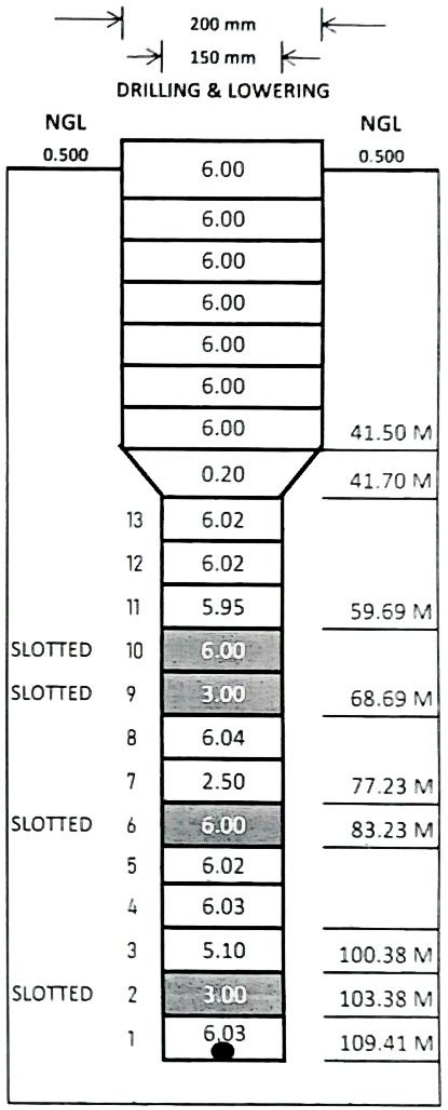
TUBEWELL ASSEMBLY CHART	
PROJECT: RURAL WATER SUPPLY SCHEME UNDER SWSM-JJM	
EPC CONTRACTOR: VISHVARAJ ENVIRONMENT PVT LTD	
COVER AGGREMENT No. :	564/ED/PHASE-III/2022-23/IV
SCHEME NAME :	KHANPUR BIRAMPUR
LOA NO. :	564/ED/PHASE-III/2022-23/IV-20061465
BLOCK :	BISALPUR
LOWERING DATE :	30/09/2023

LIST OF TUBE WELL ASSEMBLY UNITS			
SR. NO.	DISCRIPTION	QTY. (M)	DIAMETER
1	PLAIN PIPES	42.00	200 mm
2	PLAIN PIPES	49.71	150 mm
3	SLOTTED PIPES	18.00	150 mm
200 mm	MM DIA PLAIN PIPES		42.00 M
200X150	MM DIA REDUCER		0.20 M
150 mm	MM DIA PLAIN PIPES		49.71 M
150 mm	MM DIA SLOTTED PIPES		18.00 M
	TOTAL DEPTH		109.91 M
	AGL		-0.50 M
	TOTAL LOWERING DEPTH		109.41 M

LOGGING REPOET AS-		
50 M	70 M	Coarse sand
74.50	85 M	Coarse sand
92.50	95.50	Medium sand
99 M	105 M	Coarse sand



VISHVARAJ ENVIRONMENT PVT. LTD.

EPL

M/S BLG CONSTRUCTION
(TPI)

J.E.

A.E.
(E&M U.P. JAL NIGAM RURAL MORADABAD)

GSTIN. 03BNPPS2540N1ZK

Technologies

M/S E.R. TECHNOLOGIES

(Govt. Contractor of PH & Civil Works & Electrical Works)

(Specialist in: Deep Tube well, Sick Tube well, Geological and Hydro-Geological Survey, Electric Logging of Borehole, Videography of Borehole, Water Sample & Soil Testing etc.

Ref. .....

Dated.....29/09/2023

REPORT OF ELECTRIC LOGGING OF BOREWELL DRILLED AT SITE VILLLAGE KHANPUR URF BIRAMPUR, BLOCK BISALPUR, DISRICT PILIBHIT, UTTAR PRADESH UNDER JAL JEEVAN MISSION

Introduction:

The borehole at the site was drilled to a depth of 162.00 meters, and the electric logging was conducted up to 162.00-meter depth using a continuous logger on Sep29, 2023. The purpose of this logging was to assess the various subsurface strata and properties encountered during drilling, with a focus on resistivity measurements (LON -64" and SHN-16) and self-potential (SP) data. This report provides an analysis of the interpreted data and offers recommendations for further actions under the Jal Jeevan Mission.

Name of agency	Vishwaraj Enviroment Pvt. Ltd, Atal Power India
Location	Khanpur urf Birampur
Block	Bisalpur
District	Pilibhit,U.P
Depth drilled (mbgl)	162
Depth logged (mbgl)	162
Water level (m)	10
LON -64" Resistivty(N-64)	Ohm.m (Blue)
SHN-16 Resistivity (N-16)	Ohm.m (Red)
Self-Potential (SP)	Mv (Green)

Sr. No	Depth Range (m)		Zone Thickness(m)	LON -64" N Resistivity (ohm.m)	Probable Strata	Expected water Quality
	From	To				
1	0.00	5.00	5.00	25	Top soil	-
2	5.00	17.00	12.00	79	Coarse Sand , Gravel	-
3	17.00	20.00	3.00	35	Clay	-
4	20.00	38.00	18.00	69	Medium Coarse Sand	-
5	38.00	50.00	12.00	29	Clay	-
6	50.00	70.00	20.00	71	Coarse Sand	-
7	70.00	74.50	4.50	37	Clay	-
8	74.50	85.00	10.50	79	Coarse Sand , Gravel	Good
9	85.00	92.00	7.00	29	Clay	-
10	92.50	95.50	3.00	55	Medium Sand	Good
11	95.50	99.00	3.50	35	Clay	-
12	99.00	105.00	6.00	82	Coarse Sand , Gravel	Good
13	105.00	112.00	7.00	33	Clay	-

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14	**112.00**	**120.00**	**8.00**	**77**	**Coarse Sand**	**Good**
15	120.00	123.00	3.00	37	Clay	-
16	**123.00**	**128.00**	**5.00**	**75**	**Coarse Sand**	**Good**
17	128.00	130.00	2.00	29	Clay	-
18	**130.00**	**136.00**	**6.00**	**70**	**Coarse Sand**	**Good**
19	136.00	139.50	3.50	35	clay	-
20	**139.50**	**151.00**	**11.50**	**67**	**Medium Coarse Sand**	**Good**
21	151.00	157.00	6.00	15	Clay	-
22	157.00	162.00	5.00	21	Sandy Clay	-

Recommendations:

Based on the interpreted strata data from the electric logging, the following recommendations are provided:

1. **Screen Installation:**
   It is recommended to install screens against the **bold-marked strata** indicated in the interpretation above. These screens will help facilitate water inflow from the identified permeable zones.

2. **Expected Water Quality:**
   The expected water quality in the zones marked as "Medium" is anticipated to be favorable.

3. **Tubewell Development:**

   To optimize water yield, it is advised to develop the tubewell using a high-capacity air compressor.

PKumar

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