

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- THARIA, BLOCK- BEHJAM, DISTT- LAKHIMPUR KHIRI
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 NCC, Lakhimpur Khiri.

On the request of M/s NCC, Lakhimpur Khiri. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 04.Dec.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 = 23.76 Ohms.

Drilling Water Resistivity = 24.09 Ohms.

Approx Water Level = 3 Mtr.

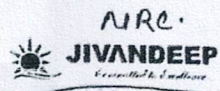
S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 8	3	Clay kankar	
3.	8 - 13	5	Fine sand	
4.	13 - 20	7	Clay kankar	
5.	20 - 30	10	Medium sand	Good
6.	30 - 44	14	Clay kankar	
7.	44 - 58*	14	Medium sand	Good
8.	58 - 63	5	Clay kankar	
9.	63 - 70*	7	Fine to Medium sand	Good
10.	70 - 75	5	Clay kankar	
11.	75 - 82*	7	Fine to Medium sand	Good
12.	82 - 94	12	Clay kankar	
13.	94 - 104*	10	Medium sand	Good
14.	104 - 110	6	Clay kankar	
15.	110 - 125*	15	Medium sand	Good
16.	125 - 128	3	Kankar	
17.	128 - 133*	5	Medium sand	Good
18.	133 - 140	7	Clay kankar	
19.	140 - 145*	5	Fine to Medium sand	Good
20.	145 - 160	15	Clay kankar	

Ground Water Survey Consultancy



CMW

Date 05/12/2023 - G.P. Thania



	W.L	Block: Behjam-Khari	200 X 150 φ	0.50 MTR
	3 mtr	R. Disch - 330 LPM (7.5 H.P)		
		A size: 200 X 150 MM φ	6 X 8	
		B. size: 500 X 450 MM φ	48 M	
Logging Date - 4-12-2023				
4/7	44 - 58 - 14M			47.50
2/9	63 - 70 - 7		0.20	47.70
3/11	75 - 82 - 7		6.00	
9/13	94 - 104 - 10 - 9		6.00	
5/15	110 - 125 - 15 - 9		6.00	
6/17	128 - 133 - 5		6.00	
7/19	140 - 145 - 5		6.00	
			6.00	
1-	200 MM φ Housing - 48.00 mtr		6.00 4.80	46.80 - 94.50
2-	150 MM φ PLAIN - 61.80	94-104 10 M		6.00
3-	150 MM φ SLOT - 18.00			3.00 - 103.50
4-	200 X 150 Reducer .20		6.00	
	128.00 with 4hr mtr		3.00	9.00 - 112.50
		116-128 15 M		6.00
				3.00 - 121.50
			0	6.00 - 127.50 MTR
(Mikas Vaidan) JES				