

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTOLOGGING REPORT**

Ref No:- A-362

Date:- 27-02-2023

NAME OF SITE

Gram Panchayat- Patai

BLOCK- Sindhauli

DISTT- Shahjahanpur

NAME OF AGENCY

M/s NCC Ltd.
Shahjahanpur



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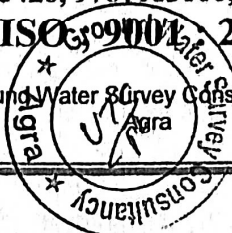
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- PATAI, BLOCK- SINDHAULI, DISTT- SHAHJAHANPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 130 mtrs. depth. and Logged depth 130 mtrs. at above site. Was drilled by M/S NCC Ltd., Shahjahanpur.

On the request of M/S NCC Ltd., Shahjahanpur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 27.Feb.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:-

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 8	3	Dry sand	
3.	8 - 15	7	Fine sand	
4.	15 - 28	13	Clay kankar	
5.	28 - 36	8	Fine to Medium sand	Good
6.	36 - 44	8	Clay kankar	
7.	44 - 64*	20	Medium sand	Good
8.	64 - 68	4	Clay kankar	
9.	68 - 74*	6	Fine to Medium sand	Good
10.	74 - 82	8	Clay kankar	
11.	82 - 94*	12	Medium sand & kankar	Good
12.	94 - 97	3	Clay kankar	
13.	97 - 106*	9	Medium sand	Good
14.	106 - 120	14	Clay kankar	
15.	120 - 125*	5	Fine to Medium sand	Good
16.	125 - 130	5	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 Good.
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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Rho a
 N16 (SN)
 N64(LN)
 LAT

logging v/ Patai
 block: Sindhouli distt
 sahajhanpur alok.
 LOGGIR/GUP
 27 Feb 2023
 16:08
 ullarsh gupta
 (avindi)

⊞
 SP (m V)

