

OFFICE OF THE EXECUTIVE ENGINEER DIVISIONAL OFFICE (E/M), U.P. JAL NIGAM, LUCKNOW

Assembly Plan-Mon 1st T/W, Block-Majhrajganj JIM-PKG-8 -(MON -RO WSS)
Machine- D. C RIG MACHINE Size of Bore - 600 X 450mm, Static W/L
For Name - M/S HUGEL INFRA PVT. LTD (GOURAV KR. GUPTA) RO WSS PROJECT RAEBARELI

District - Raebareli
LPM-700

DEPTH OF BORE IN M.B.G.L		DEPTH OF STRATA IN M.B.G.L	LOWERED ASSEMBLY	DETAILS OF ASSEMBLY							
10.00		Surface Sand Clay	300 mm	Ø 300 mm dia Housing	Plain pipe from (AGL)	0.00	MAGL to	0.50	MAGL	0.50	M.
-10.00		Clay With Kankar		Ø 300 mm dia Housing	Plain pipe from (BGL)	0.00	MBGL to	35.00	MBGL	35.00	M.
				Ø 300 mm dia Housing	Slotted pipe from	35.00	MBGL to	41.00	MBGL	6.00	M.
				Ø 300 mm dia Housing	Plain pipe from	41.00	MBGL to	51.00	MBGL	10.00	M.
-14.00		Clay With Kankar		Ø 300 mm dia Housing	Slotted pipe from	51.00	MBGL to	55.00	MBGL	4.00	M.
-11.00		Clay With Kankar		Ø 300 mm dia Housing	Plain pipe from	55.00	MBGL to	65.00	MBGL	10.00	M.
-11.00		Clay With Kankar		Ø 300 mm dia Housing	Slotted pipe from	65.00	MBGL to	69.00	MBGL	4.00	M.
-15.00		Clay With Kankar		Ø 300 mm dia Housing	Plain pipe from	69.00	MBGL to	72.00	MBGL	3.00	M.
-15.00		Clay With Kankar		Ø 300 X Ø 150 mm dia	Reducer from	72.00	MBGL to	72.20	MBGL	0.20	M.
-15.00		Clay With Kankar		Ø 150 mm dia Housing	Plain pipe from	72.20	MBGL to	78.20	MBGL	6.00	M.
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-17.20		Clay									

ABSTRACT

1. Drilling Started on Dated -	01-03-2024
2. Drilling Completed on Dated -	08-03-2024
3. Drilling Depth - 600 mm Dia	80.00 M
500 mm Dia	268.00 M
Total-	348.00 M
4. Assembly lowered on Dated - 10-03-2024	
5. Assembly Lowered -	
(A) Housing pipe 300 mm dia (AGL) -	0.50 M
(B) Housing pipe (Plain) 300 mm dia (BGL) -	58.00 M
(C) Slotted pipe 300 mm dia -	14.00 M
(D) Reducer (300 mm X 150 mm) -	0.20 M
(E) Slotted pipe 150 mm dia -	0.00 M
(F) Plain pipe 150 mm dia -	6.00 M
Total assembly-	78.70 M
7. Yield Test Date of T/w - N/A	
8. Recommended Discharge - N/A	
9. Pea-Gravel - 33.55 CUM	
10. MS Ring 300mm- 14 NOS	11. MS Ring 200mm- NOS.
12. MS Ring 150mm- NOS	13. MS Ball Plug 200mm- NOS.
14. MS Ball Plug 150mm- 1 NOS	15. Reducer 300mmx150mm- 1 NOS
16. Reducer 200x150mm- NOS.	17. MSSl Clamp 300mm- 1 NOS
18. MSSl Clamp 200mm- NOS	19. TW Assembly Support- 300mm - 1 NOS
20. MS Well Cap-300mm-1 NOS	21. MS Well Cap-200mm-NOS
22. Center Guide-300mm-4 NOS	23. Center Guide-200mm- NOS
24. Center Guide-150mm-NOS	

LOGGING REPORT (Aqua Xplore) REF: A-306-M/AX-2024, Dated:- 06.03.2024

Sl.	Depth Range Mbgl	Thickness m.	Types of strata
1	28-32	4	Good
2	34-41	7	
3	51-55	4	Moderate
4	65-69	4	
5	230-240	10	Marginal

Note:- 1. All zones are intermixed with kankar. Quality of the formation water is deteriorating to saline in between 73.0 to 228.0 mbgl & further below 242.0 mbgl till depth logged. Partial clay layer lies in between 228.0 to 230.0 mbgl.

Manager (G.W.)

Prepared & Proposed By

M/S HUGEL INFRA PVT. LTD,
PROJECT (RO WSS-Raebareli)

Checked By

TPIA
(CEINSYS)

Recommended By

Assistant Engineer
(UPJN)

Approved By

Executive Engineer
(UPJN)

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- MON TW NO. 1, BLOCK- MAHARAJGANJ, DISTT- RAEBARELI
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 360 mtrs. depth. and Logged depth 350 mtrs. at above site. Was drilled by M/S Hugel Infra Pvt. Ltd. Raebareli.

On the request of M/S Hugel Infra Pvt. Ltd. Raebareli. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 04.Mar.2024.

Logging Parameters - 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:-

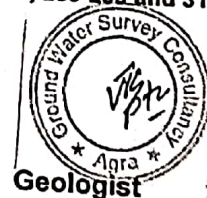
Mud Resistivity = 11.29 Ohms.

Drilling Water Resistivity = 12.62 Ohms.

Approx Water Level = 15 Mtr

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	15 - 20	5	Fine to Medium sand	Good
2.	33 - 40	7	Medium sand	Good
3.	50 - 52	2	Fine sand	Mod to Good
4.	61 - 68	7	Fine to Medium sand	Mod to Good
5.	230 - 236	6	Fine sand	Moderate

- Note :-
1. Please ensure pre-monsoon water level before lower the well assembly
 2. Quality Of Ground water is deteriorating Marginally Saline in below 182-224, 258-282, 300-313 Mtr bgl.
 3. Clay kankar is present in depth range 21-32, 41-49, 53-60, 69-181, 225-229, 237-257, 283-299 and 314 mtr bgl to till depth logged.



Geologist



Aqua Xplore

(Groundwater Assessment & Allied Services)

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Advisor - Dr. R. A. Yadav, ex-Manager (Groundwater), U. P. Jal Nigam

Ref. 306 - M / AX - 2024

Date 06.03.2024

Geophysical Borehole Logging Report

Name of the site : Mon T/W-1, Block - Maharajganj

District : Raibareilly

Date : 06.03.2024

Depth logged : 348.0 mbgl,

Depth drilled : 350.0.0 mbgl - as reported

Logger use : Robertson make

Presence : Rep. of M/S Hugel Infra Private Limited, Raebareilly

Based on the interpretation of geophysical logs, following information may be deciphered, particularly with respect to salinity of the formation water.

Sl.No.	Depth range(mbgl)	Thickness(m)	Remarks
1	28.0-32.0	4.0	Good (1,2)
2	34.0-41.0	7.0	
3	51.0-55.0	4.0	Moderate (3,4)
4	65.0-69.0	4.0	
5	230.0-240.0	10.0	Marginal (5)

Note. All zones are intermixed with kankar. Quality of the formation water is deteriorating to saline in between 73.0 to 228.0 mbgl & further below 242.0 Mbgl till depth logged. Partial clay layer lies in between 228.0 to 230.0 mbgl.

for Aqua Xplore

CC;
M/S Hugel Infra Private Limited, Raebareilly



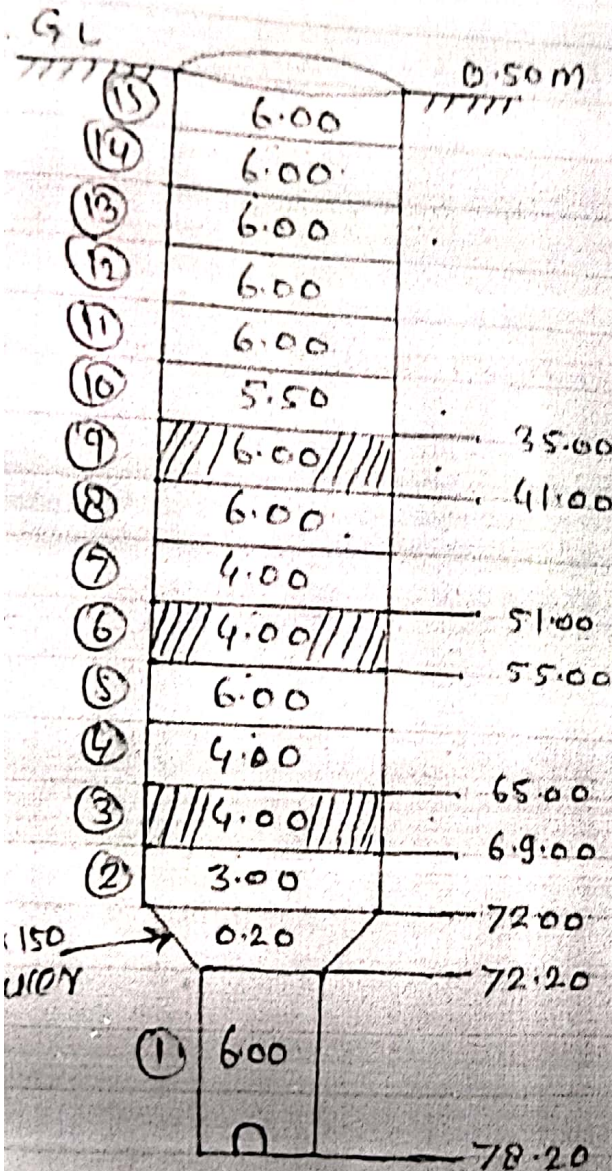
FEBRUARY 2024

M T W T F S S
 5 6 7 8 9 10 11
 12 13 14 15 16 17 18
 19 20 21 22 23 24 25
 26 27 28 29

proposed Lowering chart Mon 1st 27
 2024 JANUARY • SATURDAY

Discharge = 700 LPM

T/W Size = 300x150 mm
 T/W Bore = 600x450 mm



Logging Report	
①	28 - 32 = 4
②	34 - 41 = 7
③	51 - 55 = 4
④	65 - 69 = 4
⑤	230 - 240 = 10

- ① 300mm plain pipe (A.G.L) = 0.50m
- ② 300mm plain pipe (B.G.L) = 58.50m
- ③ 300mm slotted pipe (B.G.L) = 14.00m
- ④ 150mm plain pipe (B.G.L) = 6.00m
- ⑤ 300x150mm Reducer = 0.20m

Total Assembly (A.G.L + B.G.L) =

