REPORT ON GEOPHYSICAL WELL LOGGING
AT

GRAM PANCHAYAT- BANWARIPUR, BLOCK- LAKHIMPUR KHIRI
DISTT-LAKHIMPUR KHIRI

UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 175 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 13.Dec.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 = 19.64 Ohms.

Drilling Water Resistivity = 24.50 Ohms.

Approx Water Level = 15 Mtr.

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 - 31	16	Medium sand	Good
4.	31 - 45	14	Clay kankar	
5.	45 - 65*	20	Medium sand	Good
6.	65 - 70	5	Clay kankar	
7.	70 - 80*	10	Medium sand	Good
8.	80 - 88	8	Clay kankar	
9.	88 - 101*	13	Medium sand	Good
10.	101 - 106	5	Clay kankar	
11.	106 - 121*	15	Medium sand	Good
12.	121 - 130	9	Clay kankar	
13.	130 - 145*	15	Medium sand	Good
14.	145 - 147	2	Clay kankar	
15.	147 - 152	5	Fine sand	Good
16.	152 - 155	3	Clay kankar	
17.	155 – 160*	5	Medium sand	Good
18.	160 - 168	8	Clay kankar,	

Sr No 5 - 45-63 (18m)

Ground Water Survey Consultancy
Agra

Logging performed as per SWSM guidelines. Groundwater quality interpreted by from as per the Logger calibration.

S.T.M-I / Acc

Banwaripur, Block - Lakshmipur, ...

Rig dia - 400cpm 65mm

A size - 300 x 152 mm

90 mt

T. depth - 168

Report - 13 1/2

45 - 65 = 20

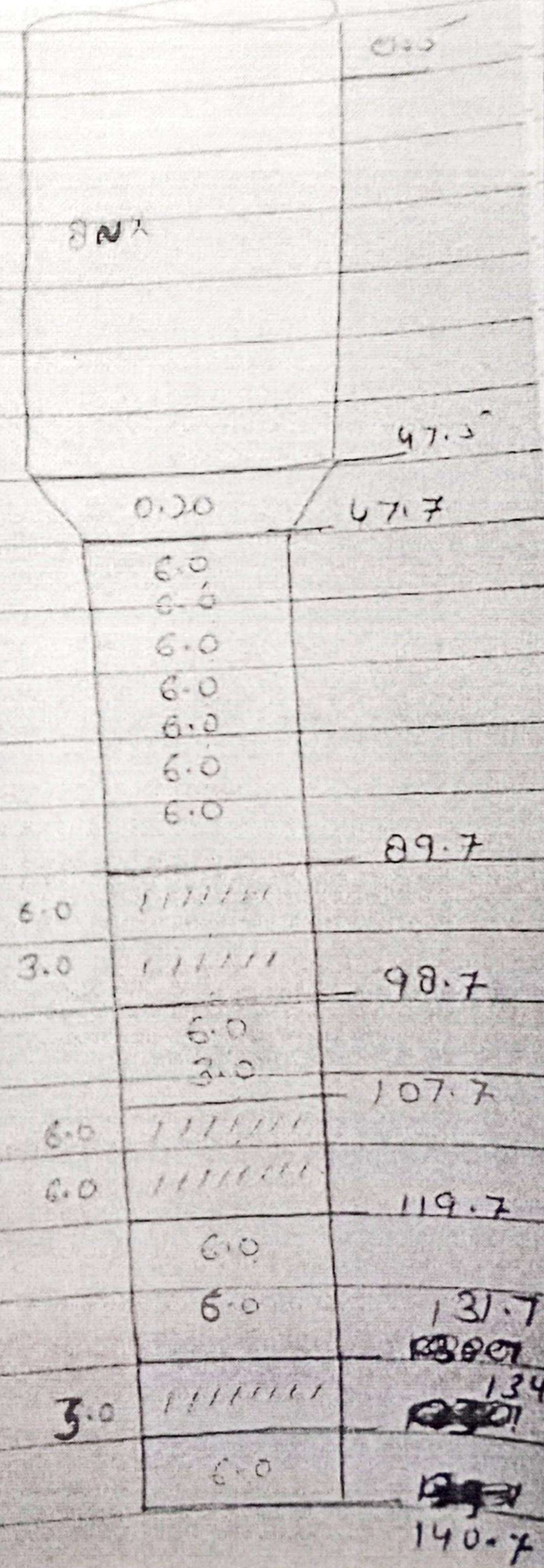
70 - 80 = 10

88 - 101 = 13 = 9.

106 - 121 = 15 = 12

130 - 145 = 15 = 6

135 - 160 = 8



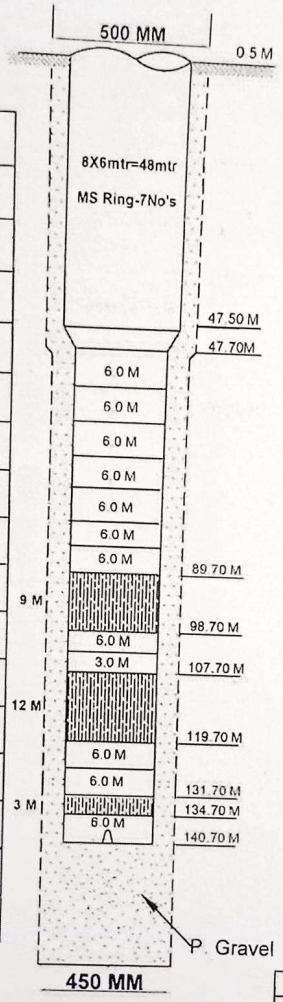
COMPLETION PLAN OF TUBEWELL

Name of work :- Construction of T. W. of G.P. Banwaripur, Block-Lakhimpur, District, Lakhimpur.
Name of Program :- J. J. M-3
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
Cover Agreement :- 256/ED/Phase-3/2022-23/IX Dt. 21.11.2022

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

Strata

0-5 mtr Suraface Soil
5-15 mtr clay kankar
15-31 mtr medium sand
31-45 mtr clay kankar
45-65* mtr medium sand
65-70 mtr clay kankar
70-80* mtr medium sand
80- 88 mtr clay kankar
88-101* mtr medium sand
101-106 mtr clay kankar
106-121* mtr medium sand
130-145* mtr medium sand
145-147 mtr clay kankar
147-152 mtr fine sand
152-155 mtr clay kankar
155-160* mtr medium sand
160-168 mtr clay kankar



	ABSTRACT	
1	Type of Rig Machine	:- DC Cum RC
2	Required Discharge	:- 650 LPM
3	Bore Size (MM)	:- 500x450
4	Assembly Size (MM)	:- 200 x 150
5	Drilling Starting Date	:- 9.12.2022
6	Drilling Completion Date	:- 12.12.2022
7	Total Depth Of Drilling	:- 175 M
8	Logging Date	:- 13.12.2022
9	Logging Depth	:- 168 M

Logging Report By Ground Water Investigation Center			
Sl.No	Depth (mbgl)	Thickness (m)	Remarks
1	45--65	20	good
2	70--80	10	good
3	88--101	13	good
4	106--121	15	good
5	130--145	15	good
6	155--160	5	good

(G.Shukla)
Verified by Asst. Hydrologist
Circle Office(E&M) U.P Jal Nigam (Rural)

(A.K Singh)
Verified by Geophysicist
GIC Lucknow.

11. Details of Lowered Assembly	
i) 200 mm Dia Housing Pipe	:- 48.0 Meter
ii) 150 mm Dia M. S. Slotted pipe	:- 24.00Meter
iii) 150 mm Dia M. S. Plain pipe	:- 69.00Meter
iv) 200 x 150 mm Dia M S Reducer	:- 0.20 Meter
Total	:- 141.20 Meter
AGL	:- 00.50 Meter
BGL	:- 140.70 Meter
12. Date of Lowering	:- 15-12-2022

NCC LIMITED
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

A E
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