

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-B- 460

Date:-25-12-2024

NAME OF SITE

GRAM PANCHAYAT- Banwaripur

BLOCK- Hasayan

DISTT- Hathras

NAME OF AGENCY

M/s Braj Gopal Construction
Hathras



GROUND WATER SURVEY CONSULTANCY

Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BANWARIPUR, BLOCK- HASAYAN, DISTT- HATHRAS
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 110 mtrs. depth. and Logged depth 110 mtrs. at above site. Was drilled by M/s Braj Gopal Construction, Hathras.

On the request of M/s Braj Gopal Construction, Hathras. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 25.Dec.2024.

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 = 14.06 Ohms.

Drilling Water Resistivity = 15.54 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 - 20	8	Clay kankar	
4.	20 - 29	9	Fine to Medium sand	Medium
5.	29 - 66	37	Clay kankar	
6.	66 - 72	6	Fine sand & kankar	Saline
7.	72 - 86	14	Clay kankar	
8.	86 - 98	12	Medium sand & kankar	Medium
9.	98 - 110	12	Clay kankar	

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Conclusions and Recommendations :-

1. The Lithology broadly tallies with that of drill cutting strata chart.
2. The zones marked with asterisk (*) appear to be aquifer zones for possible Development of tube well.
3. The Quality of water is expected Medium to Saline.
4. 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.
5. 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.



Geologist

Rho a
 N16 (SN)
 N84 (LN)
 LAT

Logging Details
 SPT V. CAPACITY BOOK
 PENETRATION
 OF LOGGING
 15 CM. DIA.
 1555
 1000

Logger S/N: IGSS/01/21-22

Logger Model: SP (m V)
 DMAPL-2
 Logger Owned by: GROUND WATER SURVEY CONSULTANCY AGRA, UP, India

