

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- KHANWAR, BLOCK- AKRABAD, DISTT- ALIGARH
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 100 mtrs. depth. and Logged depth 100 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.JUN.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 = 14.28 Ohms.

Drilling Water Resistivity = 15.43 Ohms.

Approx Water Level = 16 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 8	3	Day sand	
3.	8 - 13	5	Clay kankar	
4.	13 - 16	3	Fine sand	
5.	16 - 23	7	Clay kankar	
6.	23 - 35	12	Medium sand	Medium
7.	35 - 40	5	Clay kankar	
8.	40 - 46*	6	Fine to med sand	Medium
9.	46 - 60	14	Clay kankar	
10.	60 - 70	10	Fine sand	Medium
11.	70 - 78	8	Clay kankar	
12.	78 - 87*	9	Fine to med sand	Medium
13.	87 - 100	13	Clay kankar	

Ground Water Survey Consultancy



G.Sh
27/06/23

- Logging performed as per SWEM guidelines. Groundwater quality interpreted by firm as per their logger calibration.

G.P. : Khandwar,

Block : Akraabad

District : Aligarh

Required : 250 LPM

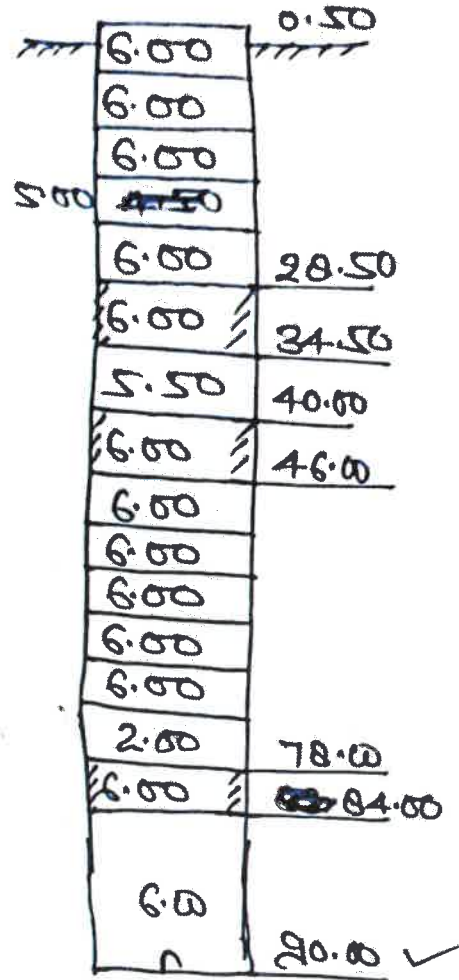
300mm dia Plain Pipe : X
200mm dia Plain Pipe : 78
200mm dia Slotted Pipe : 12
90 mtr

Streta :-

23-35 → 12mtr

40-46 → 06mtr

78-84 → 06mtr



300mm dia Plain Pipe : X
300X200 mm Reducer : X
200mm dia Plain Pipe : 72.50 mtr
200mm dia Slotted Pipe : 18.00 mtr
Total : 90.50 mtr



KALPA-TARU

KALPATARU POWER TRANSMISSION LIMITED

arvee associates
architects engineers & consultants pvt. ltd.



PIPE ASSEMBLY AND LOWERING CHART FOR TUBE WELL

District:- Aligarh

Block:- AKARABAD

Scheme:- KHANDWAR

Rig No/ Type DC:- DC

Size of Bore:- 2 500 MM

Under:- JJM

Assembly Size:- 200x200 mm ϕ

Required LPM:- 250

Contractor:- KPTL

CHART		PIPE LENGTH	ASSEMBLY DETAILS
AGL		Pipe No. =	Drilling Started Date:- 26/06/23
		Pipe No. =	DPR Drilling Depth:- 100
		Pipe No. =	Logging Started Date:- 27/06/23
		Pipe No. =	Logging Completed Date:- 27/06/23
		Pipe No. =	Lowering Started Date :- 29/06/23
		Pipe No. =	Lowering Completed Date :- 29/06/23
		Pipe No. =	Housing Pipe ϕ :- MM M
		Pipe No. =	Above AGL ϕ :- MM M
		Pipe No. =	Plain Pipe ϕ :- 200 MM 79.50 M
		Pipe No. =	Slotted Pipe ϕ :- 200 MM 78 M
		Pipe No. = 16 = 6.00	Lowered Assembly:- 90 M
		Pipe No. = 15 = 6.00	Total Assembly+ AGL :- 70+0.50 M
		Pipe No. = 14 = 6.00	Actual Drilling Depth:- 100 M
		Pipe No. = 13 = 5.00	MS H Frame:- 01
		Pipe No. = 12 = 6.00	MS Ring:- 15
		Pipe No. = 11 = 6.00	MS Reducer:-
		Pipe No. = 10 = 5.50	MS Bail Plug:- 01
		Pipe No. = 9 = 6.00	MS Clamp:- 01
		Pipe No. = 8 = 6.00	MS Well Cap:- 01
		Pipe No. = 7 = 6.00	Centre Guide:- 03
		Pipe No. = 6 = 6.00	
		Pipe No. = 5 = 6.00	
		Pipe No. = 4 = 6.00	
		Pipe No. = 3 = 2.00	
		Pipe No. = 2 = 6.00	
		Pipe No. = 1 = 6.00	
Bail Plug			

S. Manohar
Contractor
Representative

M. Anand
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/

Date : 27/06/23

Contractor Name: Kalpataru Power Transmission Limited.

LOA No- 3155/W-25 (Aligarh)/2021-22 dated 01.11.2022

Location of Work

DISTRICT: ALIGARH BLOCK: AKARABAD SCHEME: KHANDWAR

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 :

Electro logging work

On Date : Time : 10:00AM

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

IPI (Aarvee)

Recieved By : MOHD ASIM Date: Time Sign: M. Asim

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- 3155/W-25 (Aligarh)/2021-22 dated 01.11.2022

Location of Work

DISTRICT: ALIGARH BLOCK: AKARABAD SCHEME: KHANOU-AR

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 :

Rig machine installation work and drilling work.

On Date :

Time : 10:00AM

Submitted By

RAMRANG

Date:

Time 10.00 AM

Sign

TPI (Aarvee)

Received By

MOHA ASIM

Date

Time

Sign

M. Asim

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 : 28/06/23

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

Location of Work

DISTRICT: ALIGARH BLOCK: AKARABAD SCHEME: KHANWAR

Following civil items are ready for inspection : Date :
SBC [] Tube Well [] 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 lowering work. Assembly - 200x200mm
Drill depth - 100 CPM - 250

On Date : 28/06/23 Time : 10:00AM

Submitted By : RAMANAND Date: Time 10.00 AM Sign: [Signature]

TPI (Aarvee)

Recieved By : MOHD-ASIM Date: Time Sign: [Signature]

Comments :

Table with 2 columns: Civil Department and E&M, I/C Department. Rows for NAME, DESIG, and SIGN with checkboxes for APPROVED, APPROVED AS NOTED, and REJECTED.