

# REPORT ON GEOPHYSICAL WELL LOGGING AT

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

## Introduction :

A Deep bore hole was drilled 165 mtrs. depth. and Logged depth ~~156~~ <sup>165 mbgl</sup> 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 = 20.41 Ohms.

Drilling Water Resistivity = 21.92 Ohms.

Approx Water Level = 6 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 20	15	Fine to Medium sand	Good
3.	20 - 28	8	Clay kankar	
4.	28 - 40	12	Medium sand	Good
5.	40 - 44	4	Clay kankar	
6.	44 - 50	6	Fine to Medium sand	Good
7.	50 - 61	11	Clay kankar	
8.	61 - 78*	17	Medium sand	Good
9.	78 - 85	7	Clay kankar	
10.	85 - 102*	17	Medium sand & kankar	Good
11.	102 - 108	6	Clay kankar	
12.	108 - 112*	4	Fine to Medium sand	Good
13.	112 - 120	8	Clay kankar	
14.	120 - 122	2	Fine sand	Good
15.	122 - 128	6	Clay kankar	
16.	128 - 138*	10	Medium sand	Good
17.	138 - 147	9	Clay kankar	
18.	147 - 165*	18	Medium sand & kankar	Good

G.Sh  
31/05/23

Ground Water Survey Consultancy -



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