

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- CHAUMUNHA, BLOCK- KHAIR, 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 is conduct at above bore hole using IGIS Well Logger on 21.Jun.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 = 12.42 Ohms.

Drilling Water Resistivity = 13.78 Ohms.

Approx Water Level = 8 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 12	7	Clay kankar	
3.	12 - 17	5	Fine sand	Med to Marginally
4.	17 - 20	3	Clay kankar	
5.	20 - 27	7	Fine to Medium sand	Medium
6.	27 - 34	7	Clay kankar	
7.	34 - 45*	11	Sand & kankar	Med to Marginally
8.	45 - 53	8	Clay kankar	
9.	53 - 66*	14	Fine to Medium sand	Med to Marginally
10.	66 - 77	11	Clay kankar	
11.	77 - 84	7	Sand & kankar	Marginally saline
12.	84 - 95	11	Clay kankar	
13.	95 - 100	5	Sand & kankar	Marginally saline
14.	100 - 110	10	Clay kankar	

Sr No 7 34-36 (4m) and  
40-45 (5m)

Ground Water Survey Consultancy



Gish  
22/06/23

- Logging performed as per SWSM guid lines  
- Groundwater quality interpreted by fm as per their logger calibration.

G.P.: Chaumuta,

Block: Khai

District: Aligarh

Required: 420 LPM

300mm dia Plain Pipe : x  
200mm dia Plain Pipe : 82  
200mm dia Slotted Pipe :  $\frac{18}{200m^2}$

Streta :-

20-27 → 07mtr  
31-38 → 04mtr  
40-45 → 05mtr  
53-66 → 13mtr

6.00	0.50
6.00	
6.00	
6.00	23.50
3.00	26.50
6.00	
2.00	34.50
3.00	37.50
3.00	
1.00	41.50
3.00	44.50
6.00	
3.00	53.50
6.00	
6.00	65.50
6.00	71.50 ✓

300mm dia Plain Pipe : x  
300X200 mm Reducer : x  
200mm dia Plain Pipe : 51.00 mtr  
200mm dia Slotted Pipe : 21.00 mtr

**Total : 72.00 mtr**



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



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

**REQUEST FOR INSPECTION (RFI)**

Format No : JJM/ALIGARH/KPTL/D1      RFI no: JJM/ALIGARH/KPTL/      Date : 22/06/23

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

Location of Work

DISTRICT: ALIGARH      BLOCK: KHAIR      SCHEME: CHAUMUNHA

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 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 :

Tubewell lowering work.      LPM-410

Drill depth - 110      Assembly - 200x200 mm

On Date : 22/06/23      Time : 10:00AM

Submitted By : ASHUTOSH      Date:      Time 10.00 AM      Sign: *Randy*

TPI (Aarvee)

Received By : MOHD ASIM      Date:      Time      Sign: *M. Asim*

Comments :

<b>Civil Department</b>		<b>E&amp;M, I/C Department</b>	
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

darvee associates  
architects engineers & consultants pvt. ltd.



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

District:- Aligarh      Block:- **KHAIR**      Scheme:- **CHAUMUNHA**

Rig No/ Type DC:-      Size of Bore:-

Under:- **JJM**      Assembly Size:-      Required LPM:- **410**

Contractor:- **KPTL**

CHART		PIPE LENGTH	ASSEMBLY DETAILS
AGL		Pipe No. =	Drilling Started Date:- <b>21/06/23</b> DPR Drilling Depth:- <b>110 M</b>
		Pipe No. =	Logging Started Date:- <b>22/06/23</b> Logging Completed Date:- <b>22/06/23</b>
		Pipe No. =	Lowering Started Date :- <b>22/06/23</b> Lowering Completed Date :- <b>22/06/23</b>
		Pipe No. =	Housing Pipe Φ :-   MM       M Above AGL Φ :-   MM       M
		Pipe No. =	Plain Pipe Φ :- <b>200</b> MM <b>51.56</b> M Slotted Pipe Φ :- <b>200</b> MM <b>21.0</b> M
		Pipe No. = <b>16 = 6.01</b>	Lowered Assembly:- <b>71.50</b> M Total Assembly+ AGL :- <b>71.50+0.56</b> M
		Pipe No. = <b>15 = 6.02</b>	Actual Drilling Depth:- <b>115</b> M MS H Frame:- <b>01 NOS</b>
		Pipe No. = <b>14 = 6.01</b>	MS Ring:- <b>15 NOS</b> MS Reducer:-
		Pipe No. = <b>13 = 6.02</b>	MS Bail Plug:- <b>01 NOS</b> MS Clamp:- <b>01 NOS</b>
		Pipe No. = <b>12 = 3.00 M</b>	MS Well Cap:- <b>01 NOS</b> Centre Guide:- <b>02 NOS</b>
		Pipe No. = <b>11 = 6.00 M</b>	
		Pipe No. = <b>10 = 2.00 M</b>	
		Pipe No. = <b>9 = 3.00 M</b>	
		Pipe No. = <b>8 = 3.00 M</b>	
		Pipe No. = <b>7 = 1.00 M</b>	
	Pipe No. = <b>6 = 3.00 M</b>		
	Pipe No. = <b>5 = 6.00 M</b>		
	Pipe No. = <b>4 = 3.00 M</b>		
	Pipe No. = <b>3 = 6.00 M</b>		
	Pipe No. = <b>2 = 6.00 M</b>		
	Pipe No. = <b>1 = 6.00 M</b>		

Bail Plug

**Contractor Representative**      **M. Anam**      **TPI Representative**      **Client Representative**



PROJECT - STATE WATER AND SANITATION MISSION PROJECT ALIGARH

REQUEST FOR INSPECTION (RFI)

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RFI no: JJM/ALIGARH/KPTL/

Date : 21/06/23

Contractor Name: Kalpataru Power Transmission Limited.

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

Location of Work

DISTRICT: ALIGARH BLOCK: KAIR SCHEME: CHANDUNHA

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 :

Rig machine installation and drilling work.

On Date : 21/06/23

Time : 10:00AM

Submitted By RAMANAND

Date: Time 10.00 AM

Sign Ramanand

TPI (Aarvee)

Received By MOHID ABIM

Date Time

Sign M. Abim

Comments :

Civil Department

E&M, I/C Department

NAME : APPROVED

NAME : APPROVED

DESIG : APPROVED AS NOTED

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SIGN: REJECTED

SIGN: REJECTED



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Format No : JJM/ALIGARH/KPTL/01 RFI no: JJM/ALIGARH/KPTL/ Date : 22/06/23

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DISTRICT: ALIGARH BLOCK: KHAIK SCHEME: CHAUMUNNA

Following civil items are ready for inspection : Date :
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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 [ ] Sloop [ ] Chlorinating Plant [ ]
Lighting [ ] EMF Meter [ ] Level / Pressure Transmitter [ ] RTU [ ]
Earthing cable [ ] Starter [ ] Piping- DI ( ) HDPE ( ) MS ( ) MDPE ( ) Others [ ]

Work Description :
Electro logging work

On Date : 22/06/23 Time : 10:00AM
Submitted By KANANAND Date: Time 10.00 AM Sign Kanand

TPI (Aarvee)
Received By MOHD ASIM Date Time Sign M. Asim

Comments :

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