

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- RATANPUR, BLOCK- BALRAMPUR, DISTT- BALRAMPUR  
UNDER  
JAL JIVAN MISSION

**Introduction :**

A Deep bore hole was drilled 275 mtrs. depth. and Logged depth ~~273~~ 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 30.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 = 23.69 Ohms.

Drilling Water Resistivity = 24.70 Ohms.

Approx Water Level = 3 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 33	28	Medium sand	Good
3.	33 - 50	17	Clay kankar	
4.	50 - 60	10	Sand & kankar	Good
5.	60 - 70	10	Clay kankar	
6.	70 - 75*	5	Fine to Medium sand	Good
7.	75 - 86	11	Clay kankar	
8.	86 - 91*	5	Fine to Medium sand	Good
9.	91 - 105	14	Clay kankar	
10.	105 - 109	4	Fine sand	Good
11.	109 - 120	11	Clay kankar	
12.	120 - 131*	11	Medium sand	Good
13.	131 - 140	9	Clay kankar	
14.	140 - 150*	10	Medium sand	Good
15.	150 - 162	12	Clay kankar	
16.	162 - 171*	9	Medium sand	Good
17.	171 - 195	24	Clay kankar	
18.	195 - 239*	44	Medium sand & kankar	Good
19.	239 - 249	10	Clay kankar	
20.	249 - 267*	18	Medium sand	Good
21.	267 - 273	6	Clay kankar	

Gsh  
31/05/23

Ground Water Survey Consultancy



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