

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- DUBHA, BLOCK- NIGHASAN, DISTT-LAKHIMPUR KHIRI
UNDER
JAL JIVAN MISSION

Introduction:

A Deep bore hole was drilled 175 mtrs. depth. and Logged depth ~~173~~ 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 10.Jan.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 = ~~17.83~~ Ohms.

Drilling Water Resistivity = ~~18.72~~ Ohms.

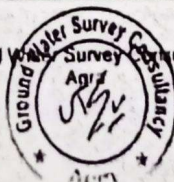
Approx Water Level = 3 Mr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 10	5	Clay	
3.	10 - 30	20	Medium sand	Medium
4.	30 - 37	7	Clay kankar	
5.	37 - 54*	17	Medium sand	Medium
6.	54 - 56	2	Kankar	
7.	56 - 64*	8	Medium sand	Medium
8.	64 - 67	3	Clay kankar	
9.	67 - 88*	21	Medium sand	Medium
10.	88 - 97	9	Clay kankar	
11.	97 - 110*	13	Medium sand	Medium
12.	110 - 117	7	Clay kankar	
13.	117 - 130*	13	Medium sand	Medium
14.	130 - 132	2	Kankar	
15.	132 - 148*	16	Fine to Medium sand	Medium
16.	148 - 152	4	Clay kankar	
17.	152 - 168*	16	Medium sand	Medium
18.	168 - 170	2	Clay kankar	
19.	170 - 173	3	Sandy clay	

Sr No 5-37-50 (13m)

Sr No 17-153-267 (14m)

Ground Water Survey Consultancy



- Logging performed as per
SWSM guidelines.
- Groundwater quality
interpreted by form as
per their logger
calibration
Scanned with CamScanner 1/5/21

JSM-2

Dubhai, Bloer - Highalon, LCP
42.4m³

Req Dish - 800 LPM

A. Size - 300 X ¹⁵⁰~~200~~ mm
 30

L. depth - 143 mt.

Repost - 10/23

$37 - 54 = 17 \text{ (} 37 - 50 = 15 \text{)}$

$58 - 64 = 8$

$67 - 88 = 21$

$97 - 110 = 13 = 12$

$117 - 130 = 13 = 12$

$152 - 168 = 16 \text{ (} 153 - 167 = 14 \text{)}$

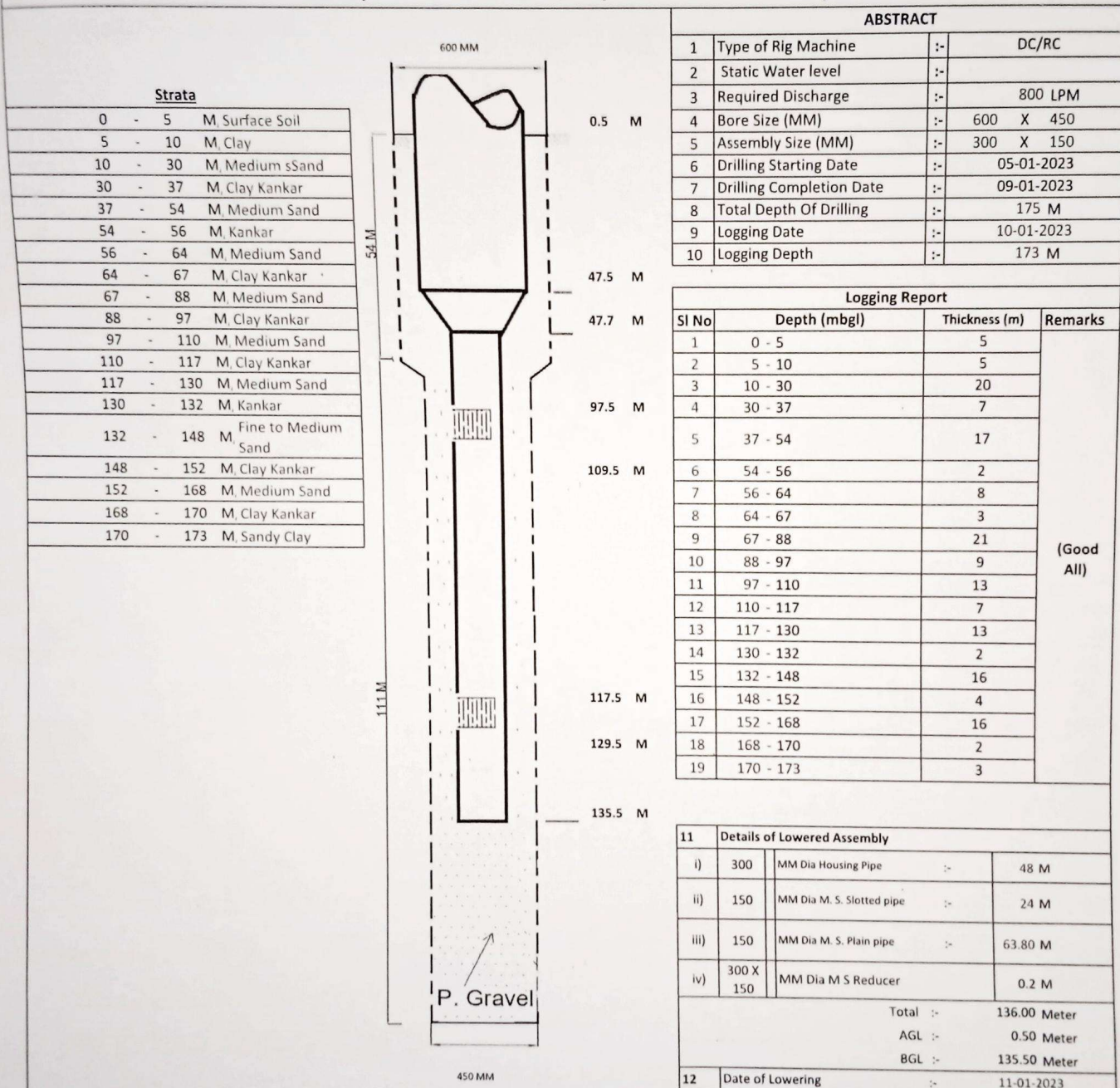
		0.5
		47.5
	0.20	47.7
	6.0	
	6.0	
	6.0	
	6.0	
	6.0	
	6.0	
	6.0	
	6.0 1.8	97.5 98.5
6.0		
6.0		109.5
	6.0	
	2.0	117.5
6.0		
6.0		129.5
	6.0	
		130.5

[Handwritten scribbles and markings]

Completion Plan Of Tubewell

Work :- Construction of T. W. of G.P. Dubha, Block- Nighasan, District, Lakhimpur Kheri.
 of :- 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 :- 313/ED/2022-23/V Dt. 02.08.2022

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



Recommended
&
Prepared by

M/S. NCC Ltd.

Verified by

M/S. Ceinsys Tech Ltd.

13th Division UP Jal Nigam (R)
Lucknow

Recommended by

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

Approved by

E.E
13th Division U.P Jal Nigam
(R) Lucknow

JJM-2

42m³

3 Dhubha, Niglasan, UP

$$T/\omega - 1$$

Page No. :

Date: _____

Discharge - 800 Pm

A type - $300 \times 750 \text{ mm}$
80

0.5

Rept - 12²/23

$$60 - 77 = 17 \left(\begin{array}{l} 70 - 77 \\ = 7 \end{array} \right)$$

$$90 - 106 = 16 = 15$$

$$114 - 122 = 13 = 12$$

$$130 - 126 = 4 =$$

$$147 - 154 = 7$$

57.5

0.2

59.7

6.6

6.9

6.0

6.0

6.6

 $3.0 + 4.0$

90.7

6.0

1111

6.0

1771

3. D

11111

1057

6.0

3.0

114.7

6.0

1721

6.0

77777

-126.7

6.5

132.70

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- DIHUBHA, BLOCK- NIGHASAN, DISTT-LAKHIMPUR KHIRI
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 165 mtrs. depth. and Logged depth ~~160~~ 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 12.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 = 17.43 Ohms.

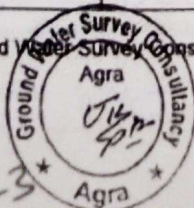
Drilling Water Resistivity = 18.36 Ohms.

Approx Water Level = 3 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 8	3	Clay kankar	
3.	8 - 12	4	Fine sand	
4.	12 - 15	3	Clay kankar	
5.	15 - 26	11	Fine to Medium sand	Medium
6.	26 - 33	7	Clay kankar	
7.	33 - 57	24	Medium sand	Medium
8.	57 - 60	3	Clay kankar	
9.	60 - 77*	17	Medium sand	Medium
10.	77 - 90	13	Kankar	
11.	90 - 106*	16	Medium sand	Medium
12.	106 - 114	2	Clay kankar	
13.	114 - 127*	13	Medium sand & kankar	Medium
14.	127 - 130	3	Clay kankar	
15.	130 - 136*	6	Medium sand & kankar	Medium
16.	136 - 147	11	Clay kankar	
17.	147 - 154*	7	Medium sand	Medium
18.	154 - 160	6	Clay kankar	

S₂N09-70-77
(7m)

Ground Water Survey Consultancy



G Sh
14/02/23

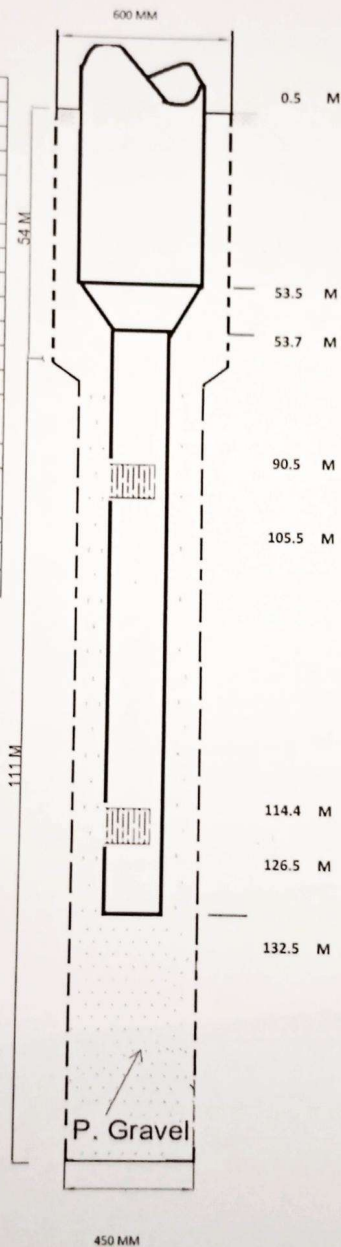
- Logging performed as per
SIWSM guidelines.
- Groundwater quality
interpreted by firm as
per their logger calibre

Completion Plan Of Tubewell

Name Of Work :- Construction of T. W. of G.P. Dubha, Block- Nighasan, 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 :- 313/ED/2022-23/V Dt. 02.08.2022

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

Strata		
0	-	5 M Surface Soil
5	-	8 M Clay Kankar
8	-	12 M Fine Sand
12	-	15 M Clay Kankar
15	-	26 M Fine to Medium Sand
26	-	33 M Clay Kankar
33	-	57 M Medium Sand
57	-	60 M Clay Kankar
60	-	77 M Medium Sand
77	-	90 M Kankar
90	-	106 M Medium Sand
106	-	114 M Clay Kankar
114	-	127 M Medium Sand & Kankar
127	-	130 M Clay Kankar
130	-	136 M Medium Sand & Kankar
136	-	147 M Clay Kankar
147	-	154 M Medium Sand
154	-	160 M Clay Kankar



ABSTRACT			
1	Type of Rig Machine	:-	DC/RC
2	Static Water level	:-	
3	Required Discharge	:-	800 LPM
4	Bore Size (MM)	:-	600 X 450
5	Assembly Size (MM)	:-	300 X 150
6	Drilling Starting Date	:-	07-02-2023
7	Drilling Completion Date	:-	11-02-2023
8	Total Depth Of Drilling	:-	165 M
9	Logging Date	:-	12-02-2023
10	Logging Depth	:-	160 M

Logging Report			
Sl No	Depth (mbgl)	Thickness (m)	Remarks
1	0 - 5	5	(Good All)
2	5 - 8	3	
3	8 - 12	4	
4	12 - 15	3	
5	15 - 26	11	
6	26 - 33	7	
7	33 - 57	24	
8	57 - 60	3	
9	60 - 77	17	
10	77 - 90	13	
11	90 - 106	16	
12	106 - 114	8	
13	114 - 127	13	
14	127 - 130	3	
15	130 - 136	6	
16	136 - 147	11	
17	147 - 154	7	
18	154 - 160	6	

11	Details of Lowered Assembly		
i)	300	MM Dia Housing Pipe	54 M
ii)	150	MM Dia M. S. Slotted pipe	27 M
iii)	150	MM Dia M. S. Plain pipe	51.80 M
iv)	300 X 150	MM Dia M S Reducer	0.2 M
Total			133.10 Meter
AGL			0.50 Meter
BGL			132.60 Meter
12	Date of Lowering		13-02-2023

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&
Prepared by

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Verified by

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Lucknow

Recommended by

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13th Division UP Jal Nigam (R) Lucknow

Approved by

E.E
13th Division U.P Jal Nigam (R)
Lucknow