

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- KOTA KHASHI, BLOCK- JAWAN, DISTT- ALIGARH  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 115 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 19.Mar.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 = 15.75 ~~Ohms~~

Drilling Water Resistivity = 18.59 ~~Ohms~~

Approx Water Level = 14 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 11	6	Dry sand	
3.	11 - 14	3	Clay kankar	
4.	14 - 18	4	Fine sand	
5.	18 - 21	3	Clay kankar	
6.	21 - 30	9	Fine to Medium sand	Medium
7.	30 - 38	8	Clay kankar	
8.	38 - 56*	18	Medium sand & Kankar	Medium
9.	56 - 61	5	Clay kankar	
10.	61 - 70*	9	Medium sand	Medium
11.	70 - 86	16	Clay kankar	
12.	86 - 96*	18	Medium sand	Medium
13.	96 - 110	14	Clay kankar	

GSh  
20/03/23



— Logging performed as per SWSM guidelines.  
— Groundwater quality interpreted by ferro per the logger



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

**REQUEST FOR INSPECTION (RFI)**

Format No : JJM/ALIGARH/KPTL/01	RFI no: JJM/ALIGARH/KPTL/	Date : 20/03/2023
Contractor Name: Kalpataru Power Transmission Limited.	LOA No- 3155/W-25 (Aligarh)/2021-22 dated 01.11.2022	

**Location of Work**

District: ALIGARH	Block : TAWAN	Scheme : Kofa khas
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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"/>	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"/>
ing 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="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 type="checkbox"/>
Pump Set <input type="checkbox"/>	Stabilizer <input type="checkbox"/>	Pannel <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 ( )	Others <input type="checkbox"/>	

Work Description :

Tube well Lowering

On Date : 21.03.2023	Time : 12:00 PM
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Submitted By: TOAIP	Date: 20.03.23	Time: 6:00 PM	Sign:
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TPI (Aarvee)

Received By	Date	Time	Sign
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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

G.P. → Kota Khas, Block - Jagan, Aligarh

"Required" → 480 LPM

(JMC)

02

10

100 mtr

Street

38-56 → 18 mtr

61-70 → 09 mtr

86-96 → 10 mtr

6.00	0.50
6.00	
6.00	
6.00	
6.00	
6.00	
6.00	
6.00	47.50
6.00	53.50
6.00	
3.00	62.50
6.00	68.50
6.00	
6.00	
6.00	86.50
6.00	92.50
6.00	98.50 ✓

200 mm dia plain pipe → 81.00 mtr

200 mm dia slotted pipe → 18.00 mtr

P.H → 99.00 mtr

AGL (E) 0.50 mtr

BGL 98.50 mtr



**KALPATARU**

KALPATARU POWER TRANSMISSION LIMITED

**karvee associates**  
ANALYSIS ENGINEERS & CONSULTANTS PVT. LTD.



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

District:- Aligarh      Block:- **JAWAN**      Scheme:- **Kota khas**  
 Rig No/ Type DC:-      Size of Bore:- **500 mm**  
 Under:- JJM      Assembly Size:- **NB 200 mm φ**      Required LPM:- **480**  
 Contractor:- **KPTL**

CHART		PIPE LENGTH	ASSEMBLY DETAILS
AGL		Pipe No. =	Drilling Started Date:- <b>14.03.2023</b>
		Pipe No. =	DPR Drilling Depth:- <b>110 mtr</b>
		Pipe No. =	Logging Started Date:- <b>20.03.2023</b>
		Pipe No. =	Logging Completed Date:- <b>20.03.2023</b>
		Pipe No. =	Lowering Started Date :- <b>22.03.2023</b>
		Pipe No. =	Lowering Completed Date :- <b>22.03.2023</b>
		Pipe No. =	Housing Pipe φ :-      MM      M
		Pipe No. = 17 = 6.02m	Above AGL φ :- 200 MM      0.5 M
		Pipe No. = 16 = 6.02m	Plain Pipe φ :- 200 MM      00.94 M
		Pipe No. = 15 = 6.02m	Slotted Pipe φ :- 200 MM      18.06 M
		Pipe No. = 14 = 6.02m	Lowered Assembly:- <b>98.5</b> M
		Pipe No. = 13 = 6.06m	Total Assembly+ AGL :- <b>99</b> M
		Pipe No. = 12 = 6.03m	Actual Drilling Depth:- <b>110.2</b> M
		Pipe No. = 11 = 6.02m	MS H Frame:- <b>01</b>
		Pipe No. = 10 = 6.08 m	MS Ring:- <b>16</b>
		Pipe No. = 9 = 6.02m	MS Reducer:- <b>-</b>
		Pipe No. = 8 = 6.03m	MS Bail Plug:- <b>01</b>
	Pipe No. = 7 = 2.52m	MS Clamp:- <b>01</b>	
	Pipe No. = 6 = 6.02m	MS Well Cap:- <b>01</b>	
	Pipe No. = 5 = 6.02m	Centre Guide:- <b>03</b>	
	Pipe No. = 4 = 6.05m		
	Pipe No. = 3 = 6.02m		
	Pipe No. = 2 = 6.02m		
	Pipe No. = 1 = 6.03m		
Bail Plug			

*KPTL*  
 Contractor Representative

*109 Adil Rahman*  
 TPI Representative

Client Representative