



GRAM :- JAL NIGAM

Phone:- 0522 - 2220173, 2220272

# UTTAR PRADESH JAL NIGAM

Ref :-

Dated :-

## GEOPHYSICAL LOGGING REPORT

1. Name of the site:- Gajahra Mubarakpur
2. District:- Azamgarh
3. Dt. Of logging:- 18.11.19
4. Drilled depth( as reported):- 275.0mbgl
5. Logged depth:- 230.00mbgl
6. Logger no.:- AquaXplore, Lucknow
7. Concerned JE:- Er.,S.P.Yadav, JE
8. Based on the geophysical log interpretation following granular zones may be deciphered, particularly with respect to salinity of the formation water.

Sl. No.	Zones (mbgl )	Thickness(mts.)	Remarks
1	52.0-54.0	2.0	Good, very fine sand kanker intermixed
2	55.0-60.0	5.0	Good, fine sand kanker intermixed
3	72.0-77.0	5.0	Good, fine sand kanker intermixed
4	90.0-98.0	8.0	Good, fine sand kanker intermixed

Below 102 mbgl till depth logged the quality of formation water is deteriorating to marginal to saline.

(Dr. S.Sahai )

Manager ( Ground Water )

c.c.

1. EE, TCD(E/M), UP Jal Nigam, Mau for information and necessary action.

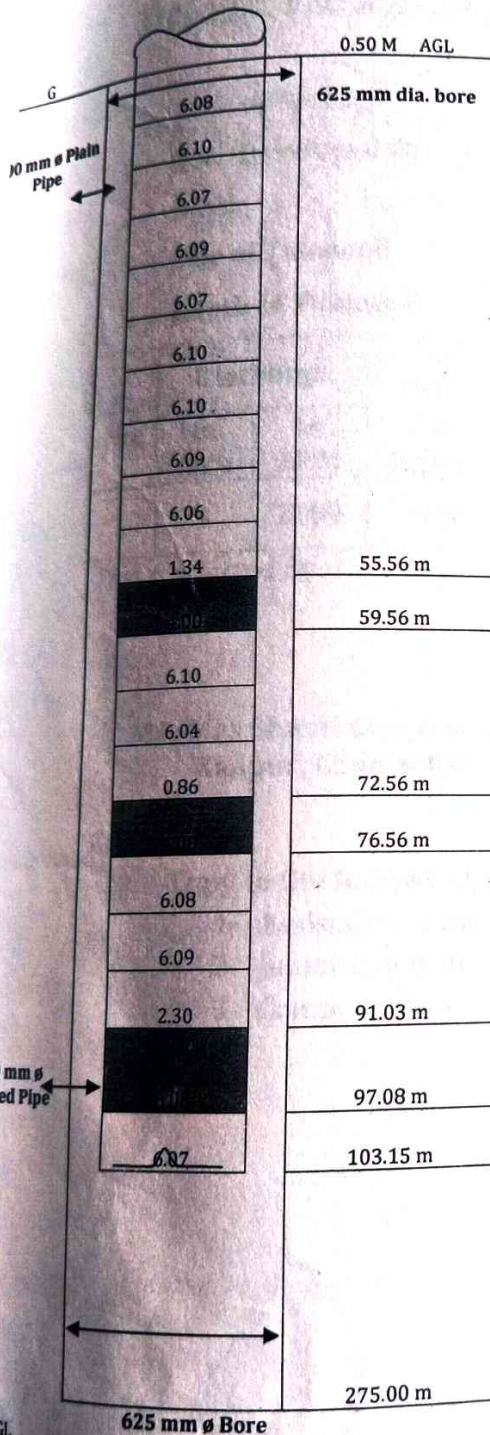
Manager ( Ground Water )



# ICE OF THE EXECUTIVE ENGINEER TEMP. CONST.DIV.(E&M) U.P. JAL NIGAM, MAU.

Final Completion Plan of Tube well Assembly Chart cum strata Chart For Gajahara  
water supply scheme T.W. No-1, Block- Sathiyaon, District- Azamgarh.

## Detail of Strata



## Detail of Lowering

No.	Detail of Lowering	Value
1	Drilling depth	275 m.
2	Drilling by contractor	D.C. Rig M/C
3	Total Plain pipe dia 300 mm	89.60 m.
4	Total Slotted pipe dia 300 mm	14.05 m.
5	Size of assembly lowering	300 mmø x 300 mmø

Dated- 14-12-2019

(Not to Scale)

## Detail of Strata

From (m)	To (m)	Thick (m)	Desperation of the Strata
0.00	18.00	18.00	Clay with Fine Kankar
18.00	54.00	36.00	Clay Kankar
54.00	72.00	18.00	Kankar with Fine Sand
72.00	102.00	30.00	Kankar
102.00	118.00	16.00	Clay with Kankar
118.00	142.00	24.00	Clay
142.00	154.00	12.00	Kankar Clay
154.00	166.00	12.00	Clay with Fine Kankar
166.00	172.00	6.00	Kankar
172.00	190.00	18.00	Clay
190.00	202.00	12.00	Kankar
202.00	226.00	24.00	Kankar Clay
226.00	250.00	24.00	Clay
250.00	275.00	25.00	Kankar with Sandy Clay

## Logging Report

Date 18-11-2019

Sl.N.	Depth Range (mbgl)	Thicknees (m)	Remark
1	52.0 - 54.0	2.0	Good very Fine Sand Kankar Intermixed
2	55.0 - 60.0	5.0	Good Fine Sand Kankar Intermixed
3	72.0 - 77.0	5.0	Good Fine Sand Kankar Intermixed
4	90.0 - 98.0	8.0	Good Fine Sand Kankar Intermixed

Note- Below 102 mbgl till depth logged the quality of formation water is deteriorating to marginal to saline.

## TEST REPORT OF T.W. DEVELOPMENT BY AIR COMPRESSOR

Discharge measured by 90° "V" Notch.

Date of Test : - 25-02-2020

Discharge measurement by 75 mm. Head										Date of Test: 20.02.2024		Remark
Sl. No.	Discharge		Air Pressure in Kg/cm <sup>2</sup>		Depression in		Starting Sand in P.P.M.	Sand contents in P.P.M. After				
	In Inches	In L.P.M	Starting	Runni	Kg/c m <sup>2</sup>	m		5 Min	10 Min	15 Min	20 Min	
1	9	2109	9.00	8.50	0.50	5.00	4800	3500	2500	1500	1000	
Note: Recommended for development of T/W by O.P. Unit.												

Note- Recommended for development of T/W by O.P. Unit.

## YIELD TEST REPORT OF T.W BY O.P. UNIT

Discharge measured by orifice meter- 150mm. x125 mm. size.

Date of Test :- 20-03-2020

Sl. No.	Discharge		Water level in m.		Depression in meters	Sand contents in P.P.M.					Remarks
						After					
	In Inches	In L.P.M	Running	Static		Starting	5 Min	10 Min	15 Min	20 Min	
1	12	1628	10.95	7.00	3.95	150	100	50	Tr	Cl	Cl
2	8	1325	10.25	7.00	3.25	100	50	Tr	Cl	Cl	Cl
3	6	1154	9.50	7.00	2.50	50	Tr	Cl	Cl	Cl	Cl

Recommended Discharge 1100 LPM after 10 min. in by pass.

Recommended Discharge 1100 LPM after 10 min. in by pass.

AGL + BGL  
0.50 + 103.15 = 103.65 m.

M/s Maa Shanti Construction,  
Kanpur, Contractor

(S.P. Yadav)  
J. E.

(M.N. Maurya)  
Assistant Engineer

(J.K. Gupta)  
Executive Engineer