GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-A-1924

Date:- 19-10-2023

NAME OF SITE

GRAM PANCHAYAT- Mastipur

BLOCK- Ganjdundwara

DISTT- Kasganj

NAME OF AGENCY

M/s PNC-SPML-JV Kasganj



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

		mi 1(ma)	Lithology	Expected Water
S.No.	Depth	Thickness(m)	Dianosogy	Quality
	range(m)	5	Surface soil	
1.	0 - 5	3	Dry sand	
2.	5 - 8	5	Clay kankar	
3.	8 - 13	3	Medium sand	Medium
4 .	13 - 16	9	Clay kankar	2 (1'
5.	16 - 25	5	Medium sand	Medium
6.	25 - 30	5	Clay kankar	Medium
7.	30 - 35	4	Fine sand	Medium
8.	35 - 39	11	Clay kankar	Medium
9.	39 - 50	5	Medium sand	Medium
10.	50 - 55*	20	Clay kankar	Medium
11.	55 - 75	6	Fine to Medium sand	Iviculture
12.	75 - 81*	13	Clay kankar	Medium
13.	81 - 94	2	Fine to medium sand	
14.	94 - 96*	13	Clay kankar	Medium
15.	96 - 109	7	Medium sand	
16.	109 - 116* 116 - 120	4	Clay kankar	
17	110 - 120			

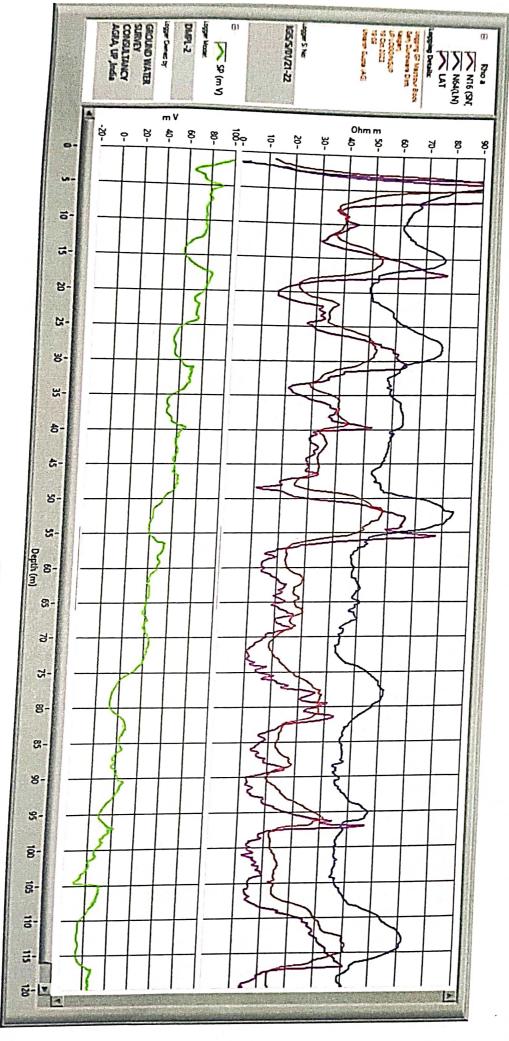
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Conclusions and Recommendations :-

- 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.
- 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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