

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- AMARPUR, BLOCK- LODHA, DISTT- ALIGARH
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 120 mtrs. depth. and Logged depth ~~115~~ mtrs. at above site. Was drilled by M/s Kalptaru Power Transmission India limited, Aligarh.

On the request of M/s Kalptaru Power Transmission India limited, Aligarh. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 28.Mar.2023.

Logging Parameters - 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 = 13.84 ~~Ohms~~.

Drilling Water Resistivity = 14.72 ~~Ohms~~.

Approx Water Level = 27 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 - 21	11	Dry sand	
4.	21 - 25	4	Fine sand	
5.	25 - 35	10	Clay kankar	
6.	35 - 43	8	Sand & kankar	Medium
7.	43 - 58	15	Clay kankar	
8.	58 - 65*	7	Medium sand & kankar	Medium
9.	65 - 72	7	Clay kankar	
10.	72 - 84*	12	Medium sand	Medium
11.	84 - 100	16	Clay kankar	
12.	100 - 107*	7	Fine to Medium sand	Medium
13.	107 - 115	8	Clay kankar	

Sr No 8 - 60-65
(SW)

GSh
29/03/23



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

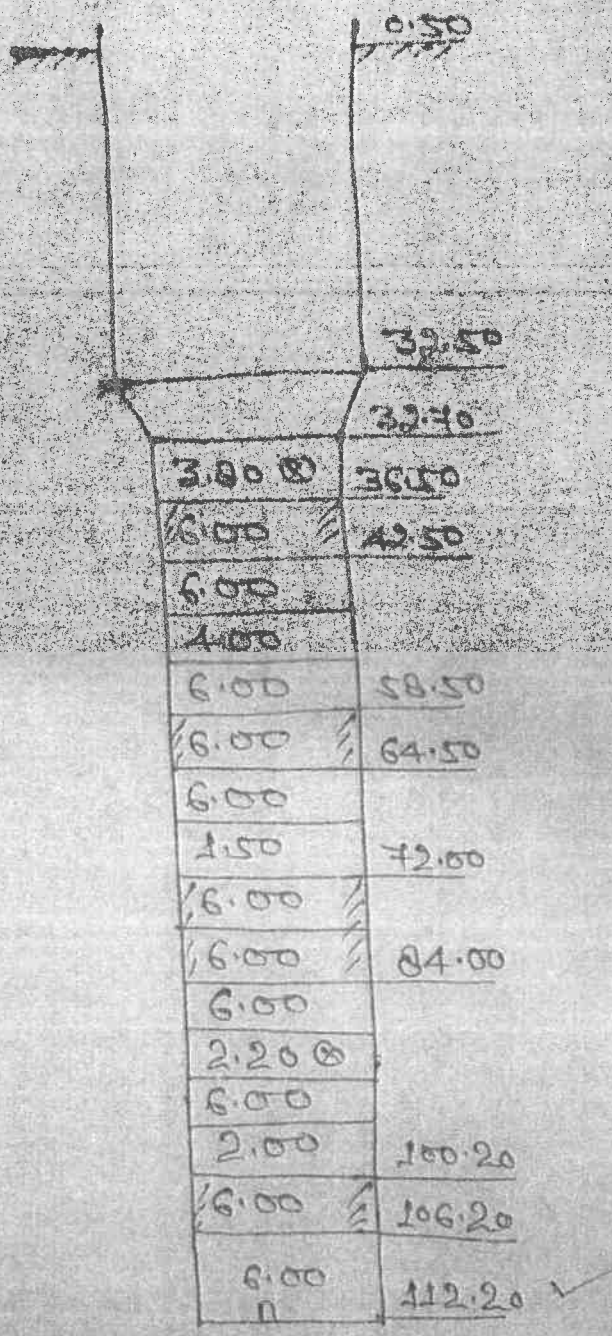
11/11/14 10:00 AM - 10:00 AM, 11/11/14

"Required" → 110.1 m

48
 32
 30

 110 mtr

Sticks
 25-43 → 08 mtr
 58-65 → 07 mtr
 72-84 → 12 mtr
 100-107 → 07 mtr



300 mm dia Plain pipe → 33.00 mtr
 800x200mm Red → 0.20 mtr
 200 mm dia P.P → 49.50 mtr
 200 mm dia S.P → 30.00 mtr

Plot	112.40 mtr
AEL	10.50 mtr
BGL	112.20 mtr



KALPATARU

KALPATARU POWER TRANSMISSION LIMITED

kaarvee associates
architects engineers & consultants pvt. ltd.



PIPE ASSEMBLY AND LOWERING CHART FOR TUBE WELL

District:- Aligarh Block:- Lodha Scheme:- *Amapur Kondala*

Rig No/ Type DC:- *DC* Size of Bore:- *600mmφ 500mmφ*

Under:- *JJM* Assembly Size:- *800mmφ X 200mmφ* Required LPM:- *710 LPM*

Contractor:- *KPTL*

CHART		PIPE LENGTH	ASSEMBLY DETAILS
AGL	6.07	Pipe No. = 22 nd	Drilling Started Date:- <i>21/03/2023</i> DPR Drilling Depth:- <i>120 mtr</i>
	3.95	Pipe No. = 21 th	Logging Started Date:- <i>28/03/2022</i> Logging Completed Date:- <i>28/03/2022</i>
	6.56	Pipe No. = 20 th	Lowering Started Date:- <i>09/04/2023</i> Lowering Completed Date:- <i>09/04/2022</i>
	6.07	Pipe No. = 19 th	Housing Pipe φ :- <i>300 MM 82.5 M</i> Above AGL φ :- <i>300 MM 0.5 M</i>
	6.07	Pipe No. = 18 th	Plain Pipe φ :- <i>200 MM 49.45 M</i> Slotted Pipe φ :- <i>200 MM 30 mtr M</i>
	4.28	Pipe No. = 17 th	Lowered Assembly:- <i>112.45 mtr M</i> Total Assembly+ AGL :- <i>112.45 + 0.5 M</i>
Reducers	0.2	Pipe No. = 16 th	Actual Drilling Depth:- <i>120 mtr M</i>
	3.80	Pipe No. = 15 th	MS H Frame:- <i>01 Nos / 200mmφ</i>
LCCr	6.00	Pipe No. = 14 th	MS Ring:- <i>300mmφ - 5 Nos, 200mmφ - 15 Nos</i>
	6.02	Pipe No. = 13 th	MS Reducer:- <i>300mmφ X 200mmφ - 1 Nos</i>
	3.91	Pipe No. = 12 th	MS Bail Plug:- <i>200mmφ - 1 Nos</i>
	6.07	Pipe No. = 11 th	MS Clamp:- <i>300 mmφ - 1 Nos</i>
LCCr	6.00	Pipe No. = 10 th	MS Well Cap:- <i>300mmφ - 1 Nos</i>
	6.07	Pipe No. = 9 th	Centre Guide:- <i>200 mmφ - 04 Nos</i>
	1.50	Pipe No. = 8 th	
LCCr	6.00	Pipe No. = 7 th & 8 th	
LCCr	6.00	Pipe No. = 6 th	
	6.07	Pipe No. = 5 th	
	2.20	Pipe No. = 4 th	
	6.02	Pipe No. = 3 rd	
	1.91	Pipe No. = 2 nd	
LCCr	6.00	Pipe No. = 1 st	
Bail Plug	6.98		

Amit Ranjan Kumar
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/LODHA/

Date : 09/04/2023

Contractor Name: Kalpataru Power Transmission Limited.

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

Location of Work

DISTRICT: ALIGARH BLOCK: Lodha SCHEME: Amarapur Kondala

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 & LCG PIPE LOWERING WORK
Require LPM - 710
Assembly Size - 300mm x 200mm

Lat - 27.852501
Long - 78.024205

On Date : 10/04/2023

Time : 10:00AM

Submitted By Amit Ranjan Kumar

Date: 09/04/2023

Time: 10:00 AM

Sign

Amit Ranjan Kumar

TPI (Aarvee)

Recieved By Anuj Chauhan

Date

Time

Sign

Anuj

Comments :

Civil Department

E&M, I/C Department

NAME : [] APPROVED

NAME : [] APPROVED

DESIG : [] APPROVED AS NOTED

DESIG : [] APPROVED AS NOTED

SIGN: [] REJECTED

SIGN: [] REJECTED