

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- KIRATPUR NIMANA, BLOCK- LODHA, DISTT- ^{Aligarh} ETAAH
UNDER
JAL JIVAN MISSION



Introduction :

A Deep bore hole was drilled 110 mtrs. depth and Logged depth 109 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 03.Feb.2023.

Logging Parameters - 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 = 14.31 Ohms.

Drilling Water Resistivity = 15.17 Ohms.

Approx Water Level = 12 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 12	7	Dry sand	
3.	12 - 20	8	Clay	
4.	20 - 27	7	Medium sand	Medium
5.	27 - 37	10	Clay kankar	
6.	37 - 39	2	Medium sand	Medium
7.	39 - 44	5	Clay kankar	
8.	44 - 48*	4	Fine to Medium sand	Medium
9.	48 - 55	7	Clay kankar	
10.	55 - 60*	5	Fine to Medium sand	Medium
11.	60 - 68	8	Clay kankar	
12.	68 - 79	11	Sand & kankar	Medium
13.	79 - 92	13	Clay kankar	
14.	92 - 98*	6	Fine to Medium sand	Medium
15.	98 - 109	11	Clay kankar	

Sy No 8 - 45 - 49 (4m)

Sy No 10 - 56 - 60 (4m)



- Logging performed as per
SWSM guidelines.
- Groundwater quality
interpreted by firm as per
their logger
calibration
GSL
04/02/23

Comp - Kirtajpur Nimanra, Block - Lodka, Aligarh
 Required - "350 LPM"

82
 18

 100 mtr

Stake

44-48 → 04 mtr
 55-60 → 05 mtr
 68-79 → 11 mtr
 92-98 → 06 mtr

6.00	0.50
6.00	
6.00	
6.00	
6.00	
6.00	
8.00	
6.00	44.50
3.00	47.50
6.00	
2.00	55.50
4.00	59.50
6.00	
3.00	68.50
6.00	
3.00	77.50
6.00	
3.00	
6.00	92.50
2.00	94.50
6.00	100.50 ✓

Sme - Aligarh

200 mm dia Plain pipe → 83.00 mtr

200 mm dia stake pipe → 18.00 mtr

Pit → 101.00 mtr

AGL (-) 0.50 mtr

BGL 100.50 mtr



KALPATARU

KALPATARU POWER TRANSMISSION LIMITED

arvee associates
architects engineers & consultants pvt. ltd.



PIPE ASSEMBLY AND LOWERING CHART FOR TUBE WELL

07/03/2023

District:- Aligarh

Block:-

Lodha

Scheme:-

Kisratpur Nimana WSS

Rig No/ Type DC:-

OC

Size of Bore:-

Under:- JJM

Assembly Size:- 200x200-

Required LPM:-

350

Contractor:- KPTL

CHART		PIPE LENGTH	ASSEMBLY DETAILS
21		Pipe No. = 21 = 6.02	Drilling Started Date:- 28/01/23 DPR Drilling Depth:- 110mts
20		Pipe No. = 20 = 6.05	Logging Started Date:- 02/02/23 Logging Completed Date:- 02/02/23
19		Pipe No. = 19 = 6.02	Lowering Started Date :- 07/02/23 Lowering Completed Date :- 07/02/23
18		Pipe No. = 18 = 6.03	Housing Pipe Φ :- MM M Above AGL Φ :- MM M
17		Pipe No. = 17 = 6.04	Plain Pipe Φ :- 200 MM 83.24 M Slotted Pipe Φ :- 200 MM 19.14 M
16		Pipe No. = 16 = 6.05	Lowered Assembly:- 200mm M Total Assembly+ AGL :- M
15		Pipe No. = 15 = 2.85	Actual Drilling Depth:- M
14		Pipe No. = 14 = 6.04	MS H Frame:- 01Nos MS Ring:- - 20Nos MS Reducer:- -
13		Pipe No. = 13 = 3	MS Bail Plug:- - 01Nos MS Clamp:- - 01Nos
12		Pipe No. = 12 = 6.02	MS Well Cap:- - 01Nos Centre Guide:- - 05Nos
11		Pipe No. = 11 = 2	
10		Pipe No. = 10 = 4	
9		Pipe No. = 9 = 6.02	
8		Pipe No. = 8 = 3	
7		Pipe No. = 7 = 6.02	
6		Pipe No. = 6 = 3	
5		Pipe No. = 5 = 6.03	
4		Pipe No. = 4 = 3	
3		Pipe No. = 3 = 6.02	
2		Pipe No. = 2 = 2.12	
1		Pipe No. = 1 = 6.05	

Contractor Representative

TPI Representative

Client Representative



PROJECT - STATE WATER AND SANITATION MISSION PROJECT ALIGARH

REQUEST FOR INSPECTION (RFI)

Format No : JJM/ALIGARH/KPTL/01 RFI no: JJM/ALIGARH/KPTL/05 Date : 02.02.2023

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 : Kiratpur Nimana

Following civil items are ready for inspection : Date : 02.02.2023

- SBC [x] Tube Well [x] Excavation [] PCC [] C []
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 [] Other []

Work Description : 1. Electrical Logging of Bore

Electrical logging of Bore

On Date : 02.02.2023 Time : 10:00AM

Submitted By GAURAV KUMAR Date: 01.02.2023 Time 7:00PM Sign GAURAV

TPI (Aarvee)

Recieved By M.F.KHAN Date 22-2-23 Time 12:10 Sign

Comments :

Civil Department

E&M , I/C Department

NAME : [] APPROVED NAME : [] APPROVED
DESIG : [] APPROVED AS NOTED DESIG : [] APPROVED AS NOTED
SIGN: [] REJECTED SIGN: [] REJECTED



PROJECT - STATE WATER AND SANITATION MISSION PROJECT ALIGARH

REQUEST FOR INSPECTION (RFI)

Format No : JJM/ALIGARH/KPTL/01	RFI no: JJM/ALIGARH/KPTL/06	Date : 07.02.2023
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 :	Kiratpur Nimana wss
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Following civil items are ready for inspection : Date : 07.02.2023

SBC Tube Well YES Excavation PCC RCC

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 Other

Work Description : 1. Lowering of tubewell Assembly .

Lowering of Tubewell Assembly

On Date : 07.02.2023	Time : 11:00AM
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Submitted By GAURAV KUMAR <i>Gaurav</i>	Date: 06.02.2023	Time 06:23 PM	Sign GAURAV <i>Gaurav</i>
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TPI (Aarvee)

Recieved By <i>M.F. KHAN</i>	Date <i>22-2-23</i>	Time <i>12:00</i>	Sign <i>M.F. Khan</i>
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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