REPORT ON GEOPHYSICAL WELL LOGGING
AT
GRAM PANCHAYAT- FARENDA, BLOCK- MOHAMMADI, DISTT- LAKHIMPURKHERI
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 165 mtrs. depth. and Logged depth 160 mtrs. at above site. Was drilled by M/s Vindha Telelinks Limited SWSM LakhimpurKheri.

On the request of M/s Vindha Telelinks Limited SWSM LakhimpurKheri. A Geophysical well Logging in the above bore hole using IGIS Well Logger on 11.Dec.2022.

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 = 21.15 Ohms.

Drilling Water Resistivity = 21.01 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 - 15	10	Fine sand	Good
3.	15 - 27	13	Clay kankar	
4.	27 - 35	8	Medium sand	Good
5.	35 - 40	5	Kankar	
6.	40 - 62*	22	Medium sand & kankar	Good
7.	62 - 66	4	Clay kankar	
8.	66 - 71*	5	Medium sand	Good
9.	71 - 77	6	Clay kankar	
10.	77 - 105*	28	Medium sand	Good
11.	105 - 119	14	Clay kankar	
12.	119 - 122	3	Fine sand	Good
13.	122 - 132	10	Clay kankar	
14.	135 - 155*	20	Medium sand	Good
15.	155 - 160	5	Clay kankar	

Sr No 6 - 40 - 48 (8m) and 52 - 62 (10m)
Sr No 14 - 140 - 155 (15m)

Logging performed as per SWSM guidelines and Ground water quality interpreted by team as per their logger calibration

Ground Water Survey Consultancy
Agra

Farooda, Block - Mohammadi, CKP

Rig. dish - 650 LOM

A. Size - ϕ300 x 120 mm

Depth - 160 mt

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1. 40 - 62 = 22 < 40 - 40 = 0, 52 - 62 = 10
2. 66 - 71 = 5
3. 77 - 105 = 28
4. 135 - 155 = 20 < 140 - 155 = 15