

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTROLOGGING REPORT**

Ref No:-A-1924

Date:- 19-10-2023

NAME OF SITE

● GRAM PANCHAYAT- Mastipur

BLOCK- Ganjundwara

DISTT- Kasganj

NAME OF AGENCY

M/s PNC-SPML-JV
Kasganj



GROUND WATER SURVEY CONSULTANCY

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

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ISO ; 9001 : 2015

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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- MASTIPUR, BLOCK- GANJDUNDWARA, DISTT- KASGANJ UNDER JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 120 mtrs. depth. and Logged depth 120 mtrs. at above site. Was drilled by M/S PNC-SPML-JV, Kasganj.

On the request of M/S PNC-SPML-JV, Kasganj. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 19.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:-

Mud Resistivity = 15.33 Ohms.

Drilling Water Resistivity = 16.50 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	Dry sand	
3.	8 - 13	5	Clay kankar	Medium
4.	13 - 16	3	Medium sand	
5.	16 - 25	9	Clay kankar	Medium
6.	25 - 30	5	Medium sand	
7.	30 - 35	5	Clay kankar	Medium
8.	35 - 39	4	Fine sand	
9.	39 - 50	11	Clay kankar	Medium
10.	50 - 55*	5	Medium sand	
11.	55 - 75	20	Clay kankar	Medium
12.	75 - 81*	6	Fine to Medium sand	
13.	81 - 94	13	Clay kankar	Medium
14.	94 - 96*	2	Fine to medium sand	
15.	96 - 109	13	Clay kankar	Medium
16.	109 - 116*	7	Medium sand	
17.	116 - 120	4	Clay kankar	Medium

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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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No. 2
M16 (SPT)
M34 (LN)
LAT

Logging Details:
Department of Natural Resources
San Carlos Reservation
Log No. 16
Date of Logging 19 Oct 2012
12:25
Logger: Tanya A.G.

Log No. 16
KSS50/21-22

SP (mV)

Log No. 2
DAPL-2

Log No. 2
GROUND WATER
SURVEY
CONSULTANCY
AGRA, UP, India

