

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:-A-2036

Date:- 28-10-2023

NAME OF SITE

GRAM PANCHAYAT- Mohammad Ganj BLOCK- Kadarchowk DISTT- Badaun

NAME OF AGENCY

M/s PNC-SPML-JV
Badaun



GROUND WATER SURVEY CONSULTANCY

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

112 A-Shree Nagar Colony, Firozabad Road, Agra- 282006

(M) - 9412260823, 9794625420, 9761163000, Email : gwsc_agra@yahoo.com

ISO ; 9001 : 2015

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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- MOHAMMAD GANJ, BLOCK- KADARCHOWK,
DISTT- BADAUN

UNDER JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 140 mtrs. depth. and Logged depth 140 mtrs. at above site. Was drilled by M/S PNC-SPML-JV, Badaun.

On the request of M/S PNC-SPML-JV, Badaun. a Geophysical well Logging is conduct at above bore hole using IGIS Well Logger on 28.Oct.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:-

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 11	6	Dry sand	
3.	11 - 25	14	Clay kankar	
4.	25 - 31	6	Medium sand	Medium
5.	31 - 38	7	Clay kankar	
6.	38 - 41	3	Fine sand	Medium
7.	41 - 45	4	Clay kankar	
8.	45 - 52	7	Medium sand	Medium
9.	52 - 55	3	Clay kankar	
10.	55 - 61*	6	Medium sand	Medium
11.	61 - 72	11	Clay kankar	
12.	72 - 75	3	Fine sand	Medium
13.	75 - 81	6	Clay kankar	
14.	81 - 90*	9	Medium sand	Medium
15.	90 - 95	5	Clay kankar	
16.	95 - 96	1	Fine sand	Medium
17.	96 - 110	14	Clay kankar	
18.	110 - 127*	17	Medium sand	Medium
19.	127 - 140	13	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 tubewell.
3. The Quality of water is expected Medium.
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.

Geophysicist



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Rho a
 N16(SN)
 N64(LN)
 LAT

Logging Details:
 Logging G.M. Mohammed
 Genl. Secy. Kharakpur
 Dett. Sultan
 UP LOGGING
 28 Oct. 2023
 2038
 Uthman Guss (AG)

Logger S.No: IGS/S/01/21-22

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

