

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-A-1952

Date:- 21-10-2023

### NAME OF SITE

GRAM PANCHAYAT- Nathpur Kamalpur      BLOCK- Sidhpura      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



# REPORT ON GEOPHYSICAL WELL LOGGING AT

## GRAM PANCHAYAT- NATHPUR KAMALPUR, BLOCK- SIDHPURA, DISTT- KASGANJ UNDER JAL JIVAN MISSION

### Introduction :

A Deep bore hole was drilled 110 mtrs. depth. and Logged depth 105 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 21.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 = 16.76 Ohms.

Approx Water Level = 8 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 10	5	Clay	
3.	10 - 17	7	Medium sand	Medium
4.	17 - 41	24	Clay kankar	
5.	41 - 77*	36	Medium sand & kankar	Medium
6.	77 - 88	11	Clay kankar	
7.	88 - 96*	8	MEDium sand & kankar	Medium
8.	96 - 105	9	Clay kankar	

**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**

Rho a  
 M16 (SN)  
 NS4(LN)  
 LAT

**Logging Details:**  
 Logging GS Nitter &  
 General Book Services  
 Datt Nagar,  
 US LOGGINGUP  
 21 Oct 2022  
 18:27  
 Dharm Gera (48)

Logger S No:  
 IGS/01/21-22

SP (m V)  
 Logger Model:  
 DMAP-L-2

Logger Owned By:  
 GROUND WATER  
 SURVEY  
 CONSULTANCY  
 AGRA, UP, India

