

## REPORT ON GEOPHYSICAL WELL LOGGING AT

### GRAM PANCHAYAT- ARJUNPUR PURANPUR, BLOCK- TULSIPUR, DISTT- BALRAMPUR UNDER JAL JIVAN MISSION

**Introduction :**

A Deep bore hole was drilled 275 mtrs. depth. and Logged depth ~~270~~ 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 = ~~22.58~~ Ohms.

Drilling Water Resistivity = ~~23.64~~ Ohms.

Approx Water Level = 9 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 20	15	Clay kankar	
3.	20 - 27	7	Sand & kankar	
4.	27 - 38	11	Clay kankar	
5.	38 - 44	6	Sand & kankar	
6.	44 - 51	7	Clay kankar	
7.	51 - 56	5	Fine sand	Good
8.	56 - 64	8	Clay kankar	
9.	64 - 67	3	Fine sand	Good
10.	67 - 75	8	Clay kankar	
11.	75 - 84*	9	Medium sand	Good
12.	84 - 100	16	Clay kankar	
13.	100 - 110*	10	Medium sand	Good
14.	110 - 116	6	Clay kankar	
15.	116 - 120	4	Fine sand & kankar	Good
16.	120 - 125	5	Clay kankar	
17.	125 - 130	5	Fine sand	Good
18.	130 - 143	13	Clay kankar	
19.	143 - 158*	15	Medium sand	Good
20.	158 - 163	5	Clay kankar	
21.	163 - 166	3	Fine sand	Good
22.	166 - 175	9	Clay kankar	
23.	175 - 188*	13	Medium sand	Good
24.	188 - 194	6	Clay kankar	
25.	194 - 201	7	Sand & kankar	
26.	201 - 239	38	Clay kankar	
27.	239 - 244*	5	Medium sand	Good
28.	244 - 253	9	Clay kankar	
29.	253 - 258*	5	Fine to Medium sand	Good
30.	258 - 270	12	Clay kankar	

Ground Water Survey Consultancy

Agra



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

G&S  
31/05/23