

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- DHAURIKALA, BLOCK- HARREYASATGHARWA,
DISTT- BALRAMPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 275 mtrs. depth. and Logged depth 262 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 31.May.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 = 20.39 Ohms.

Drilling Water Resistivity = 21.53 Ohms.

Approx Water Level = 8 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 - 15	5	Fine sand	
4.	15 - 24	9	Clay kankar	
5.	24 - 26	2	Fine sand	
6.	26 - 55	29	Clay kankar	
7.	55 - 60	5	Sand & kankar	
8.	60 - 66	6	Clay kankar	
9.	66 - 70*	4	Fine to Medium sand	Good
10.	70 - 80	10	Clay kankar	
11.	80 - 85	5	Sand & kankar	Good
12.	85 - 94	9	Clay kankar	
13.	94 - 96	2	Fine sand	Good
14.	96 - 103	7	Clay kankar	
15.	103 - 111*	8	Medium sand	Good
16.	111 - 120	9	Clay kankar	
17.	120 - 125*	5	Fine to Medium sand	Good
18.	125 - 169	44	Clay kankar	
19.	169 - 171	2	Fine sand	Good
20.	171 - 181	10	Clay kankar	
21.	181 - 186*	5	Fine to Medium sand	Good
22.	186 - 195	9	Clay kankar	
23.	195 - 198	3	Sand & kankar	
24.	198 - 218	20	Clay kankar	
25.	218 - 227*	9	Medium sand	Good
26.	227 - 253	26	Clay kankar	
27.	253 - 255	2	Fine sand	Good
28.	255 - 262	7	Clay kankar	

G.Sh
31/05/23

Ground Water Survey Consultancy



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