

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- MOHRAINI, BLOCK- IGLAS, 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 26.May.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 = ~~14.88~~ Ohms.

Drilling Water Resistivity = ~~18.38~~ Ohms.

Approx Water Level = 25 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 25	10	Dry sand & kankar	
3.	25 - 29	4	Clay kankar	
4.	29 - 35	6	Fine sand	Medium
5.	35 - 39	4	Clay kankar	
6.	39 - 50*	11	Fine to Medium sand	Medium
7.	50 - 55	5	Clay kankar	
8.	55 - 61*	6	Medium sand	Medium
9.	61 - 74	13	Clay kankar	
10.	74 - 87*	13	Medium sand	Med to Marginally
11.	87 - 95	8	Clay kankar	
12.	95 - 100	5	Sand & kankar	Marginally saline
13.	100 - 110	10	Clay kankar	



- Logging performed as per  
SWSM guidelines.  
- Groundwater quality  
interpreted by firm  
as per their logger  
calibration / G.S.H  
27/05/23



**KALPA-TARU**

KALPATARU POWER TRANSMISSION LIMITED

vaarvee associates  
architects engineers & consultants pvt. ltd.



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

District:- Aligarh

Block:- **IGLAS**

Scheme:- **MOHRAINI**

Rig No/ Type DC:-

Size of Bore:-

Under:- **JJM**

Assembly Size:-

Required LPM:- **380**

Contractor:- **KPTL**

CHART		PIPE LENGTH	ASSEMBLY DETAILS
AGL	0.50	Pipe No. =	Drilling Started Date:- <b>25/05/23</b>
<del>1.11</del>	<del>1.11</del>	Pipe No. =	DPR Drilling Depth:- <b>110M</b>
<del>1.11</del>	<del>1.11</del>	Pipe No. =	Logging Started Date:- <b>27/05/23</b>
<del>1.11</del>	<del>1.11</del>	Pipe No. =	Logging Completed Date:- <b>27/05/23</b>
<del>1.11</del>	<del>1.11</del>	Pipe No. =	Lowering Started Date :- <b>29/05/23</b>
<del>1.11</del>	<del>1.11</del>	Pipe No. =	Lowering Completed Date :- <b>29/05/23</b>
		Pipe No. =	Housing Pipe Φ :- <b>MM M</b>
		Pipe No. =	Above AGL Φ :- <b>MM M</b>
	5.5	Pipe No. = <b>17<sup>th</sup></b>	Plain Pipe Φ :- <b>200 MM 69 M</b>
	6.00	Pipe No. = <b>16<sup>th</sup></b>	Slotted Pipe Φ :- <b>200 MM 18 M</b>
	6.00	Pipe No. = <b>15<sup>th</sup></b>	Lowered Assembly:- <b>86.5 M</b>
	6.00	Pipe No. = <b>14<sup>th</sup></b>	Total Assembly+ AGL :- <b>86.5+5 M</b>
	6.00	Pipe No. = <b>13<sup>th</sup></b>	Actual Drilling Depth:- <b>110M M</b>
	6.00	Pipe No. = <b>12<sup>th</sup></b>	MS H Frame:-
	6.00	Pipe No. = <b>11<sup>th</sup></b>	MS Ring:- <b>16 NO 200MM</b>
	6.00	Pipe No. = <b>10<sup>th</sup></b>	MS Reducer:-
	6.00	Pipe No. = <b>9<sup>th</sup></b>	MS Bail Plug:- <b>1 NO 200 MM</b>
	6.00	Pipe No. = <b>8<sup>th</sup></b>	MS Clamp:- <b>1 NO 200 MM</b>
	6.00	Pipe No. = <b>7<sup>th</sup></b>	MS Well Cap:- <b>1 NO 200MM</b>
	6.00	Pipe No. = <b>6<sup>th</sup></b>	Centre Guide:- <b>2 NO 200MM</b>
	5.00	Pipe No. = <b>5<sup>th</sup></b>	
	40.5	Pipe No. = <b>4<sup>th</sup></b>	
Scotted	6.00	Pipe No. = <b>3<sup>rd</sup></b>	
Scotted	2.00	Pipe No. = <b>2<sup>nd</sup></b>	
	49.5	Pipe No. = <b>1<sup>st</sup></b>	
	6.00		
	1.00		
	56.5		
Scotted	3.00		
	59.5		
	6.00		
	3.00		
	74.5		
Scotted	6.00		
	80.5		
Bail Plug	6.00		
	86.5		

*Fernand*  
Contractor  
Representative

*Jeetendra*  
TPI  
Representative

Client  
Representative



**aarvee 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/	Date : 28/05/23
Contractor Name: Kalpataru Power Transmission Limited.	LOA No- 3155/W-25 (Aligarh)/2021-22 dated 01.11.2022	

**Location of Work**

<b>DISTRICT:</b>	<b>ALIGARH</b>	<b>BLOCK:</b>	<b>IGAS</b>	<b>SCHEME :</b>	<b>MUBARAINI</b>
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Following civil items are ready for inspection : Date :

SBC <input type="checkbox"/>	Tube Well <input type="checkbox"/>	Excavation <input type="checkbox"/>	PCC <input type="checkbox"/>	RCC <input type="checkbox"/>
Drilling <input type="checkbox"/>	Logging <input type="checkbox"/>	Lowering <input type="checkbox"/>	<input checked="" type="checkbox"/> OP Unit <input type="checkbox"/>	Column <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"/>
Rising 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="text"/>	

**Work Description :**  
 Tubewell lowering work  
 LPM → 380  
 Drill depth → 110m      Assembly size → 200 x 200m

On Date : 29/05/23      Time : 10:00AM

Submitted By **RAMANAND**      Date:      Time 10.00 AM      Sign **Ramanand**

**TPI (Aarvee)**

Recieved By **Jeelendra Singh**      Date:      Time      Sign **Jeelendra**

**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. : mukraini,

Block : Jglas,

Distriet : Aligarh

Required : 300 LPM

300mm dia Plain Pipe : X  
 200mm dia Plain Pipe : 82  
 200mm dia Slotted Pipe : 18  
100mtr

Streta :-

39-50 → 11mtr  
 55-61 → 06mtr  
 74-87 → 13mtr

6.00	0.50
6.00	
6.00	
6.00	
6.00	
6.00	
5.00	40.50
16.00	
13.00	49.50
6.00	
1.00	56.50
13.00	59.50
6.00	
3.00	
6.00	74.50
16.00	80.50
6.00	
6.00	86.50

300mm dia Plain Pipe : X  
 300X200 mm Reducer : X  
 200mm dia Plain Pipe : 69.00 mtr  
 200mm dia Slotted Pipe : 18.00 mtr  
Total : 87.00 mtr