

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- SHANKER GARH, BLOCK- AKRABAD, 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 07.July.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 = 15.72 Ohms.

Drilling Water Resistivity = 16.89 Ohms.

Approx Water Level = 3 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 10	5	Sandy clay	
3.	10 - 30*	20	Medium sand	Medium
4.	30 - 52	22	Clay kankar	
5.	52 - 56*	4	Fine to Medium sand	Medium
6.	56 - 63	7	Clay kankar	
7.	63 - 70*	7	Fine to Medium sand	Medium
8.	70 - 102	32	Clay kankar	
9.	102 - 110	8	Kankar with sand	



G.P. : *Stankev Gorkh*

Block : *AKabid*

District : *Aljorkh*

Required : *520* LPM

300mm dia Plain Pipe : *x*
200mm dia Plain Pipe : *76*
200mm dia Slotted Pipe : *24*
100 mtr

Streta :-

10-30 → *20 mtr*

52-56 → *04 mtr*

63-70 → *07 mtr*

6.00	0.50
6.00	
3.00	
6.00	20.50
6.00	
3.00	29.50
6.00	
6.00	
4.50	
6.00	52.00
4.00	56.00
6.00	
1.50	63.50
6.00	69.50
6.00	75.50

300mm dia Plain Pipe : *x*

300X200 mm Reducer : *x*

200mm dia Plain Pipe : *57.00 mtr*

200mm dia Slotted Pipe : *19.00 mtr*

Total : 76.00 mtr



PROJECT - STATE WATER AND SANITATION MISSION PROJECT ALIGARH

REQUEST FOR INSPECTION (RFI)

Format No : JJM/ALIGARH/KPTL/01	RFI no: JJM/ALIGARH/KPTL/_____	Date :
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 :	SHANKER GARDH
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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 checked="" type="checkbox"/>	Lowering <input 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 :
Electro logging work.

On Date :	Time : 10:00AM
Submitted By : <i>RAMANAND</i>	Date: _____ Time 10.00 AM Sign <i>Ramanand</i>

TPI (Aarvee)			
Reclved By	Date	Time	Sign <i>M. J. ...</i>

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



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Drilling <input checked="" type="checkbox"/>	Logging <input type="checkbox"/>	Lowering <input 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"/>
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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 :
 Rig machine installation and drilling work.

On Date :	Time : 10:00AM
Submitted By RAMANAND	Date: _____ Time 10.00 AM Sign Ramanand
IPI (Aarvee)	
Receved By MOHD. ASEEM	Date: _____ Time _____ Sign M. Asim

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



KALPATARU

KALPATARU POWER TRANSMISSION LIMITED

aarvee associates
architects engineers & consultants priv. ltd.



PIPE ASSEMBLY AND LOWERING CHART FOR TUBE WELL

District:- Aligarh Block:- **AKARABAD** Scheme:- **SKANKER GPRM**
 Rig No/ Type DC:- **DL** Size of Bore:- **500MM**
 Under:- **JJM** Assembly Size:- **200x200 mm** Required LPM:- **510**
 Contractor:- **KPTL**

CHART		PIPE LENGTH	ASSEMBLY DETAILS
AGL		Pipe No. =	Drilling Started Date:- 04/7/23
		Pipe No. =	DPR Drilling Depth:- 110
		Pipe No. =	Logging Started Date:- 07/7/23
		Pipe No. =	Logging Completed Date:- 07/7/23
		Pipe No. =	Lowering Started Date :- 08/7/23
		Pipe No. =	Lowering Completed Date :- 08/7/23
		Pipe No. =	Housing Pipe Φ :- MM M
		Pipe No. =	Above AGL Φ :- MM M
		Pipe No. =	Plain Pipe Φ :- 200 MM 57 M
		Pipe No. =	Slotted Pipe Φ :- 200 MM 19 M
		Pipe No. = 16 = 6.00	Lowered Assembly:- 75.5 M
		Pipe No. = 15 = 6.00	Total Assembly+ AGL :- 75.5 + 0.50 M
		Pipe No. = 14 = 3.00	Actual Drilling Depth:- M
		Pipe No. = 13 = 6.00	MS H Frame:- 01
		Pipe No. = 12 = 6.00	MS Ring:- 16 Nos
	Pipe No. = 11 = 3.00	MS Reducer:- —	
	Pipe No. = 10 = 6.00	MS Bail Plug:- 01	
	Pipe No. = 9 = 6.00	MS Clamp:- 01	
	Pipe No. = 8 = 4.50	MS Well Cap:- 01	
	Pipe No. = 7 = 6.00	Centre Guide:- 02	
	Pipe No. = 6 = 2.00		
	Pipe No. = 5 = 2.00		
	Pipe No. = 4 = 6.00		
	Pipe No. = 3 = 1.50		
	Pipe No. = 2 = 6.00		
	Pipe No. = 1 = 6.00		
Bail Plug			

Contractor
Contractor Representative

M. Anil
TPI Representative

Client Representative



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REQUEST FOR INSPECTION (RFI)

Format No : JJM/ALIGARH/KPTL/01	RFI no: JJM/ALIGARH/KPTL/ _____	Date : 08/07/22
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 :	SHANKER BARI
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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. Assembly - 200 x 200 mm

Drill depth > 110 m LPM - SIV

On Date : 08/07/22 Time : 10:00AM

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

TPI (Aarvee)

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

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