

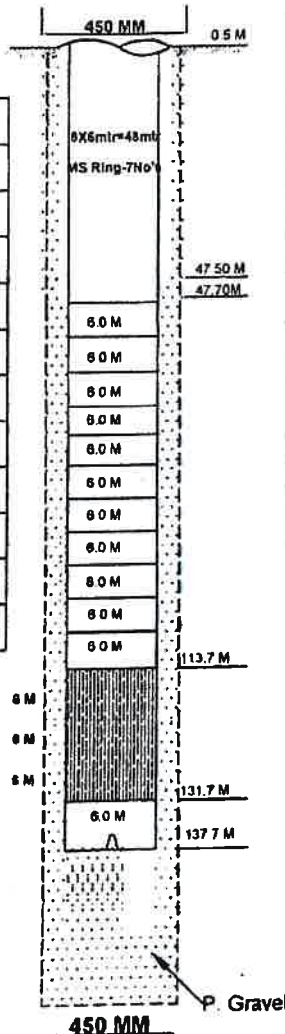
COMPLETION PLAN OF TUBEWELL

Name of work :- Construction of T. W. of G.P. Harna Jat, Block-Mohammadi, 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 :- Celnsys Tech Limited
Cover Agreement :- 466/ED/Phase-3/2022-23/XVII, Dated 27.02.2023

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

Strata

0-5 mtr Surface soil
5-12 mtr Clay Kankar
12-20 mtr Fine Sand
20-25 mtr Clay Kankar
25-60 mtr Medium Sand
60-77 mtr Clay Kankar
77-105 mtr Medium Sand
105-111 mtr Clay Kankar
111-141 mtr Medium Sand
141-148 mtr Clay Kankar
148-155 mtr Medium Sand
155-167 mtr Clay Kankar



ABSTRACT

1	Type of Rig Machine	:- DC Cum RC
2	Required Discharge	:- 290 LPM
3	Bore Size (MM)	:- 450x450
4	Assembly Size (MM)	:- 150 x 150
5	Drilling Starting Date	:- 27.01.2023
6	Drilling Completion Date	:- 30.01.2023
7	Total Depth Of Drilling	:- 188 M
8	Logging Date	:- 31.01.2023
9	Logging Depth	:- 187 M

Logging Report By Ground Water Investigation Center

Sl.No	Depth (mbgl)	Thickness (m)	Remarks
1	25-80	35	Good
2	77-105	28	
3	111-141	30	
4	148-155	09	

(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) 150 mm Dia Housing Pipe	- 48.0 Meter
ii) 150 mm Dia M S Slotted pipe	- 18.00Meter
iii) 150 mm Dia M S Plain pipe	- 72.2 Meter
iv) 150 x 150 mm Dia M S Reducer	- 0.00 Meter
Total	- 137.70 Meter
AGI	- 00.50 Meter
BGL	- 138.20 Meter
12. Date of Lowering	- 03.02.2023

Recommended
 &
 Prepared by

M/s NCC Ltd

Verified by

M/s Celnsys Tech Ltd

Recommended by

ASHISH KUMAR
 JUNIOR ENGINEER
 DIVISIONAL OFFICE (E&M)
 U.P. JAL NIGAM (R)
 LUCKNOW

Approved by

13th Division UP Jal
 Nigam (R) Lucknow

Assistant Engineer
 Divisional officer (E&M)
 U.P. Jal Nigam (R)
 Lucknow

13th Division UP Jal
 Nigam (R) Lucknow

SRINIVAS GUPTA
 JUNIOR ENGINEER
 DIVISIONAL OFFICE (E&M)
 LUCKNOW

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- HARANAJAT, BLOCK- MOHAMMADI, DISTT-LAKHIMPUR KHIRI
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 168 mtrs. depth. and Logged depth ~~167~~ 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 01.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 = 15.28 ~~Ohms~~.

Drilling Water Resistivity = 17.68 ~~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 - 12	7	Clay kankar	
3.	12 - 20	8	Fine sand	
4.	20 - 25	5	Clay kankar	
5.	25 - 60*	35	Medium sand	
6.	60 - 77	17	Clay kankar	Medium
7.	77 - 105*	28	Medium sand	
8.	105 - 111	6	Clay kankar	Medium
9.	111 - 141*	30	Medium sand	
10.	141 - 146	5	Clay kankar	Medium
11.	146 - 155*	9	Medium sand	
12.	155 - 167	12	Clay kankar	Medium

SrNO7-80-105



- Logging performed as per
SWSM guidelines
Groundwater quality
interpreted by farmers per
their logger
calibration
G.S.C.
02/02/23

Horangpt. mohammadi, LKP
35m²

35 m²

450 450 450

~~150 x 150 mm~~ 150 x 150 mm
F8 18

612

47.5

0.20

47.7

6.0

6.0

6.0

6.0

6.0

6. 5.

6.0-

6.0

6.0

6.0

6.0

113.7

6.0

111111

6.0

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6.0

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 $130 - 7$

6.0

137.7

TEST REPORT FOR DEVELOPMENT OF TUBEWELL BY AIR COMPRESSOR

NAME OF WORK
NAME OF PROGRAM
NAME OF CLIENT
NAME OF CONTRACTOR
NAME OF TPI
AGREEMENT NO.

CONSTRUCTION OF T.W OF Harrajat W/S SCHEME BLOCK Mohammad DISTRICT, LAKHIMPUR KHERI
:- JIM
:- SWSM & U.P JAL NIGAM (R)
:- M/s NCC LIMITED
:- M/s CEINYSYS TECH LIMITED
:- 64/ED/20-21 12.03.2022

TEST REPORT OF DEVELOPMENT TUBEWELL BY 2.50 PSI AIR COMPRESSOR

1 DATE OF START :- 21-02-2023 6 SOUNDING OF T/W AFTER DEVELOPMENT :- 135-0
2 DATE OF COMPLETION :- 7 SIZE OF T/W ASSEMBLY :- 150-K150mm
3 DATE OF TESTING :- 27-02-2023 8 LOWERED AIR LINE :- 120-mr
4 STATIC WATER LEVEL :-
5 SOUNDING OF T/W BEFORE DEVELOPMENT 125-00

Sr.No	AIR LINE LOWERED IN (MTR)	Starting pressure kg/cm2	RUNNING pressure kg/cm2	DEPRESSION		DISCHARGE BY V-NOTCH(90°)		SAND CONTENT IN P.P.M					Remarks
				IN KG/CM2	IN (MTRS)	IN INCHS	LPM	STARTING MIN	AFTER 5 MIN	AFTER 10 MIN	AFTER 15 MIN	AFTER 20 MIN	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	128	12.5	12.0	0.5	5.0	7	1207	4000	3000	2000	1500	900	Recommended for further development by OP Unit

Sr. Project Manager
M/s NCC Limited

JANOR ENGINEER KUMAR
DIVISION (E&M)
UP JAL NIGAM (R) LKO (E&M)
UP JAL NIGAM (R)
LUCKNOW

ASSISTANT ENGINEER
Ass. DIVISION (E&M) er
UP JAL NIGAM (R) LKO (E&M)
U.P. Jal Nigam (R)
Lucknow

EXECUTIVE ENGINEER
DIVISION (E&M)
U.P JAL NIGAM (R) LKO

YIELD TEST FOR DEVELOPMENT OF TUBEWELL BY OP UNIT

CONSTRUCTION OF T.W OF W/S SCHEME BLOCK DISTRICT, LAKHIMPUR KHERI

NAME OF WORK
NAME OF PROGRAM
NAME OF CLIENT
NAME OF CONTRACTOR
NAME OF TPI
AGREEMENT NO.

YIELD TEST REPORT OF TUBEWELL BY CU SEC O.P UNIT

1 DATE OF START :- 4.3.23
2 DATE OF COMPLETION :-
3 DATE OF TESTING :- 14.3.23
4 SOUNDING OF T/W BEFORE DEVELOPMENT :- 134 ml

5 SOUNDING OF T/W AFTER DEVELOPMENT :- 133 ml
6 DIA OF HOUSING PIPE :- 8 1/2 inch
7 TOTAL COLUMN PIPE LOWERED :- 24 ml
8 SIZE OF ORIFICE PIPE :- water meter

S.NO	DISCHARGE BY			STATIC WATER LEVEL IN (M)	RUNNING WATER LEVEL IN (M)	DEPRESSION IN (M) (6-5)	SAND CONTENTS IN P.P.M								REMARKS
	ORIFICE PIPE	WATER METER	IN (LMP)				STARTING	AFTER 5 MIN	AFTER 10 MIN	AFTER 15MIN	AFTER 20 MIN	AFTER 25 MIN	AFTER 30 MIN		
	INCH	LPM													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	-	-	700	11.50	14.80	3.30	200	100	50	75	50	50	50		
2	-	-	500	11.50	14.0	2.50	100	50	75	50	50	50	50		
3	-	-	300	11.50	13.50	2.0	50	75	50	50	50	50	50		
RECOMMENDED DISCHARGE :-300..... LPM															DEPRESSION:-2.5..... METERS
NOTE :- IN STARTING PUMP SHOULD RUN AT LEAST10..... MINUTES IN BYPASS LINE AT RATED HEAD.															

RECOMMENDED DISCHARGE :- 300 LPM
DEPRESSION :- 2.0 METERS
NOTE :- IN STARTING PUMP SHOULD RUN AT LEAST 10 MINUTES IN BYPASS LINE AT RATED HEAD.

Project Manager
M/s NCC Limited

Junior Engineer
M/s CEINYS TECH LTD.

Divisional Engineer
U.P. JAL NIGAM (R)
LUCKNOW

Assistant Engineer
U.P. JAL NIGAM (R)
LUCKNOW

Executive Engineer
U.P. JAL NIGAM (R) LKO

[illegible]

Name of Block	Mohammad
Sound Of Tubewell	

Sounding Of Tubewell Before Development

Sound Of Tubewell After Developement

Static Water Level Before Development

Static Water Level After Development

			After Development		
Date	Start Time	Closed Time	Total Hours	Length Of Airline	Remarks

21/02/23.	08:00	12:00	3 hr		
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	1:00	4:00	3 hr		
22/02/88	08:00	10:00			

1:45	08:00	12:00	3 h		
	1:00	4:00	3 h		

23/03/23	08:00	12:00	3hr		
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	1:00	9:00	3hr		
24/03/28	08:00	10:00	2hr		

11:00	4:00	3hr		
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25/03/23	8:00	12:00	3h		
	1:00	1:00			

26/03/23	8:00	12:00	3hr		
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	1:00	3:00	2 hr		
27/03/28	10:33	10:45	12		

21-5-15	10:00	12:00	2 hr		
	1:00	3:00	2 hr		

Total = 39 hr

Vinod Kumar
Assistant Engineer
Divisional officer (E & M)
U.P. Jal Nigam (R)
Lucknow

Handwritten text on a yellow sticky note, partially obscured by a white box.

Name of Month May

Required Discharge:

[illegible]

Vinod Kumar
Assistant Engineer
Divisional officer (E&TV)
U.P. Jal Nigam (R)
Lucknow

Total 79-hr

Coim

← 1. Gen 8/17