

District Level Water Analysis Laboratory , U.P Jal Nigam (Rural), ALIGARH

BUILDINGNO 01, ADHIKSHAN ABHIYANTA KARYALAYA, NIRMAN MANDAL, U.P. JAL NIGAM, RAMGHATROAD, ALIGARH ALIGARH,UTTARPRADESH-202001 (Test Address only)

Print

Test report

Sample
Id:

U1485429520356966

User Information

Name:	Kalpataru power transmission limited	Mobile:	6398162959
Email:	vikas.om@kalpatarugroup.com	Pin Code:	207248
Full Address:	Village- Arjunai Simrai , Gram Panchayat- Arjunai Simrai, Block- Aliganj, District- Etah, State- Uttar Pradesh		

Sample description

Source of Sample:	Bithara	Village:	Bithara
Gram Panchayat:	Bithara	Block:	Aliganj
District:	Etah	State:	Uttar Pradesh
Address:		Remarks:	
Latitude:		Longitude:	

Date & time of sample collection

25.05.2024 | 01:02:00 PM

Date & time of sample received in lab

25.05.2024 | 05:34:00 PM

Date & time of sample analysed

27.05.2024 | 06:02:00 PM

Date & time of report generation

29.05.2024 | 06:05:45 PM

Test results

S. No.	Parameters tested	Unit of measurement	Requirement (acceptable limit) as per BIS 10500	Permissible limit (in absence of alternate source) as per BIS 10500	Test result value	Method of Analysis	Remarks
1	Calcium (as Ca)*	mg/l	75	200	49.700	EDTA Titrimetric method	
2	Chloride (as Cl)*	mg/l	250	1000	23.500	Argentometric method	
3	Colour*	Hazen units	5	15	1.000	Visual comparison method	
4	E. coli	CFU/100 ml	Shall not be detectable in any 100 ml sample	No Relaxation	0.000	MFT	

S. No.	Parameters tested	Unit of measurement	Requirement (acceptable limit) as per BIS 10500	Permissible limit (in absence of alternate source) as per BIS 10500	Test result value	Method of Analysis	Remarks
5	Fluoride (as F)*	mg/l	1	1.5	0.130	Ion selective electrode method	
6	Iron (As Fe)*	mg/l	1	No Relaxation	0.180	Phenanthroline method or as per IS 15303:2002 Electrothermal atomic absorption/Spectrophotometer method	
7	Magnesium (As Mg)*	mg/l	30	100	35.900	Calculation by APHA	
8	Nitrate (as NO ₃)*	mg/l	45	No Relaxation	10.400	UV-Visible Spectrophotometer	
9	pH*	NA	6.5-8.5	No Relaxation	7.830	Electrometric method	
10	Sulphate (as SO ₄)*	mg/l	200	400	19.600	Turbidimetric method	
11	TDS*	mg/l	500	2000	347.000	Gravimetric method	
12	Total Alkalinity (as Calcium Carbonate)*	mg/l	200	600	328.000	Titration method	
13	Total Arsenic (As As)	mg/l	0.01	No Relaxation	0.000	Silver diethyldithiocarbamate (SDDC) method using UV-Visible Spectrophotometer	
14	Total coliform	CFU/ 100 ml	Shall not be detectable in any 100 ml sample	No Relaxation	0.000	MFT	
15	Total Hardness (As CaCO ₃)*	mg/l	200	600	272.000	EDTA Titrimetric method	
16	Turbidity*	NTU	1	5	1.410	Nephelometric method	

Note:

- 1)*indicates parameters that are NABL accredited.
- 2)This test results related to the sample tested above
- 3)The report shall not to be reproduced in full without approval of authority
- 4)This is the end of the report

Data prepared by

Chemist: (Yashwant Singh)

Microbiologist: (Yashwant Singh)

Authorised signatory

Shailender rajawat (Test Lab Incharge)

*****This is an electronically generated report and does not require a signature.*****

Jal Jeevan Mission aims at potable tap water supply to every home

Let's join hands to ensure drinking water is potable. It helps in preventing water borne diseases and improve public health.

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PROJECT - STATE WATER AND SANITATION MISSION PROJECT ETAH

Format No : KPIL/232221F/00001

REQUEST FOR INSPECTION (RFI)

Contractor Name: Kalpataru Projects International Limited

RFI no: JJM/ETAH/KPIL/

Date : 12/07/23

LOA No- 3563/W-25 (Aligarh)/2021-22 dated 07.01.2022

District: Etah.

Block : Aliganj.

Location of Work

Scheme : GP Bithara.

Date : 13/07/23.

Following civil items are ready for inspection :

SBC Tube Well

Shuttering Brick Work

Rising Main Backfilling

HDPE Pipeline Others

Excavation

Plaster Work

M.S. Wicket Gate/ Window

PCC

Painting

RC

Stand Post

Interlocking Tile

Following Mechanical, Electrical, C&I items are ready for inspection :

Instrumentation

ump Set

Lighting

Earthing cable

Welding

Stabilizer

EMF Meter

Starter

Valves

Pannel

Level / Pressure Transmitter

Piping- DI () HDPE () MS () MDPE ()

Chain Pully

Sloar

Date :

DG Set

Chlorinating Plant

RTU

Others

Work Description :

- (i) Tubewell Drilling and Electro logging work.
- (ii) Location \Rightarrow GP Bithara, Block Aliganj.
- (iii) Drilling Depth \Rightarrow 110 MTR.

On Date :

07/07/23

Submitted By

Sunil

Time :

11:00 AM

TPI (Aarvee)

Date 12/07/23

Time 04:00 PM

Sign

Sunil

Received By

Comments :

Date

Time

Sign

[Signature]

Drilling depth = 110 mtr
Logging depth = 110 mtr

Civil Department

APPROVED

APPROVED AS NOTED

REJECTED

NAME :

DESIG :

SIGN:

E&M , I/C Department

APPROVED

APPROVED AS NOTED

REJECTED

NAME :

SIG :

IN :

PROJECT - STATE WATER AND SANITATION MISSION PROJECT ETAH

REQUEST FOR INSPECTION (RFI)

Format No : KPIL/232221F/00001 **RFI no:** JJM/ETAH/KPIL/ **Date :** 24/07/23.
Contractor Name: Kalpataru Projects International Limited LOA No- 3563/W-25 (Aligarh)/2021-22 dated 07.01.2022

Location of Work

District: Etah **Block :** Aligarh **Scheme :** GPs Bithasia

Following civil items are ready for inspection :

Date : 25/07/23.

SBC	<input type="checkbox"/>	Tube Well	<input checked="" type="checkbox"/>	Excavation	<input type="checkbox"/>	PCC	<input type="checkbox"/>	RC	<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="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"/>
mp Set	<input type="checkbox"/>	Stabilizer	<input type="checkbox"/>	Panne	<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 ()	<input type="checkbox"/>	Others	<input type="checkbox"/>		

Work Description :

(i) Tubewell Assembly Lowering work.
 (ii) Location → GPs → Bithasia, Block → Aligarh.
 (iii) Assembly Size = 200mm φ

On Date : 25/07/23 **Time :** 11:00 AM

Submitted By Sunil **Date** 24/07/23 **Time** 11:00 AM **Sign** Sunil

TPI (Aarvee)

Received By **Date** **Time** **Sign** [Signature]

Comments :

Total assembly = 102.50m + v
 200mm plain pipe = 80.50m + v
 Hotbed Pipe = 22m + v

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

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BITHARA, BLOCK-ALIGANJ, DISTT- ETAH UNDER JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 110 mtrs. depth. and Logged depth 110 mtrs. at above site. Was drilled by M/s Kalpataru Power Transmission limited, Etah.

On the request of M/s Kalpataru Power Transmission limited, Etah. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 07.Jul.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 = 16.52 Ohms.

Drilling Water Resistivity = 17.60 Ohms.

Approx Water Level = 20 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 20	15	Dry sand	
3.	20 - 30	10	Clay kankar	
4.	30 - 40	10	Sand & Kankar	
5.	40 - 42	2	Clay kankar	
6.	42 - 45	3	Medium sand	Medium
7.	45 - 50	5	Clay kankar	
8.	50 - 64*	14	Medium sand	Medium
9.	64 - 72	8	Clay kankar	
10.	72 - 75	3	Fine sand	Medium
11.	75 - 79	4	Clay Kankar	
12.	79 - 81	2	Fine Sand	Medium
13.	81 - 90	9	Clay Kankar	
14.	90 - 103*	13	Fine to Medium sand	Medium
15.	103 - 110	7	Clay kanakar	

Ground Water Survey Consultancy



G.P. : Bithara,

Block : Aligarh

District : Etah

Required : 580 LPM

300mm dia Plain Pipe : X
200mm dia Plain Pipe : 76
200mm dia Slotted Pipe : 24
100 mH

Streta :-

42-45 → 03 mH
50-64 → 14 mH
90-103 → 13 mH

6.00	0.50
6.00	
6.00	
6.00	
6.00	
0.50	
6.00	
6.00	112.00
3.00	115.00
5.50	50.50
6.00	
1.00	
6.00	43.50
6.00	
6.00	
2.50	
6.00	
6.00	90.00
6.00	96.00
6.00	102.00 ✓

300mm dia Plain Pipe : X
300X200 mm Reducer : X
200mm dia Plain Pipe : 80.50 mH
200mm dia Slotted Pipe : 22.00 mH
Total : 102.50 mH



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aarvee associates
architects engineers & consultants pvt. ltd.



QUALITY MANAGEMENT
SYSTEM

Format No :

KPTL/232221F/00023

DEPTH OF
STARTA

PROPOSED ASSEMBLY DETAILS

Block- Aliganj
GP- Bithara

SL.	DPR Details -
1	Lowering Date - <u>25/07/2023</u>
2	Water Discharge in LPM - <u>580 L.P.M</u>
3	Bore well Drilling dia- <u>500 mm φ</u>
	Bore well Drilling depth- <u>110 MTR.</u>

LOGGING REPORT

20	5.42	5.42 MTR.
19	6.01	11.43 MTR.
18	6.01	17.44 MTR.
17	6.02	23.46 MTR.
16	6.02	29.48 MTR.
15	0.5	29.98 MTR.
14	6.01	35.99 MTR.
13	6.01	42.00 MTR.
12	3.00	45.00 MTR.
11	5.50	50.50 MTR.
10	6.02	56.52 MTR.
9	1.01	57.53 MTR.
8	5.97	63.50 MTR.
7	6.02	69.52 MTR.
6	6.01	75.53 MTR.
5	2.42	77.95 MTR.
4	6.02	83.97 MTR.
3	6.03	90.00 MTR.
2	6.00	96.00 MTR.
1	6.00	102.00 MTR.

SL.	Depth Range	Thickness	Remarks
1	42.45	3	Medium Sand
2			
3	50-64	14	"
4			
5	72.75	3	medium.
6			
7	79-81	2	"
8			
9	90-103	13	"
10			
11			

Assembly Details

Proposed Assembly for Lowering

1.	300mm dia MS Plain Pipe-	-
2.	200mm dia MS Plain Pipe	80.50 MTR.
3.	200mm dia MS Slotted Pipe-	22.00 MTR.
4.	200mm dia LCG Pipe -	-
5.	300/200 mm dia Reducer -	-
6.	MS Bail Plug-	01 nos.
7.	MS Ring 300mm-	-
8.	MS Ring 200mm-	19 nos.
9.	MSSI Clamp-	01 nos.
10.	Centre Guide -	04 nos.
11.	TW Assembly Support-	01 nos.
12.	MS Well Cap -	01 nos.
13.	Pea Gravel Packing-	-

Sunil Kumar
KPTL

TPI

CLIENT (UPJN)

Lowering work
executed as per
assembly chart.