



GROUND WATER DEPARTMENT
GOVERNMENT OF UTTAR PRADESH
Lucknow-226002



GEOPHYSICAL BOREHOLE-LOGGING REPORT

- 1.Date of Logging:** 11/06/2023
2.Village: Bhabini Saida
3.Location: Shiva Temple
4. Block: Risiya
5.District: Bahraich
6.Latitude & Longitude: 27.6822 & 81.5547.
7.Drilling depth: 220m bgl
8.Logging depth: 220m bgl
9.Logging Company: UP Ground Water Department
10.Bore hole drilled by: Vishwanath Projects Ltd.
11.Recorded Geophysical log data: SP,Natural gamma & Resistivity (16 N & 64 N,FL,Lateral).
12.(i)Resistivity of Mud (Rm): 18.30 ohm-m. **(ii)Resistivity of fresh water(Rf):** 18.30 ohm-m.
13.On the basis of interpretation of recorded log data in open hole detail report is made is as follows:-

- (a)**Acquifer:** The depth zones with high resistivity and relatively low Natural Gamma radioactivity values are referred as Aquifer Zones.
(b)**Clay:** The depth zones with less resistivity and relatively high Natural Gamma radioactivity values are referred as Clay zones.

Based on the downhole Geophysical Parameters following information(Granular zones) deciphered:-

S.No	Depth Range (m bgl)	Thickness (meter)	Lithology	Acquifer Recommendation	Remark (Quality of aquifer water)
1.	0-10	10	Top Soil		Good
2.	10-39	29	Medium to fine sand	Recommended	Good
3.	39-45	6	Sandy Clay		Good
4.	45-77	32	Medium to fine sand	Recommended	Good
5.	77-80	3	Sandy Clay		Good
6.	80-92	12	Medium to fine sand	Recommended	Good
7.	92-107	15	Clay		Good
8.	107-122	15	Medium to fine sand	Recommended	Good
9.	122-127	5	Fine sand	Recommended	Good
10.	127-132	5	Medium to fine sand	Recommended	Good
11.	132-137	5	Clay		Good
12.	137-220	83	Medium to fine sand	Recommended	Good

14.Note:-

- (i) All Zones are intermixed with kankar.
(ii) Zone 5,6 & 12 is intermixed with thin layers of kankar.
15.Quality of the formation water is good up to Logging depth.**Log Attached.**

Rajeev Kumar

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(Geophysicist)



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BHABINI SAIDA SAIDA

COMPANY LUCKNOW - GWD
 WELL BHABINI SAIDA
 WELL EXT SAIDA
 FIELD BAHRAICH
 COUNTY IND
 STATE UP
 COUNTRY IND
 API NO. 12345678199999999

COMPANY : LUCKNOW - GWD
 WELL : BHABINI SAIDA
 WELL EXT : SAIDA
 FIELD : BAHRAICH
 COUNTY : IND
 STATE : UP
 COUNTRY : IND
 API NO. : 12345678199999999
 UNIQ ID : 049-005-42968

SECTION: 5 TOWNSHIP: 53N RANGE: 73W
 LOCATION : GOVT COLLAGE
 LAT GPS UTM 27.6822
 LON GPS UTM 81.5547
 DISPLAY7_JL63w

PERMANENT DATUM	GL	Elevations:	Other Services:
DRL MEASURED FROM	GL	KB	M
LOG MEASURED FROM	GL	DF	M
ELEV. PERM. DATUM	M	GL	4227 M

DATE	TIME		
DEPTH DRILLER	960	M	
DEPTH LOGGER		M	
FIRST READING		M	
LAST READING		M	
BIT SIZE	8.75	CM	
CASING -- DRILLER	87	M	
CASING -- LOGGER		M	
CASING O.D.		CM	
CASING TYPE	SURFACE		
FLUID TYPE	MUD		
FLUID DENSITY		G/CC	
FLUID VISCOSITY			
FLUID PH			
MUD SOURCE	FLOW LINE		
RM @ MEAS TEMP	.179 @ 68.5 C		
RMC @ MEAS TEMP	@ C		
RMC @ MEAS TEMP	@ C		
CIRC STOPPED	0830		
RIG NUMBER			

RECORDED BY RAJEEV KUMAR
 WITNESSED BY GEOPHYSICIST
 REMARKS 1
 REMARKS 2 NENE, 743'P.NL, 661'FEEL
 REMARKS 3

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS









