

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- IBRAHIMPUR, BLOCK- LODHA, DISTT- ALIGARH  
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, 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 16.Feb.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 = ~~14.53~~ Ohms.

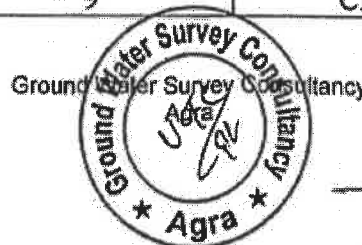
Drilling Water Resistivity = ~~15.46~~ Ohms.

Approx Water Level = 11 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 12	7	Clay	
3.	12 - 17	5	Fine sand	
4.	17 - 20	3	Clay kankar	
5.	20 - 27	7	Fine to Medium sand	Medium
6.	27 - 35	8	Clay kankar	
7.	35 - 41	6	Fine to Medium sand	Medium
8.	41 - 55	14	Clay kankar	
9.	55 - 61*	6	Fine to Medium sand	Medium
10.	61 - 70	9	Clay kankar	
11.	70 - 82*	12	Medium sand	Medium
12.	82 - 90	8	Clay kankar	
13.	90 - 101**	11	Fine to Medium sand	Medium
14.	101 - 110	9	Clay kankar	

Sr No 11-70-80  
(10m)

G.S.  
17/02/23



- Logging performed as per SWSP 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/ TW 1012

Date : 16-02-2023

Contractor Name: Kalpataru Power Transmission Limited.

LOA No- 3155/W-25 (Aligarh)/2021-22 dated 01.11.2022

Location of Work

DISTRICT: ALIGARH BLOCK : Lodha SCHEME : I BRAHIMPUR WSS

Following civil items are ready for inspection :

Date :

- SBC  Tube Well  Excavation  PCC  RCC
- Drilling  Logging  Lowering  OP Unit  Column
- 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 ( ) Others

Work Description :

(1) Electrical Logging of bore well

On Date :

Time : 10:00AM

Submitted By Bhawani

Date: 15-02-23 Time 10.00 AM

Sign Bhawani

TPI (Aarvee)

Recieved By M.F.KHAN

Date 22.2.23 Time 12:00

Sign [Signature]

Comments :

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/011

Date : 11-02-2023

Contractor Name: Kalpataru Power Transmission Limited.

LOA No- 3155/W-25 (Aligarh)/2021-22 dated 01.11.2022

Location of Work

DISTRICT: ALIGARH BLOCK: Lodha SCHEME: IBRAHIMPUR WSS

Following civil items are ready for inspection : Date :
SBC [ ] Tube Well [x] Excavation [ ] PCC [ ] RCC [ ]
Drilling [x] Logging [ ] Lowering [ ] OP Unit [ ] Column [ ]
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 ( ) Others [ ]

Work Description :
(x) Drilling of bore well

On Date : Time : 10:00AM

Submitted By [Signature] Date: 10-02-23 Time 10.00 AM Sign [Signature]

TPI (Aarvee)

Recieved By M.F. KHAN Date 22.2.23 Time 12:00 Sign [Signature]

Comments :

Civil Department E&M , I/C Department
NAME : [ ] APPROVED NAME : [ ] APPROVED
DESIG : [ ] APPROVED AS NOTED DESIG : [ ] APPROVED AS NOTED
SIGN: [ ] REJECTED SIGN: [ ] REJECTED



KALPATARU

KALPATARU POWER TRANSMISSION LIMITED

anveer associates  
engineers & consultants pvt. ltd.



PIPE ASSEMBLY AND LOWERING CHART FOR TUBE WELL

22-03-2023

District:- Aligarh

Block:- LODHA

Scheme:- IBRAHIMPUR

Rig No/ Type DC:-

Size of Bore:-

Under:- JJM

Assembly Size:- 200mm, 300mm

Required LPM:- 620 LPM

Contractor:- KPTL

CHART		PIPE LENGTH	ASSEMBLY DETAILS
6.00		Pipe No. = 21 = 6.00	Drilling Started Date:- 11/02/2023 DPR Drilling Depth:- 120m
5.88		Pipe No. = 20 = 5.88	Logging Started Date:- 16/02/2023 Logging Completed Date:- 16/02/2023
5.87		Pipe No. = 19 = 5.87	Lowering Started Date :- 22/02/2023 Lowering Completed Date :- 22/02/2023
6.05		Pipe No. = 18 = 6.05	Housing Pipe Φ : 300MM 48.07 M Above AGL Φ :- MM M
6.07		Pipe No. = 17 = 6.07	Plain Pipe Φ :- 200 MM 31.14 M Slotted Pipe Φ :- 200 MM 27.2 M
6.06		Pipe No. = 16 = 6.06	Lowered Assembly:- M Total Assembly+ AGL :- 106.6L M
6.07		Pipe No. = 15 = 6.07	Actual Drilling Depth:- 110 M
6.07		Pipe No. = 14 = 6.07	MS H Frame:- 01 Nos MS Ring:- 18 Nos MS Reducer:- 01 Nos
0.20		Pipe No. = 13 = Reducer 0.20	MS Bail Plug:- 01 Nos MS Clamp:- 01 Nos
6.04		Pipe No. = 12 = 6.04	MS Well Cap:- 01 Nos Centre Guide:- 03 Nos
1.26		Pipe No. = 11 = 1.26	
6.06		Pipe No. = 10 = 6.06	
6.05		Pipe No. = 9 = 6.05	
2.89		Pipe No. = 8 = 2.89	
6.05		Pipe No. = 7 = 6.05	
6.05		Pipe No. = 6 = 6.05	
6.02		Pipe No. = 5 = 6.02	
3.00		Pipe No. = 4 = 3.00	
6.04		Pipe No. = 3 = 6.04	
3.00		Pipe No. = 2 = 3.00	
6.06		Pipe No. = 1 = 6.06	

*(Signature)*  
Contractor  
Representative

*(Signature)*  
TPI  
Representative

Client  
Representative



PROJECT - STATE WATER AND SANITATION MISSION PROJECT ALIGARH

REQUEST FOR INSPECTION (RFI)

Format No : JJM/ALIGARH/KPTL/01

RFI no: JJM/ALIGARH/KPTL/ Tw/13

Date : 22-02-2023

Contractor Name: Kalpataru Power Transmission Limited.

LOA No- 3155/W-25 (Aligarh)/2021-22 dated 01.11.2022

Location of Work

DISTRICT: ALIGARH BLOCK : Lodha SCHEME : IBRAHIMPUR WSS

Following civil items are ready for inspection :

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Drilling [ ] Logging [ ] Lowering [x] OP Unit [ ] Column [ ]
Shuttering [ ] Brick Work [ ] Plaster Work [ ] Painting [ ] Stand Post [ ]
Rising Main [ ] Backfilling [ ] M.S. Wicket Gate/ Window [ ] Interlocking Tile [ ]
HDPE Pipeline [ ] Others [ ]

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Pump Set [ ] Stabilizer [ ] Pannel [ ] Sloar [ ] Chlorinating Plant [ ]
Lighting [ ] EMF Meter [ ] Level / Pressure Transmitter [ ] RTU [ ]
Earthing cable [ ] Starter [ ] Piping- DI ( ) HDPE ( ) MS ( ) MDPE ( ) Others [ ]

Work Description :

(1) Lowering of Bore well

On Date : 22-02-2023

Time : 10:00AM

Submitted By Gaurav Kumar

Date: 21-02-23 Time 10.00 AM

Sign Gaurav

TPI (Aarvee)

Recieved By M.F.KHAN

Date 22.2.23 Time 12:00

Sign [Signature]

Comments :

Civil Department

E&M , I/C Department

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

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

48  
32  
30  
110 mtr

G.P. → Ibrahimpur, Block - Gomda, Aligarh  
"Required - 620 LPM"

Stretch

55-61 → 06 mtr  
70-82 → 12 mtr  
90-101 → 11 mtr

	0.50
	47.50
	47.70 ✓
6.00	
1.30	55.00
6.00 //	61.00
6.00	
3.00	70.00 ✓
6.00 //	
6.00 //	82.00
6.00	
3.00	91.00
6.00 //	
3.00 //	100.00
6.00	
n	106.00

300 mm dia Plain pipe → 48.00 mtr  
300x200 mm Red → 0.20 mtr  
200 mm dia P.P → 31.30 mtr  
200 mm dia S.P → 27.00 mtr

RTJ	106.50 mtr
AQL	(-) 0.50 mtr
BGL	106.00 mtr