

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- NAND NAGAR, BLOCK- HARAYA SATGRAHWA,
DISTT- BALRAMPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 275 mtrs. depth. and Logged depth ~~240~~ mtrs. at above site. Was drilled by M/S L&T Construction Limited, Balrampur.

On the request of M/S L&T Construction Limited, Balrampur. a Geophysical well Logging is conduct at above bore hole using IGIS Well Logger on 29.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 = 21.52 Ohms.

Drilling Water Resistivity = 22.70 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 - 27	14	Medium sand	
4.	27 - 40	13	Clay kankar	
5.	40 - 50	10	Sand & kankar	
6.	50 - 61	11	Clay kankar	
7.	61 - 63	2	Medium sand	Good
8.	63 - 72	9	Clay kankar	
9.	72 - 80*	8	Medium sand	Good
10.	80 - 88	8	Clay kankar	
11.	88 - 99*	11	Medium sand & kankar	Good
12.	99 - 110	11	Clay kankar	
13.	110 - 141*	31	Medium sand	Good
14.	141 - 148	7	Clay kankar	
15.	148 - 150*	2	Medium sand	Good
16.	150 - 155	5	Clay kankar	
17.	155 - 160*	5	Medium sand	Good
18.	160 - 188	28	Clay kankar	
19.	188 - 197*	9	Medium sand	Good
20.	197 - 208	11	Clay kankar	
21.	208 - 236*	28	Medium sand	Good
22.	236 - 240	4	Clay kankar	

Ground Water Survey Consultancy



GSh
29/06/23

- Logging performed as per SWSM guidelines
- Ground water quality interpreted by firm as per their logger calibration.