

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- HYDRABAD, BLOCK- KUMBHIGOLA
DISTT- LAKHIMPUR KHIRI
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 170 mtrs. depth. and Logged depth 168 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 16.May.2022.

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 = 21.42 Ohms.

Drilling Water Resistivity = 22.07 Ohms.

Approx Water Level = 9 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 27	22	Clay kankar	
3.	27 - 42	15	Medium Sand	Good
4.	42 - 50	8	Clay kankar	
5.	50 - 59*	9	Medium sand	Good
6.	59 - 65	6	Clay kankar	
7.	65 - 105*	40	Medium sand	Good
8.	105 - 112	7	Clay kankar	
9.	112 - 135*	23	Medium sand	Good
10.	135 - 147	12	Clay kankar	
11.	147 - 152*	5	Sand & kankar	Good
12.	152 - 157	5	Clay kankar	
13.	157 - 168*	11	Sand & kankar	Good

Selected zones verified as per logs, groundwater quality interpreted by firm as per their calibration.

Ground Water Survey Consultancy



ASSISTANT HYDROGEOLOGIST
YANTRIKS (RURAL)
U.P. JAL NIGAM (RURAL)

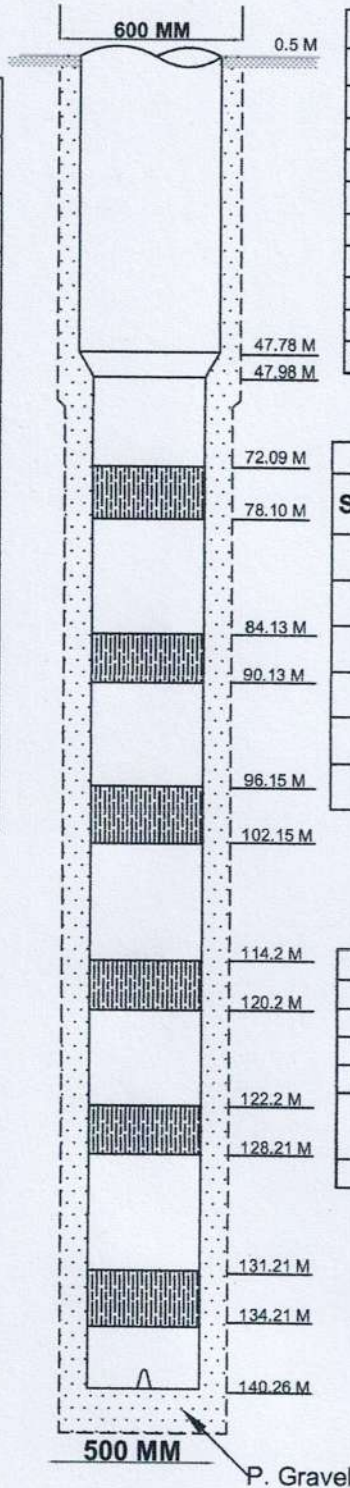
COMPLETION PLAN OF TUBEWELL

Name of work :- Construction of T. W. of G.P. Hyderabad, Block-Kumbhi Gola, 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 :- 711/ED/Phase-2/2022-23/XVII, Dt. 05.04.2023

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

Strata

0-5 mtr Surface Soil
5-27 mtr Clay Kankar
27-42 mtr Fine Sand
42-50 mtr Clay Kankar
50-59 mtr Fine to Medium Sand
59-65 mtr Clay Kankar
65-105 mtr Fine to Medium Sand
105-112 mtr Clay with Kankar
112-135 mtr Fine to Medium Sand
135-147 mtr Clay with Caving Clay
147-152 mtr Fine Sand With Kankar
152-157 mtr Clay With Kankar
157-168 mtr Fine Sand With Kankar



ABSTRACT	
1	Type of Rig Machine :- DC Cum RC
2	Static Water level :-
3	Required Discharge :- 1250 LPM
4	Bore Size (MM) :- 600x500
5	Assembly Size (MM) :- 300 x 200
6	Drilling Starting Date :- 07.04.2022
7	Drilling Completion Date :- 14.04.2022
8	Total Depth Of Drilling :- 170M
9	Logging Date :- 16.05.2022
10	Logging Depth :- 168M

Logging Report By Aqua Xplore Lucknow			
Sl.No	Depth (mbgl)	Thickness (m)	Remarks
1	27-42	15	Fine to Medium Sand (Good All)
2	50-59	9	
3	65-105	40	
4	112-135	23	
5	147-152	5	
6	157-168	11	

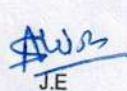
11. Details of Lowered Assembly	
i)	300 mm Dia Housing Pipe :- 48.26 Meter
ii)	200 mm Dia M. S. Slotted pipe :- 33.02 Meter
iii)	200 mm Dia M. S. Plain pipe :- 59.26 Meter
iv)	300 x 200 mm Dia M S Reducer :- 0.20 Meter
Total :- 140.76 Meter	
AGI :- 00.50 Meter	
BGL :- 140.26 Meter	
12. Date of Lowering :- .01.2022	

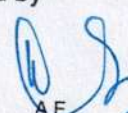
Recommended & Prepared by


 M/s NCC Ltd

Verified by

 M/s Ceinsys Tech Ltd

Recommended by

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 13th Division UP Jal Nigam (R) Lucknow

Recommended by

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