

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- SIYA KHAS, BLOCK- JAWAN, DISTT- ALIGARH
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 110 mtrs. depth. and Logged depth ~~106~~ 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 29.Mar.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:-

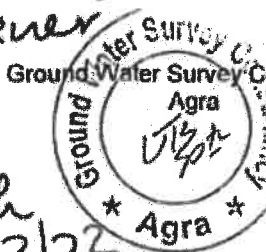
Mud Resistivity = 12.51 ~~Ohms~~.

Drilling Water Resistivity = 13.71 ~~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 - 10	5	Clay kankar	
3.	10 - 17	7	Dry sand	
4.	17 - 20	3	Clay kankar	
5.	20 - 28	8	Fine sand	Medium
6.	28 - 37	9	Clay kankar	
7.	37 - 45	8	Medium sand	Medium
8.	45 - 50	5	Clay kankar	
9.	50 - 57*	7	Medium sand	Medium
10.	57 - 64	7	Clay kankar	
11.	64 - 71*	7	Fine to Medium sand	Medium
12.	71 - 84	13	Clay kankar	
13.	84 - 97*	13	Medium sand & kankar	Medium
14.	97 - 106	9	Clay kankar	

Sr NO 11 - 65-70 (5m)
Sr NO 13 - bore fewer
sediments |
91-97
(6m)
Gsh
31/03/23



- Logging performed as per SWSM guidelines.
- Ground water quality interpreted by firm as per their logger calibration.

82
 18

 100 mtr

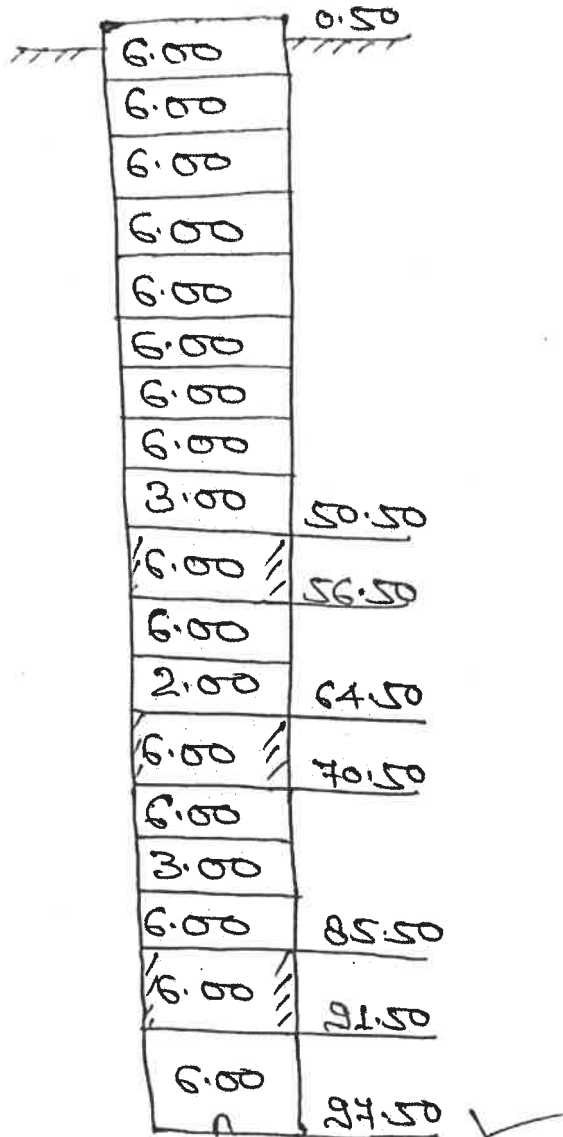
G.P → Siya Khas, Block-Jawan, Aligarh
 Required → "410 LPM"

Strets

50-57 → 07 mtr

64-71 → 07 mtr

84-97 → 13 mtr



200 mm dia plain pipe → 80.00 mtr

200 mm dia slotted pipe → 18.00 mtr

Total 98.00 mtr

AEL (-) 0.50 mtr

BGL 97.50 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:- **JAWAN** Scheme:- **SIYA KHAS**
 Rig No/ Type DC:- Size of Bore:- **500mmφ**
 Under:- JJM Assembly Size:- **NB 200mmφ** Required LPM:- **410**
 Contractor:- **KPTL**

CHART		PIPE LENGTH	ASSEMBLY DETAILS	
AGL		Pipe No. =	Drilling Started Date:- 26.03.23	
		Pipe No. =	DPR Drilling Depth:- 110m	
		Pipe No. =	Logging Started Date:- 30.03.23	
		Pipe No. =	Logging Completed Date:- 30.03.23	
		Pipe No. =	Lowering Started Date:- 03.04.23	
		Pipe No. =	Lowering Completed Date:- 03.04.23	
		Pipe No. = 18 = 5.46m	Housing Pipe φ:- MM M	
		Pipe No. = 17 = 6.06m	Above AGL φ:- 250 MM 0.52 M	
		Pipe No. = 16 = 6.06m	Plain Pipe φ:- 250 MM 06.02 M	
		Pipe No. = 15 = 6.06m	Slotted Pipe φ:- 250 MM 18 M	
	C.G	0.52	Pipe No. = 14 = 6.06m	Lowered Assembly:- 97.5 M
		4.94	Pipe No. = 13 = 6.05m	Total Assembly+ AGL:- 98.02 M
		11.0m	Pipe No. = 12 = 6.07m	Actual Drilling Depth:- 110 M
		17.06	Pipe No. = 11 = 6.02m	MS H Frame:- 0
		23.12	Pipe No. = 10 = 3.13m	MS Ring:- 17
		29.18	Pipe No. = 9 = 6.0m	MS Reducer:- 00
		35.23	Pipe No. = 8 = 6.03m	MS Bail Plug:- 0
41.9		Pipe No. = 7 = 2.0m	MS Clamp:- 0	
47.32		Pipe No. = 6 = 6.0m	MS Well Cap:- 0	
50.45		Pipe No. = 5 = 6.03	Centre Guide:- 03	
C.G	56.45	Pipe No. = 4 = 2.9m		
	62.40	Pipe No. = 3 = 6.06		
	64.40	Pipe No. = 2 = 6.0m		
	70.40	Pipe No. = 1 = 6.03m		
	76.51			
C.G	79.41			
	85.47			
Bail Plug	91.47			
	97.5			

[Signature]
 Contractor Representative

[Signature]
 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 : 31.03.2023

Contractor Name: Kalpataru Power Transmission Limited.

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

Location of Work

District: **ALIGARH** Block : **JAWAN** Scheme : **SIYA KHAS**

Following civil items are ready for inspection :

Date :

- SBC Tube Well Excavation PCC RCC
- Shuttering Brick Work Plaster Work Painting Stand Post
- Filing 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 :

Tube well lowering

On Date : 01.04.2023

Time : 11:00 AM

Submitted By *TARAP*

Date: 31.03.2023

Time : 3:00 PM

Sign :

[Signature]

TPI (Aarvee)

Reviewed By

Date

Time

Sign

Comments :

[Signature]

Civil Department

E&M , I/C Department

NAME : APPROVED

NAME : APPROVED

DESIG : APPROVED AS NOTED

DESIG : APPROVED AS NOTED

SIGN: REJECTED

SIGN: REJECTED