

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL
ELECTOLOGGING REPORT

Ref No:-B- 223

Date:- 25-04-2023

NAME OF SITE

GRAM PANCHAYAT- Bhirampur Bhadeli BLOCK- Usawa DISTT- Badaun

NAME OF AGENCY

M/s PNC-SPML-JV
Badaun



GROUND WATER SURVEY CONSULTANCY
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.
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ISO : 9001 : 2015

Ground Water Survey Consultancy



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BHIRAMPUR BHADELI, BLOCK- USAWA, DISTT- BADAUN
UNDER
JAL JIVAN MISSION

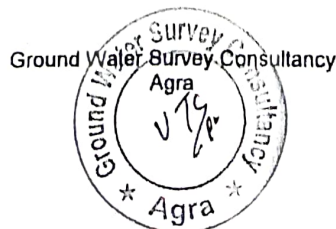
Introduction :

A Deep bore hole was drilled 140 mtrs. depth. and Logged depth 140 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 25.April.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 - 16	11	Dry sand	
3.	16 - 24	8	Clay kankar	
4.	24 - 42	18	Fine to Medium sand	Good
5.	42 - 61	19	Clay kankar	
6.	61 - 71*	10	Fine to Medium sand	Good
7.	71 - 77	6	Clay kankar	
8.	77 - 81*	4	Fine to Medium sand	Good
9.	81 - 96	15	Clay kankar	
10.	96 - 101*	5	Fine to Medium sand	Good
11.	101 - 107	6	Clay kankar	
12.	107 - 115*	8	Medium sand	Good
13.	115 - 118	3	Clay kankar	
14.	118 - 125*	7	Fine to Medium sand	Good
15.	125 - 127	2	Clay kankar	
16.	127 - 130	3	Fine sand	Good
17.	130 - 140	10	Clay kankar	



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 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

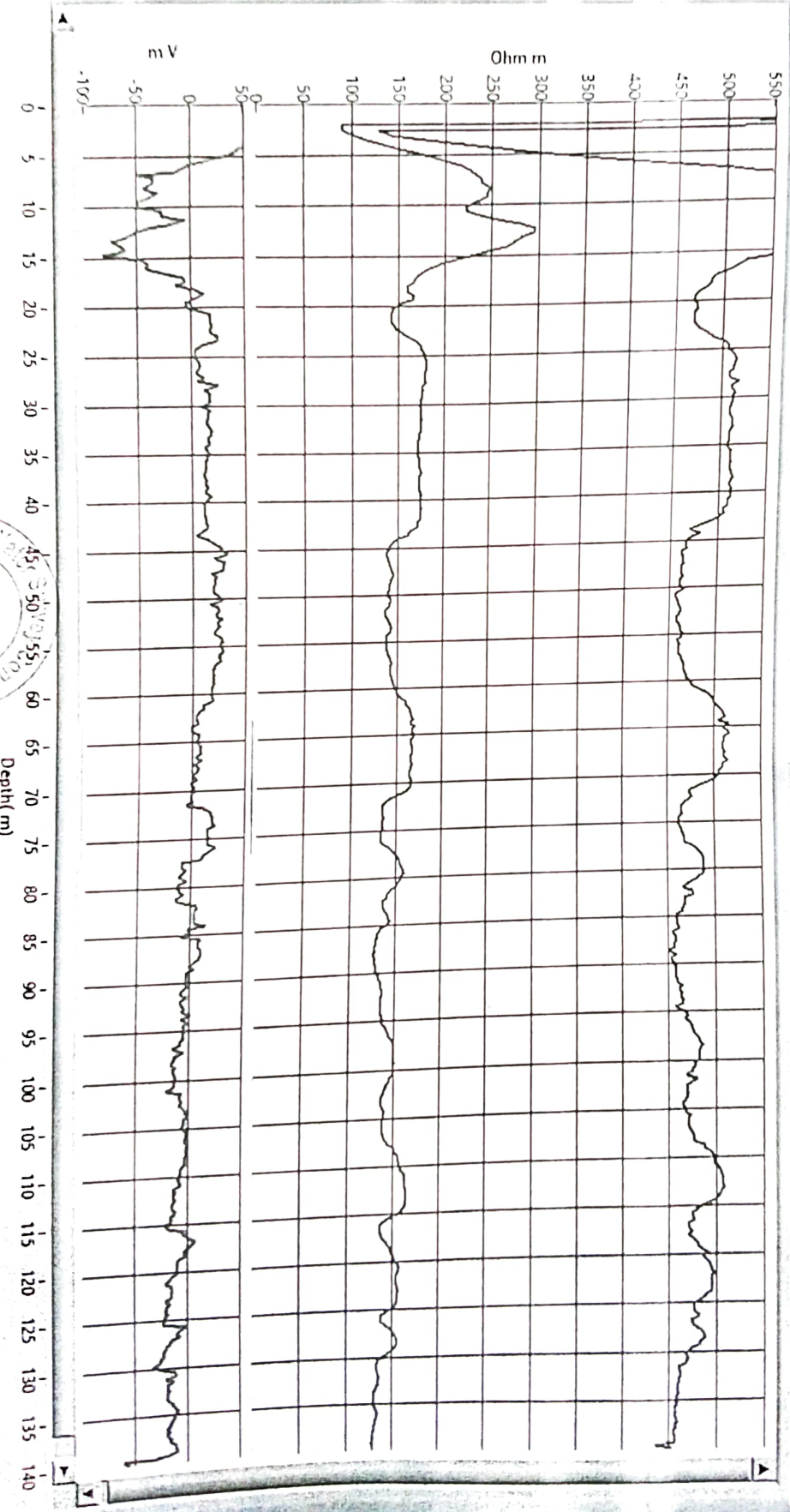


Ground Water Survey Consultancy

Rho a
 N 16 S (N)
 N 6 S (UN)
 LAT

LOG NO. 1
 STATION
 EMPLOYER
 PROJECT
 DATE
 TIME
 OPERATOR
 SURVEYOR
 FIELD ASSISTANT

SP





Jal Jeevan Mission
 GP - Birampur Bhadeli Block - Usawan District - Badaun
 AGENCY : M/S PNC SPML JV AGRA
 Tubewell Assembly Chart

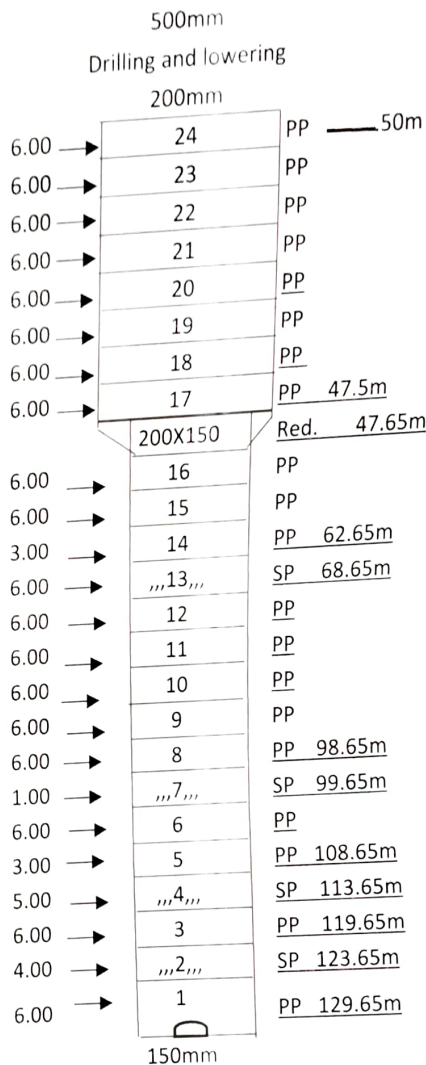


Date - 26-4-2023

Discharge - 370 LPM

S.No.	In Meter
1	61 Mtr. - 71 Mtr.
2	77Mtr. - 81 Mtr.
3	96 Mtr. - 101 Mtr.
4	107 Mtr. - 115 Mtr.
5	118 Mtr. - 125 Mtr.

STRATA
 Fine & Medium sand
 Fine & Medium sand
 Fine & Medium sand
 Medium Sand
 Fine & Medium sand



1	Reduce 200X150mm	0.15m
2	AGL	0.50m
3	BGL	129.65m
4	Total assembly lower	130.15m
5	200mm Plain MS Pipe	48m
6	150mm Plain MS Pipe	66m
7	150mm slotted Pipe	16m
8	500dia Drilling Depth	50m
9	450dia Drilling Depth	90m
10	Drilling Depth	140m
11	Drilling logged	140m



M/s BLC Construction Pvt.
 Ltd.
 TPIA

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

13 April

WK-10

103-202

100

B. Sampur

Bhadeli G.P. w/s Scheme Under JJM Prog.

DL-26/04/23

Discharge-370LPH

43.17 Head 7.5HP

D-140x500x450 mmφ

L-130m (201x150) mmφ

Strata As Per Loggs :-

- 61-72m - fine to med. Sand
- 77-81m - fine to med. Sand
- 96-101m - fine to med. Sand
- 107-115m - medium Sand
- 118-125m - fine to med. Sand

200mmφ	6.00	16	62.65m
150mmφ	6.00	15	68.65m
150mmφ	3.00	14	68.65m
200mmφ	6.00	12	74.65m
200mmφ	6.00	11	80.65m
200mmφ	6.00	10	86.65m
200mmφ	6.00	9	92.65m
200mmφ	6.00	8	98.65m
200mmφ	1.00	7	99.65m
200mmφ	6.00	6	105.65m
150mmφ	3.00	5	108.65m
150mmφ	5.00	4	113.65m
200mmφ	6.00	3	119.65m
200mmφ	6.00	2	125.65m
200mmφ	6.00	1	129.65m

200mmφ (H.P.)	150mmφ (P.P.)	150mmφ (S.P.)
6.00	6.00	6.00
6.00	3.00	1.00
6.00	2.00	5.00
6.00	6.00	4.00
6.00	6.00	16.00m
6.00	3.00	
4.800m	6.00	
	66.00m	

200mmφ (H.P.) = 48.00m
 150mmφ (P.P.) = 51.60m
 150mmφ (S.P.) = 16.00m
 (200x150)mmφ Red = 0.15m
 Total = 130.15m

APRIL-21	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	29

Actual = 129.65
 B.O.L = 129.65
 Total = 130.15m

[Signature]

GP Name - Birampur Bhadeli

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

GP Name - Birampur Bhadeli

Sr. No.	Date	Depth		Sample Time		Sample No.	Lithology
		From	To	Start	Close		
31	25-4-23	90	93			31	Clay kankar
32	25-4-23	93	96			32	Clay kankar
33	25-4-23	96	99			33	Clay kankar
34	25-4-23	99	102			34	Fine to Medium Sand.
35	25-4-23	102	105			35	Clay kankar
36	25-4-23	105	108			36	Clay kankar
37	25-4-23	108	111			37	Medium Sand
38	25-4-23	111	114			38	Medium Sand
39	25-4-23	114	117			39	Clay kankar
40	25-4-23	117	120			40	Fine to Medium Sand
41	25-4-23	120	123			41	Fine to Medium Sand
42	25-4-23	123	126			42	Clay kankar
43	25-4-23	126	129			43	Fine Sand
44	25-4-23	129	132			44	Clay kankar
45	25-4-23	132	135			45	Clay kankar
46	25-4-23	135	138			46	Clay kankar
47	25-4-23	138	141			47	Clay kankar.