GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-A- 90

Date:- 05-04-2023

NAME OF SITE

GRAM PANCHAYAT- Kanspur Saprreda BLOCK- Dataganj DISTT- Badaun

NAME OF AGENCY

M/s PNC-SPML-JV
Badaun

GROUND WATER SURVEY CONSULTANCY
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.
112 A-Shree Nagar Colony, Firozabad Road, Agra- 282006
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ISO - 9001 : 2015

Ground Water Survey Consultancy Agra

REPORT ON GEOPHYSICAL WELL LOGGING
AT

GRAM PANCHAYAT- KANSPUR SAPRREDA, 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 in the above bore hole using IGIS Well Logger on 05.April.2023.

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major equifer 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 - 9	4	Dry sand	
3.	9 - 25	16	Clay kankar	
4.	25 - 37	12	Medium sand	Medium
5.	37 - 44	7	Clay kankar	
6.	44 - 49*	5	Fine to Medium sand	Medium
7.	49 - 53	4	Clay kankar	
8.	53 - 71*	18	Medium sand	Medium
9.	71 - 85	14	Clay kankar	
10.	85 - 93*	8	Fine to Medium sand	Medium
11.	93 - 104	11	Clay kankar	
12.	104 - 113*	9	Medium sand	Medium
13.	113 - 122	9	Clay kankar	
14.	122 - 127*	5	Medium sand	Medium
15.	127 - 130	3	Clay kankar	

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Conclusions and Recommendations :-

1. The Lithology broadly tallies with that of drill cutting starta 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.

Geophysicist

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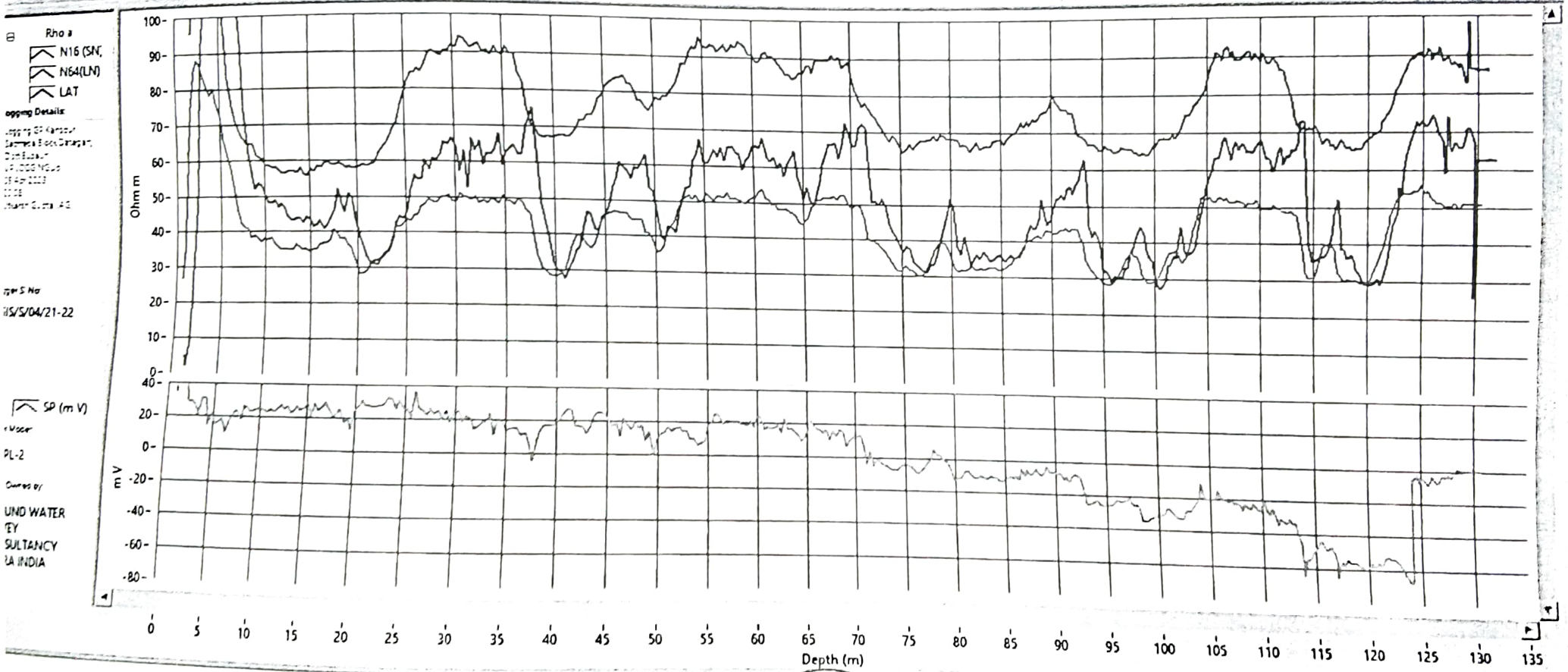
Rho a
N16 (SN
N64(LN)
LAT
SP (m V)
Ohm m
m V
Depth (m)
UND WATER
SULTANCY
A INDIA

27 February

WK-09 058-307 Sat

Kanpur & Saharda G.P. w/s Scheme Under JJM Prog.
Block - Dataganj, Distt Budaun

Dt - 06/04/23
Discharge - 66 LPM
40m Head 12.5 H.P.

D - 130m (6m x 450) mm ϕ
L - 120m (20m x 150) mm ϕ

Strata As for Logger :-
53-71m - Mediam Sand
85-93m - fine to Med Sand
104-113m - Medium Sand

300 mm ϕ (H.P)	150 mm ϕ (P.P)	150 mm ϕ (S.P)
6.00	6.00	6.00
6.00	6.00	6.00
6.00	6.00	
6.00	6.00	4.00
6.00	6.00	6.00
6.00	6.00	22.00m
6.00	6.00	
48.00m	2.00	
	6.00	
	48.00m	

300 mm ϕ (H.P) = 48.00m
150 mm ϕ (P.P) = 48.00m
150 mm ϕ (S.P) = 22.00m
(300 x 150) mm ϕ Red = 0.15m
Total = 118.15m

AGL = 0.50m
BGL = 117.65m
Total = 118.15m

K - 300 mm ϕ

6.00		0.50m
6.00		
6.00		
6.00		
6.00		
6.00		
6.00		
6.00		
48.00m		
	0.15m	47.50m
		47.65m
6.00	13	
4.00	12	(C.G) 57.65m
6.00	11	
6.00	10	69.65m
6.00	9	(C.G)
6.00	8	
6.00	7	(C.G) 87.65m
4.00	6	
6.00	5	(C.G) 91.65m
6.00	4	
2.00	3	(C.G) 105.65m
6.00	2	111.65m
6.00	1	(C.G) 117.65m

K - 150 mm ϕ

FEBRUARY-21

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27

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AGRA
ESTD. 2010

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Ref No.......................   Date. 5.4.23

GEOPHYSICAL ELECTRICAL WELL LOGGING FIELD REPORT
DETAIL OF WATER BEARING ZONNES

Name Of Agency- PMC Infratech Pvt Ltd Budaun Sampeti Maga Rural...

Village - Kanspura Shahmado   Block- Dataganj

District- Budaun   Logging Depth- 130 mt

Drilling Depth- 130 mt   Water Level- 9 mt

S.No	Depth In Mtr.	Lithology	Expected Water Quality
1	0 - 5	Surface Soil	
2	5 - 9	Dry Sand	
3	9 - 25	Clay Kankar	
4	25 - 37	Medium Sand	Medium
5	37-44	Clay Kankar	
6	44-49	Fine to Med Sand	Medium
7	49- 53	Clay Kankar	
8	53-71*	Medium Sand	Medium
9	71- 85	Clay Kankar	
10	85-93*	Fine + Med Sand	Medium
11	93-104	Clay Kankar	
12	104-113*	Medium Sand	Medium
13	113-122	Clay Kankar	
14	122-127*	Medium Sand	Medium
15	127-130	Clay Kankar	
16			
17			
18			
19			
20			
21			
22			
23			

*Expected Water Bearing Zone

For Ground Water Survey Consultancy

(signature)
Geophysicist

Spesializations In

Electric Well Logging, Geophysical Survey, Resistivity Survey, Rainwater Harvesting, Construction of Recharge Well, Rectification of Tubewells, Ground Water Investigations.

Konspur & Sapsieda

Page No.

Date

Sub	Date	Depth From	Depth to	Sample time start	Sample time close	SAMPLE NO.	Lithology
1	2/4/23	0	3			1	Surface soil
2	2/4/23	3	6			2	Surface soil
3	2/4/23	6	9			3	Dry sand
4	2/4/23	9	12			4	Clay Kankar
5	2/4/23	12	15			5	Clay Kankar
6	2/4/23	15	18			6	Clay Kankar
7	2/4/23	18	21			7	Clay Kankar
8	2/4/23	21	24			8	Clay Kankar
9	3/4/23	24	27			9	Medium Sand
10	3/4/23	27	30			10	Medium Sand
11	3/4/23	30	33			11	Medium Sand
12	3-4-23	33	36			12	Medium Sand
13	3-4-23	36	39			13	Medium Sand
14	3-4-23	39	42			14	Clay Kankar
15	3-4-23	42	45			15	Clay Kankar
16	3-4-23	45	48			16	Find TO Medium Sand
17	3-4-23	48	51			17	Clay Kankar
18	3-4-23	51	54			18	Clay Kankar
19	4-4-23	54	57			19	Medium Sand
20	4-4-23	57	60			20	Medium Sand
21	4-4-23	60	63			21	Medium Sand
22	4-4-23	63	66			22	Medium Sand
23	4-4-23	66	69			23	Medium Sand
24	4-4-23	69	72			24	Medium Sand
25	4-4-23	72	75			25	Clay Kankar
26	4-4-23	75	78			26	Clay Kankar
27	4-4-23	78	81			27	Clay Kankar
28	4-4-23	81	84			28	Clay Kankar
29	4-4-23	84	87			29	Find TO Medium Sand
30	4-4-23	87	90			30	Find TO Medium Sand