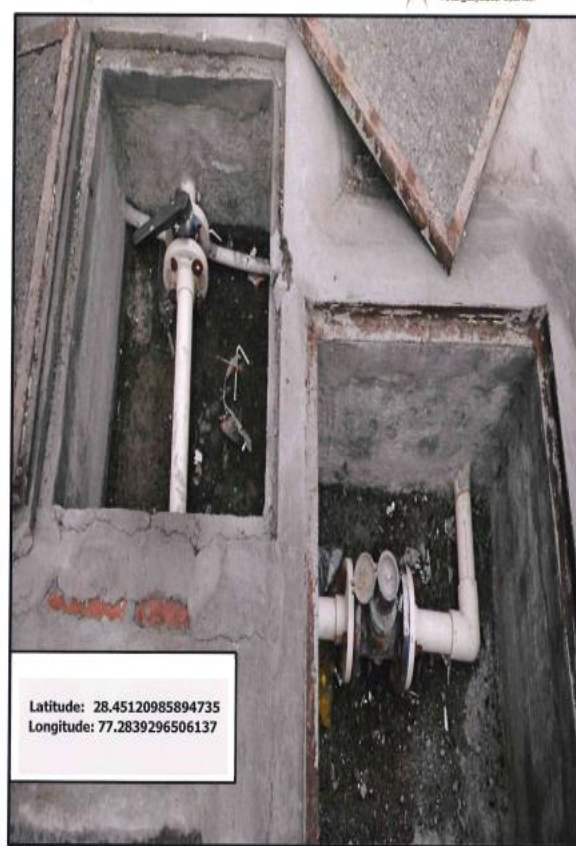
1. Tubewell-1: Location- A Block
2. Tubewell-2: Location- Football ground
3. Tubewell-3: Location- Girls Hostel

The geotagged pictures of three well covered tube wells are as provided below:



Tubewell Specifications - A Block

Latitude: 28.451209677767913, Longitude: 77.28392460048731
28°27'04.4"N 77°17'02.1"E



Tubewell- A Block

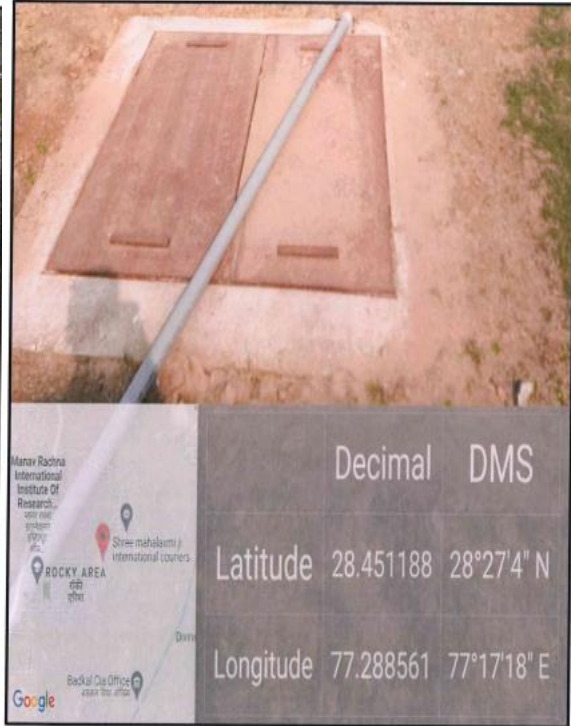
Latitude: 28.45120985894735, Longitude: 77.2839296506137
28°27'04.4"N 77°17'02.2"E

Tubewell-1: Location- A Block



Tubewell Specifications Football Ground

Latitude: 28.45114881468702, Longitude: 77.28833329673434
28°27'04.1"N 77°17'18.0"E



Tubewell -Football Ground

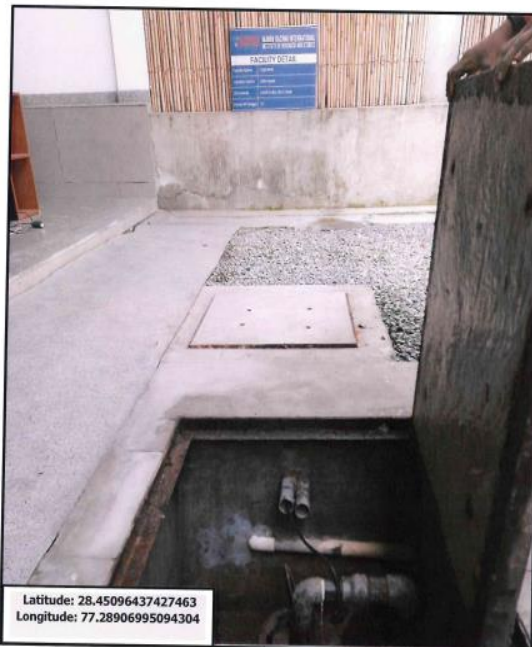
Latitude: 28.451188, Longitude: 77.288561
28°27'04.0"N 77°17'18.0"E

Tubewell-2: Location- Football ground



Tubewell Specifications - Girls Hostel

Latitude: 28.450961326595404 Longitude: 77.2890635129347
28°27'03.5"N 77°17'20.6"E



Tubewell - Girls Hostel

Latitude: 28.45096437427463, Longitude: 77.28906995094304
28°27'03.5"N 77°17'20.7"E

Tubewell-3: Location- Girls Hostel

**Cleaning and Maintenance Records of Water
Coolers and PVC Tanks as imported from MIS**

DETAILS OF MRIIRS CAMPUS WATER COOLERS / PVC TANKS CLEANING STATUS (BUILDING WISE)

Annexure - IV


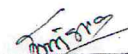
	FREQUENCY OF CLEANING	FET ('A' BLK)				FBSS ('B' BLK)				FET ('C' BLK)			
		ID NO.	CAPACITY	CLEANED ON	NEXT DUE	ID NO.	CAPACITY	CLEANED ON	NEXT DUE	ID NO.	CAPACITY	CLEANED ON	NEXT DUE
WATER COOLERS	2 MONTHS	AWC-1	150 LTR	AUG. 21	OCT. 21	BWC-1	150 LTR	AUG. 21	OCT. 21	CWC-1	150 LTR	AUG. 21	OCT. 21
		AWC-2	150 LTR	AUG. 21	OCT. 21	BWC-2	150 LTR	AUG. 21	OCT. 21	CWC-2	150 LTR	AUG. 21	OCT. 21
		AWC-3	150 LTR	AUG. 21	OCT. 21	BWC-3	150 LTR	AUG. 21	OCT. 21	CWC-3	150 LTR	AUG. 21	OCT. 21
		AWC-4	150 LTR	AUG. 21	OCT. 21								
		AWC-5	150 LTR	AUG. 21	OCT. 21								
		AWC-6	150 LTR	AUG. 21	OCT. 21								
		AWC-7											
PVC OVERHEAD DRINKING WATER TANKS	6 MONTHS	ADWT-1	1000 LTR	JUL. 21	JAN.22	BDWT-1	1000 LTR	JUL. 21	JAN.22	CDWT-1	2000 LTR	JUL. 21	JAN.22
		ADWT-2	1000 LTR	JUL. 21	JAN.22					CDWT-2	2000 LTR	JUL. 21	JAN.22
		ADWT-3	2000 LTR	JUL. 21	JAN.22								
		ADWT-4	2000 LTR	JUL. 21	JAN.22								
PVC OVERHEAD RAW WATER TANKS	6 MONTHS	ARWT-1	1000 LTR	JUL. 21	JAN.22	BRWT-1	1000 LTR	JUL. 21	JAN.22	CRWT-1	5000 LTR	JUL. 21	JAN.22
		ARWT-2	1000 LTR	JUL. 21	JAN.22	BRWT-2	1000 LTR	JUL. 21	JAN.22	CRWT-2	5000 LTR	JUL. 21	JAN.22
		ARWT-3	1000 LTR	JUL. 21	JAN.22	BRWT-3	2000 LTR	JUL. 21	JAN.22				
		ARWT-4	1000 LTR	JUL. 21	JAN.22								
		ARWT-5	1000 LTR	JUL. 21	JAN.22								
		ARWT-6	1000 LTR	JUL. 21	JAN.22								
		ARWT-7	1000 LTR	JUL. 21	JAN.22								
		ARWT-8	1000 LTR	JUL. 21	JAN.22								
		ARWT-9	5000 LTR	JUL. 21	JAN.22								
		ARWT-10	5000 LTR	JUL. 21	JAN.22								
		ARWT-11	5000 LTR	JUL. 21	JAN.22								
		ARWT-12	2000 LTR	JUL. 21	JAN.22								

	FREQUENCY OF CLEANING	FAD/Admission Cell ('E' BLK)				FMeH/Ground Floor Offices ('F' BLK)				FMS/FHM/FoC ('T' BLK)			
		ID NO.	CAPACITY	CLEANED ON	NEXT DUE	ID NO.	CAPACITY	CLEANED ON	NEXT DUE	ID NO.	CAPACITY	CLEANED ON	NEXT DUE
WATER COOLERS	2 MONTHS	EWC-1	150 LTR	AUG. 21	OCT. 21	FWC-1	150 LTR	AUG. 21	OCT. 21	TWC-1	150 LTR	AUG. 21	OCT.21
		EWC-1	150 LTR	AUG. 21	OCT. 21	FWC-2	150 LTR	AUG. 21	OCT. 21	TWC-2	150 LTR	AUG. 21	OCT.21
						FWC-3	150 LTR	AUG. 21	OCT. 21				
PVC OVERHEAD DRINKING WATER TANKS	6 MONTHS					FDWT-1	1000 LTR	JUL. 21	JAN.22	TDWT-1	2000 LTR	JUL.21	JAN.22
						FDWT-2	1000 LTR	JUL. 21	JAN.22	TDWT-2	2000 LTR	JUL.21	JAN.22
										TRWT-1	5000 LTR	JUL.21	JAN.22
PVC OVERHEAD RAW WATER TANKS	6 MONTHS	ERWT-1	4000 LTR	JUL. 21	JAN.22	FRWT-1	4000 LTR	JUL. 21	JAN.22	TRWT-2	5000 LTR	JUL.21	JAN.22
		ERWT-2	4000 LTR	JUL. 21	JAN.22	FRWT-2	4000 LTR	JUL. 21	JAN.22	TRWT-3	5000 LTR	JUL.21	JAN.22
						FRWT-3	4000 LTR	JUL. 21	JAN.22	TRWT-4	5000 LTR	JUL.21	JAN.22

	FREQUENCY OF CLEANING	MRDC/FAHS ('Q' BLK)				BOYS HOSTEL ('O' BLK)				STAFF QUARTER ('R' BLK)			
		ID NO.	CAPACITY	CLEANED ON	NEXT DUE	ID NO.	CAPACITY	CLEANED ON	NEXT DUE	ID NO.	CAPACITY	CLEANED ON	NEXT DUE
WATER COOLERS	2 MONTHS	QWC-1	150 LTR	AUG. 21	OCT.21	OWC-1	150 LTR	AUG. 21	OCT.21				
		QWC-2	150 LTR	AUG. 21	OCT.21	OWC-2	150 LTR	AUG. 21	OCT.21				
		QWC-3	150 LTR	AUG. 21	OCT.21	OWC-3							
		QWC-4	150 LTR	AUG. 21	OCT.21								
PVC OVERHEAD DRINKING WATER TANKS	6 MONTHS	QDWT-1	1000 LTR	JUL.21	JAN.22	ODWT-1	1000 LTR	JUL.21	JAN.22				
		QDWT-2	1000 LTR	JUL.21	JAN.22								
		QDWT-3	2000 LTR	JUL.21	JAN.22								
		QDWT-4	2000 LTR	JUL.21	JAN.22								
		QDWT-5	2000 LTR	JUL.21	JAN.22								
		QDWT-6	2000 LTR	JUL.21	JAN.22								
PVC OVERHEAD RAW WATER TANKS	6 MONTHS	QRWT-1	2000 LTR	JUL.21	JAN.22	ORWT-1	1000 LTR	JUL.21	JAN.22	RRWT-1	5000 LTR	JUL.21	JAN.22
		QRWT-2	5000 LTR	JUL.21	JAN.22	ORWT-2	1000 LTR	JUL.21	JAN.22	RRWT-2	5000 LTR	JUL.21	JAN.22
		QRWT-3	5000 LTR	JUL.21	JAN.22	ORWT-3	1000 LTR	JUL.21	JAN.22				
		QRWT-4	5000 LTR	JUL.21	JAN.22								
		QRWT-5	5000 LTR	JUL.21	JAN.22								
		QRWT-6	5000 LTR	JUL.21	JAN.22								
		QRWT-7	5000 LTR	JUL.21	JAN.22								

	FREQUENCY OF CLEANING	GIRLS HOSTEL ('720 & 721/21A)				GIRLS HOSTEL ('S' BLOCK)			
		ID NO.	CAPACITY	CLEANED ON	NEXT DUE	ID NO.	CAPACITY	CLEANED ON	NEXT DUE
WATER COOLERS	2 MONTHS		200 LTR	AUG. 21	OCT.21	SWC-1	150 LTR	AUG. 21	OCT.21
			100 LTR	AUG. 21	OCT.21	SWC-2	150 LTR	AUG. 21	OCT.21
			100 LTR	AUG. 21	OCT.21	SWC-3	150 LTR	AUG. 21	OCT.21
			100 LTR	AUG. 21	OCT.21	SWC-4	150 LTR	AUG. 21	OCT.21
PVC OVERHEAD DRINKING WATER TANKS	6 MONTHS	721	5000 L (2)	JUL.21	JAN.22	SDWT-1	1000 LTR	JUL.21	JAN.22
		721	2000 L (1)	JUL.21	JAN.22	SDWT-1	1000 LTR	JUL.21	JAN.22
		720	1000 L(6)	JUL.21	JAN.22				
RCC RAW WATER TANK	6 MONTHS	721	10000 LTR	JUL.21	JAN.22	SRWT-1	5000 LTR	JUL.21	JAN.22
		721	10000 LTR	JUL.21	JAN.22	SRWT-2	5000 LTR	JUL.21	JAN.22
						SRWT-3	5000 LTR	JUL.21	JAN.22
						SRWT-4	5000 LTR	JUL.21	JAN.22

**Invoice of cleaning and chemical treatment
of
Tube Wells**

Supplier Name & Address :		PURCHASE ORDER			
M/s SANDEEP ELECTRICAL ENGINEERING CO. A-796, DABUA COLONY N.I.T. FARIDABAD - 121001 Contact: Sh. Sandeep - 9891225662, 9540311919 GST NO. : 06AJAPD854N1ZY		No. : 2019-20/MAR/MRIIRS/PO/815	Date : 07.03.2020	Ref. : Quotation	Date : 25.02.2020
Subject : Purchase Order We are pleased to place an order for following :					
S.No.	Description	UOM	Qty	Unit Price (Rs.)	Total Price (Rs.)
1	Water Level Controller (WL-500)	Nos	10	1400	14000.00
2	Water Level Pro	Nos	10	250	2500.00
Total					16500.00
GST @18%					2970.00
Grand Total					19470.00
NOTE: ALL OTHER TECHNICAL SPECIFICATIONS AND FEATURES AS PER YOUR QUOTATION & APPROVED BY OUR DEPTT.					
Terms & Condition :-					
* Payment : After Delivery					
* FOR : Inclusive at our Institute					
* Warranty : 1 year					
* Taxes : As mentioned above					
* Delivery : Immediate at MRIIRS, Sector 43, Faridabad - Haryana					
* Our contact person: Mr. K.S. Mishra					
* Kindly quote Our Purchase Order Number in your bill					
* Jurisdiction : The Court of Faridabad have the sole jurisdiction in case of dispute.					
* Declaration : That ordered/Item are for institutional purpose and not for further sale.We are not registered under GST.					
For Manav Rachna International Institute of Research and Studies					
<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  BLADEV NAGPAL GM - PURCHASE </div> <div style="text-align: center;">  Sh. K. S. Mishra </div> </div>					



GSTIN No. 06BBQPS9007M2ZV

TAX INVOICE

M: 9810474087

GANGOTRI PURIFIERS

Regd. Office : Plot No. 403, Gate No. 3, Sector-46, Faridabad - 121001 (Hr.)

- Original for Buyer
- Duplicate for Transporter
- Triplicate for Assessee

Invoice Serial No. : 177 Invoice Date : 16/03/21 Transportation Mode : _____
 State : Haryana, State Code : 06 Veh. No. _____
 Reverse Charge : (Yes/No) _____ Date & Time of Supply : _____
 Place of Supply : _____ Party P.O. _____

Detail of Receiver / Consignee
 Name : MRIIRS
 Address : Sec-43, Surajkund Road, Faridabad
 GSTIN : _____ State : HR State Code : 06

S No	Description of Goods	HSN Code (GST)	Qty	Rate As per item	Unit	Taxable Value	
						Rs.	P
1)	<u>Cleaning and Chemical treatment of U/G and of water storage tanks</u>	<u>8844</u> <u>8610</u>		<u>(Sheet attached)</u>		<u>16,723</u>	<u>02</u>

Invoice Value (in word) Nineteen thousand seven hundred thirty three and paise fourteen only
 Total 16,723-00
 Freight Charges —
 CGST 9% 1505-07
 SGST 9% 1505-07
 IGST —
 Round Off 19,733-14
 Invoice Total 19,733-14

Certified that the particulars given above are true and correct and the amount indicated represents the price actually charged and that there is no flow of additional consideration directly or indirectly from the buyer.

Term & Conditions:
 1. Please pay by Payment A/C Cheque / DD only. 2. All disputes subject to Faridabad jurisdiction Only.
 3. If payment is not made within 15 days interest @ 24% per annum will be charged.

E & O E.
 Received the above goods in good conditions : _____
 Customer's Signature _____ Checked by _____
 For Gangotri Purifiers _____
 Authorised Signatory _____

[Handwritten Signature]



[Handwritten Mark]

STIN No. 06BBQPS9007M2ZV

TAX INVOICE

M: 9810474

GANGOTRI PURIFIERS

Regd. Office : Plot No. 403, Gate No. 3, Sector-46, Faridabad - 121001 (Hr.)

- Original for Buyer
- Duplicate for Trans
- Triplicate for Asses

Invoice Serial No. : 179 Invoice Date : 16/03/21 Transportation Mode :
 State : Haryana, State Code : 06 Veh. No. :
 Reverse Charge : (Yes/No) Date & Time of Supply :
 Place of Supply : Party P.O :

Detail of Receiver / Consignee
 Name : Manan Rachna Dental College -
 Address : Sec-43, Suraj Kund Road, Faridabad.

GSTIN : State : HR State Code : 06

S. No.	Description of Goods	HSN Code (GST)	Qty	Rate As per item	Unit	Taxable Value Rs.
1)	Cleaning and chemical treatment of U/G and O/A water storage tanks	8044 8410	(List attached)			21522

Invoice Value (in word) : Twenty five thousand three hundred ninety five and paise ninety six only.	Total	21522
	Freight Charges	
	CGST 9%	1936
	SGST 9%	1936
	IGST	
	Round Off	25395
	Invoice Total	25395

Certified that the particulars given above are true and correct and the amount indicated represents the price actually charged and that there is no flow of additional consideration directly or indirectly from the buyer.

Term & Conditions:
 1. Please pay by Payment A/C Cheque / DD only. 2. All disputes subject to Faridabad jurisdiction Only
 3. If payment is not made within 15 days interest @ 24% per annum will be charged.

E & O.E.
 Received the above goods in good conditions
 Customer's Signature Checked by For Gangotri Purifiers Authorised Signa

Manish



Annexure Ib

Water Testing Certificates



Ref.No.:FDRA/20050/2021

Dated:27/12/2021

TEST CERTIFICATE

Date & Time of Collection:- N.A.
Collected by:- Sender
Source:- R.O. Water

Date of Receipt:23/12/2021
Date of Analysis:23/12/2021 to 27/12/2021

ISSUED TO:

M/S Manav Rachna International University,
A- Block, Sector-43, Suraj Kund Road,
Faridabad, Haryana

Lab No.: 6070/W/2021
Your Ref.No.: NIL

SAMPLE DESCRIPTION: A Water Sample in a Pet Bottle.

TEST RESULTS (AS PER IS:10500-2012)

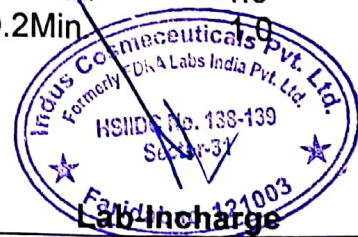
S.NO.PARAMETERS	RESULTS	IS:REQUIREMENTS	
		RELAXATION in absence Desirable Limits	of Alternate Source
PHYSICAL EXAMINATION			
1. Colour	Unobjectionable	5 H.U. (Max.)	15
2. Odour	Agreeable	Agreeable	Agreeable
3. Taste	Agreeable	Agreeable	Agreeable
4. Turbidity, NTU	NIL	1Max.	5
5. pH	6.58	6.5-8.5	No Relaxation
6. Dissolved Solids (mg/l)	68mg/l	500	2000

CHEMICAL EXAMINATION (mg/l)

1. Total Alkalinity (as CaCO ₃)	45mg/l	200Max.	600
2. Chlorides (as Cl)	40mg/l	250Max.	1000
3. Total Hardness (as CaCO ₃)	38mg/l	200Max.	600
4. Iron (as Fe)	*BDL	0.3Max.	No Relaxation
5. Fluoride (as F)	*BDL	1.0Max.	1.5
6. Residual Free Chlorine	*BDL	0.2Min	

*B.D.L.:- Below detectable Limits.

Chemist/Microbiologist



Note :

- The result listed refer only to tested parameters, Endorsement of product in neither inferred nor implied.
- Total Liabilities of our laboratory is limited to invoiced amount
- Sample will be destroyed after one month from the date of issue test certificate unless otherwise specified.
- This report is not to be reproduced wholly or in part & cannot be used in any advertising media or in any court without our special permission in writing.



Ref.No.:FDRA/20050/2021

Dated:27/12/2021

TEST CERTIFICATE

Date & Time of Collection:- N.A.

Date of Receipt:23/12/2021

Collected by:- Sender

Date of Analysis:23/12/2021 to 27/12/2021

Source:- R.O. Water

ISSUED TO:

M/S Manav Rachna International University,
A- Block, Sector-43, Suraj Kund Road,
Faridabad, Haryana

Lab No.: 6070/W/2021

Your Ref.No.: NIL

SAMPLE DESCRIPTION: A Water Sample in a Pet Bottle.

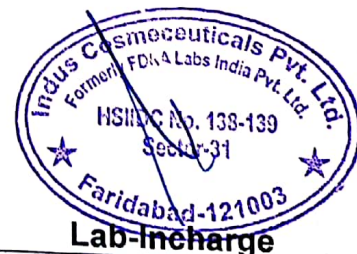
BACTERIOLOGICAL EXAMINATION

MAX. ALLOWED AS PER

<u>PARAMETERS</u>	<u>RESULTS</u>	<u>W.H.O. Guidelines</u>	<u>IS-10500:2012</u>
Most Probable Number of Coliforms Organisms per 100ml. of Water.	(Absent)	3	Absent

OPINION:- The Bacteriological analysis of the sample indicates that it is **Fit / Unfit / Repeat Sampling Required** for Human Consumption.

Chemist/Microbiologist



Note :

1. The result listed refer only to tested parameters, Endorsement of product in neither inferred nor implied.
2. Total Liabilities of our laboratory is limited to invoiced amount
3. Sample will be destroyed after one month from the date of issue test certificate unless otherwise specified.
4. This report is not to be reproduced wholly or in part & cannot be used in any advertising media or in any court without our special permission in writing.



TEST CERTIFICATE

Issued To : **MRIIRS**
Delhi Suraj kund Road
Sector 43,
Faridabad, Haryana - 121004

Report No: 11-290421-01
Report Date: 19/05/2021
Sample Received On : 29/04/2021
Sampled By: AES Labs (SM 1.4)

Description : **Raw Water, Source: Q- Block**

Analysis Start Date : 29/04/2021
Analysis End Date : 19/05/2021

Page 1 of 2

Drinking Water - Essential Tests as per IS 10500:2012

RESULTS

S.No. Parameter	Test Method	Results	Units	Limit	Extended Limits
Biological Water					
Bacteriological Quality of Drinking Water					
1 Coliform	IS 15185 : 2002	Absent	cfu/100ml	Absent	-
2 E. coli	IS 15185 : 2002	Absent	cfu/100ml	Absent	-
Chemical Water					
Organoleptic and Physical Parameters					
3 Colour	IS 3025: (Pt-4):1983	<1.0	Hazen	Max 5	Max 15
4 Odour	IS 3025: (Pt-6):1983	Agreeable	-	Agreeable	Agreeable
5 pH value at 25°C	IS 3025: (Pt-11):1983	7.3	-	6.5-8.5	No Relaxation
6 Taste	IS 3025: (Pt-8):1984	Agreeable	-	Agreeable	Agreeable
7 Turbidity	IS 3025: (Pt-10):1984	<1.0	NTU	Max 1	Max 5
8 Total Dissolved Solids	IS 3025 (Pt-16) : 1984	586*	mg/l	Max 500	Max 2000
General Parameters Concerning Substances Undesirable					
9 Chloride (as Cl)	IS 3025: (Pt-32):1988	75.44	mg/l	Max 250	Max 1000
10 Fluoride (as F)	IS 3025: (Pt-60):2008	0.601	mg/l	Max 1	Max 1.5



AUTHORISED SIGNATORY



AUTHORISED SIGNATORY

[Handwritten Signature]



Terms & Conditions

visit us at <http://www.aeslabs.com>

- The results indicated only refer to the tested samples and listed parameters and do not endorse any product.
- Total liability of the laboratory is limited to the invoiced amount.
- This certificate shall not be reproduced wholly or in part without prior written consent of the laboratory.
- Samples received shall be destroyed after four weeks from the date of issue of the certificate unless specified otherwise.