REPORT ON GEOPHYSICAL WELL LOGGING
AT

GRAM PANCHAYAT- DHUTLAI, BLOCK- SAKEET, 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 30.Jan.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 = 15.~~64 Ohms~~.
Drilling Water Resistivity = 17.~~30 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 - 10	5	Clay kankar	
3.	10 - 18	8	Fine sand	
4.	18 - 23	5	Clay kankar	
5.	23 - 28	5	Sand & kankar	Medium
6.	28 - 32	4	Clay kankar	
7.	32 - 38	6	Fine to Medium sand	Medium
8.	38 - 42	4	Clay kankar	
9.	42 - 48	6	Medium sand	Medium
10.	48 - 52	4	Clay kankar	
11.	52 - 60*	8	Medium sand	Medium
12.	60 - 77	17	Clay kankar	
13.	77 - 92*	15	Medium sand & kankar	Medium
14.	92 - 105	13	Clay kankar	

Ground Water Survey Consultancy Agra

- Logging performed as per SWSM guidlines.
- Groundwater quality predicted by formula as per their logger/ calibration

Gidh
31/01/23

KALPA-TARU | aarvee associates architects engineers & consultants pvt. ltd. | SWSM Uttar Pradesh

QUALITY MANAGEMENT SYSTEM
Format No : KPTL/232221F/00023

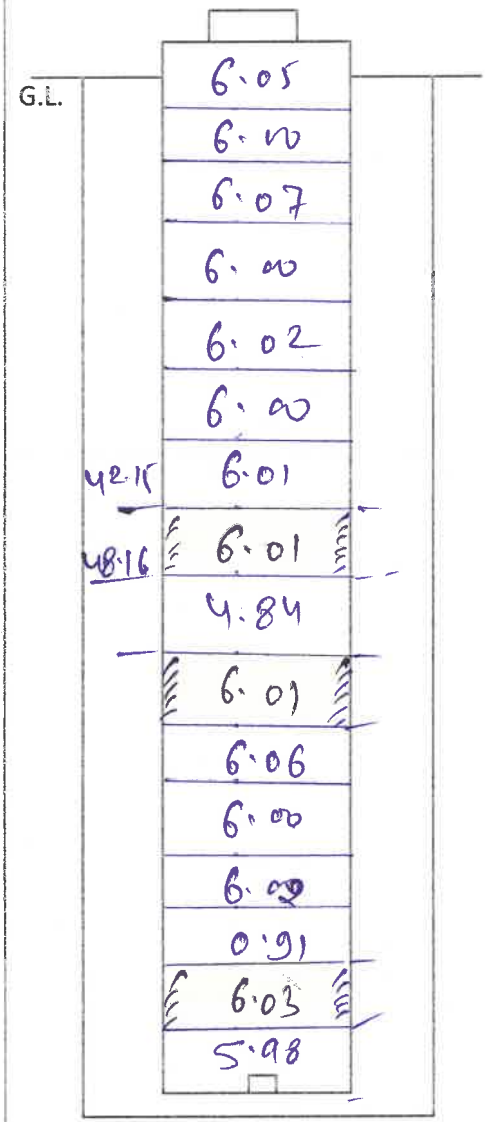
DEPTH OF STARTA

PROPOSED ASSEMBLY DETAILS

Block- Sakit

GP- Dhatkai

SL.	DPR Details -	~~2/2/2023~~
	Lowering Date -	~~300~~ 2/2/2023
1	Water Discharge in LPM -	300 LPM
2.	Bore well Drilling dia-	500 MM
3.	Bore well Drilling depth-	100 MTR



Total = 89.51 + 0.5
= 90.01

LOGGING REPORT

Depth- Date- 31/01/2023

SL.	Depth Range	Thickness	Remarks
1	42-48	6	
2			
3	52-60	8	
4			
5	77-92	15	
6			
7			
8			
9			
10			
11			

Assembly Details

Proposed Assembly for Lowering

1. 300mm dia MS Plain Pipe-	
2. 200mm dia MS Plain Pipe	71.96
3. 200mm dia MS Slotted Pipe-	18.05
4. 200mm dia LCG Pipe -	
5. 300/200 mm dia Reducer -	
6. MS Bail Plug-	01
7. MS Ring 300mm-	
8. MS Ring 200mm-	15
9. MSSI Clamp-	01
10. Centre Guide -	03
11. TW Assembly Support-	01
12. MS Well Cap -	01
13. Pea Gravel Packing-	20 Cm

KPTL

TPI

Lowering work executed as per assembly chart

CLIENT (UPJN)

Jal Jeevan Mission

Har Ghar Jal

Har Ghar Jal
Jal Jeevan Mission

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)

Test report

Sample ID: U1621760S11535559

User Information

Name:	KALPATARU POWER TRANSMISSION LIMITED	Mobile:	9758010399
Email:	praveen.singh2@kalpatarupower.com	Pin Code:	
Full Address:	Village- Barthar , Gram Panchayat- Barthar, Block- Shitalpur, District- Etah, State- Uttar Pradesh		

Sample description

Source of Sample:	Tube well / Bore well / Well	Village:	Ghutlai
Gram Panchayat:	Ghutlai	Block:	Sakit
District:	Etah	State:	Uttar Pradesh
Address:		Remarks:	
Latitude:		Longitude:	

Date & time of sample collection	Date & time of sample received in lab	Date & time of sample analysed	Date & time of report generation
15.04.2023 | 12:25:00 PM	20.04.2023 | 10:36:00 PM	24.04.2023 | 11:19:00 PM	24.04.2023 | 11:19:00 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	25.700	
2	Chloride (as Cl)*	mg/l	250	1000	42.000	
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	0.290	

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
6	Free residual Chlorine	mg/l	0.2	1	0.000	
7	Iron (As Fe)*	mg/l	1	No Relaxation	0.100	
8	Magnesium (As Mg)*	mg/l	30	100	18.500	
9	Nitrate (as NO3)*	mg/l	45	No Relaxation	8.900	
10	Odour*	NA	Agreeable	Agreeable	0.000	
11	pH*	NA	6.5-8.5	No Relaxation	7.190	
12	Sulphate (as SO4)*	mg/l	200	400	5.400	
13	TDS*	mg/l	500	2000	225.000	
14	Total Alkalinity (as Calcium Carbonate)*	mg/l	200	600	120.000	
15	Total Arsenic (As As)	mg/l	0.01	No Relaxation	0.000	
16	Total coliform	CFU/ 100 ml	Shall not be detectable in any 100 ml sample	No Relaxation	0.000	
17	Total Hardness (As CaCO3)*	mg/l	200	600	132.000	
18	Turbidity*	NTU	1	5	1.320	

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)

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.