

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL
ELECTROLOGGING REPORT

Ref No:-A- 89

Date:- 05-04-2023

NAME OF SITE

GRAM PANCHAYAT- Rohri

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
(M) : 9412260823, 9794625420, 9761163000, Email : gwsc_agra@yahoo.com

ISO : 9001 : 2015

Ground Water Survey Consultancy



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- ROHIRI, BLOCK- DATAGANJ, DISTT- BADAUN
UNDER
JAL JIVAN MISSION

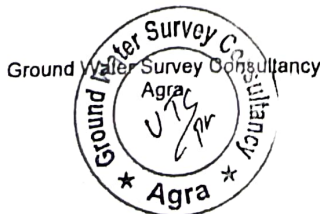
Introduction :

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 - 20	15	Fine sand	
3.	20 - 24	4	Clay kankar	
4.	24 - 31	7	Medium sand	Medium
5.	31 - 35	4	Clay kankar	
6.	35 - 51*	16	Medium sand	Medium
7.	51 - 55	4	Clay kankar	
8.	55 - 60*	5	Medium sand	Medium
9.	60 - 63	3	Clay kankar	
10.	63 - 72*	9	Medium sand	Medium
11.	72 - 79	7	Clay kankar	
12.	79 - 87*	8	Medium sand	Medium
13.	87 - 100	13	Clay kankar	
14.	100 - 125*	25	Medium sand	Medium
15.	125 - 130	5	Clay kankar	



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.



Ground Water Survey Consultancy

⊖ Rho a

MI6(SN)
NS4(M)
LAT

Logging Details

Log No: 101/S/04/21-22
Date: 21-04-2022
Time: 10:30 AM
Location: Agra, India

Logger's No:

IGIS/S/04/21-22

⊖

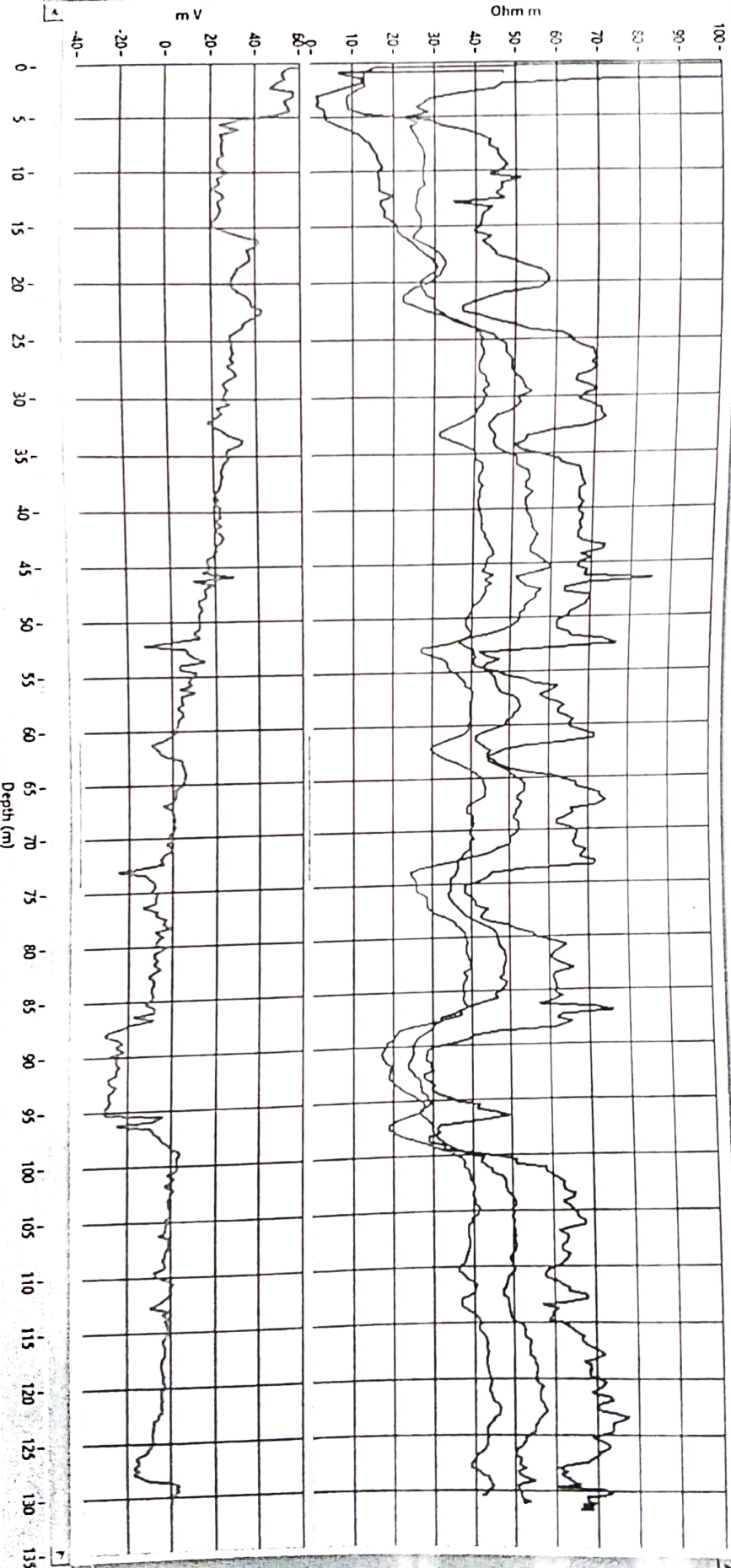
SP (m V)

Logger Name:

DMPL-2

Logger Owned by:

GROUND WATER
SURVEY
CONSULTANCY
- AGRA INDIA



Depth (m)

Ohm m

m V

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135



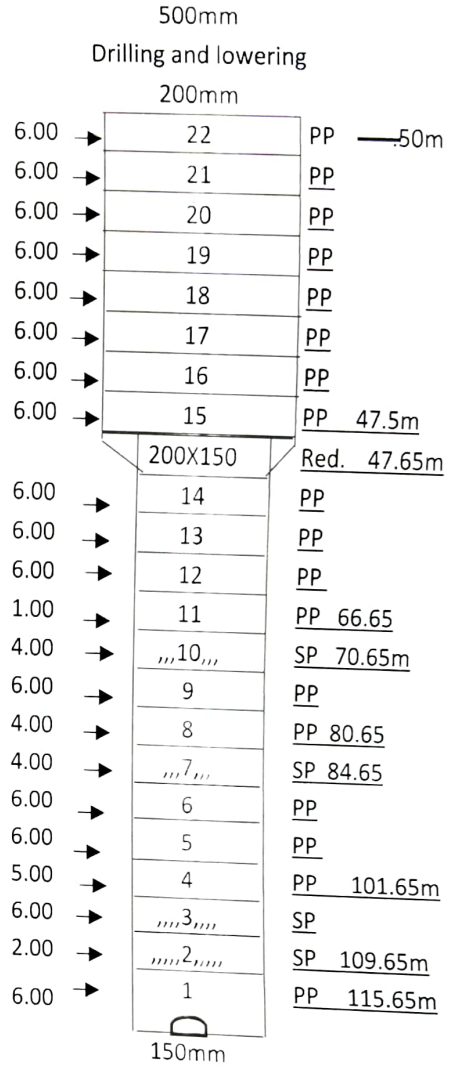
Jal Jeevan Mission
 GP - Rohri , Block - Dataganj , District - Badaun
 AGENCY : M/S PNC SPML JV AGRA
 Tubewell Assembly Chart



Discharge - 500 LPM

Date - 24-07-2023

S.No.	In Meter	STRATA
1	65 Mtr. - 72 Mtr.	Medium Sand
2	79 Mtr. - 86 Mtr.	Medium Sand
3	100 Mtr. - 112 Mtr.	Medium Sand



1	Reduce 200X150mm	0.15m
2	AGL	0.50m
3	BGL	115.65m
4	Total assembly lower	116.15m
5	200mm Plain MS Pipe	48m
6	150mm Plain MS Pipe	52m
7	150mm slotted Pipe	16m
8	500dia Drilling Depth	50m
9	450dia Drilling Depth	80m
10	Drilling Depth	130m
11	Drilling logged	130m



M/s BLG Construction Pvt. Ltd.
 TPIA

450mm
 JE AE EE
 (E&M) U P JAL NIGAM (RURAL) MORADABAD

Rohsi G.P. wss Under ISM Programme
Block-Dataganj Distt-Budaun

DT-24/07/23

D - 130m (500 x 450) mmφ

L - 120m (200 x 150) mmφ

Discharge - 500 LPM

34m Head 10HP

Strata As per Logger -

65 - 72m - Medium Sand

79 - 86m - Medium Sand

100 - 112m - Medium Sand

200mmφ (H.P.) 150mmφ (P.P.) 150mmφ (S.P.)

6.00	6.00	4.00
6.00	6.00	4.00
6.00	6.00	
6.00	1.00	6.00
6.00	6.00	2.00
1.00	4.00	
6.00	6.00	16.00m
6.00	6.00	
43.00m	5.00	
	6.00	

52.00

200mmφ (H.P.) = 48.00m

150mmφ (P.P.) = 52.00m

150mmφ (S.P.) = 16.00m

200x150mmφ Red = 0.15m

Total = 116.15m

A.B.L = 0.50m

B.G.L = 115.65m

Total = 116.15m

← 200mmφ →	
6.00	50m
6.00	
6.00	
6.00	
6.00	
6.00	
6.00	
6.00	
6.00	
6.00	
48.00m	
	47.50m
0.15m	47.65m
6.00	14
6.00	13
6.00	12
1.00	11 (Ch)
4.00	11.65m
6.00	9
4.00	8 (Ch)
4.00	11.65m
6.00	6
6.00	5
5.00	4 (Ch)
6.00	11.65m
2.00	11.25m
6.00	11.65m
	115.65m

← 150mmφ →

GP Name - Rohri

Sr. No.	Date	Depth		Sample Time		Sample No.	Lithology
		From	To	Start	Close		
1	21-7-23	0	3			1	Surface Soil
2	21-7-23	3	6			2	Surface Soil
3	21-7-23	6	9			3	Fine Sand
4	21-7-23	9	12			4	Fine Sand
5	21-7-23	12	15			5	Fine Sand
6	21-7-23	15	18			6	Fine Sand
7	21-7-23	18	21			7	Fine Sand
8	21-7-23	21	24			8	Clay kankar
9	21-7-23	24	27			9	Medium Sand
10	21-7-23	27	30			10	Medium Sand
11	21-7-23	30	33			11	Clay kankar
12	21-7-23	33	36			12	Clay kankar
13	21-7-23	36	39			13	Medium Sand
14	21-7-23	39	42			14	Medium Sand
15	22-7-23	42	45			15	Medium Sand
16	22-7-23	45	48			16	Medium Sand
17	22-7-23	48	51			17	Medium Sand
18	22-7-23	51	54			18	Clay kankar
19	22-7-23	54	57			19	Medium Sand
20	22-7-23	57	60			20	Medium Sand.
21	22-7-23	60	63			21	Clay kankar
22	22-7-23	63	66			22	Medium Sand
23	22-7-23	66	69			23	Medium Sand
24	22-7-23	69	72			24	Medium Sand
25	22-7-23	72	75			25	Clay kankar
26	22-7-23	75	78			26	Clay kankar
27	22-7-23	78	81			27	Medium Sand
28	22-7-23	81	84			28	Medium Sand
29	22-7-23	84	87			29	Medium Sand
30	23-7-23	87	90			30	Clay kankar

