

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- SCHEME- PELKHNI, BLOCK- ATRAULI, DISTT- ALIGARH  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 120 mtrs. depth. and Logged depth ~~109~~ mtrs. at above site. Was drilled by M/s Kalpataru Power Transmission limited, Aligarh.

On the request of M/s Kalpataru Power Transmission limited, Aligarh. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 08.April.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 = 14.59 Ohms.

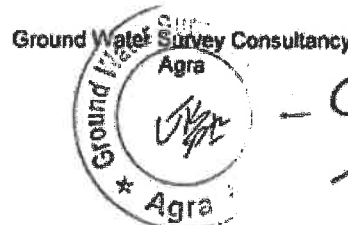
Drilling Water Resistivity = 15.73 Ohms.

Approx Water Level = 12 Mtr.

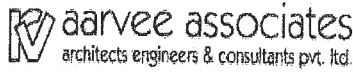
S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 8	3	Dry sand	
3.	8 - 17	9	Clay kankar	
4.	17 - 32	15	Medium sand	Medium
5.	32 - 35	3	Clay kankar	
6.	35 - 40	5	Fine sand	Medium
7.	40 - 48	8	Clay kankar	
8.	48 - 51	3	Fine sand	Medium
9.	51 - 56	5	Clay kankar	
10.	56 - 67*	11	Medium sand	Medium
11.	67 - 79	12	Clay kankar	
12.	79 - 84*	5	Fine to Medium sand	Medium
13.	84 - 90	6	Clay kankar	
14.	90 - 106*	16	Medium sand	Medium
15.	106 - 109	3	Clay kankar	

Sy NO/4-91-102  
(15M)

G.Shi  
11/04/23



- Logging performed as per SWM guidelines  
- Groundwater quality interpreted by firm as per their logger calibration.



PROJECT - STATE WATER AND SANITATION MISSION PROJECT ALIGARH

REQUEST FOR INSPECTION (RFI)

Format No : JJM/ALIGARH/KPTL/01 RFI no: JJM/ALIGARH/KPTL/06 Date : 13.04.2023

Contractor Name: Kalpataru Power Transmission Limited. LOA No- 3155/W-25 (Aligarh)/2021-22 dated 01.11.2022

Location of Work

District: ALIGARH Block : ATRAULI Scheme : PILEHANI

Following civil items are ready for inspection :

- SBC [ ] Tube Well [x] 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 :

- Instrumentation [ ] Welding [ ] Valves [ ] Chain Pully [ ] DG Set [ ]
Pump Set [ ] Stabilizer [ ] Pannel [ ] Sloar [ ] Chlorinating Plant [ ]
Lighting [ ] EMF Meter [ ] Level / Pressure Transmitter [ ] RTU [ ]
Earthing cable [ ] Starter [ ] Piping- DI ( ) HDPE ( ) MS ( ) MDPE [ ] Othe [ ]

Work Description :

Tube well lowering.
Assembly size - 200mm dia

Location: 28.048340 N
78.300583 E

On Date : 13.04.2023 Time : 10:00 AM

Submitted By : Taaf Habib Date: 13.04.23 Time: 6:20 PM Sign: [Signature]

TPI (Aarvee)

Recieved By Date Time Sign

Comments :

Noor Adil
13/4/23

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 ALIGARH

REQUEST FOR INSPECTION (RFI)

Format No : JJM/ALIGARH/KPTL/01 RFI no: JJM/ALIGARH/KPTL/06 Date : 08/04/2023
Contractor Name: Kalpataru Power Transmission Limited. LOA No- 3155/W-25 (Aligarh)/2021-22 dated 01.11.2022

Location of Work

District: ALIGARH Block : ATRAULI Scheme : PILKHUNJ

Following civil items are ready for inspection :

Date :

SBC [ ] Tube Well [x] 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 Pully [ ] DG Set [ ]
Pump Set [ ] Stabilizer [ ] Pannel [ ] Sloar [ ] Chlorinating Plant [ ]
Lighting [ ] EMF Meter [ ] Level / Pressure Transmitter [ ] RTU [ ]
Earthing cable [ ] Starter [ ] Piping- DI ( ) HDPE ( ) MS ( ) MDPE [ ] Other [ ]

Work Description :

Tube well. Electro logging
Drilling depth - 110 mtr.

On Date : 09.04.2023 Time : 12:00 AM

Submitted By : Taaf Habib Date: 01/4/23 Time : 6:00 pm Sign: [Signature]

TPI (Aarvee)

Recieved By Date Time Sign

Comments :

Noor Adiy
9/4/23

Civil Department

E&M, I/C Department

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



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



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

**REQUEST FOR INSPECTION (RFI)**

Format No : JJM/ALIGARH/KPTL/01      RFI no: JJM/ALIGARH/KPTL/06      Date : 05/04/2023  
 Contractor Name: Kalpataru Power Transmission Limited.      LOA No- 3155/W-25 (Aligarh)/2021-22 dated 01.11.2022

**Location of Work**

District: **ALIGARH**      Block : **ATPAULI**      Scheme : **PILKHONI**

Following civil items are ready for inspection :

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

Date :

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

Date :

Instrumentation  Welding  Valves  Chain Pully  DG Set   
 Pump Set  Stabilizer  Pannel  Sloar  Chlorinating Plant   
 Lighting  EMF Meter  Level / Pressure Transmitter  RTU   
 Earthing cable  Starter  Piping- DI ( ) HDPE ( ) MS ( ) MDPE  Other

**Work Description :**

Tube well RIG machine Transportation & Installation.  
 Drilling of Bore well. LPM-540      Location: 28.048340 N  
 Depth & Size of Bore - 110mtr & 500mmφ      78.300583 E

On Date : 06.04.2023      Time : 10:00 AM

Submitted By : Taaif Habib      Date: 05/04/23      Time : 6:00 PM      Sign: *Taaif*

**TPI ( Arvee)**

Recieved By      Date      Time      Sign

**Comments :**

**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



**KALPATARU**

KALPATARU POWER TRANSMISSION LIMITED

aanvee associates  
architects engineers & consultants Pvt. Ltd.



**PIPE ASSEMBLY AND LOWERING CHART FOR TUBE WELL**

District:- Allgarh	Block:- <b>ATRAULI</b>	Scheme:- <b>PILKHUNI</b>
Rig No/ Type DC:-	Size of Bore:- <b>500mm φ</b>	
Under:- JJM	Assembly Size:- <b>200mm φ</b>	Required LPM:- <b>540</b>
Contractor:- <b>KPTL</b>		

CHART	PIPE LENGTH	ASSEMBLY DETAILS
AGL	Pipe No. = 21 = 5.60m	Drilling Started Date:- 05.04.2023 DPR Drilling Depth:- 110mtr
5.07	Pipe No. = 20 = 6.05	Logging Started Date:- 09.04.2023 Logging Completed Date:- 09.04.2023
11.12	Pipe No. = 19 = 6.04	Lowering Started Date :- 13.04.2023 Lowering Completed Date :- 13.04.2023
17.16	Pipe No. = 18 = 6.04m	Housing Pipe φ :- MM M
23.2	Pipe No. = 17 = 6.03m	Above AGL φ :- 200 MM 0.53 M
29.23	Pipe No. = 16 = 6.04m	Plain Pipe φ :- 200 MM 05.03 M
35.27	Pipe No. = 15 = 6.05m	Slotted Pipe φ :- 200 MM 21.00 M
41.32	Pipe No. = 14 = 6.04m	Lowered Assembly:- 105.5 M
47.36	Pipe No. = 13 = 3.5m	Total Assembly+ AGL :- 106.03 M
50.86	Pipe No. = 12 = 6.05m	Actual Drilling Depth:- 110 M
56.91	Pipe No. = 11 = 6.0m	MS H Frame:- 01
62.91	Pipe No. = 10 = 3.0m	MS Ring:- 21
65.91	Pipe No. = 9 = 6.03m	MS Reducer:-
71.94	Pipe No. = 8 = 2.0m	MS Ball Plug:- 01
73.94	Pipe No. = 7 = 6.03m	MS Clamp:- 01
77.97	Pipe No. = 6 = 3.0m	MS Well Cap:- 01
82.97	Pipe No. = 5 = 6.0m	Centre Guide:- 02
88.97	Pipe No. = 4 = 1.5m	
90.47	Pipe No. = 3 = 6.0m	
96.47	Pipe No. = 2 = 3.0m	
99.47	Pipe No. = 1 = 6.03	
105.5		

C.G  
Ball Plug

Contractor Representative  
*(Signature)*

Naoradi  
12/4/2023  
Representative

Client Representative



G.P. → Pukhtuni, Block - Atrauli, distt. Rajgarh

Required → "540.50 m"

76  
24  

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100 mtr

Streel

50-67 → 11 mtr

49-84 → 05 mtr

20-106 → 16 mtr

17	6.00	0.50
17	6.00	
17	6.00	
17	6.00	
17	6.00	
16	6.00	
16	6.00	
14	6.00	
13	3.50	
12	6.00	54.00
11	6.00	
10	2.00	66.00
	6.00	
8	2.00	
	6.00	80.00
6	2.00	83.00
	6.00	
4	1.50	90.50
	6.00	
	3.00	93.50
	6.00	105.50 ✓

200 mm dia Plain pipe → 85.00 mtr

200 mm dia Slotted pipe → 21.00 mtr

Total 106.00 mtr

AGL 105.50 mtr

BGL 105.50 mtr