

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- RUKHALA, BLOCK- GANGIRI, DISTT- ALIGARH  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 115 mtrs. depth. and Logged depth ~~115~~ 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 14.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 = 14.59 Ohms.

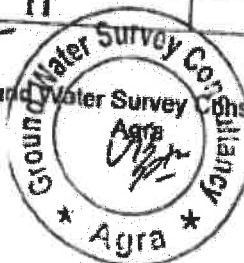
Drilling Water Resistivity = 15.78 Ohms.

Approx Water Level = 15 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 17	12	Clay kankar	
3.	17 - 20	3	Fine sand	
4.	20 - 25	5	Sandy clay	
5.	25 - 28	3	Clay kankar	
6.	28 - 33	5	Fine to Medium sand	Medium
7.	33 - 35	2	Clay kankar	
8.	35 - 40	5	Sand & kankar	Medium
9.	40 - 48	8	Clay kankar	
10.	48 - 55*	7	Medium sand	Medium
11.	55 - 60	5	Clay kankar	
12.	60 - 67*	7	Medium sand	Medium
13.	67 - 71	4	Clay kankar	
14.	71 - 78*	7	Fine to Medium sand	Medium
15.	78 - 80	2	Clay kankar	
16.	80 - 95*	15	Medium sand & kankar	Medium
17.	95 - 98	3	Clay kankar	
18.	98 - 104*	6	Medium sand	Medium
19.	104 - 115	11	Clay kankar	

Sr No 16-02-95  
(13m)

GSh  
14/03/23



- Logging performed as per SWSM guidelines.  
- Groundwater quality interpreted by firms as per their logger calibration

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

**REQUEST FOR INSPECTION (RFI)**

<b>Format No :</b> JJM/ALIGARH/KPTL/01	<b>RFI no:</b> JJM/ALIGARH/KPTL/	<b>Date :</b> 15.03.2023
<b>Contractor Name:</b> Kalpataru Power Transmission Limited.	<b>LOA No-</b> 3155/W-25 (Aligarh)/2021-22 dated 01.11.2022	

**Location of Work**

<b>District:</b> ALIGARH	<b>Block :</b> Gangeri	<b>Scheme :</b> Rukhala
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Following civil items are ready for inspection : Date :


SBC <input type="checkbox"/>	Tube Well <input type="checkbox"/>	Excavation <input checked="" 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="text"/>			

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 : 16.03.2023 Time : 9:00 AM

Submitted By TAPAF Date: 15/03/2023 Time: 06:00 PM Sign: 

**TPI (Aarvee)**

Recieved By Anuj Chaurasia Date 16/03/23 Time Sign 

**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

82  
18  
100 mtr

G.P. → Rukhala, Block - Gangisi, Aligarh

Required → "475 LPM"

✓ 18-55 → 07 mtr

✓ 60-67 → 07 mtr

⊗ 71-78 → 07 mtr

✓ 80-95 → 15 mtr

6.00	0.50
6.00	
6.00	
6.00	
6.00	
6.00	
6.00	
1.00	
6.00	48.50
6.00	54.50
6.00	60.50
6.00	66.50
6.00	
5.0	
6.00	83.50
6.00	89.50
6.00	95.50

200mm dia Plain pipe → 78 mtr

200mm dia Studded pipe → 18.00 mtr

P.L. 96.00 mtr

A.G.L. (-) 0.50 mtr

B.G.L. 95.50 mtr



**KALPA-TARU**

KALPATARU POWER TRANSMISSION LIMITED

vaarvee associates  
architects engineers & consultants of india



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

District:- Aligarh Block:- GANGLIYA Scheme:- RUKHOLA

Rig No/ Type DC:- Size of Bore:- 500mm

Under:- JJM Assembly Size:- NB 200mm  $\phi$  Required LPM:- 475

Contractor:- KPTL

CHART		PIPE LENGTH	ASSEMBLY DETAILS
AGL		Pipe No. =	Drilling Started Date:- 10.03.23
		Pipe No. =	DPR Drilling Depth:- 110mtr.
		Pipe No. =	Logging Started Date:- 14.03.23
		Pipe No. =	Logging Completed Date:- 14.03.23
		Pipe No. =	Lowering Started Date:- 16.03.23
		Pipe No. =	Lowering Completed Date:- 16.03.23
		Pipe No. =	Housing Pipe $\phi$ :- 200MM M
		Pipe No. =	Above AGL $\phi$ :- 200 MM 0.5 M
		Pipe No. = 17 = 6.03	Plain Pipe $\phi$ :- 200 MM 70 M
		Pipe No. = 16 = 6.02m	Slotted Pipe $\phi$ :- 200 MM 18 M
		Pipe No. = 15 = 6.03m -	Lowered Assembly:- 95.5 M
		Pipe No. = 14 = 6.03m -	Total Assembly+ AGL :- 96 M
		Pipe No. = 13 = 6.02m -	Actual Drilling Depth:- 110 M
		Pipe No. = 12 = 6.03m -	MS H Frame:- 01
		Pipe No. = 11 = 6.02 -	MS Ring:- 16
		Pipe No. = 10 = 1m -	MS Reducer:- -
	C.G		Pipe No. = 9 = 6.03m.
		Pipe No. = 8 = 6.02m.	MS Clamp:- 01
		Pipe No. = 7 = 6.02m.	MS Well Cap:- 01
		Pipe No. = 6 = 6.03m	Centre Guide:- 02
		Pipe No. = 5 = 6.02m	
		Pipe No. = 4 = 5m	
		Pipe No. = 3 = 6.01m	
		Pipe No. = 2 = 6.02m	
		Pipe No. = 1 = 6.01m	

C.G  
Bail Plug

Contractor Representative  
*(Signature)*  
KPTL

TPI Representative  
*(Signature)*

Client Representative