

## 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 )

Print

## Test report

Sample  
Id:

U1485429520470700

## 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:	Jalalpur Sainthal	Village:	Jalalpur Sathal
Gram Panchayat:	Jalalpur Sathal	Block:	Sakit
District:	Etah	State:	Uttar Pradesh
Address:		Remarks:	
Latitude:		Longitude:	

## Date &amp; time of sample collection

27.05.2024 | 02:51:00 PM

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

27.05.2024 | 02:54:00 PM

## Date &amp; time of sample analysed

28.05.2024 | 06:03:00 PM

## Date &amp; time of report generation

29.05.2024 | 06:05:29 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	59.300	EDTA Titrimetric method	
2	Chloride (as Cl)*	mg/l	250	1000	46.900	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	

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
5	Fluoride (as F)*	mg/l	1	1.5	0.080	Ion selective electrode method	
6	Iron (As Fe)*	mg/l	1	No Relaxation	0.310	Phenanthroline method or as per IS 15303:2002 Electrothermal atomic absorption/Spectrophotometer method	
7	Magnesium (As Mg)*	mg/l	30	100	67.100	Calculation by APHA	
8	Nitrate (as NO <sub>3</sub> )*	mg/l	45	No Relaxation	11.200	UV-Visible Spectrophotometer	
9	pH*	NA	6.5-8.5	No Relaxation	7.580	Electrometric method	
10	Sulphate (as SO <sub>4</sub> )*	mg/l	200	400	23.800	Turbidimetric method	
11	TDS*	mg/l	500	2000	493.000	Gravimetric method	
12	Total Alkalinity (as Calcium Carbonate)*	mg/l	200	600	372.000	Titration method	
13	Total Arsenic (As As)	mg/l	0.01	No Relaxation	0.000	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	424.000	EDTA Titrimetric method	
16	Turbidity*	NTU	1	5	0.750	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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**aarvee associates**  
architects engineers & consultants pvt. ltd.



QUALITY MANAGEMENT SYSTEM

Format No :  
KPTL/232221F/00023

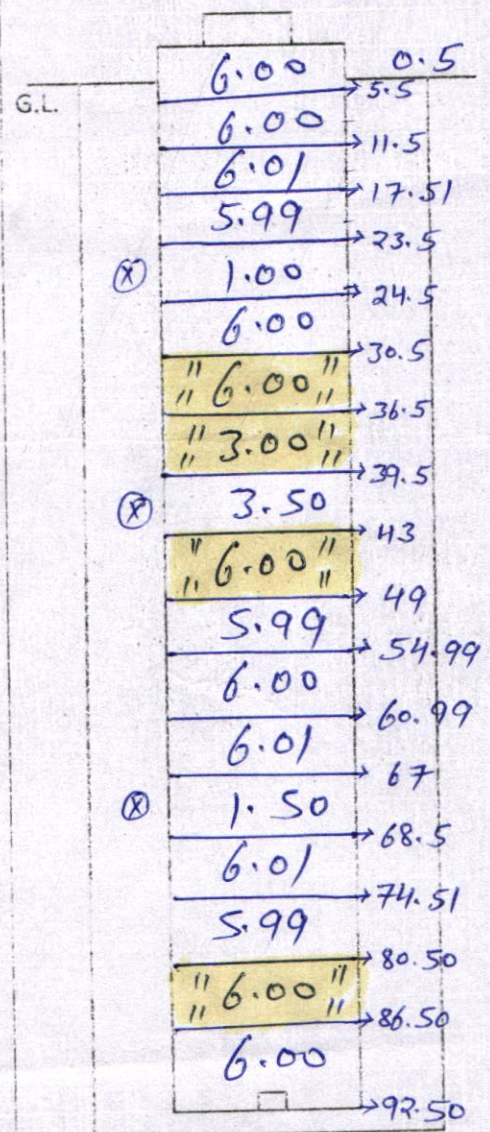
DEPTH OF STARTA

**PROPOSED ASSEMBLY DETAILS**

Block- Sakit  
GP- Salalpur Sathal

SL.	DPR Details -
	Lowering Date - 21/05/2024
1	Water Discharge in LPM - 580
2	Bore well Drilling dia- 500 mm
3	Bore well Drilling depth- 110 mtr

LOGGING REPORT 10.5 mtr



Total length = 93 - 0.5  
= 92.5

SL.	Depth Range	Thickness	Remarks
1	86.5-80.5	6 mtr	
2	49-43	6 mtr	
3	39.5-30.5	9 mtr	
4			
5			
6			
7			
8			
9			
10			
11			

Assembly Details

Proposed Assembly for Lowering	
1.	300mm dia MS Plain Pipe-
2.	200mm dia MS Plain Pipe 72. mtr
3.	200mm dia MS Slotted Pipe-
4.	200mm dia LCG Pipe - 21 mtr
5.	300/200 mm dia Reducer -
6.	MS Bail Plug- 1 Nos
7.	MS Ring 300mm-
8.	MS Ring 200mm- 17 Nos
9.	MSSI Clamp- 1 Nos
10.	Centre Guide - 3 Nos
11.	TW Assembly Support- 1 Nos
12.	MS Well Cap - 1 Nos
13.	Pea Gravel Packing-

*Lokesh*  
KPTL

*TPI*  
TPI

CLIENT (UPJN)

Lowering work executed as per assembly chart-

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:-B-143

Date:- 19-05-2024

### NAME OF SITE

GRAM PANCHAYAT- Jalalpur Sathal

BLOCK- Sakit

DISTT- Etah

### NAME OF AGENCY

M/s Kalpataru Project International Pvt. Ltd.  
Etah



## GROUND WATER SURVEY CONSULTANCY

Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

112 A-Shree Nagar Colony, Firozabad Road, Agra- 282006

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**ISO ; 9001 : 2015**

Ground Water Survey Consultancy



# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- JALALPUR SATHAL, BLOCK- SAKIT, DISTT- ETAH  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 110 mtrs. depth. and Logged depth 105 mtrs. at above site. Was drilled by M/s Kalpataru Project International Pvt. Ltd, Etah.

On the request of M/s Kalpataru Project International Pvt. Ltd, Etah. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 19.May.2024.

Logging Para meters - Self potential, short normal (N16), 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 = 10.10 Ohms.

Drilling Water Resistivity = 12.55 Ohms.

Approx Water Level = 9 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 11	6	Clay kankar	
3.	11 - 15	4	Fine sand	
4.	15 - 21	6	Clay kankar	
5.	21 - 28	7	Medium sand	Medium
6.	28 - 31	3	Clay kankar	
7.	31 - 39*	8	Medium sand	Medium
8.	39 - 43	4	Clay kankar	
9.	43 - 49*	6	Medium sand	Medium
10.	49 - 80	31	Clay kankar	
11.	80 - 88	8	Fine sand	Med to Marginally
12.	88 - 105	17	Clay kankar	

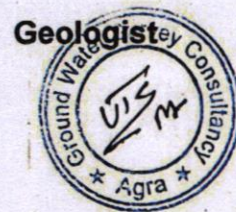
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**Conclusions and Recommendations :-**

1. The Lithology broadly tallies with that of drill cutting strata chart.
2. The zones marked with asterisk (\*) appear to be aquifer zones for possible Development of tube well.
3. The Quality of water is expected Medium to Marginally.
4. It is recommended to have a chemical and bacteriological analysis of the water sample before using it for human consumption or for any other use.
5. All projections and recommendations are subject to the inherent limitations of the technique employed and there could be variations as the underground conditions are not always amenable to physical interpretations.



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