

# REPORT ON GEOPHYSICAL WELL LOGGING AT

## GRAM PANCHAYAT- GANGA BASS HAMIDPUR, BLOCK- BIJAULI, DISTT- ALIGARH UNDER JAL JIVAN MISSION

### Introduction :

A Deep bore hole was drilled 115 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 14.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 = ~~18.81~~ Ohms.

Drilling Water Resistivity = ~~17.39~~ Ohms.

Approx Water Level = 2 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 11	6	Fine sand	
3.	11 - 18	7	Clay kankar	
4.	18 - 27	9	Fine to medium sand	Medium
5.	27 - 33	6	Clay kankar	
6.	33 - 36	3	Fine sand	Medium
7.	36 - 42	6	Clay kankar	
8.	42 - 51*	9	Fine to Medium sand	Medium
9.	51 - 60	9	Clay kankar	
10.	60 - 82*	22	Medium sand	Medium
11.	82 - 100	18	Clay kankar	
12.	100 - 110*	10	Fine to Medium sand	Medium

G.Sh  
15/06/23



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



**KALPA-TARU**

KALPATARU POWER TRANSMISSION LIMITED

**arvee associates**  
architects engineers & consultants pvt. ltd.



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

District:- Aligarh      Block:- Bizauli      Scheme:- Nongabas (Hamidpur)  
 Rig No/ Type DC:-      Size of Bore:-  
 Under:- JJM      Assembly Size:- 200mmφ x 200mmφ      Required LPM:- 340  
 Contractor:- KPTL

CHART		PIPE LENGTH	ASSEMBLY DETAILS
AGL		Pipe No. =	Drilling Started Date:- <u>11/06/2022</u> DPR Drilling Depth:- <u>110M</u>
		Pipe No. =	Logging Started Date:- <u>15/06/2022</u> Logging Completed Date:- <u>15/06/2022</u>
		Pipe No. =	Lowering Started Date :- <u>16/06/2022</u> Lowering Completed Date :- <u>16/06/2022</u>
		Pipe No. =	Housing Pipe Φ :-      MM      M Above AGL Φ :-      MM      M
		Pipe No. =	Plain Pipe Φ :- <u>200</u> MM <u>63</u> M Slotted Pipe Φ :- <u>200</u> MM <u>21</u> M
		Pipe No. =	Lowered Assembly:- <u>83.50</u> M Total Assembly+ AGL :- <u>83.50+0.50</u> M
		Pipe No. =	Actual Drilling Depth:-      M
		Pipe No. = <u>15<sup>th</sup></u> <u>6.0 m</u>	MS H Frame:- <u>01</u> <u>300 mm</u>
		Pipe No. = <u>14<sup>th</sup></u> <u>6.0 m</u>	MS Ring:- <u>14 no</u> <u>200 mm</u> MS Reducer:-
		Pipe No. = <u>13<sup>th</sup></u> <u>6.0 m</u>	MS Bail Plug:- <u>04 no</u> <u>200 mm</u> MS Clamp:- <u>01 no</u> <u>200 mm</u>
		Pipe No. = <u>12<sup>th</sup></u> <u>6.0 m</u>	MS Well Cap:- <u>01 no</u> <u>200 mm</u> Centre Guide:- <u>03 no</u> <u>200 mm</u>
		Pipe No. = <u>11<sup>th</sup></u> <u>6.0 m</u>	
		Pipe No. = <u>10<sup>th</sup></u> <u>6.0 m</u>	
		Pipe No. = <u>9<sup>th</sup></u> <u>3.0 m</u>	
		Pipe No. = <u>8<sup>th</sup></u> <u>6.0 m</u>	
	Pipe No. = <u>7<sup>th</sup></u> <u>6.0 m</u>		
	Pipe No. = <u>6<sup>th</sup></u> <u>6.0 m</u>		
	Pipe No. = <u>5<sup>th</sup></u> <u>6.0 m</u>		
	Pipe No. = <u>4<sup>th</sup></u> <u>6.0 m</u>		
	Pipe No. = <u>3<sup>rd</sup></u> <u>3.0 m</u>		
	Pipe No. = <u>2<sup>nd</sup></u> <u>6.0 m</u>		
	Pipe No. = <u>1<sup>st</sup></u> <u>6.0 m</u>		
Bail Plug	<u>0.50</u>		
	<u>44.50</u>		
	<u>50.50</u>		
	<u>62.50</u>		
	<u>77.50</u>		
	<u>83.50</u>		

Anil Ranjan Kumar  
Contractor Representative

M. Jais  
TPI Representative

Client Representative

G.P. : *Hamidpur*

Block : *Siyauli*

Required : *840 LPM*

District : *Aligarh*

300mm dia Plain Pipe : *x*  
200mm dia Plain Pipe : *82*  
200mm dia Slotted Pipe : *18*  

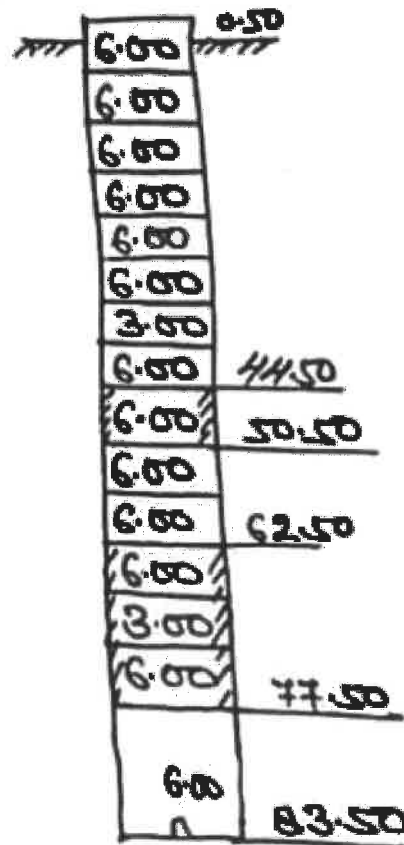
---

*100mtr*

Stren :-

*42-51* → *09 mtr*

*60-82* → *22 mtr*



300mm dia Plain Pipe : *x*  
300X200 mm Reducer : *x*  
200mm dia Plain Pipe : *63.00 mtr*  
200mm dia Slotted Pipe : *21.00 mtr*  

<b>Total</b>	<b>: 84.00 mtr</b>
--------------	--------------------



PROJECT - STATE WATER AND SANITATION MISSION PROJECT ALIGARH

REQUEST FOR INSPECTION (RFI)

Format No : JJM/ALIGARH/KPTL/01	RFI no: JJM/ALIGARH/KPTL/	Date : 11/06/23
Contractor Name: Kalpataru Power Transmission Limited.	LOA No- 3155/W-25 (Aligarh)/2021-22 dated 01.11.2022	

Location of Work

DISTRICT: ALIGARH	BLOCK: Bijauli	SCHEME: GANGA BAS (Hamidpur)
-------------------	----------------	------------------------------

Following civil items are ready for inspection : Date :

SBC	<input type="checkbox"/>	Tube Well	<input type="checkbox"/>	Excavation	<input type="checkbox"/>	PCC	<input checked="" type="checkbox"/>	RCC	<input type="checkbox"/>
Drilling	<input checked="" type="checkbox"/>	Logging	<input type="checkbox"/>	Lowering	<input type="checkbox"/>	OP Unit	<input type="checkbox"/>	Column	<input type="checkbox"/>
Chuttering	<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"/>	Sloer	<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 :  
 Rig machine instlation and drilling work.

On Date : 11/06/23 Time : 10:00AM  
 Submitted By : RAMANAND Date: Time 10.00 AM Sign: Ramanand

Received 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



**PROJECT - STATE WATER AND SANITATION MISSION PROJECT ALIGARH**

**REQUEST FOR INSPECTION (RFI)**

Format No : JJM/ALIGARH/KPTU/01 RFI no: JJM/ALIGARH/KPTU/ Date : 15/06/23

Contractor Name: Kalpataru Power Transmission Limited. LOA No- 3165/W-25 (Aligarh)/2021-22 dated 01.11.2022

Location of Work

DISTRICT: ALIGARH BLOCK: Bijauli SCHEME : GANGARAS humidpur

Following civil items are ready for inspection : Date :  
SBC  Tube Well  Excavation  PCC  RCC   
Drilling  Logging  Lowering  OP Unit  Column   
Gruttering  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 :  
Electro logging work.

On Date : Time : 10:00AM

Submitted By RAMANAND Date: Time 10.00 AM Sign Ramanand

YPI (Aarvee)

Recieved By MOHD ACEM Date: Time Sign M. Acm

Comments :

<b>Civil Department</b>		<b>E&amp;M, I/C Department</b>	
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 POWER TRANSMISSION LIMITED

**aarvee associates**  
architects engineers & consultants pvt. ltd.



### PROJECT - STATE WATER AND SANITATION MISSION PROJECT ALIGARH

#### REQUEST FOR INSPECTION (RFI)

Format No : JJM/ALIGARH/KPTL/D1

RFI no:  
JJM/ALIGARH/KPTL/

Date : 16/06/23

Contractor Name: Kalpataru Power Transmission Limited.

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

#### Location of Work

DISTRICT: ALIGARH      BLOCK: BIGAULI      SCHEME: GANGA BASS HAMIDPUR

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 type="checkbox"/>	Lowering <input type="checkbox"/>	OP Unit <input checked="" 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="checkbox"/>			

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="checkbox"/>	

Work Description :

Tube well lowering work.

LPM-

Drill depth -> 115

On Date : 16/06/23

Time : 10:00AM

Submitted By : RAMANAND

Date:

Time 10.00 AM

Sign

[Signature]

TPI (Aarvee)

Received By : MOH.D. ASEM

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