

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL
ELECTROLOGGING REPORT

Ref No:-B-1953

Date:- 07-10-2023

NAME OF SITE

GRAM PANCHAYAT- Samaspur Malik Fatta
DISTT- Badaun

BLOCK- Dahagawan

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
Agra

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- SAMASPUR MALIK FATTA, BLOCK- DAHAGAWAN,
DISTT- BADAUN
UNDER
JAL JIVAN MISSION

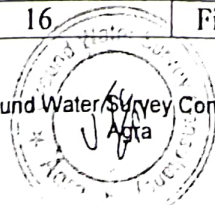
Introduction :

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 07.Oct.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 - 15	10	Dry sand	
3.	15 - 20	5	Clay kankar	
4.	20 - 30	10	Fine to Medium sand	
5.	30 - 35	5	Clay kankar	
6.	35 - 38	3	Medium sand	Medium
7.	38 - 43	5	Clay kankar	
8.	43 - 46	3	Fine sand	Medium
9.	46 - 59	13	Clay kankar	
10.	59 - 66*	7	Medium sand	Medium
11.	66 - 70	4	Clay kankar	
12.	70 - 83*	13	Medium sand	Medium
13.	83 - 90	7	Clay kankar	
14.	90 - 97*	7	Medium sand	Medium
15.	97 - 115	18	Clay kankar	
16.	115 - 120*	5	Fine to Medium sand	Medium
17.	120 - 124	4	Clay kankar	
18.	124 - 140*	16	Fine to Med sand & kan	Medium



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 tube well.
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



Ground Water Survey Consultancy

2.000
1.500
1.000
0.500

Depth (m)

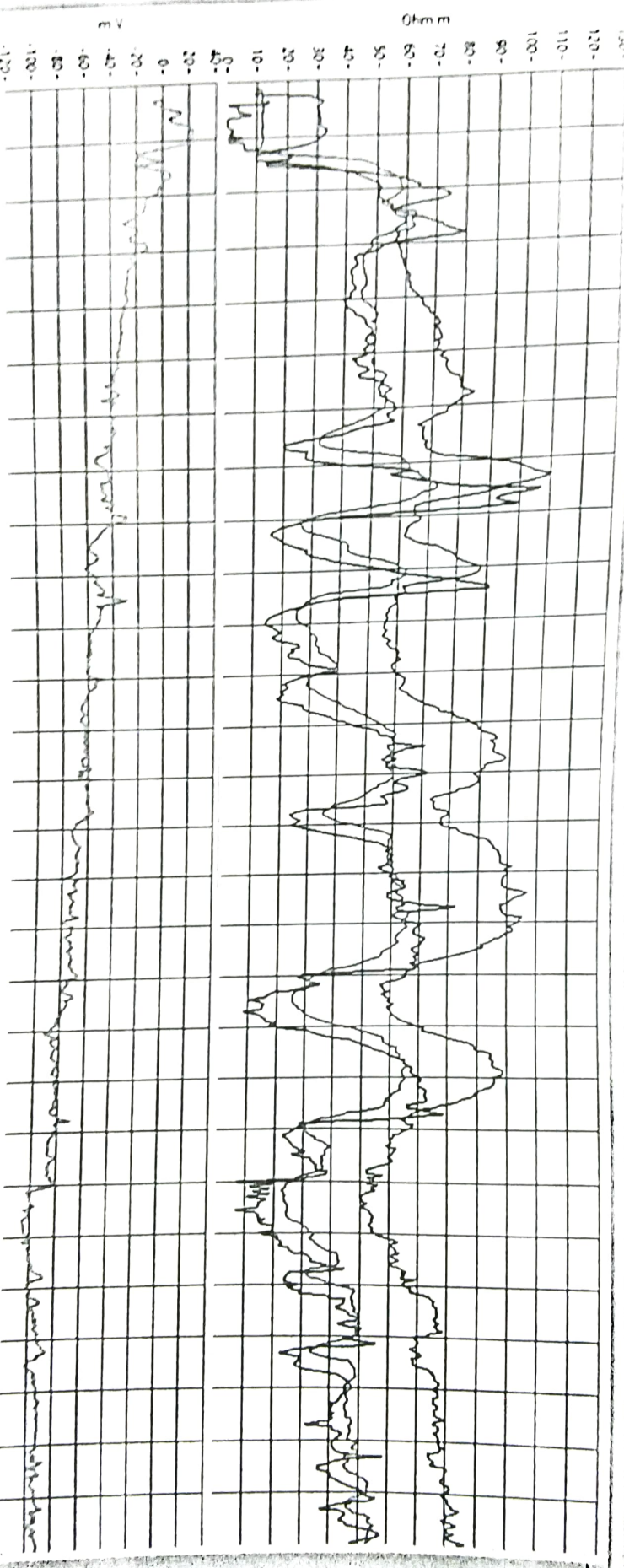
2000 Ohm m
1000 Ohm m
500 Ohm m

2.000
1.500
1.000
0.500

Depth (m)

2000 Ohm m
1000 Ohm m
500 Ohm m

GROUND WATER
SALINITY
CONDUCTIVITY
APPROX. 2004



Depth (m)

140



Jal Jeevan Mission
 GP -Shampur Malik Fatta , Block -Dahgavan District - Budaun
 AGENCY : M/S PNC SPML JV AGRA
 Tubewell Assembly Chart

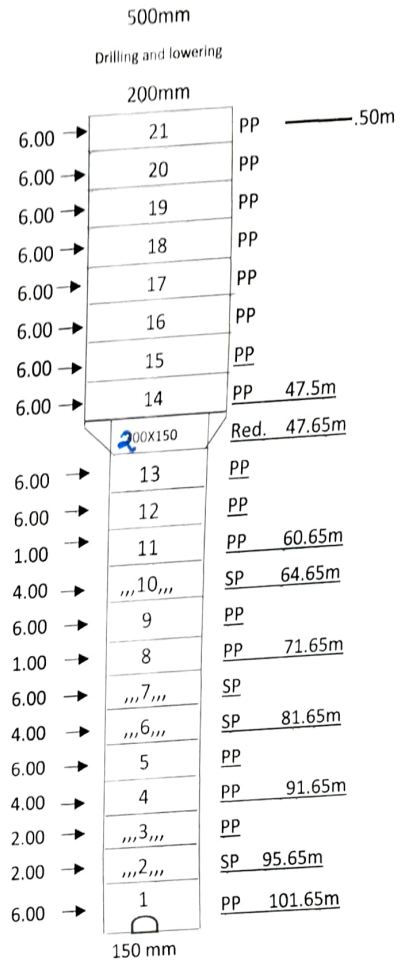


Date -08-10-2023

Discharge - 670 LPM

S.No.	In Meter
1	59 Mtr. -66 Mtr.
2	70 Mtr. - 83 Mtr.
3	90 Mtr. - 97 Mtr.
4	115 Mtr. - 120 Mtr.

STRATA
 Medium Sand
 Medium Sand
 Medium Sand
 Fine To Medium Sand



1	Reduce 300X150mm	0.15m
2	AGL	0.50m
3	BGL	101.65m
4	Total assembly lower	102.15m
5	200 mm Plain MS Pipe	48m
6	150 mm Plain MS Pipe	36m
7	150 mm slotted Pipe	18m
8	500 dia Drilling Depth	50m
9	450 dia Drilling Depth	90m
10	Drilling Depth	140m
11	Drilling logged	140m

450mm



M/s BLG Construction Pvt. Ltd.
 TPIA

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

Shamepur Malik Fatta B.P wss Under JIM Programme
Block - Dahgan Distt - Budawn

Dt - 08/10/2023

Discharge - 670 LPM

43m Head 15 H.P

D - 130m (500x450) mmφ

L - 120m (200x150) mmφ

Stata As Per Logges -

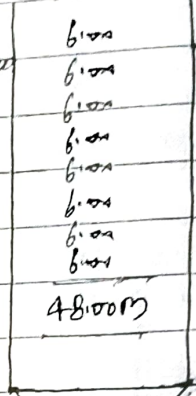
59-66m - Medium Sand

70-83m - Medium Sand

90-97m - Medium Sand

115-120m - fine to Med Sand

← 200 mmφ →



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

6.00 6.00 4.00

6.00 6.00 6.00

6.00 6.00 4.00

6.00 6.00 2.00

6.00 4.00 2.00

6.00 6.00 18.00m

48.00m . 36.00m

200mmφ (H.P) = 48.00m

150mmφ (P.P) = 36.00m

150mmφ (S.P) = 18.00m

(200x150) mmφ Red: 0.15m

Total = 102.15m

A.B.L. = 0.50m

B.G.L. = 101.65m

Total = 102.15m

0.15m

13

12

11 (Ch)

10

9

8 (Ch)

7

6

5

4 (Ch)

3

2

1 (Ch)

0

0

0

0

0

0

0

0

0

0

0

0

47.50m

47.65m

60.65m

64.65m

71.65m

81.65m

91.65m

95.65m

101.65m

← 150mmφ →

GP Name - Shamspur Malik Fatta block - Dahganaw.

Sr No.	Date	Depth		Sample Time		Sample No.	Lithology
		From	To	Start	Close		
1	6-10-23	0	3			1	Surface soil
2	"	3	6			2	Surface soil
3	"	6	9			3	Dry sand
4	"	9	12			4	Dry sand
5	"	12	15			5	Dry sand
6	"	15	18			6	Clay kankar
7	"	18	21			7	Clay kankar
8	"	21	24			8	fine to med. sand
9	"	24	27			9	fine to med. sand
10	"	27	30			10	fine to med. sand
11	"	30	33			11	Clay kankar
12	"	33	36			12	Clay kankar
13	"	36	39			13	Medium sand
14	"	39	42			14	Clay kankar
15	"	42	45			15	fine sand
16	8-10-2023	45	48			16	Clay kankar
17	"	48	51			17	Clay kankar
18	"	51	54			18	Clay kankar
19	"	54	57			19	Clay kankar
20	"	57	60			20	Clay kankar
21	"	60	63			21	Medium sand
22	"	63	66			22	Medium sand
23	"	66	69			23	Clay kankar
24	"	69	72			24	Medium sand
25	"	72	75			25	Medium sand
26	"	75	78			26	Medium sand
27	"	78	81			27	Medium sand
28	"	81	84			28	Medium sand
29	"	84	87			29	Clay kankar
30	"	87	90			30	Clay kankar
31	"	90	93			31	Medium sand
32	"	93	96			32	Medium sand
33	7-10-23	96	99			33	Clay kankar
34	"	99	102			34	Clay kankar
35	"	102	105			35	Clay kankar
36	"	105	108			36	Clay kankar
37	"	108	111			37	Clay kankar
38	"	111	114			38	Clay kankar
39	"	114	117			39	fine to med. sand
40	"	117	120			40	fine to med. sand
41	"	120	123			41	Clay kankar
42	"	123	126			42	fine to med. sand
43	"	126	129			43	fine to med. sand
44	"	129	132			44	fine to med. sand
45	"	132	135			45	fine to med. sand
	"	135	138				fine to med. sand
	7-10-2023	138	140				fine to med. sand