

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- FAJAL NAGAR GRANT, BLOCK- BIJUA,
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 30.Jan.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 = ~~14.46~~ Ohms.

Drilling Water Resistivity = ~~16.51~~ 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 - 12	7	Fine sand	
3.	12 - 22	10	Clay	
4.	22 - 41	19	Medium sand	Medium
5.	41 - 48	7	Clay kankar	
6.	48 - 65*	17	Medium sand	Medium
7.	65 - 71	6	Clay kankar	
8.	71 - 95*	24	Medium sand	Medium
9.	95 - 107	12	Clay kankar	
10.	107 - 113*	6	Medium sand	Medium
11.	113 - 120	7	Clay kankar	
12.	120 - 139*	19	Medium sand	Medium
13.	139 - 149	10	Clay kankar	
14.	149 - 158*	9	Medium sand	Medium
15.	158 - 165	7	Clay kankar	

SrN8-82-95(13m)

1
G.Sh
31/01/23



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

NCC

WK 04 • 026-339

Jgm
-2

26

JANUARY - THURSDAY

Fajal Nagrathani, Bijua

46 m³.

2022 DEC				
M	T	W	T	F
O	U	E	H	R
N	E	D	U	I
5	6	7	8	9
12	13	14	15	16
19	20	21	22	23
26	27	28	29	30

Discharge - 1500 Lpm

A size - 300 X 200 mm
42 m

L depth - 165

B

Rept - 30/23

$$9 \quad 40 - 65 = 17$$

$$71 - 95 = 24 \left[\frac{82 - 95}{13} \right] \Rightarrow 12$$

$$10 \quad 107 - 113 = 6 \Rightarrow 6$$

$$120 - 139 = 19 = 18$$

$$11 \quad 149 - 158 = 9$$

12

1

2

3

4

5

6

		0.5
		47.5
	0.20	47.7
	6.0	
	6.0	
	6.0	
	6.0	
	4.0	82.5
	6.0	111.5
	6.0	117.5
		94.5
	6.0	
	6.0	
	1.8	
		108.3
	4.2	112.5
	6.0	
	2.0	
		120.5
	6.0	111.5
	6.0	117.5
	6.0	123.5
		138.5
	6.0	144.5