

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- HAMIRPUR, BLOCK- GANGIRI, DISTT- ALIGARH  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 120 mtrs. depth. and Logged depth ~~120 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 01.May.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 = ~~14.12 Ohms.~~

Drilling Water Resistivity = ~~15.25 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 - 17	12	Dry sand	
3.	17 - 25	8	Clay kankar	
4.	25 - 42	7	Medium sand	Medium
5.	42 - 45	3	Clay kankar	
<del>6.</del>	45 - 51*	6	Medium sand	Medium
7.	51 - 55	4	Clay kankar	
<del>8.</del>	55 - 60*	5	Fine to medium sand	Medium
9.	60 - 70	10	Clay kankar	
10.	70 - 78	8	Fine sand & kankar	Medium
11.	78 - 90	12	Clay kankar	
<del>12.</del>	90 - 101*	11	Medium sand	Medium
13.	101 - 120	19	Clay kankar	

Sr NO 6-UG-50  
(4w)

Sr NO 12-91-101  
(10w)

Gsh  
03/05/23



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



PROJECT - STATE WATER AND SANITATION MISSION PROJECT ALIGARH

REQUEST FOR INSPECTION (RFI)

Format No : JJM/ALIGARH/KPTL/01

RFI no: JJM/ALIGARH/KPTL/

Date : 02/05/2023 & 30/04/23

Contractor Name: Kalpataru Power Transmission Limited.

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

Location of Work

DISTRICT: ALIGARH BLOCK: Gangiri SCHEME: Hamelpur

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 :

Tube well Electro logging discharge-50LPM
Tube well Drilling.
Drilling Depth - 120 mtr

On Date : 03.05.2023

Time : 10:00AM

Submitted By TARIK HADIB Date: 02.05.23 Time 10.00 AM

Sign [Signature]

TPI (Aarvee)

Recieved By

Date

Time

Sign

Comments :

Civil Department

E&M, I/C Department

NAME : [ ] APPROVED

NAME : [ ] APPROVED

DESIG : [ ] APPROVED AS NOTED

DESIG : [ ] APPROVED AS NOTED

SIGN: [ ] REJECTED

SIGN: [ ] REJECTED



KALPATARU

KALPATARU POWER TRANSMISSION LIMITED



aarvee associates  
architects engineers & consultants pvt. ltd.



SWSM  
Uttar Pradesh

PROJECT - STATE WATER AND SANITATION MISSION PROJECT ALIGARH

REQUEST FOR INSPECTION (RFI)

Format No : JJM/ALIGARH/KPTU/01

RFI no: JJM/ALIGARH/KPTU/

Date : 04/05/2023

Contractor Name: Kalpataru Power Transmission Limited.

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

Location of Work

DISTRICT: ALIGARH BLOCK: Gangitri SCHEME: Hameerpur

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 :

Tube well lowering  
Discharge - 50 LPM  
Drilling depth - 120mts.

On Date : 05/04/2023

Time : 10:00AM

Submitted By TARIF HABIB

Date: 04/05/23

Time 10.00 AM

Sign

[Signature]

TPI (Aarvee)

Recieved By Manish Daryani

Date 05/05/23

Time 3:05 PM

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



**KALPATARU**

KALPATARU POWER TRANSMISSION LIMITED

**vaarvee associates**  
architects engineers & consultants Pvt. Ltd.



**PIPE ASSEMBLY AND LOWERING CHART FOR TUBE WELL**

District:- Allgarh	Block:- GANGIRI	Scheme:- HAMEERPUR
Rig No/ Type DC:-	Size of Bore:- 500mm	
Under:- JJM	Assembly Size:- NB 200mm $\phi$	Required LPM:- 50
Contractor:- KPTL		

CHART		PIPE LENGTH	ASSEMBLY DETAILS
AGL	0.5m	Pipe No. = 21 = 5.56m	Drilling Started Date:- 30.04.2023
	5.06	Pipe No. = 20 = 6.06m	DPR Drilling Depth:- 120m
	11.12	Pipe No. = 19 = 6.06m	Logging Started Date:- 02.05.23
	17.18	Pipe No. = 18 = 6.06m	Logging Completed Date:- 02.05.23
	23.24	Pipe No. = 17 = 6.06m	Lowering Started Date:- 05.05.2023
	29.3	Pipe No. = 16 = 6.06m	Lowering Completed Date:- 05.05.23
	35.36	Pipe No. = 15 = 4.5m	Housing Pipe $\phi$ :- MM M
	39.06	Pipe No. = 14 = 6.07m	Above AGL $\phi$ :- 200 MM 0.5 M
	45.93	Pipe No. = 13 = 3.0m	Plain Pipe $\phi$ :- 200 MM 92 M
	40.93	Pipe No. = 12 = 6.07m	Slotted Pipe $\phi$ :- 250 MM 15 M
	55.0	Pipe No. = 11 = 1.5m	Lowered Assembly:- M
	56.5	Pipe No. = 10 = 3.0m	Total Assembly+ AGL:- 107.0 M
	59.5	Pipe No. = 9 = 6.06m	Actual Drilling Depth:- 120 M
	65.56	Pipe No. = 8 = 6.06m	MS H Frame:- 01
	71.62	Pipe No. = 7 = 6.07m	MS Ring:- 20
	77.69	Pipe No. = 6 = 1.61m	MS Reducer:-
	77.69	Pipe No. = 5 = 6.07m	MS Ball Plug:- 01
	79.3	Pipe No. = 4 = 6.07m	MS Clamp:- 01
	85.34	Pipe No. = 3 = 6.07m	MS Well Cap:- 01
	91.44	Pipe No. = 2 = 3.0m	Centre Guide:- 03
	97.44	Pipe No. = 1 = 6.06m	
	100.44		
Bail Plug	106.5		

*[Signature]*  
Contractor  
Representative

*[Signature]*  
TPI  
Representative

Client  
Representative



PROJECT - STATE WATER AND SANITATION MISSION PROJECT ALIGARH

REQUEST FOR INSPECTION (RFI)

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RFI no: JJM/ALIGARH/KPTL/

Date : 04/05/2023

Contractor Name: Kalpataru Power Transmission Limited.

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

Location of Work

DISTRICT: ALIGARH BLOCK: Gangiwa SCHEME: Harneerpur

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Date :

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Drilling depth - 120mtr.

On Date : 05/04/2023

Time : 10:00AM

Submitted By TADIF HADIB Date: 04/05/23 Time 10.00 AM

Sign

TPI (Aarvee)

Recieved By manish jaiswal Date 05/05/23 Time 7:05 PM Sign

Comments :

Civil Department

E&M, I/C Department

NAME : APPROVED

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