



# Jal Jeevan Mission

Har Ghar Jal



## 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:

U1485429S19569906

### User Information

Name:

Kalpataru power transmission limited

Mobile:

6398162959

Email:

vikas.om@kalpatarugroup.com

Pin Code:

Full Address:

Village- Arjunai Simrai , Gram Panchayat- Arjunai Simrai, Block- Aliganj, District- Etah, State- Uttar Pradesh

### Sample description

Source of Sample:

Majrajat Sakeet Zone2

Village:

Sakeet

Gram Panchayat:

Sakeet

Block:

Sakit

District:

Etah

State:

Uttar Pradesh

Address:

Remarks:

Latitude:

27.4317550

Longitude:

78.7603530

Date &amp; time of sample collection

20.04.2024 | 12:14:00 PM

Date &amp; time of sample received in lab

29.04.2024 | 01:58:00 PM

Date &amp; time of sample analysed

29.04.2024 | 02:12:00 PM

Date &amp; time of report generation

02.05.2024 | 06:38:34 PM

## Test results

Sr. 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	Remarks
1	Calcium (as Ca)*	mg/l	75	200	38.500	
2	Chloride (as Cl)*	mg/l	250	1000	31.300	
3	Colour*	Hazen units	5	15	1.000	
4	E. coli	CFU/100 ml	Shall not be detectable in any 100 ml sample	No Relaxation	0.000	
5	Fluoride (as F)*	mg/l	1	1.5	0.570	
6	Free residual Chlorine	mg/l	0.2	1	0.000	
7	Iron (As Fe)*	mg/l	1	No Relaxation	0.020	
8	Magnesium (As Mg)*	mg/l	30	100	33.100	
9	Nitrate (as NO <sub>3</sub> )*	mg/l	45	No Relaxation	7.900	
10	pH*	NA	6.5-8.5	No Relaxation	7.880	
11	Sulphate (as SO <sub>4</sub> )*	mg/l	200	400	13.700	
12	TDS*	mg/l	500	2000	352.000	
13	Total Alkalinity (as Calcium Carbonate)*	mg/l	200	600	192.000	
14	Total Arsenic (As As)	mg/l	0.01	No Relaxation	0.000	
15	Total coliform	CFU/ 100 ml	Shall not be detectable in any 100 ml sample	No Relaxation	0.000	
16	Total Hardness (As CaCO <sub>3</sub> )*	mg/l	200	600	232.000	
17	Turbidity*	NTU	1	5	0.470	

**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

**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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QUALITY MANAGEMENT SYSTEM

Format No :  
KPTL/232221F/00023

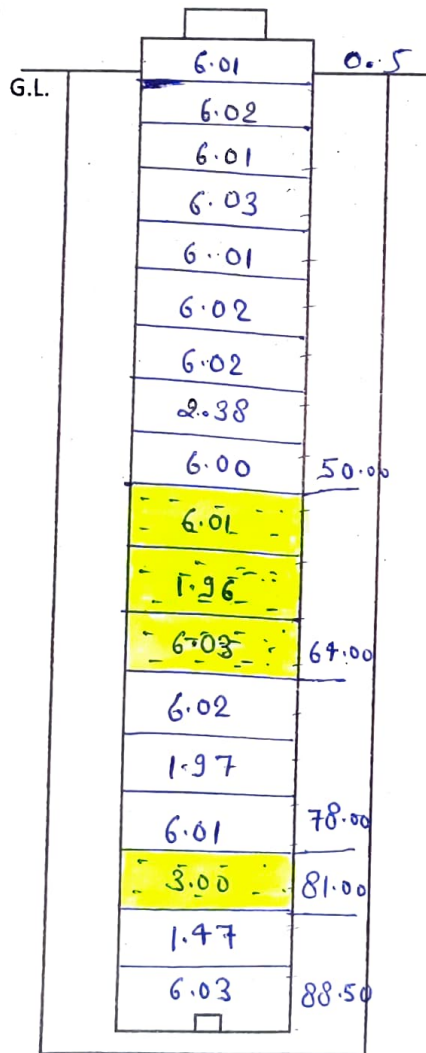
DEPTH OF STARTA

**PROPOSED ASSEMBLY DETAILS**

Block- Sakit  
GP- Majar Jat Sakit

SL.	DPR Details -
	Lowering Date - <u>17/12/2023</u>
1	Water Discharge in LPM - <u>480</u>
2.	Bore well Drilling dia- <u>500 mm</u>
3.	Bore well Drilling depth- <u>110 mtr.</u>

LOGGING REPORT - 110 mtr.



Depth-		Date-	
SL.	Depth Range	Thickness	Remarks
1	50-64	14 mtr	
2	78-81	3 mtr	
3			
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- 17 mtr
4. 200mm dia LCG Pipe -
5. 300/200 mm dia Reducer -
6. MS Bail Plug- 1 Nos
7. MS Ring 300mm-
8. MS Ring 200mm- 17 Nos
9. MSSl Clamp- 1 Nos
10. Centre Guide - 3 Nos
11. TW Assembly Support- 2 Nos
12. MS Well Cap - 1 Nos
13. Pea Gravel Packing-

*to kptl*  
KPTL

*pit*  
TPI

CLIENT (UPJN)

Lowering work executed as per assembly chart.



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PROJECT - STATE WATER AND SANITATION MISSION PROJECT ETAH

REQUEST FOR INSPECTION (RFI)

Format No : KPIL/232221F/00001

RFI no: JJM/ETAH/KPIL/

Date : 22/11/2023

Contractor Name: Kalpataru Projects International Limited

LOA No- 3563/W-25 (Aligarh)/2021-22 dated 07.01.2022

Location of Work

District: Etah Block: Sakit Scheme: majar sat Sakit

Following civil items are ready for inspection :

Date :

SBC	<input type="checkbox"/>	Tube Well	<input type="checkbox"/>	Excavation	<input type="checkbox"/>	PCC	<input type="checkbox"/>	RC	<input type="checkbox"/>
Shuttering	<input type="checkbox"/>	Brick Work	<input type="checkbox"/>	Plaster Work	<input type="checkbox"/>	Painting	<input type="checkbox"/>	Stand Post	<input type="checkbox"/>
Rising Main	<input type="checkbox"/>	Backfilling	<input type="checkbox"/>	M.S. Wicket Gate/ Window	<input type="checkbox"/>	Interlocking Tile	<input type="checkbox"/>		
HDPE Pipeline	<input type="checkbox"/>	Others	<input type="text"/>						

Following Mechanical, Electrical, C&I items are ready for inspection :

Date :

Instrumentation	<input type="checkbox"/>	Welding	<input type="checkbox"/>	Valves	<input type="checkbox"/>	Chain Pulley	<input type="checkbox"/>	DG Set	<input type="checkbox"/>
Pump Set	<input type="checkbox"/>	Stabilizer	<input type="checkbox"/>	Panne	<input type="checkbox"/>	Sloar	<input type="checkbox"/>	Chlorinating Plant	<input type="checkbox"/>
Lighting	<input type="checkbox"/>	EMF Meter	<input type="checkbox"/>	Level / Pressure Transmitter	<input type="checkbox"/>	RTU	<input type="checkbox"/>		
Earthing cable	<input type="checkbox"/>	Starter	<input type="checkbox"/>	Piping- DI ( ) HDPE ( ) MS ( ) MDPE ( )	<input type="checkbox"/>	Others	<input type="text"/>		

Work Description :

Tube Well - Drilling & Logging work  
Required :- 480 LPM

On Date : 24/11/2023

Time : 9:40

Submitted By

Date

Time

Sign

*[Signature]*

TPI (Aarvee)

Recieved By

Date 24/11/23

Time

Sign

*[Signature]*

Comments :

Drilling depth = 110 mtr  
Logging depth = 110 mtr

Civil Department

E&M, I/C Department

NAME :

APPROVED

NAME :

APPROVED

DESIG :

APPROVED AS NOTED

DESIG :

APPROVED AS NOTED

SIGN:

REJECTED

SIGN:

REJECTED



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### PROJECT - STATE WATER AND SANITATION MISSION PROJECT ETAH

#### REQUEST FOR INSPECTION (RFI)

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#### Location of Work

District: Etah Block : Sakit Scheme : Majar Sat Sakit

Following civil items are ready for inspection :

Date :

- |              |                          |             |                                     |                          |                          |                   |                          |            |                          |
|--------------|--------------------------|-------------|-------------------------------------|--------------------------|--------------------------|-------------------|--------------------------|------------|--------------------------|
| SBC          | <input type="checkbox"/> | Tube Well   | <input checked="" type="checkbox"/> | Excavation               | <input type="checkbox"/> | PCC               | <input type="checkbox"/> | RC         | <input type="checkbox"/> |
| Shuttering   | <input type="checkbox"/> | Brick Work  | <input type="checkbox"/>            | Plaster Work             | <input type="checkbox"/> | Painting          | <input type="checkbox"/> | Stand Post | <input type="checkbox"/> |
| Rising Main  | <input type="checkbox"/> | Backfilling | <input type="checkbox"/>            | M.S. Wicket Gate/ Window | <input type="checkbox"/> | Interlocking Tile | <input type="checkbox"/> |            |                          |
| DPE Pipeline | <input type="checkbox"/> | Others      | <input type="checkbox"/>            |                          |                          |                   |                          |            |                          |

Following Mechanical, Electrical, C&I items are ready for inspection :

Date :

- |                 |                          |            |                          |   |                          |             |                          |                    |                                     |
|-----------------|--------------------------|------------|--------------------------|---|--------------------------|-------------|--------------------------|--------------------|-------------------------------------|
| Instrumentation | <input type="checkbox"/> | Welding    | <input type="checkbox"/> | Valves                                  | <input type="checkbox"/> | Chain Pully | <input type="checkbox"/> | DG Set             | <input checked="" type="checkbox"/> |
| Pump Set        | <input type="checkbox"/> | Stabilizer | <input type="checkbox"/> | Panne                                   | <input type="checkbox"/> | Sloar       | <input type="checkbox"/> | Chlorinating Plant | <input type="checkbox"/>            |
| Lighting        | <input type="checkbox"/> | EMF Meter  | <input type="checkbox"/> | Level / Pressure Transmitter            | <input type="checkbox"/> | RTU         | <input type="checkbox"/> |                    |                                     |
| Earthing cable  | <input type="checkbox"/> | Starter    | <input type="checkbox"/> | Piping- DI ( ) HDPE ( ) MS ( ) MDPE ( ) | <input type="checkbox"/> | Others      | <input type="checkbox"/> |                    |                                     |

Work Description : Tube well - welding & lowering work  
Required :- 480 LPM

On Date : 17/12/2023

Time : 10:30

Submitted By

Date

Time

Sign

Lokeny

TPI (Aarvee)

Recieved By

Date 17/12/23

Time

Sign

PHH

Comments :

Total assembly = 89 mtr  
200mm plain pipe = 72 mtr  
Slotted pipe = 17mtr

Civil Department

E&M, I/C Department

NAME :

APPROVED

NAME :

APPROVED

DESIG :

APPROVED AS NOTED

DESIG :

APPROVED AS NOTED

SIGN:

REJECTED

SIGN:

REJECTED

## REPORT ON GEOPHYSICAL WELL LOGGING AT

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

### Introduction :

A Deep bore hole was drilled 110 mtrs. depth. and Logged depth 110 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 24. Nov. 2023.

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 = 15.43 Ohms.

Drilling Water Resistivity = 16.25 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 - 15	10	Clay kankar	
3.	15 - 18	3	Fine to Medium sand	
4.	18 - 26	8	Clay kankar	
5.	26 - 28	2	Fine sand	Medium
6.	28 - 50	22	Clay kankar	
7.	50 - 64*	14	Medium sand	Medium
8.	64 - 78	14	Clay kankar	
9.	78 - 81	3	Fine sand	Med to Marginally
10.	81 - 110	29	Clay kankar	

Ground Water Survey Consultancy



G.P. : majrajat Sakit Zone-II T.W

Block : Sakit

District : Etah

Required : 480 LPM

300mm dia Plain Pipe : X  
200mm dia Plain Pipe : 76  
200mm dia Slotted Pipe : 24  
100mh

Streta :-

50-64 → 14mh

78-81 → 03mh

6.00	0.50
6.00	
6.00	
6.00	
6.00	
6.00	
6.00	
2.50	
6.00	50.00
6.00	
2.00	
6.00	64.00
6.00	
2.00	
6.00	78.00
3.00	81.00
1.50	
6.00	88.50

### Zone Testy

① 30.50 - 36.57 mh  
TDS = 350 - FL = 0.58

② 55.00 - 58.00 mh  
TDS = 980, FL = 0.56

③ 79.00 - 82.00 mh  
TDS = 518, FL = 0.05

Nitin-2, Letter E&M/2023

300mm dia Plain Pipe : X  
300X200 mm Reducer : X  
200mm dia Plain Pipe : 72.00 mh  
200mm dia Slotted Pipe : 17.00 mh  
**Total : 89.00 mh**