

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:

U1485429521575385

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:	Firojpur Silauni	Village:	Firoz Pur Siloni
Gram Panchayat:	Firoz Pur Siloni	Block:	Marehra
District:	Etah	State:	Uttar Pradesh
Address:		Remarks:	
Latitude:		Longitude:	

Date & time of sample collection

06.07.2024 | 01:12:00 PM

Date & time of sample received in lab

06.07.2024 | 03:24:00 PM

Date & time of sample analysed

08.07.2024 | 06:17:00 PM

Date & time of report generation

09.07.2024 | 12:18:43 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	28.900	EDTA Titrimetric method	
2	Chloride (as Cl)*	mg/l	250	1000	30.000	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	0.080	Ion selective electrode method	
6	Iron (As Fe)*	mg/l	1	No Relaxation	0.010	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	7.000	UV-Visible Spectrophotometer	
9	pH*	NA	6.5-8.5	No Relaxation	8.130	Electrometric method	
10	Sulphate (as SO ₄)*	mg/l	200	400	12.700	Turbidimetric method	
11	TDS*	mg/l	500	2000	237.000	Gravimetric method	
12	Total Alkalinity (as Calcium Carbonate)*	mg/l	200	600	172.000	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	220.000	EDTA Titrimetric method	
16	Turbidity*	NTU	1	5	0.810	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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GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-B- 232

Date:- 26-06-2024

NAME OF SITE

GRAM PANCHAYAT- Firojpur Siloni

BLOCK- Marhera

DISTT- Etah

NAME OF AGENCY

M/s Kalpataru Project International Pvt. Ltd.
Etah



GROUND WATER SURVEY CONSULTANCY

Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

112 A-Shree Nagar Colony, Firozabad Road, Agra- 282006

(M) : 9412260823, 9794625420, 9761163000, Email : gwsc_agra@yahoo.com

ISO ; 9001 : 2015

Ground Water Survey Consultancy



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- FIROJPUR SILONI, BLOCK- MARHERA, DISTT- ETAH
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 Project International Pvt. Ltd, Etah.

On the request of M/s Kalpataru Project International Pvt. Ltd, Etah. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 26.June.2024.

Logging Para meters - Self potential, short normal (N16), 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:-

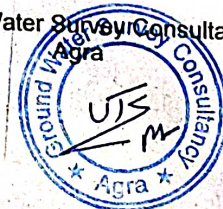
Mud Resistivity = 16.42 Ohms.

Drilling Water Resistivity = 17.12 Ohms.

Approx Water Level = 11 Mtr.

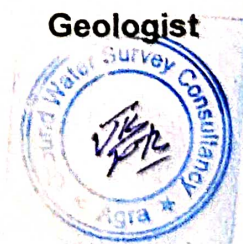
S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 12	7	Dry sand	
3.	12 - 16	3	Clay kankar	
4.	16 - 18	2	Fine sand	
5.	18 - 29	11	Clay kankar	
6.	29 - 34	5	Fine to Medium sand	Medium
7.	34 - 39	5	Clay kankar	
8.	39 - 43	4	Fine to Medium sand	Medium
9.	43 - 50	7	Clay kankar	
10.	50 - 54	4	Fine sand	Medium
11.	54 - 70	16	Clay kankar	
12.	70 - 90*	20	Medium sand	Medium
13.	90 - 95	5	Clay kankar	
14.	95 - 105	10	Fine to Med sand & kan	Medium
15.	105 - 120	15	Clay kankar	

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Conclusions and Recommendations :-

1. The Lithology broadly tallies with that of drill cutting strata chart.
2. The zones marked with asterisk (*) appear to be aquifer zones for possible Development of tube well.
3. The Quality of water is expected Medium.
4. It is recommended to have a chemical and bacteriological analysis of the water sample before using it for human consumption or for any other use.
5. All projections and recommendations are subject to the inherent limitations of the technique employed and there could be variations as the underground conditions are not always amenable to physical interpretations.



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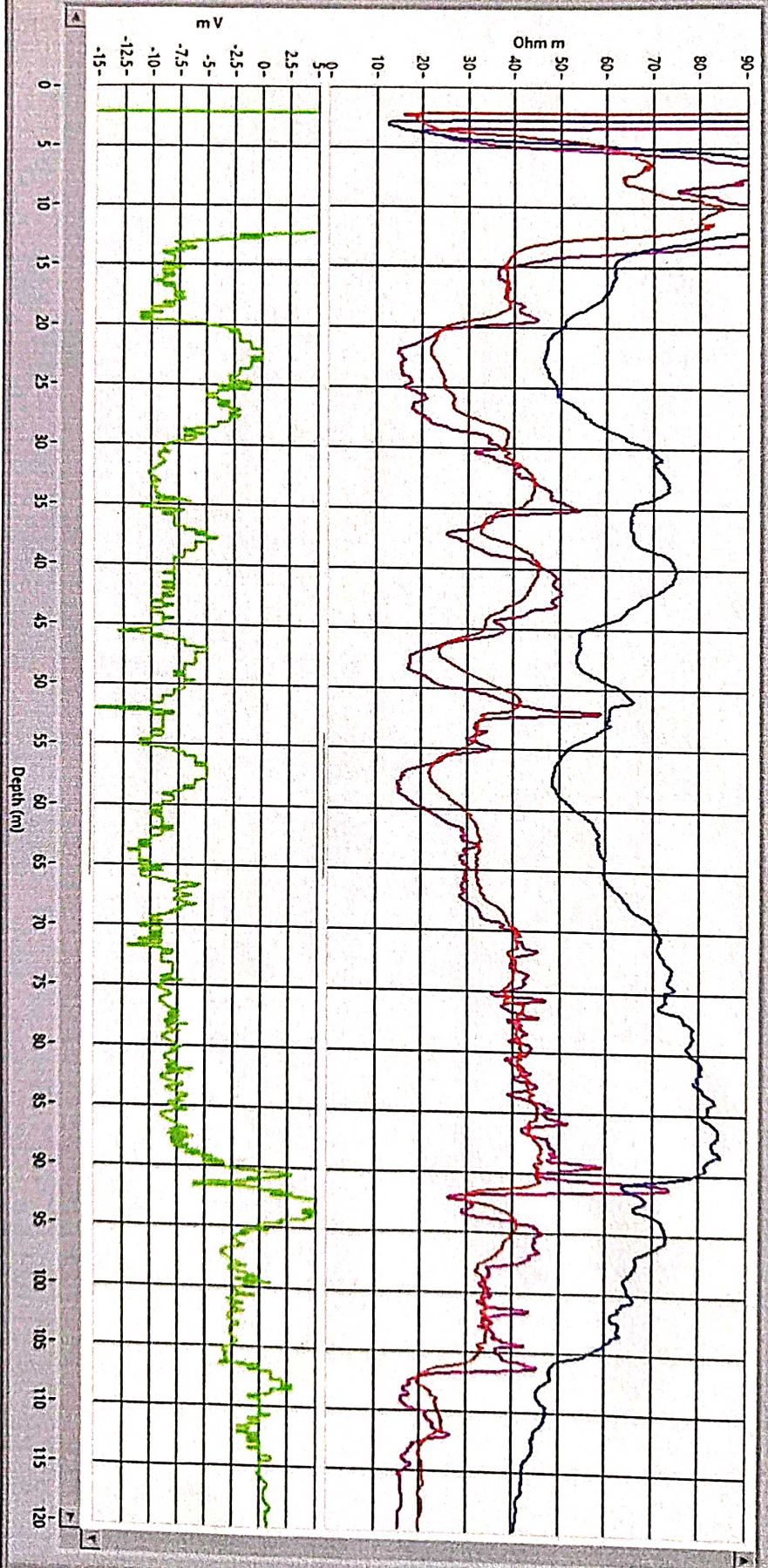
Rho a
 N16 (SN)
 N64(LN)
 LAT

Logging Details:
 Logging System: Schlumberger
 Logging Unit: Schlumberger
 Logging Date: 24.04.2024
 Logging Time: 13.24
 Logging Location: (if available)

Logger's No: IGIS/04/21-22

Logger Model: SP (m V)
 DMP-2

Logger Owned by:
 GROUND WATER SURVEY CONSULTANCY - AGRA INDIA





KALPA-TARU

Aarvee associates
architects engineers & consultants Pvt. Ltd



PROJECT - STATE WATER AND SANITATION MISSION PROJECT ETAH

REQUEST FOR INSPECTION (RFI)

Format No : KPIL/232221F/00001

RFI no: JJM/ETAH/KPIL/

Date : 20/06/2024

Contractor Name: Kalpataru Projects International Limited

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

Location of Work

District: Etah Block: Mathura Scheme: Firozpur Sinauli

Following civil items are ready for inspection :

Date :

- SBC Tube Well Excavation PCC RCC
- 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 :

⇒ RFI FOR Tubewell Drilling work.
 ⇒ Discharge as per DPR - 660 LPM Drilling dia (600 mm - 75 mtr.)
 ⇒ Site layout - (20 x 50 mtr.) 9th 500mm - 75 mtr.
 ⇒ Electrical logging work.

On Date : 20/06/2024

Time : 11:00pm.

Submitted By Shubham Kumar Maurya

Date 20/06/2024 Time 7:30am

Sign Shubham

TPI (Aarvee)

Recieved By

Date 26/6/24 Time

Sign TPI

Comments :

Drilling depth ⇒ 120 mtr
 Logging depth ⇒ 120 mtr

Civil Department

E&M , I/C Department

NAME : APPROVED

NAME : APPROVED

DESIG : APPROVED AS NOTED

DESIG : APPROVED AS NOTED

SIGN: REJECTED

SIGN: REJECTED

PROJECT - STATE WATER AND SANITATION MISSION PROJECT ETAH

REQUEST FOR INSPECTION (RFI)

Format No : KPIL/232221F/00001 RFI no: JJM/ETAH/KPIL/ Date : 29/06/2024
 Contractor Name: Kalpataru Projects International Limited LOA No- 3563/W-25 (Aligarh)/2021-22 dated 07.01.2022

Location of Work

District: Etah Block : Morhara Scheme : Firojpur Sirauli

Following civil items are ready for inspection : Date :
 SBC Tube Well Excavation PCC RCC
 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 :

⇒ RFI FOR Tubewell lowering work.
 ⇒ Discharge - 660 LPM . lowering depth - 108 mtr.

On Date : 30/06/2024 Time : 1:00pm
 Submitted By Subhamkumar Date 30/06/2024 Time 8:00am Sign Subhamkumar

Recieved By Date 01/07/24 Time Sign [Signature]

Comments :
 Total Assembly = 108 mtr
 300mm plain pipe = 36 mtr
 200 mm plain pipe = 43.82 mtr
 Slotted pipe = 27.98 mtr
 Civil Department E&M , I/C Department

NAME : APPROVED NAME : APPROVED
 DESIG : APPROVED AS NOTED DESIG : APPROVED AS NOTED
 SIGN: REJECTED SIGN: REJECTED



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Arvee associates
architects engineers & consultants pvt. ltd.



QUALITY MANAGEMENT SYSTEM

Format No :
KPTL/232221F/00023

DEPTH OF STARTA

PROPOSED ASSEMBLY DETAILS

Block- Marhera

GP- Firojpur Sinauli

SL. DPR Details -

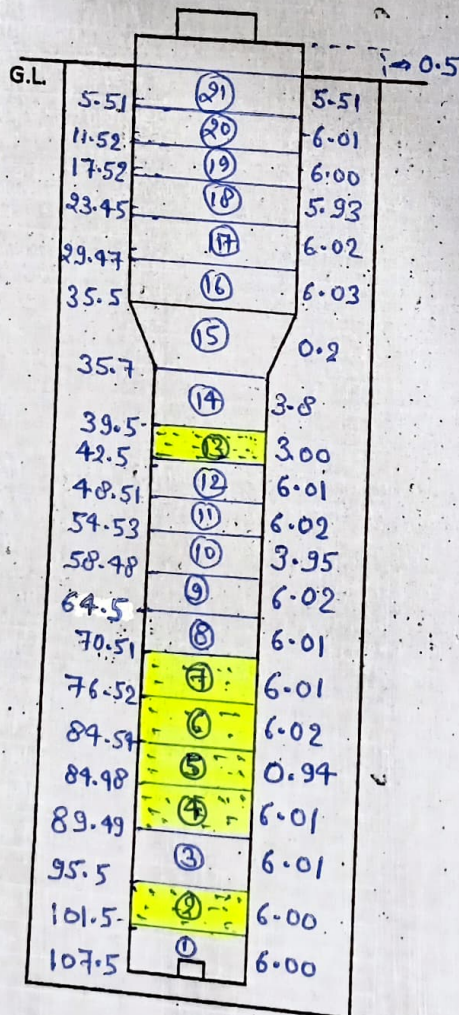
Lowering Date - 01/07/2024

1. Water Discharge In LPM - 600

2. Bore well Drilling dia- 600/500 mm

3. Bore well Drilling depth- 120mtr.

LOGGING REPORT



Depth-	Date-		
SL.	Depth Range	Thickness	Remarks
1	39-43	4 mtr.	
2			
3	70-90	20 mtr.	
4			
5	95-105	10 mtr.	
6			
7			
8			
9			
10			
11			

Assembly Details

Proposed Assembly for Lowering

- 300mm dia MS Plain Pipe - 36 mtr.
- 200mm dia MS Plain Pipe - 4382 mtr.
- 200mm dia MS Slotted Pipe - 27-98
- 200mm dia LCG Pipe -
- 300/200 mm dia Reducer - 0.200 mtr.
- MS Ball Plug - 1
- MS Ring 300mm- 6
- MS Ring 200mm- 14
- MSSI Clamp- 1
- Centre Guide - 3
- TW Assembly Support- 1
- MS Well Cap - 1
- Pea Gravel Packing-

Shubham
KPTL

CPH
TPI

Lowering work
executed as per
assembly chart.

CLIENT (UPJN)

G.P. : firozpur - Sibani Zone - I T.W

Block : marehra

District : Etah

Required : 660 LPM

300mm dia Plain Pipe : 48.00
 200mm dia Plain Pipe : 32.00
 200mm dia Slotted Pipe : 20.00
1.10mtr

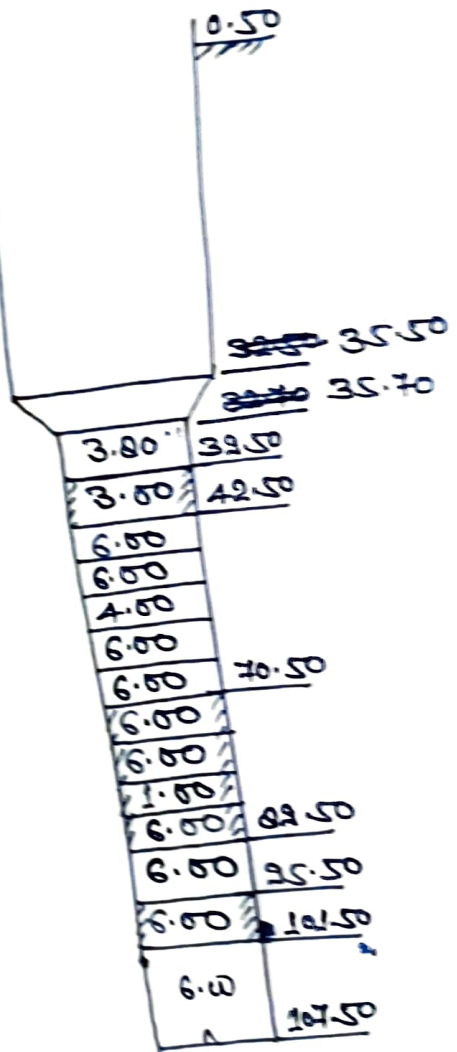
Streta :-

39-43 → 04mtr

70-90 → 20mtr

95-105 → 10mtr

Water head → 37 feet.



300mm dia Plain Pipe	: 36.00 mtr
300X200 mm Reducer	: 0.20 mtr
200mm dia Plain Pipe	: 43.80 mtr
200mm dia Slotted Pipe	: 28.00 mtr
Total	: 108.00 mtr