

REPORT ON GEOPHYSICAL WELL LOGGING AT

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

Introduction :

A Deep bore hole was drilled 109 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 04 April.2023.

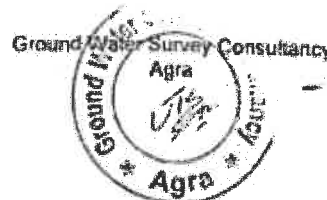
Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major Aquifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

Mud Resistivity = 13.41 Ohms.

Drilling Water Resistivity = 14.30 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 - 14	9	Medium sand	
3.	14 - 21	7	Clay kankar	
4.	21 - 31	10	Fine to Medium sand	Medium
5.	31 - 54	23	Clay kankar	
6.	54 - 60	6	Fine sand	Medium
7.	60 - 65	5	Clay kankar	
8.	65 - 77*	12	Medium sand	Medium
9.	77 - 85	8	Clay kankar	
10.	85 - 94*	9	Fine to Medium sand	Medium
11.	94 - 100	6	Clay kankar	



- Logging performed as per SWSM guidelines
- Groundwater quality interpreted by firm as per their logger calibration)

G. S.
06/04/23



KALPA-TARU

KALPATARU POWER TRANSMISSION LIMITED

arvee associates
architects engineers & consultants pvt. ltd



PIPE ASSEMBLY AND LOWERING CHART FOR TUBE WELL

District:- Aligarh Block:- **AKRABAD** Scheme:- **BHILAWALI**
 Rig No/ Type DC:- **DC** Size of Bore:- **500mm ϕ X 500mm ϕ**
 Under:- **JJM** Assembly Size:- **200mm ϕ X 200mm ϕ** Required LPM:- **345**
 Contractor:- **KPTL**

CHART		PIPE LENGTH	ASSEMBLY DETAILS
AGL	1.03	Pipe No. =	Drilling Started Date:- 28/02/2023 DPR Drilling Depth:- 109 mtr
		Pipe No. =	Logging Started Date:- 04/03/2023 Logging Completed Date:- 04/03/2023
		Pipe No. =	Lowering Started Date :- 11/04/2023 Lowering Completed Date :- 11/04/2023
	6.02	Pipe No. = 18 th	Housing Pipe ϕ :- MM M Above AGL ϕ :- MM M
	6.06	Pipe No. = 17 th	Plain Pipe ϕ :- 200 MM 81.69 M Slotted Pipe ϕ :- 200 MM 18.02 M
	6.05	Pipe No. = 16 th	Lowered Assembly:- 98.68 M Total Assembly+ AGL :- 98.68+1.03M
	6.04	Pipe No. = 15 th	Actual Drilling Depth:- 109 M MS H Frame:- 7 nos 500mm
	6.07	Pipe No. = 14 th	MS Ring:- 17 nos 200mm MS Reducer:-
	6.05	Pipe No. = 13 th	MS Bail Plug:- 4 nos 200 mm MS Clamp:- 4 nos 200 mm
	6.06	Pipe No. = 12 th	MS Well Cap:- 2 nos 200mm Centre Guide:- 2 nos 20mm
	6.07	Pipe No. = 11 th	
	6.05	Pipe No. = 10 th	
	5.50	Pipe No. = 9 th	
	6.06	Pipe No. = 8 th	
	6.00	Pipe No. = 7 th	
	6.00	Pipe No. = 6 th	
	6.04	Pipe No. = 5 th	
	0.55	Pipe No. = 4 th	
	3.00	Pipe No. = 3 rd	
	6.02	Pipe No. = 2 nd	
Bail Plug	6.07	Pipe No. = 1 st	

Amit Ranjan Kumar
 Contractor
 Representative

Binay Kumar
 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 : 11/04/2022

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

Location of Work

DISTRICT: ALIGARH BLOCK: AKRABAD SCHEME: Bhidawal

Following civil items are ready for inspection : Date :
SBC [] Tube Well [x] 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 ms & LCN pipe lowering work
Required discharge - 345 LPM
Assembly - 200mm x 200mm

On Date : 12/04/2023 Time : 10:00AM

Submitted By AMIT RAJAWAN Date: 11/04/23 Time 10.00 AM Sign Amit Rajan Kumar

TPI (Aarvee)

Recieved By [Signature] 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

G.P → Bhilawali, Block - Akraabad, Aligarh
 Required → "345 Lpm"

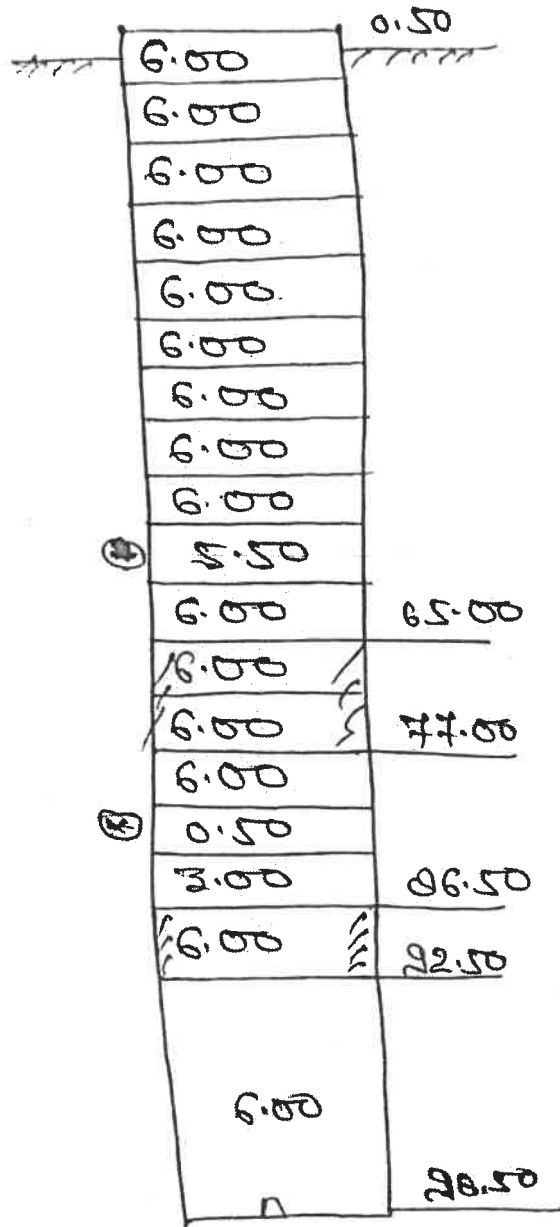
82
 18

 100 mtr

Street

65-77 → 12 mtr

85-94 → 09 mtr



200 mm dia Plain pipe → 81.00 mtr

200 mm dia Stilled pipe → 18.00 mtr

P.T.W 99.00 mtr

A.G.L (-) 0.50 mtr

B.G.L 98.50 mtr