

**REPORT ON GEOPHYSICAL WELL LOGGING**  
**AT**  
 GRAM PANCHAYAT- <sup>Noorpur</sup> LALGARH, BLOCK- LODHA, DISTT- ALIGARH  
**UNDER**  
**JAL JIVAN MISSION**

**Introduction :**

A Deep bore hole was drilled 110 mtrs. depth. and Logged depth ~~105 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 02.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 = ~~12.62 Ohms.~~

Drilling Water Resistivity = ~~13.42 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 - 18	13	Dry sand	
3.	18 - 22	4	Clay kankar	
4.	22 - 28	6	Fine to medium sand	Med. to Marginally
5.	28 - 32	4	Clay kankar	
6.	32 - 40	8	Sand & kankar	Med. to Marginally
7.	40 - 45	4	Clay kankar	
8.	45 - 48	3	Kankar	
9.	48 - 54	6	Clay kankar	
10.	54 - 63*	9	Medium sand	Med. to Marginally
11.	63 - 69	6	Clay kankar	
<del>12.</del>	69 - 83*	14	Medium sand	Medium
13.	83 - 88	5	Clay kankar	
<del>14.</del>	88 - 96*	8	Medium sand	Medium
15.	96 - 105	9	Clay kankar	

Sr No 12 - 70-83  
 (12m)  
 G.Sh  
 03/05/23



- Logging performed as per SWSM 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/ Date : 01/05/2023

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: Neorpur

Following civil items are ready for inspection : Date :
SBC [ ] Tube Well [x] Excavation [ ] PCC [ ] RCC [ ]
Drilling [ ] Logging [x] 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 :
Tubewell Electrologging work. Depth - 110 MTR.
Required discharge - 500 LPM
Assembly - 200mm dia X 200mm dia

On Date : 02/05/2023 Time : 10:00AM

Submitted By AMIT RANJAN KUMAR Date: 01/05/23 Time 10.00 AM Sign Amit Ranjan Kumar

Recieved By [Signature] Date Time Sign [Signature]

Comments :

Table with 4 columns: Civil Department, E&M, JC Department, and approval options (APPROVED, APPROVED AS NOTED, REJECTED) for NAME, DESIG, and SIGN.



PROJECT - STATE WATER AND SANITATION MISSION PROJECT ALIGARH

REQUEST FOR INSPECTION (RFI)

Format No : JJM/ALIGARH/KPTL/01

RFI no: JJM/ALIGARH/KPTL/

Date : 15/04/2022

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: Neorpur

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 :

M/c Installation & Tubewell drilling work, Required discharge - 500 Lpm, Depth - 110 mtr, Assembly - 200 mmφ x 200 mmφ

On Date: 16/04/2022

Time: 10:00AM

Submitted By: AMIT RANJAN KUMAR

Date: 15/04/23 Time 10.00 AM

Sign: Amit Ranjan Kumar

TPI (Aarvee)

Received By: [Signature] Date

Time

Sign

Comments :

Civil Department

E&M, IIC Department

Approval checkboxes for NAME, DESIG, SIGN in both Civil and E&M, IIC departments.



PROJECT - STATE WATER AND SANITATION MISSION PROJECT ALIGARH

REQUEST FOR INSPECTION (RFI)

Format No : JJM/ALIGARH/KPTL/01

RFI no: JJM/ALIGARH/KPTL/

Date : 05/05/2023

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: Noorpur

Following civil items are ready for inspection :

Date :

- SBC [ ] Tube Well [x] Excavation [ ] PCC [ ] RCC [ ]
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 [ ]

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 :

Tubewell MS pipe Lowering work Depth - 110MT
Required discharge - 500
Assembly - 200mmØ x 200mmØ

On Date : 05/05/2023

Time : 10:00AM

Submitted By AMIT RANJANKUMAR Date: 05/05/2023 Time 10.00 AM

Sign Amit Ranjan Kumar

TPI (Aarvee)

Received By [Signature] Date

Time

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



**KALPA-TARU**

KALPATARU POWER TRANSMISSION LIMITED

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



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

District:- Aligarh      Block:- Lodha      Scheme:- Noorpur  
 Rig No/ Type DC:- DC      Size of Bore:- 500mm $\phi$  X 500mm $\phi$   
 Under:- JJM      Assembly Size:- 200mm $\phi$  X 200mm $\phi$       Required LPM:- 500mm $\phi$   
 Contractor:- KPTL

CHART			PIPE LENGTH	ASSEMBLY DETAILS
AGL		0.5	Pipe No. =	Drilling Started Date:- 16/04/2023 DPR Drilling Depth:- 110 MTR
			Pipe No. =	Logging Started Date:- 02/05/2023 Logging Completed Date:- 02/05/2023
			Pipe No. =	Lowering Started Date :- 05/05/2023 Lowering Completed Date :- 05/05/2023
	6.05		Pipe No. = 18 <sup>th</sup>	Housing Pipe $\phi$ :- MM M Above AGL $\phi$ :- 200 MM 0.5 M
	6.05		Pipe No. = 17 <sup>th</sup>	Plain Pipe $\phi$ :- 200 MM 76.56 M Slotted Pipe $\phi$ :- 200 MM 24 M
	6.05		Pipe No. = 16 <sup>th</sup>	Lowered Assembly:- 100.56 M Total Assembly+ AGL :- 100.56+50 M
	6.05		Pipe No. = 15 <sup>th</sup>	Actual Drilling Depth:- 110 MTR M MS H Frame:- 500mm $\phi$ X 500mm $\phi$ (outer to outer)
	6.05		Pipe No. = 14 <sup>th</sup>	MS Ring:- 17 Nos, 200mm $\phi$ MS Reducer:-
	6.05		Pipe No. = 13 <sup>th</sup>	MS Bail Plug:- 200mm $\phi$ , 1 Nos MS Clamp:- 200mm $\phi$ , 1 Nos
	6.05		Pipe No. = 12 <sup>th</sup>	MS Well Cap:- 200mm $\phi$ , 1 Nos Centre Guide:- 04, Nos, 200mm $\phi$
	6.05		Pipe No. = 11 <sup>th</sup>	
	2.55		Pipe No. = 10 <sup>th</sup>	
	6.05		Pipe No. = 9 <sup>th</sup>	
	6.00	56.50	Pipe No. = 8 <sup>th</sup>	
	6.05	62.50	Pipe No. = 7 <sup>th</sup>	
	1.95		Pipe No. = 6 <sup>th</sup>	
	6.00	70.50	Pipe No. = 5 <sup>th</sup>	
	6.00		Pipe No. = 4 <sup>th</sup>	
	6.05	82.50	Pipe No. = 3 <sup>rd</sup>	
	6.05	88.50	Pipe No. = 2 <sup>nd</sup>	
	6.00	94.50	Pipe No. = 1 <sup>st</sup>	
Bail Plug	6.06			

*Amrit Prasad Kumar*  
Contractor  
Representative

*Anuj*  
TPI  
Representative

Client  
Representative

G.P. : *Narayan*  
 Block : *Saitha*  
 Required : *500 T.M*

District : *Higgaok*

500mm dia Plain Pipe    ✓  
 200mm dia Plain Pipe    76  
 200mm dia Slotted Pipe    24  
100 mtr

57-68 → 0.9 mtr  
 69-89 → 24 mtr  
 88-96 → 0.8 mtr

6.00	6.50
6.00	
6.00	
6.00	
6.00	
6.00	
6.00	
6.00	
2.00	
6.00	56.50
6.00	62.50
6.00	
2.00	70.50
6.00	
6.00	82.50
6.00	88.50
6.00	94.50
6.00	
0	100.50

300mm dia Plain Pipe    ✓  
 300X200 mm Reducer    ✗  
 200mm dia Plain Pipe    77.00 mtr  
 200mm dia Slotted Pipe    24.00 mtr  
Total    101.00 mtr