

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- ITALIA, BLOCK- KAUSHAMBHI, DISTT- KAUSHAMBHI
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 95 mtrs. depth. and Logged depth 95 mtrs. at above site. Was drilled by M/s Kalpataru Project International, Kaushambhi.

On the request of M/s Kalpataru Projcet International, Kaushambhi.

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 = 06.63 Ohms.

Drilling Water Resistivity = 04.02 Ohms.

Approx Water Level = 15 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 8	3	Clay	
3.	8 - 15	7	Sandy clay	
4.	15 - 25	10	Clay kankar	
5.	25 - 30	5	Fine sand	
6.	30 - 42	12	Clay kankar	
7.	42 - 48	6	Fine to Medium sand	Moderate
8.	48 - 70	22	Clay kankar	
9.	70 - 80	10	Medium sand & soft rock	Good
10.	80 - 95	15	Clay kankar	

Note :- Please ensure pre-monsoon water level before lower the well assembly



Conclusions and Recommendations :-

The Lithology broadly tallies with that of drill cutting strata chart.

The zones marked with asterisk (*) appear to be aquifer zones for possible Development of tube well.

The Quality of water is expected Moderate to Good.

It is recommended to have a chemical and bacteriological analysis of the water sample before using it for human consumption or for any other use.

All projections and recommendations are subject to the inherent limitations of the technique employed and there could be variations as the underground conditions are not always amenable to physical interpretations.



(Satbir Singh)

**Ex. Geophysicist
Ground Water Department
(U.P. Govt.)**

Rho a

N16 (SN)
N64(QN)
LAT

Logging Details:

CGG 79 02 24 2 2000
CGI-004-01E-018-001
UP LOGG NG64
04 Dec 2023
14:56
"North-South 1/2"

Logger SI No:

IGIS/S/02/23-24

SP (m V)

Logger Model:

DMPL-2

Logger Owned by:

Ground Water
Survey Consultancy
Agre Up Indda

