

REPORT ON GEOPHYSICAL WELL LOGGING

AT

GRAM PANCHAYAT- RAMPUR MAJRA, BLOCK- GANGERI, 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 24.June.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 = 15.61 Ohms.

Drilling Water Resistivity = 16.87 Ohms.

Approx Water Level = 21 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	Fine sand	
4.	22 - 26	4	Clay kankar	
5.	26 - 31	5	Fine to Medium sand	
6.	31 - 37	6	Clay kankar	
7.	37 - 40	3	Fine sand	Medium
8.	40 - 46	6	Clay kankar	
9.	46 - 50	4	Fine to Medium sand	Medium
10.	50 - 55	5	Clay kankar	
11.	55 - 65*	10	Medium sand	Medium
12.	65 - 75	10	Clay kankar	
13.	75 - 82	7	Sand & kankar	Medium
14.	82 - 90	8	Clay kankar	
15.	90 - 101*	11	Medium sand	Medium
16.	101 - 105	4	Clay kankar	

Ground Water Survey Consultancy



G.P. : Rampur Magara Bhumia,

Block : Chagiri

District : Aligarh.

Required : 120 LPM

300mm dia Plain Pipe : X
200mm dia Plain Pipe : 78
200mm dia Slotted Pipe : 12
90mtr

Streta :-

46-50 → 04 mtr

55-65 → 10 mtr

75-82 → 07 mtr

6.00	0.50
6.00	
6.00	
6.00	
6.00	
6.00	
5.00	
6.00	46.50
3.00	49.50
6.00	55.50
6.00	
3.00	64.50
6.00	
5.00	75.50
6.00	81.50
6.00	
0	87.50 ✓

300mm dia Plain Pipe : X
300X200 mm Reducer : X
200mm dia Plain Pipe : 70.00 mtr
200mm dia Slotted Pipe : 18.00 mtr
Total : 88.00 mtr



KALPA-TARU

KALPATARU POWER TRANSMISSION LIMITED

Maarvee associates
architects engineers & consultants pvt. ltd.



PIPE ASSEMBLY AND LOWERING CHART FOR TUBE WELL

District:- Aligarh Block:- GANGURI Scheme:- RAMPUR MAZARA

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

Under:- JJM Assembly Size:- 200 x 200 Required LPM:- 120

Contractor:- KPTL

CHART		PIPE LENGTH	ASSEMBLY DETAILS
AGL		Pipe No. =	Drilling Started Date:- <u>24/06/23</u>
			DPR Drilling Depth:- <u>110M</u>
		Pipe No. =	Logging Started Date:- <u>26/06/23</u>
			Logging Completed Date:- <u>24/06/23</u>
		Pipe No. =	Lowering Started Date :- <u>26/06/23</u>
			Lowering Completed Date :- <u>26/06/23</u>
		Pipe No. =	Housing Pipe Φ :- MM M
			Above AGL Φ :- MM M
		Pipe No. =	Plain Pipe Φ :- <u>200</u> MM <u>70.07</u> M
			Slotted Pipe Φ :- <u>200</u> MM <u>18</u> M
		Pipe No. = <u>16 = 6.01</u>	Lowered Assembly:- <u>87.50</u> M
			Total Assembly+ AGL :- <u>87.50+0.57</u> M
		Pipe No. = <u>15 = 6.02</u>	Actual Drilling Depth:- <u>110M</u> M
			MS H Frame:- <u>01</u>
		Pipe No. = <u>14 = 6.01</u>	MS Ring:- <u>15 nos</u>
			MS Reducer:- <u>—</u>
	Pipe No. = <u>13 = 6.02</u>	MS Bail Plug:- <u>01</u>	
		MS Clamp:- <u>01</u>	
	Pipe No. = <u>12 = 6.00</u>	MS Well Cap:- <u>01</u>	
		Centre Guide:- <u>02</u>	
		Pipe No. = <u>11 = 6.01</u>	
		Pipe No. = <u>10 = 5.00</u>	
		Pipe No. = <u>9 = 6.00</u>	
	<u>46.5</u>	Pipe No. = <u>8 = 3.00</u>	
<u>66</u>	<u>49.5</u>	Pipe No. = <u>7 = 6.00</u>	
	<u>55.50</u>	Pipe No. = <u>6 = 6.00</u>	
<u>66</u>	<u>64.5</u>	Pipe No. = <u>5 = 3.00</u>	
	<u>75.5</u>	Pipe No. = <u>4 = 6.00</u>	
	<u>81.5</u>	Pipe No. = <u>3 = 5.00</u>	
<u>66</u>	<u>87.50</u>	Pipe No. = <u>02 = 6.00</u>	
Bail Plug		Pipe No. = <u>01 = 6.00</u>	

Pranav
Contractor
Representative

M. Anil
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/KPTLU/01

RFI no: JJM/ALIGARH/KPTLU/

Date : 26/06/23

Contractor Name: Kalpataru Power Transmission Limited.

LOA No- 3165/W-25 (Aligarh)/2021-22 dated 01.11.2022

Location of Work

DISTRICT: ALIGARH BLOCK: GANGURI SCHEME: RAMPUR MAZARA

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 :

Tubewell lowering work. Depth → 110M

LPM - 120

Assembly - 200x200

On Date : 26/06/23

Time : 10:00AM

Submitted By RAMANAND

Date:

Time 10.00 AM

Sign

[Signature]

TPL/Aarvee

Received By MOHD ACEM

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



PROJECT - STATE WATER AND SANITATION MISSION PROJECT ALIGARH

REQUEST FOR INSPECTION (RFI)

Format No : JJM/ALIGARH/KPTL/01 RFI no: JJM/ALIGARH/KPTL/ Date : 24/06/23

Contractor Name: Kalpataru Power Transmission Limited. LOA No- 3165/W-25 (Aligarh)/2021-22 dated 01.11.2022

Location of Work

DISTRICT: ALIGARH BLOCK: GANGIRI SCHEME: RAMPUR MAZARA

Following civil items are ready for inspection : Date :
SBC [] Tube Well [] Excavation [] PCC [] RCC []
Drilling [x] 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 :
Rig machine installation and drilling work

On Date: 24/06/23 Time: 10:00AM

Submitted By RAMANAND Date: Time 10.00 AM Sign Ramanand

TPIL/Aarvee

Received By MOHS AJAM Date: Time Sign M. Ajam

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/ Date : 26/06/23

Contractor Name: Kalpataru Power Transmission Limited. LOA No- 3155/W-25 (Aligarh)/2021-22 dated 01.11.2022

Location of Work

DISTRICT: ALIGARH BLOCK: G. ANGIRI SCHEME: RAMPUR MAZARA

Following civil items are ready for inspection : Date :
SBC [] Tube Well [] 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 [] Sloop [] Chlorinating Plant []
Lighting [] EMF Meter [] Level / Pressure Transmitter [] RTU []
Earthing cable [] Starter [] Piping- DI () HDPE () MS () MDPE () Others []

Work Description :

Electro logging work.

On Date : 26/06/23 Time : 10:00AM

Submitted By RAMAN AND Date: Time 10.00 AM Sign [Signature]

TPI (Aarvee)

Received By MOHD RIFAT Date: Time Sign [Signature]

Comments :

Civil Department E&M, IIC Department
NAME: [] APPROVED NAME: [] APPROVED
DESIG: [] APPROVED AS NOTED DESIG: [] APPROVED AS NOTED
SIGN: [] REJECTED SIGN: [] REJECTED