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GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

A-291

Ref No:- P- 160

Date:- 18-04-2023

NAME OF SITE

GRAM PANCHAYAT- Satha Nabipur

BLOCK- Jalesar

DISTT-Etah

NAME OF AGENCY

M/s ION Exchange India Limited
Etah



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

GRAM PANCHAYAT- SATHA NABIPUR, BLOCK- JALESAR, DISTT-ETAH UNDER JAL JIVAN MISSION

Introduction:

A Deep bore hole was drilled 103 mtrs. depth. and Logged depth 97 mtrs. at above site. Was drilled by M/s ION Exchange India Limited, Etah.

On the request of M/s ION Exchange India Limited, Etah. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 18.April.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 = 12.56 Ohms.

Drilling Water Resistivity = 13.82 Ohms.

Approx Water Level = 20 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Overlie
1.	0 - 5	5	Surface soil	Water Quality
2.	5 - 8	3	Clay	
3.	8 - 15	7	Fine sand	
4.	15 - 20	5	Clay kankar	
5.	20 - 33	13	Medium sand & kankar	Med. To Marginally
6.	33 - 36	3	Clay kankar	
7.	36 - 42	6	Medium sand	Med. To Marginally
8.	42 - 45	3	Clay kankar	Wangmany
9.	45 - 50	5	Fine sand	Med. To Marginally
10.	50 - 53	3	Clay kankar	The second secon
11.	53 - 60*	7	Medium sand	Med. To Marginally
12.	60 - 67	7	Clay kankar	- Allen Britain
13.	67 - 80	13	Fine to Medium sand	Saline
14.	80 - 97	17	Clay kankar	

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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 tube well.
- The Quality of water is expected Medium to Marginally Saline.
- 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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δ 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90	# POT 10- # POT 22:	52501/10-11	Rio a Nile (SW) Nile
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REPORT ON GEOPHYSICAL WELL LOGGING AT

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Ground water quality