

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BASTAULI, BLOCK- BIJUA, DISTT-LAKHIMPUR KHIRI
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 165 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 14.Mar.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 = 17.98 ~~Ohms~~.

Drilling Water Resistivity = 18.76 ~~Ohms~~.

Approx Water Level = 2 Mtr.

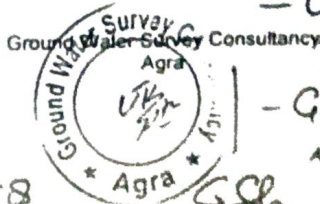
S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 10	5	Clay	
3.	10 - 15	5	Fine sand	
4.	15 - 27	12	Medium sand	Good
5.	27 - 34	7	Kankar	
6.	34 - 48	14	Medium sand	Good
7.	48 - 51	3	Clay kankar	
8.	51 - 57*	6	Medium sand	Good
9.	57 - 72	15	Clay kankar	
10.	72 - 77*	5	Medium sand	Good
11.	77 - 81	4	Clay kankar	
12.	81 - 96*	15	Medium sand	Good
13.	96 - 106	10	Clay kankar	
14.	106 - 117*	11	Medium sand	Good
15.	117 - 120	3	Clay kankar	
16.	120 - 127*	7	Medium sand	Good
17.	127 - 130	3	Clay kankar	
18.	130 - 134*	4	Fine to medium sand	Good
19.	134 - 140	6	Clay kankar	
20.	140 - 147*	7	Medium sand	Good
21.	147 - 151	4	Clay kankar	
22.	151 - 165*	14	Medium sand & kankar	Good

SrNO14-107-117

SrNO 16-121-127

Sr NO 18-131-134

Sr NO22-151-158

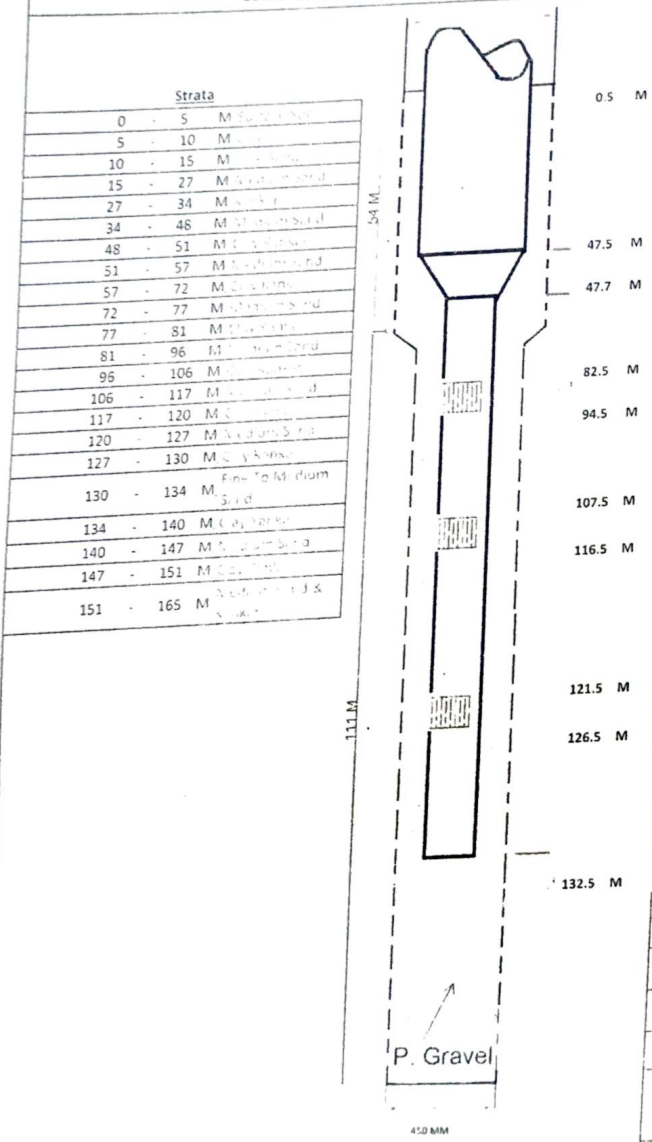


- Logging performed as per SWM guidelines
- Groundwater quality interpreted by farmer as per their logger calibration
16/03/23

Completion Plan Of Tubewell

Name Of Work :- Construction of T. W. of G.P. Bastauli, Block-Bijua, 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 :- 283/ED/Phase-2/2022-23/IX Dt. 03 Jan 2023

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



ABSTRACT		DC/RC
1	Type of Rig Machine	
2	Static Water level	
3	Required Discharge	850 LPM
4	Bore Size (MM)	600 X 450
5	Assembly Size (MM)	300 X 150
6	Drilling Starting Date	09-03-2023
7	Drilling Completion Date	13-03-2023
8	Total Depth Of Drilling	165 M
9	Logging Date	14-03-2023
10	Logging Depth	165 M

Logging Report			Remarks
Sl No	Depth (mbgl)	Thickness (m)	
1	0 - 5	5	(Good All)
2	5 - 10	5	
3	10 - 15	5	
4	15 - 27	12	
5	27 - 34	7	
6	34 - 48	14	
7	48 - 51	3	
8	51 - 57	6	
9	57 - 72	15	
10	72 - 77	5	
11	77 - 81	4	
12	81 - 96	15	
13	96 - 106	10	
14	106 - 117	11	
15	117 - 120	3	
16	120 - 127	7	
17	127 - 130	3	
18	130 - 134	4	
19	134 - 140	6	
20	140 - 147	7	
21	147 - 151	4	
22	151 - 165	14	

11 Details of Lowered Assembly			
i)	300	MM Dia Housing Pipe	48 M
ii)	150	MM Dia M. S. Slotted pipe	26 M
iii)	150	MM Dia M. S. Plain pipe	58.8 M
iv)	300 X 150	MM Dia M S Reducer	0.2 M
Total :-			133.00 Meter
AGL :-			0.50 Meter
BGL :-			132.50 Meter
12 Date of Lowering :-			15-03-2023

Recommended & Prepared by M/S. NCC Ltd
Verified by M/S. Ceinsys Tech Ltd
Recommended by *Vinod Kumar*
Approved by *E.E. 13th Division U.P. Jal Nigam (R) Lucknow*
Assistant Engineer
Divisional Office (E&M)
U.P. JAL NIGAM (R)
LUCKNOW