

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:-A-2125

Date:- 05-11-2023

### NAME OF SITE

GRAM PANCHAYAT- Kalyanpur

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.

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

(M) : 9412260823, 9794625420, 9761163000, Email : gwsc\_agra@yahoo.com

**ISO ; 9001 : 2015**

Ground Water Survey Consultancy

Agra



# REPORT ON GEOPHYSICAL WELL LOGGING AT

## GRAM PANCHAYAT- KALYANPUR, BLOCK- KASGANJ, 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 05.Nov.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 = 15.70 Ohms.

Drilling Water Resistivity = 16.20 Ohms.

Approx Water Level = 12 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 10	5	Clay kankar	
3.	10 - 16	6	Medium sand	Medium
4.	16 - 24	8	Clay kankar	
5.	24 - 30	6	Medium sand	Medium
6.	30 - 46	16	Clay kankar	
7.	46 - 55*	9	Medium sand	Medium
8.	55 - 60	5	Clay kankar	
9.	60 - 70*	10	Medium sand	Medium
10.	70 - 75	5	Clay kankar	
11.	75 - 78*	3	Fine to medium sand	Medium
12.	78 - 93	15	Clay kankar	
13.	93 - 117*	24	Medium sand	Medium
14.	117 - 120	3	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**



Rno 3  
 H16 (SHT)  
 H64(116)  
 LAT

Logging Details:  
 0077 (K) 8/10/07 0000  
 0077 (S) 8/10/07 0000  
 0077 (M) 8/10/07 0000  
 0077 (L) 8/10/07 0000  
 0077 (T) 8/10/07 0000  
 0077 (B) 8/10/07 0000

Logger S/No: IGIS/09/21-22

Logger Model: SP (m V)  
 DMP-L-2  
 Logger Owned by:

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