



## 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: U2044547518472695

### User Information

Name: KALPATARU POWER TRANSMISSION LTD Mobile: 7906905503

Email: www.totaltechinfra.com Pin Code:

Full Address: Village- Bithara , Gram Panchayat- Bithara, Block- Aliganj, District- Etah, State- Uttar Pradesh

### Sample description

Source of Sample: Yadgarpur Village: Yadgarpur

Gram Panchayat: Yadgarpur Block: Marehra

District: Etah State: Uttar Pradesh

Address: Remarks:

Latitude: Longitude:

#### Date & time of sample collection

19.02.2024 | 02:32:00 PM

#### Date & time of sample received in lab

20.02.2024 | 05:29:00 PM

#### Date & time of sample analysed

21.02.2024 | 05:35:00 PM

#### Date & time of report generation

27.02.2024 | 05:37:00 PM

## Test results

Sr. 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	Remarks
1	Calcium (as Ca)*	mg/l	75	200	28.900	
2	Chloride (as Cl)*	mg/l	250	1000	20.000	
3	Colour*	Hazen units	5	15	5.000	
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	0.410	
6	Iron (As Fe)*	mg/l	1	No Relaxation	0.010	
7	Magnesium (As Mg)*	mg/l	30	100	39.900	
8	Nitrate (as NO3)*	mg/l	45	No Relaxation	3.400	
9	pH*	NA	6.5-8.5	No Relaxation	7.980	
10	Sulphate (as SO4)*	mg/l	200	400	8.600	
11	TDS*	mg/l	500	2000	247.000	
12	Total Alkalinity (as Calcium Carbonate)*	mg/l	200	600	128.000	
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	236.000	
16	Turbidity*	NTU	1	5	8.640	

**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.

Disclaimer: This report is for informational purposes only. Copy right reserved. © 2020

**Print**



**KALPA-TARU**



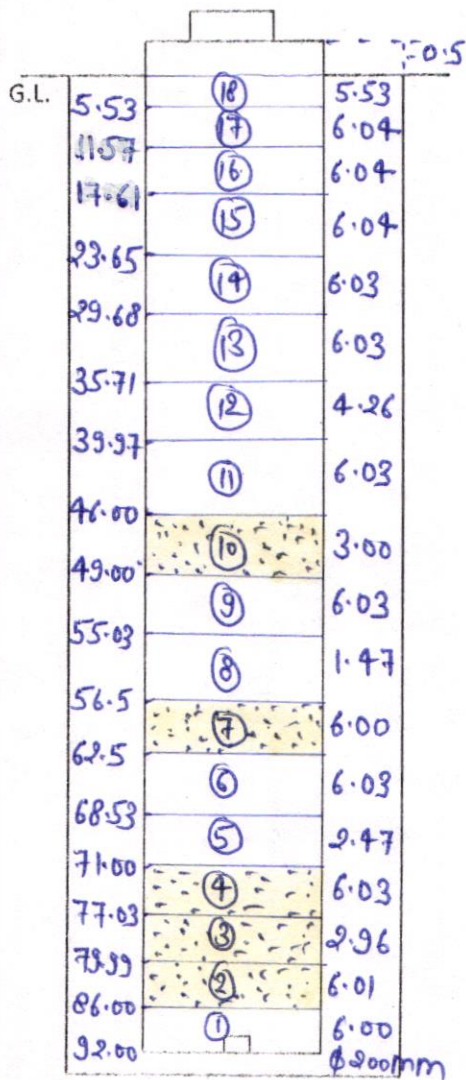
**aarvee associates**  
architects engineers & consultants pvt. ltd.



QUALITY MANAGEMENT SYSTEM

Format No :  
KPTL/232221F/00023

DEPTH OF STARTA	PROPOSED ASSEMBLY DETAILS	DPR Details -			
		Block- <u>Mathura.</u>	Lowering Date - <u>26/06/2023</u>	1	Water Discharge in LPM - <u>520</u>
	GP- <u>Yadgaapur.</u>	2.	Bore well Drilling dia- <u>500</u>		
		3.	Bore well Drilling depth- <u>110</u>		
		LOGGING REPORT			
		Depth-	Date-		
		SL.	Depth Range		
		Thickness	Remarks		
		1	45-50	5 mtr.	
		2			
		3	56-64	08 mtr.	
		4			
		5	71-86	15 mtr.	
		6			
		7			
		8			
		9			
		10			
		11			
		Assembly Details			
		Proposed Assembly for Lowering			
		1. 300mm dia MS Plain Pipe-			
		2. 200mm dia MS Plain Pipe - <u>68.5mtr.</u>			
		3. 200mm dia MS Slotted Pipe- <u>24.00mtr.</u>			
		4. 200mm dia LCG Pipe -			
		5. 300/200 mm dia Reducer -			
		6. MS Bail Plug- <u>1</u>			
		7. MS Ring 300mm-			
		8. MS Ring 200mm- <u>17</u>			
		9. MSSI Clamp- <u>1</u>			
		10. Centre Guide - <u>3</u>			
		11. TW Assembly Support- <u>1</u>			
		12. MS Well Cap - <u>1</u>			
		13. Pea Gravel Packing- <u>21.19cum.</u>			



*Shubham*  
KPTL

*TPI*  
TPI

CLIENT (UPJN)

Lowering work executed as per assembly chart.

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- KALYANPUR YAADGAARPUR, BLOCK- MARHERA, DISTT- ETAH  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 110 mtrs. depth. and Logged depth ~~105~~ 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 18.June.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 = 17.06 Ohms.

Approx Water Level = 12 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 13	8	Clay kankar	
3.	13 - 18	5	Fine to Medium sand	Medium
4.	18 - 25	7	Clay kankar	
5.	25 - 30	5	Medium sand	Medium
6.	30 - 35	5	Clay kankar	
7.	35 - 40	5	Sand & kankar	Medium
8.	40 - 45	5	Clay kankar	
<del>9.</del>	<del>45 - 50*</del>	<del>5</del>	Fine to Medium sand	Medium
10.	50 - 56	6	Clay kankar	
<del>11.</del>	<del>56 - 64*</del>	<del>8</del>	Medium sand	Medium
12.	64 - 71	7	Clay kankar	
<del>13.</del>	<del>71 - 86*</del>	<del>15</del>	Medium sand	Medium
14.	86 - 95	9	Clay kankar	
<del>15.</del>	<del>95 - 98*</del>	<del>3</del>	Fine to Medium sand	Medium
16.	98 - 105	7	Clay kankar	

Ground Water Survey Consultancy



- Logging performed as per SWSM guidelines  
- Groundwater quality interpreted by firm as per their logger calibration  
G.S.W.  
20/06/23