

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BANGAS NAGAR, BLOCK- KASGANJ, DISTT- KASGANJ  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 115 mtrs. depth. and Logged depth 111 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 is conduct at above bore hole using IGIS Well Logger on 01.May. 2022.

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major equifer 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 = 22.99 Ohms.

Drilling Water Resistivity = 23.67 Ohms.

Approx Water Level = 10 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 14	9	Fine to Medium Sand	
3.	14 - 16	2	Clay kankar	
4.	16 - 29	13	Medium sand	Good
5.	29 - 33	4	Clay kankar	
6.	33 - 35	2	Fine sand	Good
7.	35 - 44	9	Clay kankar	
8.	44 - 54*	10	Medium sand	Good
9.	54 - 57	3	Clay kankar	
10.	57 - 65*	8	Medium Sand	Good
11.	65 - 72	7	Clay kankar	
12.	72 - 84*	12	Fine to Medium Sand Kankar	Good
13.	84 - 90	6	Clay kankar	
14.	90 - 100*	10	Medium Sand	Good
15.	100 - 111	11	Sandy Clay	

All zones are intermixed with thin bands of fine sediments.



- Logging performed as per SWSM guidelines. Ground water quality interpreted by firm as per their log per calibration. ASSISTANT HYDROGEOLOGIST, KANTRIK MANDAL, U.P. JAL NIGAM (RURAL), 01/05/22