

**GROUND WATER SURVEY CONSULTANCY**  
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL  
ELECTROLOGGING REPORT**

Ref No:-A-1482

Date:- 23-08-2023

**NAME OF SITE**

GRAM PANCHAYAT- Mohammadpur      BLOCK- Kasganj      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**

Ground Water Survey Consultancy  
Agra



# REPORT ON GEOPHYSICAL WELL LOGGING AT

## GRAM PANCHAYAT- MOHAMMADPUR, BLOCK- KASGANJ, DISTT- KASGANJ UNDER JAL JIVAN MISSION

### Introduction :

A Deep bore hole was drilled 110 mtrs. depth. and Logged depth 106 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 23.Aug.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 = 15.23 Ohms.

Drilling Water Resistivity = 16.52 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 - 15	10	Dry sand	
3.	15 - 20	5	Fine sand	
4.	20 - 26	6	Clay kankar	
5.	26 - 31	5	Medium sand	Medium
6.	31 - 36	5	Clay kankar	
7.	36 - 40	4	Fine to Medium sand	Medium
8.	40 - 46	6	Clay kankar	
9.	46 - 51*	5	Medium sand	Medium
10.	51 - 55	4	Clay kankar	
11.	55 - 57*	2	Medium sand	Medium
12.	57 - 60	3	Clay kankar	
13.	60 - 65*	5	Medium sand	Medium
14.	65 - 74	9	Clay kankar	
15.	74 - 80	6	Sandy clay	
16.	80 - 93	13	Clay kankar	
17.	93 - 102*	9	Medium sand	Medium
18.	102 - 106	4	Clay kankar	

Note :- 1. Please ensure pre-monsoon water level before lower the well assembly



**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**



**Ground Water Survey Consultancy**

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-  N16 (SN)
-  N64(LN)
-  LAT

Logging Details

Operator: M. K. ...  
 Project: ...  
 Date: 23 Aug 2022  
 Time: 12:31  
 Area: ...

Logger S. No: IGIS/S/03/21-22

SP (m V)

Logger Model: DMPL-2  
 Logger Owned by: ...

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