



# REPORT ON GEOPHYSICAL WELL LOGGING AT

## GRAM PANCHAYAT- OELDEHAT ZONE -1, BLOCK- BEHJAM, DISTT- LAKHIMPUR KHIRI UNDER JAL JIVAN MISSION

### Introduction :

A Deep bore hole was drilled 165 mtrs. depth. and Logged depth 165 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 20.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 = 21.80 Ohms.

Drilling Water Resistivity = 22.34 Ohms.

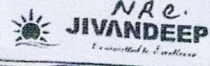
Approx Water Level = 5 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 22	17	Medium sand	
3.	22 - 31	9	Clay kankar	
4.	31 - 40	9	Fine to Medium sand	Good
5.	40 - 46	6	Clay kankar	
6.	46 - 58	12	Fine to Medium sand	Good
7.	58 - 62	4	Clay kankar	
8.	62 - 72*	10	Medium sand	Good
9.	72 - 77	5	Clay kankar	
10.	77 - 88*	11	Medium sand	Good
11.	88 - 95	7	Clay kankar	
12.	95 - 102*	7	Medium sand	Good
13.	102 - 114	12	Clay kankar	
14.	114 - 125*	11	Medium sand	Good
15.	125 - 130	5	Clay kankar	
16.	130 - 133	3	Fine sand	Good
17.	133 - 141	8	Clay kankar	
18.	141 - 157*	16	Medium sand	Good
19.	157 - 165	8	Clay kankar	

Ground Water Survey Consultancy



Date 21/12/2023 - G.P. OEL Dehaat 20we I



WL	Block. Beh jam - Khari	200 x 150 mm CP	0.50 Mtr AgL
5 MTR	R. Ditch: 470 LPM (10 H.P) (18 m/slot)	6x8	
	A. Size: 200 x 150 mm CP	48 m	
	B. Size: 500 x 450 mm CP		
	Logging Date 20/12/2023		
	(165 MTR Logging)		
1/8	62 - 72 - 10 m	0.20	47.50
			47.70
2/10	77 - 88 - 11 - 6	6.00	
3/12	95 - 102 - 7 - 6	6.00	
4/14	114 - 125 - 11 - 6	6.00	
5/	141 - 157 - 16	6.00	
		6.00	
		2.30	
			32.30 - 80.00
1	200 MM φ Housing - 48.00 MTR	77-88 11M	6.00 - 86.00
2	150 MM φ PLAIN - 62.80		6.00
3	150 MM φ SLOT - 18.00		3.50
4	200 x 150 Reducer	95-102 7M	9.50 - 95.50
	0.20		6.00 - 101.50
	129.00 MTR WITH AgL		
		6.00	
		6.00	
		2.50	14.50 - 116.00
		114-125 11M	6.00 - 122.00
		0	6.00 - 128.00
			MTR
			(Vikas Yadav) GE