

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTOLOGGING REPORT**

Ref No:-A-2276

Date:- 29-11-2023

NAME OF SITE

GRAM PANCHAYAT- Naum Tikanna Pukhta BLOCK- Dataganj DISTT- Badaun

NAME OF AGENCY

M/s PNC-SPML-JV
Badaun



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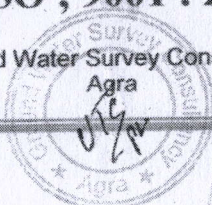
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

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ISO ; 9001 : 2015

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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- NAUM TIKANNA PUKHTA, BLOCK- DATAGANJ, DISTT- BADAUN
UNDER
JAL JIVAN MISSION

Introduction :

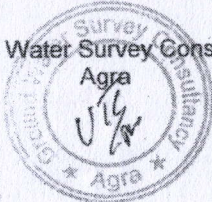
A Deep bore hole was drilled 130 mtrs. depth. and Logged depth 130 mtrs. at above site. Was drilled by M/S PNC-SPML-JV, Badaun.

On the request of M/S PNC-SPML-JV, Badaun. a Geophysical well Logging is conduct at above bore hole using IGIS Well Logger on 29.Nov.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 - 10	5	Clay kankar	
3.	10 - 35	25	Medium sand	Medium
4.	35 - 43	8	Sand & kankar	
5.	43 - 48*	5	Medium sand	Medium
6.	48 - 53	5	Clay kankar	
7.	53 - 60*	7	Medium sand	Medium
8.	60 - 65	5	Clay kankar	
9.	65 - 74*	9	Medium sand	Medium
10.	74 - 77	3	Clay kankar	
11.	77 - 88*	11	Medium sand	Medium
12.	88 - 103	15	Clay kankar	
13.	103 - 111*	8	Medium sand	Medium
14.	111 - 130	19	Clay kankar	

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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 Medium.
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.

Geologist

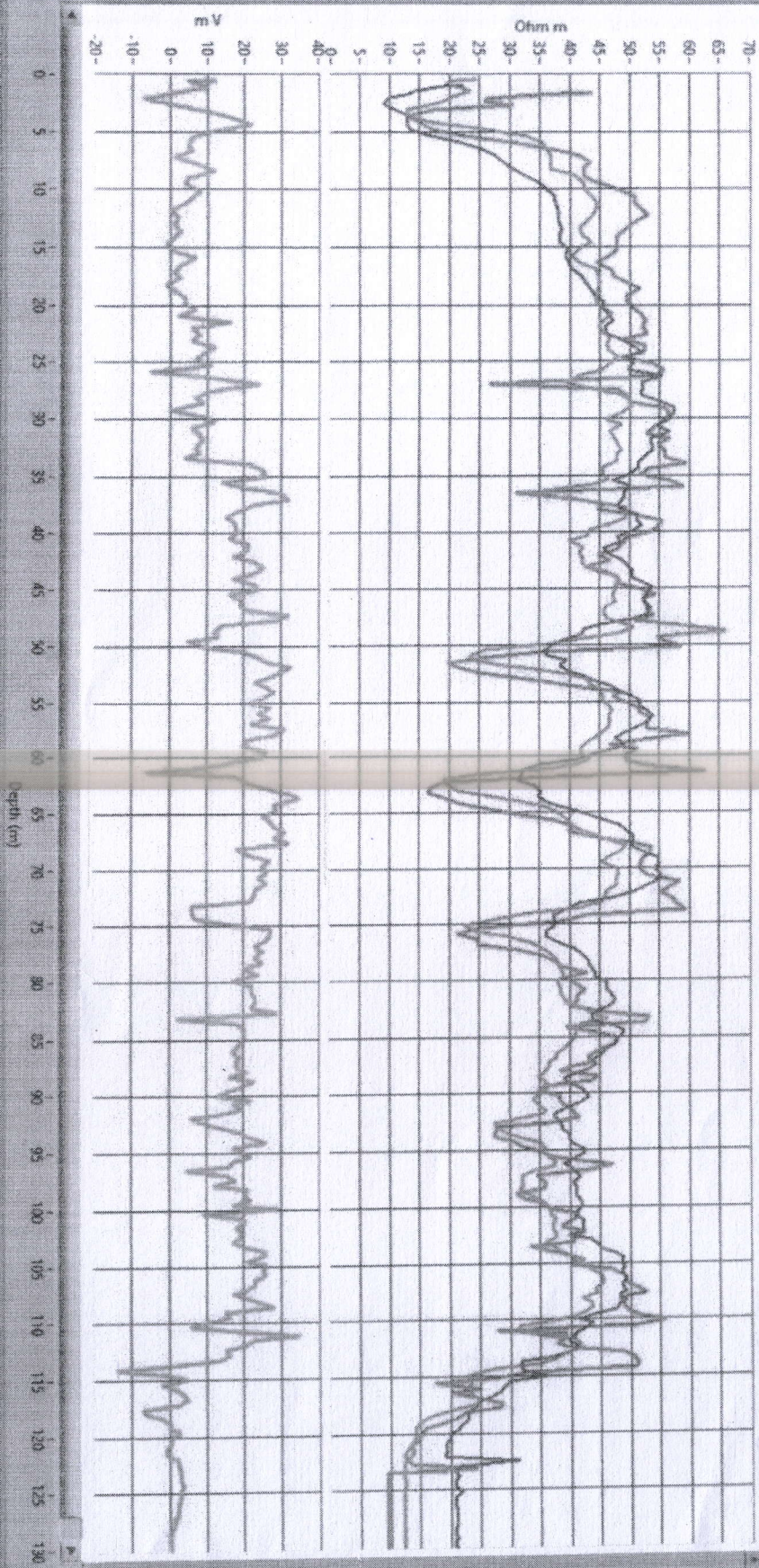


Rho ρ
 M16 (SN)
 M64(LN)
 LAT
 Logging Details
 Logging of Natural Terrain
 Aquatic Insect Resegreti Strat
 Station
 OF COORDINATE
 at New 2023
 No 15
 Unsurah Sijaya (40)

Logger Site No:
 IGS/S/O1/22-23

Logger Model:
 DMPL-2
 Logger Owned by:
 GROUND WATER
 SURVEY
 CONSULTANCY
 AGRA, UP, INDIA

SP (m V)



GP NAME- Naum Tikana Pukhta
 BOQ OF BLOCK- Dattaganj
 DISTRICT- Badakh
 DRILLING START DATE- 24/11/2023
 DRILLING END DATE- 29/11/2023
 LOWERING DATE AND DEPTH 30/11/2023 116 mtr
 LOGGING DATE AND DEPTH :- 29/11/2023 130 mtr
 DRILLING DEPTH :- 600X450 mmφ 130 mtr
 ASSEMBLY DIA :- 300X150 mmφ 116 mtr
 300 mm φ (HP):- 48.00 mtr
 150 mm φ (PP):- 45.00 mtr
 150 mm φ (SP):- 23.00 mtr
 TUBE WELL DISCHARGE :- 780 LPM
 FORMATION :- Sand & clay

DATE	DEPTH (M)		SAMPLE TIME		Sample No.	Lithology
	FROM	TO	START	CLOSE		
24/11/23	0	3	8:35 AM		1	Surface soil
	3	6	9:40 AM		2	surface soil
	6	9	10:50 AM		3	clay kankar
	9	12	11:55 AM		4	Medium Sand
	12	15	01:05 PM		5	Medium Sand
	15	18	02:20 PM		6	medium Sand
	18	21	03:40 PM		7	medium Sand
	21	24	06:00 PM	06:30 PM	8	medium Sand
25/11/23	24	27	9:10 AM		9	medium Sand
	27	30	9:55 AM		10	medium Sand
	30	33	11:20 AM		11	Medium Sand
	33	36	12:40 PM		12	Medium Sand
	36	39	02:10 PM		13	Sand & kankar
	39	42	03:20 PM		14	Sand & kankar
	42	45	05:00 PM		15	Medium Sand
	45	48	06:10 PM	06:35 PM	16	Medium Sand
26/11/23	48	51	08:00 AM		17	clay kankar
	51	54	09:20 AM		18	clay kankar
	54	57	10:30 AM		19	Medium Sand
	57	60	12:00 PM		20	Medium Sand
	60	63	01:30 PM		21	clay kankar
	63	66	3:10 PM		22	clay kankar
	66	69	05:00 PM		23	Medium Sand
	69	72	06:20 PM	07:00 PM	24	Medium Sand
27/11/23	72	75	9:10 PM		25	Medium Sand
	75	78	10:30 PM		26	clay kankar
	78	81	11:50 PM		27	Medium Sand