

GROUND WATER SURVEY CONSULTANCY  
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL  
ELECTROLOGGING REPORT

Ref No:-A- 59

Date:- 03-04-2023

NAME OF SITE

GRAM PANCHAYAT- Diyori

BLOCK- Datagnaj

DISTT- Badaun

NAME OF AGENCY

M/s PNC-SPML-JV  
Badaun



GROUND WATER SURVEY CONSULTANCY

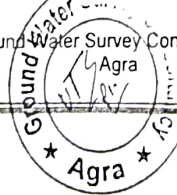
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

112 A-Shree Nagar Colony, Firozabad Road, Agra- 282006

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**ISO : 9001 : 2015**

Ground Water Survey Consultancy



# REPORT ON GEOPHYSICAL WELL LOGGING AT

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

## Introduction :

A Deep bore hole was drilled 135 mtrs. depth. and Logged depth 132 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 03.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 - 15	10	Clay kankar	
3.	15 - 20	5	Fine sand	
4.	20 - 26	6	Clay kankar	
5.	26 - 37	11	Medium sand	Good
6.	37 - 42	5	Clay kankar	
7.	42 - 69*	27	Medium sand	Good
8.	69 - 82	13	Clay kankar	
9.	82 - 92*	10	Medium sand	Good
10.	92 - 103	11	Clay kankar	
11.	103 - 112*	9	Medium sand	Good
12.	112 - 121	9	Clay kankar	
13.	121 - 132*	11	Medium sand	Good



**Conclusions and Recommendations :-**

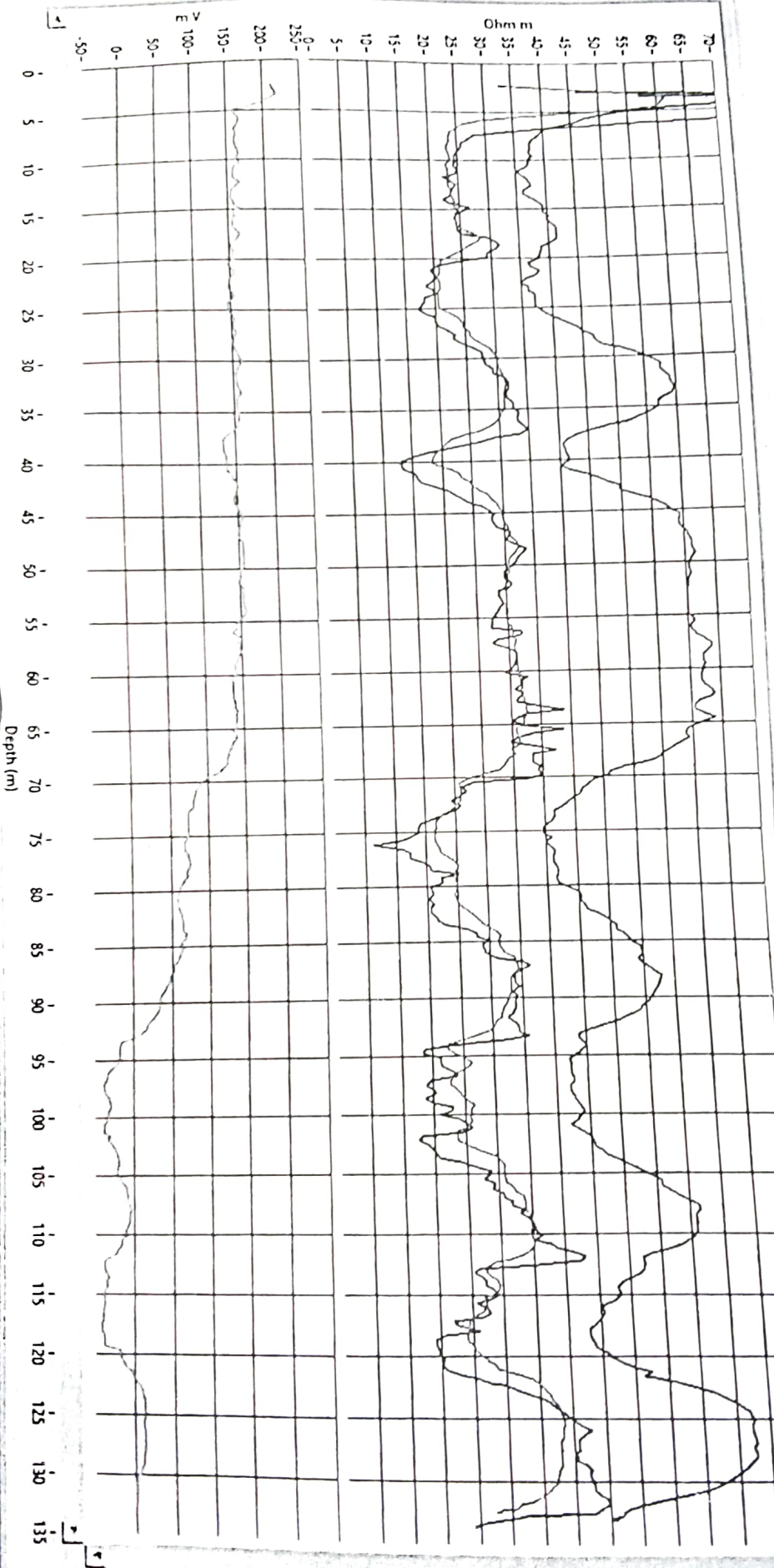
1. The Lithology broadly tallies with that of drill cutting starta chart.
2. The zones marked with asterisk (\*) appear to be aquifer zones for possible development of tubewell.
3. The Quality of water is expected Good.
4. It is recommended to have a chemical and bacteriological analysis of the water 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**

Sheet No. 1  
 MIS (S) 1  
 MS (L) 1  
 LAT

Page No. 1  
 Date: 03/21/22

SP (m V)  
 Degree Used  
 DAAPI-2  
 GROUND WATER  
 SURVEY  
 CONSULTANCY  
 - AGRA, INDIA



Dijorokl w/s Schemu' Under JIM Programme:  
Block-Dataganj Dist. Bubaun

Dt-04/14/23

D = 130m (500x450) mmφ

Discharge = 49.01m

L = 120m (200x150) mmφ

37m Head 10HP

Strata: Ar. Per Logges -

	42-69m + Medium Sand			K-200mmφ		
12	82-92m - Medium Sand			6.00		50m
	103-112m - Medium Sand			6.00		
1				6.00		
	200 mmφ (HP) 150 mmφ (FP) 150 mmφ (SP)			6.00		
	6.00	6.00	6.00	6.00		
2	6.00	6.00	6.00	6.00		
	6.00	6.00	6.00	4.8.00m		
3	6.00	6.00	6.00			47.50m
	6.00	4.00	18.00m	0.15m		47.65m
	6.00	6.00		6.00	13	
4	6.00	6.00		6.00	12	
	4.8.00m	3.00		2.00	11	(C-6)
5		5.1.00m		6.00	11	61.65m
				6.00	9	67.65m
6				6.00	8	
	200 mmφ (HP) = 4.8.00m			4.00	7	(C-6) 83.65m
	150 mmφ (FP) = 5.1.00m			6.00	6	89.65m
	150 mmφ (SP) = 1.8.00m			6.00	5	
	(200x150) mmφ Red = 0.15m			6.00	4	
	Total = 117.15m			3.00	3	(C-6) 104.65m
	A h-t = 0.50m			6.00	2	110.65m
	B h-t = 1.16.65m			6.00	1	(C-6) 116.65m
	Total = 117.15m					

FEBRUARY-21							S	S	M	T	W	T	F	S	S	M	T	W	T	F	S						
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28				
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	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	28



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**GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS**

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Ref No..... Date 24.23.....

## GEOPHYSICAL ELECTRICAL WELL LOGGING FIELD REPORT

### DETAIL OF WATER BEARING ZONES

Name Of Agency- PNC Badoun Ganpat Page Builders  
 Village- Deoria Block- Dataganj  
 District- Badoun Logging Depth- 137.2 mt  
 Drilling Depth- 135 mt Water Level- 18 mt

S.No	Depth In Mtr.	Lithology	Expected Water Quality
1	0 - 5	Surface Soil	
2	5 - 15	clay kankar	
3	15 - 20	fine sand	
4	20 - 26	clay kankar	
5	26 - 37	Medium Sand	Good
6	37 - 47	clay kankar	
7	47 - 69	Medium Sand	Good
8	69 - 82	clay kankar	
9	82 - 92	Medium Sand	Good
10	92 - 103	clay kankar	
11	103 - 112	Medium Sand	Good
12	112 - 121	clay kankar	
13	121 - 132	Medium Sand	Good
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			



Expected Water Bearing Zone

For Ground Water Survey Consultancy

*Som*  
Geophysicist

### Specializations In

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

N.	Date	Depth		Sample		Sample N. Diff.	Layer
		From	to	start	Done		
1	01-4-23	0	3			1	surface soil
2	01-4-23	3	6			2	loose soil
3	01-4-23	6	9			3	clay kankar
4	01-4-23	9	12			4	clay kankar
5	01-4-23	12	15			5	clay kankar
6	01-4-23	15	18			6	fine sand
7	01-4-23	18	21			7	fine sand
8	01-4-23	21	24			8	clay kankar
9	01-4-23	24	27			9	clay kankar
10	01-4-23	27	30			10	medium sand
11	01-4-23	30	33			11	medium sand
12	01-4-23	33	36			12	medium sand
13	02-4-23	36	39			13	clay kankar
14	02-4-23	39	42			14	clay kankar
15	02-4-23	42	45			15	clay kankar
16	02-4-23	45	48			16	clay kankar
17	02-4-23	48	51			17	medium sand
18	02-4-23	51	54			18	medium sand
19	02-4-23	54	57			19	medium sand
20	02-4-23	57	60			20	medium sand
21	02-4-23	60	63			21	medium sand
22	02-4-23	63	66			22	medium sand
23	02-4-23	66	69			23	medium sand
24	02-4-23	69	72			24	clay kankar
25	02-4-23	72	75			25	clay kankar
26	02-4-23	75	78			26	clay kankar
27	02-4-23	78	81			27	clay kankar
28	02-4-23	81	84			28	medium sand
29	02-4-23	84	87			29	medium sand
30	02-4-23	87	90			30	medium sand