



# Jal Jeevan Mission

Har Ghar Jal



## 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:

U1716871S18149140

### User Information

Name:

Kalpataru Projects International Limited

Mobile:

9098864227

Email:

ssinfra@gmail.com

Pin Code:

Full Address:

Village- Pehara Majra Kabir Pur , Gram Panchayat- Pehara Majra Kabir Pur, Block- Shitalpur, District- Etah, State- Uttar Pradesh

### Sample description

Source of Sample:

Dalelpur

Village:

Dalelpur

Gram Panchayat:

Dalelpur

Block:

Sakit

District:

Etah

State:

Uttar Pradesh

Address:

Remarks:

Latitude:

Longitude:

Date & time of sample collection

02.02.2024 | 11:45:00 AM

Date & time of sample received in lab

03.02.2024 | 10:10:00 AM

Date & time of sample analysed

12.02.2024 | 11:22:00 PM

Date & time of report generation

01.04.2024 | 12:01:53 AM

## Test results

Requirement

Permissible limit (in absence of

Test

Sr. No.	Parameters tested	Unit of measurement	(acceptable limit) as per BIS 10500	alternate source) as per BIS 10500	result value	Remarks
1	Calcium (as Ca)*	mg/l	75	200	38.500	
2	Chloride (as Cl)*	mg/l	250	1000	32.000	
3	Colour*	Hazen units	5	15	1.000	
4	E. coli	CFU/100 ml	Shall not be detectable in any 100 ml sample	No Relaxation	0.000	
5	Fluoride (as F)*	mg/l	1	1.5	0.310	
6	Iron (As Fe)*	mg/l	1	No Relaxation	0.020	
7	Magnesium (As Mg)*	mg/l	30	100	33.100	
8	Nitrate (as NO3)*	mg/l	45	No Relaxation	7.900	
9	pH*	NA	6.5-8.5	No Relaxation	7.760	
10	Sulphate (as SO4)*	mg/l	200	400	13.700	
11	TDS*	mg/l	500	2000	391.000	
12	Total Alkalinity (as Calcium Carbonate)*	mg/l	200	600	244.000	
13	Total Arsenic (As As)	mg/l	0.01	No Relaxation	0.000	
14	Total coliform	CFU/ 100 ml	Shall not be detectable in any 100 ml sample	No Relaxation	0.000	
15	Total Hardness (As CaCO3)*	mg/l	200	600	202.000	
16	Turbidity*	NTU	1	5	0.480	

**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

**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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# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- DALELPUR, BLOCK- SAKIT, DISTT- ETAH  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 110 mtrs. depth. and Logged depth 107 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.Aug.2023.

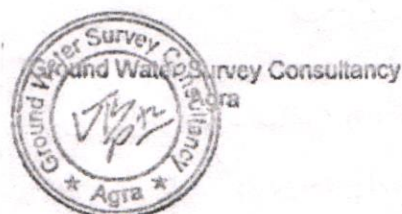
Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major Aquifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

Mud Resistivity = 16.34 Ohms.

Drilling Water Resistivity = 17.40 Ohms.

Approx Water Level = 9 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 10	5	Clay knakar	
3.	10 - 20	10	Medium sand	
4.	20 - 35	15	Clay kankar	
5.	35 - 38	3	Fine to Medium sand	Medium
6.	38 - 44	6	Clay kankar	
7.	44 - 53*	9	Medium sand	Medium
8.	53 - 60	7	Clay kankar	
9.	60 - 77*	17	Medium sand	Medium
10.	77 - 84	7	Clay kankar	
11.	84 - 88*	4	Medium sand	Medium
12.	88 - 94	6	Clay kankar	
13.	94 - 101*	7	Medium sand	Medium
14.	101 - 107	6	Clay kankar	





KALPA-TARU

darvee associates  
architects engineers & consultants pvt. ltd.



QUALITY MANAGEMENT SYSTEM

Format No :  
KPTL/232221F/00023

DEPTH OF STARTA

**PROPOSED ASSEMBLY DETAILS**

Block- Sakit

GP- Dalelpuz

SL. DPR Details -

Lowering Date - 12/08/2023

1 Water Discharge in LPM - 330

2. Bore well Drilling dia- 500mm

3. Bore well Drilling depth- 110m

**LOGGING REPORT**

Depth- 107m

Date- 07/08/2023

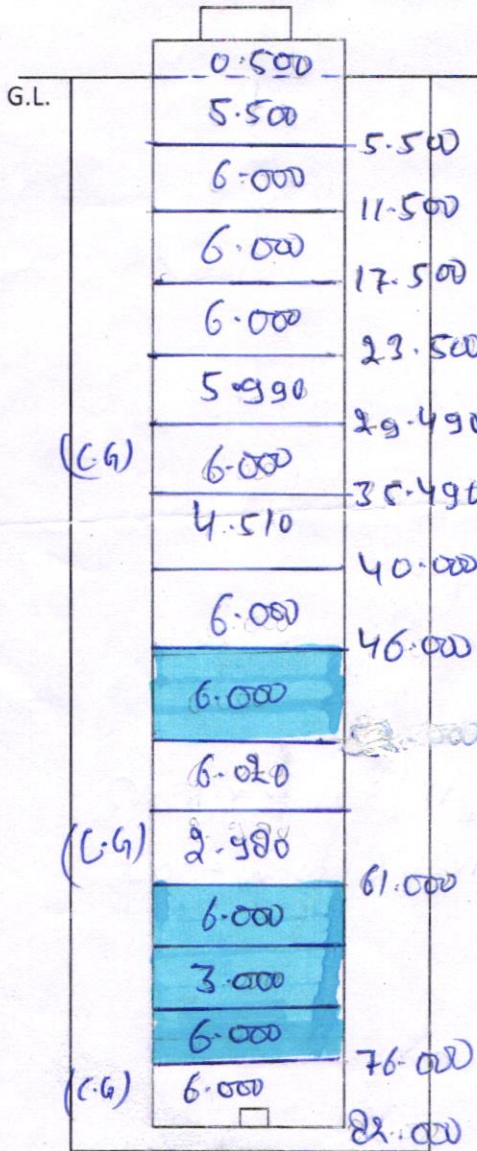
SL.	Depth Range	Thickness	Remarks
1	44-53	09	medium sand
2	60-77	17	"
3	84-88	04	"
4	94-101	06	"
5			
6			
7			
8			
9			
10			
11			

**Assembly Details**

Total Assembly = 82.500m

**Proposed Assembly for Lowering**

- 300mm dia MS Plain Pipe-
- 200mm dia MS Plain Pipe 61.500m
- 200mm dia MS Slotted Pipe- 21m
- 200mm dia LCG Pipe -
- 300/200 mm dia Reducer -
- MS Bail Plug- 01
- MS Ring 300mm-
- MS Ring 200mm- 14
- MSSI Clamp- 01
- Centre Guide - 03
- TW Assembly Support- 01
- MS Well Cap - 01
- Pea Gravel Packing- 22.000m (22.00m) (14m<sup>3</sup> → 6m<sup>3</sup>)



KPTL

9/8/23

TPI

Lowering work executed as per assembly chart.

CLIENT (UPJN)

**M/S KALPATARU PROJECTS INTERNATIONAL LIMITED**

Yield test report of TW by OP Unit at DALILPUR Rural Water Supply Scheme Block SAKIT Under JJM Programme DisTrict Etah

- 1) Date of Test 16/9/2023  
 2) T.W. Depth 82.00 mtr  
 3) Size of T.W. 200X200 mm  
 4) Taste of Water:- Potable  
 5) Type of InsTrument:- Water Meter  
 6) C.A. No. : 542/ED/PHASE-3/2022-23/II DATED - 11-03-2023

S.No.	Discharge in LPM	SWL in MTr	RWL in MTr	Depression in MTr.	Sand contents in PPM					Remark	
					Starting	after 5 Min	after 10 Min	after 15 Min	after 20 Min		after 30 Min
1	650	7.05	10.05	3.00	400	200	100	50	Tr	Tr	Recommended discharge 330 LPM at 1.95 Mtr depression . Pump should be run in by pass for 10 minutes before inject in main line.
2	500	7.05	9.40	2.35	300	150	50	Tr	Tr	Cl	
3	330	7.05	9.00	1.95	50	Tr	Cl	Cl	Cl	Cl	
4	200	7.05	8.45	1.40	Tr	Cl	Cl	Cl	Cl	Cl	

*Ashish*

*Opit*

Prepared By	Checked By	JE	AE	EE
M/s Kalpataru Projects International Limited	M/s Aarvee Associates (TPI)	Division Office (E&M), U.P Jal Nigam (Rural), Agra		

**JAL JEEVAN MISSION ETAH PHASE-3**  
**KALPATARU PROJECTS INTERNATIONAL LIMITED**  
**AIR COMPRESSOR LOG SHEET**

Consultant :- AARVEE ASSOCIATES

Scheme Name :- DALILPUR

Block :- SAKIT

Drill Depth :- 110 Mtr.

Required LPM :- 330

Starting date :- 2/09/2023

Ending date :- 7/09/2023

Size Of Tubewell :- 200X200 mm Dia.

Lowering Depth :- 82.50 mtr

Date	START TIME	CLOSE TIME	HOURS	REMARK
2/9/2023	9:30 AM	12:15 PM	2:45	
	2:30 PM	5:30 PM	3:00	
3/9/2023	9:10 AM	11:10 AM	2:00	
	1:30 PM	4:50 PM	3:20	
4/9/2023	9:10 AM	11:00 AM	1:50	
	12:50 PM	3:00 PM	2:10	
	4:30 PM	5:30 PM	1:00	
5/9/2023	9:15 AM	11:00 AM	1:45	
	11:50 AM	2:30 PM	2:40	
	3:00 PM	5:00 PM	2:00	
6/9/2023	9:20 AM	11:10 AM	1:50	
	12:30 PM	5:30 PM	5:00	
	6:00 PM	6:40 PM	0:40	
7/9/2023	9:30 AM	11:15 AM	1:45	
	12:00 PM	3:00 PM	3:00	
	3:15 PM	5:15 PM	2:00	
<b>TOTAL RUNNING HOURS</b>			<b>36:45:00</b>	

	KPTL REPRESENTATIVE	TPI REPRESENTATIVE	UPJN (E&M) REPRESENTATIVE
SIGN	<i>A. Shukla</i>	<i>Prithi</i>	
NAME			
DATE			

## M/S KALPATARU PROJECTS INTERNATIONAL LIMITED

Test report of TW by Air Compressor Unit at DALIJPUR Rural Water Supply Scheme Block SAKIT Under JJM Programme District ETAH

Date of Test :- 07/09/2023

Static Water Level:- 7.05 Mtr

Depth of Tubewell :- Before Development :- 77.00 Mtr,

After Development: - 81.00 Mtr

Sl. No.	Depth of Airline (Mtr.)	Discharge in LPM	Sand Contents in PPM						Remarks
			Start	5 Min	10 Min	15 Min	20 Min	30 Min	
1	48	330	3200	2000	1000	900	900	800	Recommended for further development with OP Unit.
2	63		2800	2000	1000	700	700	700	
3	69		2600	1900	1000	700	700	700	
4	75		2500	1800	1000	700	700	700	

*Ashish*

*Pit*

<b>Prepared By</b>	<b>Checked By</b>	<b>JE</b>	<b>AE</b>	<b>E.E</b>
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<b>M/s Kalpataru Projects International Limited</b>	<b>M/s Aarvee Associates (TPI)</b>
<b>Division Office (E&amp;M), U.P Jal Nigam (Rural), Agra</b>	



**JAL JEEVAN MISSION ETAH PHASE-3  
KALPATARU PROJECTS INTERNATIONAL LIMITED  
OP UNIT LOG SHEET**

**Consultant :- AARVEE ASSOCIATES**

**Scheme Name :- DALILPUR**

**Required LPM :- 330**

**Starting date :- 09/09/2023**

**Size Of Tubewell :- 200X200 mm Dia.**

**Block :- SAKIT**

**Water level :- 7.05 mtr**

**Ending date :- 16/09/2023**

**Lowering Depth :- 82.50 mtr**

Date	START TIME	CLOSE TIME	HOURS	REMARK
9/9/2023	8:45 AM	1:50 PM	5:05	
	2:00 PM	6:50 PM	4:50	
10/9/2023	9:00 AM	1:50 PM	4:50	
	2:00 PM	5:30 PM	3:30	
	5:45 PM	6:50 PM	1:05	
	9:00 AM	11:45 AM	2:45	
11/9/2023	12:00 PM	2:30 PM	2:30	
	2:40 PM	7:20 PM	4:40	
12/9/2023	8:45 AM	11:10 AM	2:25	
	11:30 AM	3:00 PM	3:30	
	3:10 PM	6:50 PM	3:40	
13/9/2023	9:00 AM	12:50 PM	3:50	
	1:00 PM	5:00 PM	4:00	
	5:15 PM	6:55 PM	1:40	
	8:40 AM	12:30 PM	3:50	
14/9/2023	12:45 PM	4:00 PM	3:15	
	4:15 PM	6:30 PM	2:15	
	9:00 AM	12:00 PM	3:00	
	12:20 PM	4:40 PM	4:20	
15/9/2023	5:00 PM	6:50 PM	1:50	
	9:00 AM	12:40 PM	3:40	
	1:00 PM	5:30 PM	4:30	
<b>TOTAL RUNNING HOURS</b>			<b>75:00:00</b>	

**KPTL REPRESENTATIVE** *Ashu* **TPI REPRESENTATIVE** *Prithi* **UPJN (E&M) REPRESENTATIVE**

**SIGN**

**NAME**

**DATE**