

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- SURMA ZONE-IInd (GUBRAULA), BLOCK- PALIA,
DISTT-LAKHIMPUR KHIRI
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 175 mtrs. depth. and Logged depth 165 mtrs. at above site. Was drilled by M/s NCC, Lakhimpur Khiri.

On the request of M/s NCC, Lakhimpur Khiri. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 15.Feb.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:-

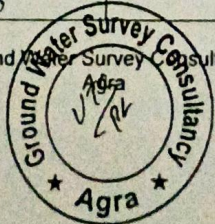
Mud Resistivity = 17.31 Ohms.

Drilling Water Resistivity = 18.52 Ohms.

Approx Water Level = 2 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 10	5	Clay	
3.	10 - 15	5	Fine sand	
4.	15 - 25	10	Clay kankar	
5.	25 - 34	9	Fine to Medium sand	
6.	34 - 42	8	Clay kankar	
7.	42 - 50	8	Medium sand & kankar	Medium
8.	50 - 60	10	Sand & kankar	
9.	60 - 65	5	Clay kankar	
10.	65 - 67*	2	Fine to Medium sand	Medium
11.	67 - 80	13	Clay kankar	
12.	80 - 95*	15	Medium sand	Medium
13.	95 - 115	5	Clay kankar	
14.	110 - 130*	20	Medium sand	Medium
15.	130 - 136	6	Clay kankar	
16.	136 - 145*	9	Medium sand	Medium
17.	145 - 156	11	Clay kankar	
18.	156 - 160*	4	Medium sand	Medium
19.	160 - 165	5	Clay kankar	

Ground Water Survey Consultancy

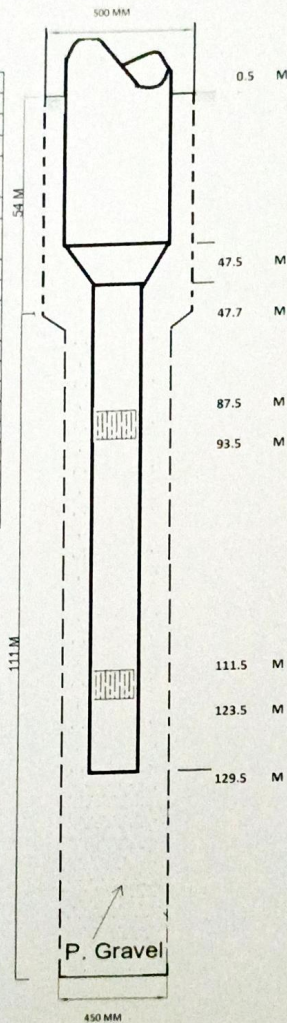


Completion Plan Of Tubewell

Name Of Work :- Construction of T. W. of G.P. SURMA, Block- PALIA, District, Lakhimpur Kheri.
 Name Of Program :- J. J. M-2
 Name of client :- S.W.S.M. & U.P. JAL NIGAM (R)
 Name Of Contractor :- M/S NCC Limited
 Name Of TPI :- Ceinsys Tech Limited
 Contract Agreement :- 64/ED/2020-21 Dt. 12.03.2021
 Cover Agreement :- 465/ED/Phase-2/2022-23/XII, Dt. 27.02.2023

Lowered Assembly Chart of T. W. of SURMA G.P W/S Scheme District :- Lakhimpur Kheri.

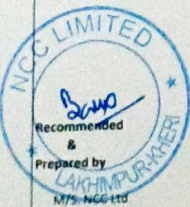
Strata		
0	-	5 M Surface Soil
5	-	10 M Clay
10	-	15 M Fine Sand
15	-	25 M Clay Kankar
25	-	34 M Fine to Medium Sand
34	-	42 M Clay Kankar
42	-	50 M Medium Sand & Kankar
50	-	60 M Sand & Kankar
60	-	65 M Clay kankar
65	-	67 M Fine to Medium Sand
67	-	80 M Clay Kankar
80	-	95 M Medium Sand
95	-	110 M Clay Kankar
110	-	130 M Medium Sand
130	-	136 M Clay Kankar
136	-	145 M Medium Sand
145	-	156 M Clay Kankar
156	-	160 M Medium Sand
160	-	165 M Clay Kankar



ABSTRACT		
1	Type of Rig Machine	DC/RC
2	Static Water level	
3	Required Discharge	460 LPM
4	Bore Size (MM)	500 X 450
5	Assembly Size (MM)	200 X 150
6	Drilling Starting Date	21-12-2022
7	Drilling Completion Date	25-12-2022
8	Total Depth Of Drilling	175 M
9	Logging Date	26-12-2022
10	Logging Depth	165 M

Logging Report			
Sl No	Depth (mbgl)	Thickness (m)	Remarks
1	0 - 5	5	(Good All)
2	5 - 10	5	
3	10 - 15	5	
4	15 - 25	10	
5	25 - 34	9	
6	34 - 42	8	
7	42 - 50	8	
8	50 - 60	10	
9	60 - 65	5	
10	65 - 67	2	
11	67 - 80	13	
12	80 - 95	15	
13	95 - 110	15	
14	110 - 130	20	
15	130 - 136	6	
16	136 - 145	9	
17	145 - 156	11	
18	156 - 160	4	
19	160 - 165	5	

11 Details of Lowered Assembly			
i)	200	MM Dia Housing Pipe	48.0 M
ii)	150	MM Dia M. S. Slotted pipe	18.0 M
iii)	150	MM Dia M. S. Plain pipe	63.8 M
iv)	200 X 150	MM Dia M S Reducer	0.2 M
		Total	130.00 Meter
		AGL	0.50 Meter
		BGL	129.50 Meter
12	Date of Lowering		27-12-2022



Verified by
M/S. Ceinsys Tech Ltd.

J.E
13th Division UP Jal Nigam (R)
Lucknow

Recommended by
A.E
13th Division UP Jal Nigam (R) Lucknow

Approved by
E.E
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