

## 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:

U1485429S24874374

## 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: Khera Gwarau

Village: Khera Gwarau

Gram Panchayat: Khera Gwarau

Block: Jalesar

District: Etah

State: Uttar Pradesh

Address:

Remarks:

Latitude:

Longitude:

Date &amp; time of sample collection

28.11.2024 | 09:43:00 AM

Date &amp; time of sample received in lab

29.11.2024 | 11:14:00 AM

Date &amp; time of sample analysed

02.12.2024 | 11:19:00 AM

Date &amp; time of report generation

05.12.2024 | 11:22:02 AM

## 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	91.400	EDTA Titrimetric method	
2	Chloride (as Cl)*	mg/l	250	1000	115.700	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	0.390	Ion selective electrode method	
6	Iron (As Fe)*	mg/l	1	No Relaxation	0.070	Phenanthroline method or as per IS 15303:2002 Electrothermal atomic absorption/Spectrophotometer method	
7	Magnesium (As Mg)*	mg/l	30	100	43.700	Calculation by APHA	
8	Nitrate (as NO3)*	mg/l	45	No Relaxation	11.200	UV-Visible Spectrophotometer	
9	pH*	NA	6.5-8.5	No Relaxation	7.380	Electrometric method	
10	Sulphate (as SO4)*	mg/l	200	400	53.600	Turbidimetric method	
11	TDS*	mg/l	500	2000	601.000	Gravimetric method	
12	Total Alkalinity (as Calcium Carbonate)*	mg/l	200	600	213.400	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 CaCO3)*	mg/l	200	600	408.000	EDTA Titrimetric method	
16	Turbidity*	NTU	1	5	2.270	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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**Print**



**KALPA-TARU**



**aarvee associates**  
architects engineers & consultants pvt. ltd.



QUALITY MANAGEMENT SYSTEM

Format No :

KPTL/232221F/00023

DEPTH OF STARTA

### PROPOSED ASSEMBLY DETAILS

Block- Taleshaw  
GP- Kheta Gaurau

SL. DPR Details -

- |   |  |
|---|--|
| 1 | Lowering Date - <u>26/10/24</u>          |
| 2 | Water Discharge in LPM - <u>350 LPM</u>  |
| 3 | Bore well Drilling dia- <u>500 mm</u>    |
|   | Bore well Drilling depth- <u>100 mtr</u> |

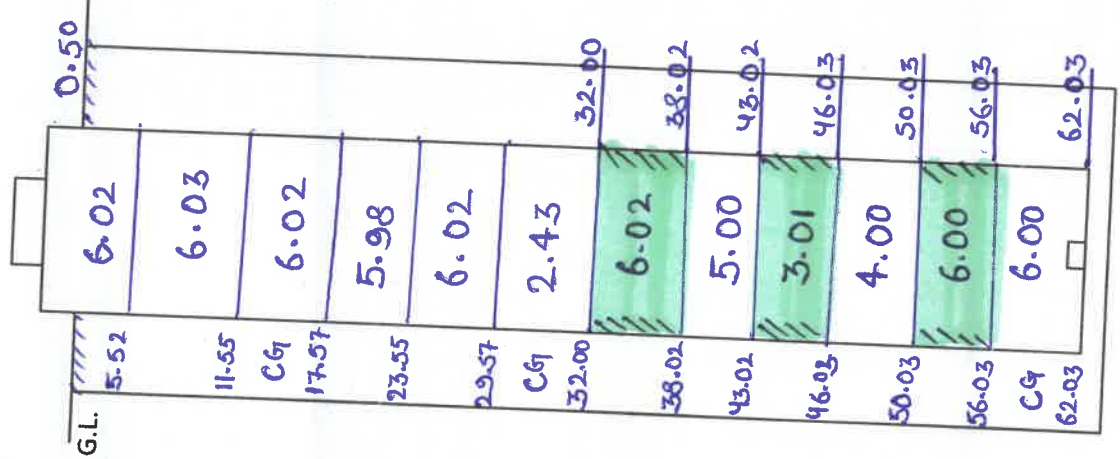
### LOGGING REPORT

Depth-		Date-	Remarks
SL.	Depth Range	Thickness	
1	<u>32-38</u>	<u>6 mtr</u>	
2	<u>43-46</u>	<u>3 mtr</u>	
3	<u>50-55</u>	<u>5 mtr</u>	
4			
5			
6			
7			
8			
9			
10			
11			

### Assembly Details

#### Proposed Assembly for Lowering

- 300mm dia MS Plain Pipe-
- 200mm dia MS Plain Pipe 47.50 mtr
- 200mm dia MS Slotted Pipe- 5.03 mtr
- 200mm dia LCG Pipe -
- 300/200 mm dia Reducer -
- MS Bail Plug- |
- MS Ring 300mm-
- MS Ring 200mm- | |
- MSSI Clamp- |
- Centre Guide - 3
- TW Assembly Support- |
- Pea Gravel Packing-



Sparks  
KPTL

PHI  
TPI

CLIENT (UPIN)



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

**REQUEST FOR INSPECTION (RFI)**

Format No : JMC/232221F/00001      RFI no: JJM/ETAH/JMC/      Date : 26/10/24  
 Contractor Name: JMC Projects (I) Ltd.      LOA No- 3563/W-25 (Aligarh)/2021-22 dated 07.01.2022

District: Etah      Block : Jalshahar      Scheme : Phera Gausan  
 Location of Work

Following civil items are ready for inspection :      Date :  
 SBC       Tube Well       Excavation       PCC       RCC  
 Shuttering       Brick Work       Plaster Work       Painting       Stand Post  
 Rising Main       Backfilling       M.S. Wicket Gate/ Window       Interlocking Tile  
 HDPE Pipeline       Others

Following Mechanical, Electrical, C&I items are ready for inspection :      Date :  
 Instrumentation       Welding       Valves       Chain Pulley       DG Set  
 Pump Set       Stabilizer       Panel       Sloar       Chlorinating Plant  
 Lighting       EMF Meter       Level / Pressure Transmitter       RTU  
 Earthing cable       Starter       Piping- DI ( ) HDPE ( ) MS ( ) MDPE ( )       Others

**Work Description :**  
RFI for Tubewell lowering  
Drilling depth - 100 mtr  
Discharge - 350LPM  
Lowering Depth - 62.00 mtr  
at Gp- Phera Gausan . . Block- Jalshahar

On Date : 26/10/24      Time : 10:00 AM

Submitted By Rasgya Shukla      Date 26/10/24      Time 8:00 AM      Sign [Signature]

TPI (Aarvee)  
 Recieved By      Date 26/10/24      Time      Sign [Signature]

Comments :  
Total assembly = 62.53 mtr  
200mm plain pipe = 47.50 mtr  
200mm hotted pipe = 15.03 mtr  
 Civil Department      E&M, I/C Department

NAME :       APPROVED      NAME :       APPROVED  
 DESIG :       APPROVED AS NOTED      DESIG :       APPROVED AS NOTED  
 SIGN :       REJECTED      SIGN :       REJECTED



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

**REQUEST FOR INSPECTION (RFI)**

Format No : JMC/232221F/00001

RFI no: JJM/ETAH/JMC/

Date : 23/10/24

Contractor Name: JMC Projects (I) Ltd.

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

**Location of Work**

District: Etah Block: Jalsheri Scheme: Khera Gaurau

Following civil items are ready for inspection :

Date : 23/10/24

- |               |                          |             |                          |                          |                          |          |                          |                   |                          |
|---------------|--------------------------|-------------|--------------------------|--------------------------|--------------------------|----------|--------------------------|-------------------|--------------------------|
| SBC           | <input type="checkbox"/> | Tube Well   | <input type="checkbox"/> | Excavation               | <input type="checkbox"/> | PCC      | <input type="checkbox"/> | RCC               | <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"/> |          | <input type="checkbox"/> | Interlocking Tile | <input type="checkbox"/> |
| HDPE Pipeline | <input type="checkbox"/> | Others      | <input type="checkbox"/> |                          | <input type="checkbox"/> |          | <input type="checkbox"/> |                   | <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 Pulley | <input type="checkbox"/> | DG Set             | <input type="checkbox"/> |
| Pump Set        | <input type="checkbox"/> | Stabilizer | <input type="checkbox"/> | Panel                                   | <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"/> |              | <input type="checkbox"/> | RTU                | <input type="checkbox"/> |
| Earthing cable  | <input type="checkbox"/> | Starter    | <input type="checkbox"/> | Piping- DI ( ) HDPE ( ) MS ( ) MDPE ( ) | <input type="checkbox"/> |              | <input type="checkbox"/> | Others             | <input type="checkbox"/> |

Work Description :

**RFI for Drilling of Tubewell & Logging**  
**Drilling depth = 100 mtr**  
**Discharge = 350LPM**  
**at GP- Khara Gaurau :: Block- Jalsheri**

On Date : 24/10/24

Time : 8:00 Am

Submitted By Rasgya Shukla

Date 23/10/24

Time 7:30 Pm

Sign [Signature]

TPI (Aarvee)

Recieved By

Date 24/10/24

Time [Signature]

Comments :

**Drilling depth = 100 mtr**  
**Logging depth = 100 mtr**

Civil Department

E&M , I/C Department

- |         |                          |                   |         |                          |                   |
|---------|--------------------------|-------------------|---------|--------------------------|-------------------|
| NAME :  | <input type="checkbox"/> | APPROVED          | NAME :  | <input type="checkbox"/> | APPROVED          |
| DESIG : | <input type="checkbox"/> | APPROVED AS NOTED | DESIG : | <input type="checkbox"/> | APPROVED AS NOTED |
| SIGN :  | <input type="checkbox"/> | REJECTED          | SIGN :  | <input type="checkbox"/> | REJECTED          |

GPA Khairi Chidarani  
 Wark-Jalesar, dll. elahi.  
 Required → 350 LPM

on Electric

Water head → 80 feet

32  
 48  
 8000

32-30 → 0.6 m/s

43-46 → 0.7 m/s

50-56 → 0.8 m/s

6.00	0.50
6.00	
6.00	
6.00	
6.00	32.00
2.50	38.00
5.00	43.00
3.00	46.00
4.00	50.00
6.00	56.00
6.00	62.00

Note → cement Sealing on all staff!

200 mm dia Plain pipe → 47.50

200 mm dia Stalled pipe → 15.00 m/s

Total → 62.50 m/s

**GROUND WATER SURVEY CONSULTANCY**  
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL  
ELECTROLOGGING REPORT**

Ref No:-B- 381

Date:- 24-10-2024

**NAME OF SITE**

GRAM PANCHAYAT- Khera Gwarau      BLOCK- Jalesar      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  
(M) : 9412260823, 9794625420, 9761163000, Email : gwsc\_agra@yahoo.com

**ISO ; 9001 : 2015**

Ground Water Survey Consultancy



# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- KHERA GWARAU, BLOCK- JALESAR, 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 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 24.Oct.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 = 15.20 Ohms.

Drilling Water Resistivity = 16.78 Ohms.

Approx Water Level = 24 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 21	16	Dry sand	
3.	21 - 25	4	Clay kankar	
4.	25 - 29	4	Kankar	
5.	29 - 32	3	Clay kankar	
6.	32 - 38	6	Fine sand & kankar	Medium
7.	38 - 43	5	Clay kankar	
8.	43 - 46	3	Kankar sand	Medium
9.	46 - 50	4	Clay kankar	
10.	50 - 55	5	Fine to Medium sand	Medium
11.	55 - 65	10	Clay kankar	
12.	65 - 70	5	Fine sand	Marginally saline
13.	70 - 100	30	Clay kankar	



### 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 saline.
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.



**Ground Water Survey Consultancy**

