

# Jal Jeevan Mission

Har Ghar Jal

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Jal Jeevan Mission

## District Level Water Analysis Laboratory , U.P Jal Nigam (Rural), ALIGARH

BUILDINGNO 01, ADHIKSHAN ABHIYANTA KARYALAYA, NIRMAN MANDAL, U.P. JAL NIGAM, RAMGHATROAD, ALIGARH ALIGARH,UTTARPRADESH-202001 (Test Address only )

### Test report

Sample  
Id:

U1485429S21114635

### User Information

Name:	Kalpataru power transmission limited	Mobile:	6398162959
Email:	vikas.om@kalpatarugroup.com	Pin Code:	207248
Full Address:	Village- Arjunai Simrai , Gram Panchayat- Arjunai Simrai, Block- Aliganj, District- Etah, State- Uttar Pradesh		

### Sample description

Source of Sample:	Ramnagar Rijor	Village:	Ramnagar Rijor
Gram Panchayat:	Ramnagar Rijor	Block:	Sakit
District:	Etah	State:	Uttar Pradesh
Address:		Remarks:	
Latitude:		Longitude:	

#### Date & time of sample collection

22.06.2024 | 03:17:00 PM

#### Date & time of sample received in lab

22.06.2024 | 06:05:00 PM

#### Date & time of sample analysed

25.06.2024 | 12:02:00 PM

#### Date & time of report generation

28.06.2024 | 12:36:40 PM

## Test results

S. No.	Parameters tested	Unit of measurement	Requirement (acceptable limit) as per BIS 10500	Permissible limit (in absence of alternate source) as per BIS 10500	Test result value	Method of Analysis	Remarks
1	Calcium (as Ca)*	mg/l	75	200	73.700	EDTA Titrimetric method	
2	Chloride (as Cl)*	mg/l	250	1000	128.200	Argentometric method	
3	Colour*	Hazen units	5	15	1.000	Visual comparison method	
4	E. coli	CFU/100 ml	Shall not be detectable in any 100 ml sample	No Relaxation	0.000	MFT	
5	Fluoride (as F)*	mg/l	1	1.5	0.270	Ion selective electrode method	
6	Iron (As Fe)*	mg/l	1	No Relaxation	0.090	Phenanthroline method or as per IS 15303:2002 Electrothermal atomic absorption/Spectrophotometer method	
7	Magnesium (As Mg)*	mg/l	30	100	78.700	Calculation by APHA	
8	Nitrate (as NO <sub>3</sub> )*	mg/l	45	No Relaxation	15.800	UV-Visible Spectrophotometer	
9	pH*	NA	6.5-8.5	No Relaxation	7.360	Electrometric method	
10	Sulphate (as SO <sub>4</sub> )*	mg/l	200	400	52.200	Turbidimetric method	
11	TDS*	mg/l	500	2000	962.000	Gravimetric method	
12	Total Alkalinity (as Calcium Carbonate)*	mg/l	200	600	396.000	Titration method	
13	Total Arsenic (As As)	mg/l	0.01	No Relaxation	0.001	Silver diethyldithiocarbamate (SDDC) method using UV-Visible Spectrophotometer	
14	Total coliform	CFU/ 100 ml	Shall not be detectable in any 100 ml sample	No Relaxation	0.000	MFT	
15	Total Hardness (As CaCO <sub>3</sub> )*	mg/l	200	600	508.000	EDTA Titrimetric method	
16	Turbidity*	NTU	1	5	3.060	Nephelometric method	

**Note:**

1)\*indicates parameters that are NABL accredited.

2)This test results related to the sample tested above

3)The report shall not to be reproduced in full without approval of authority

4)This is the end of the report

**Data prepared by**

Chemist: (Yashwant Singh)

Microbiologist: (Yashwant Singh)

**Authorised signatory**

Shailender rajawat (Test Lab Incharge)

\*\*\*\*\*This is an electronically generated report and does not require a signature.\*\*\*\*\*

**Jal Jeevan Mission aims at potable tap water supply to every home**

Let's join hands to ensure drinking water is potable. It helps in preventing water borne diseases and improve public health.

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KALPA-TARU



aarvee associates  
architects engineers & consultants pvt. ltd.



QUALITY MANAGEMENT SYSTEM

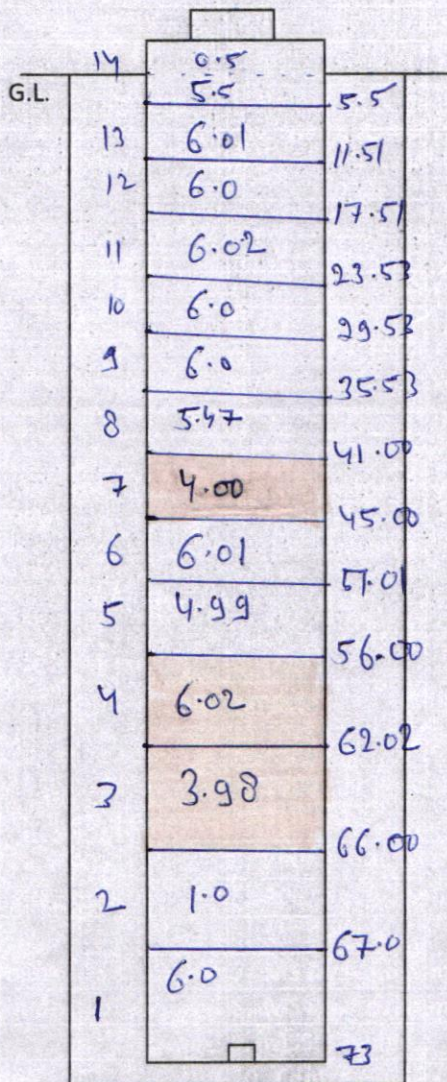
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DEPTH OF STARTA

**PROPOSED ASSEMBLY DETAILS**

Block- Sakit  
GP- Ramnagar Rijor

SL.	DPR Details -
	Lowering Date - 11/05/2024
1	Water Discharge in LPM - 270
2	Bore well Drilling dia- 500mm
3	Bore well Drilling depth- 100m



**LOGGING REPORT**

Depth-	100m	Date-	07/05/2024
SL.	Depth Range	Thickness	Remarks
1	41-45	04	
2	56-66	10	
3			
4			
5			
6			
7			
8			
9			
10			
11			

**Assembly Details**

Total Assembly = 59.50  
14.00  
73.50m

**Proposed Assembly for Lowering**

1.	300mm dia MS Plain Pipe-	
2.	200mm dia MS Plain Pipe	59.50
3.	200mm dia MS Slotted Pipe-	14.00
4.	200mm dia LCG Pipe -	
5.	300/200 mm dia Reducer -	
6.	MS Bail Plug-	01
7.	MS Ring 300mm-	
8.	MS Ring 200mm-	03
9.	MSSI Clamp-	01
10.	Centre Guide -	03
11.	TW Assembly Support-	01
12.	Pea Gravel Packing-	

KPTL

TPI

CLIENT (UPJN)

Lowering work executed as per assembly chart.

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT-RAMNAGAR, BLOCK-SAKIT, DISTT-ETAH  
UNDER

JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 100 mtrs. depth. and Logged depth 100 mtrs. at above site. Was drilled by M/s Kalpataru Power Transmission limited, Etah.

On the request of M/s Kalpataru Power Transmission limited, Etah. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 07.May.2024.

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major Aquifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

Mud Resistivity = 14.78 Ohms.

Drilling Water Resistivity = 15.12 Ohms.

Approx Water Level = 12 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 13	8	Dry sand	
3.	13 - 15	2	Clay kankar	
4.	15 - 20	5	Fine sand	
5.	20 - 25	5	Clay kankar	
6.	25 - 33	8	Sand & kankar	Medium
7.	33 - 41	8	Clay Kankar	
8.	41 - 45*	4	Fine to Medium sand	Medium
9.	45 - 56	11	Clay kankar	
10.	56 - 66*	10	Fine to Medium sand	Medium
11.	66 - 100	34	Clay kankar	