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UTTAR PRADESH JAL NIGAM

6, Rana Pratap Marg, Lucknow-226001

Ref.

Geophysical Borehole Logging Report

Name of the site : Dargah T/W-2

District : Mau

Date : 31.01.2016

Depth logged : 225.0 mbgl

Depth drilled : 250.0 mbgl

Logger used : GIT

Presence : Er. Surendra Yadav, J.E.

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	39.0-----43.0	4.0	Good all
2	46.0-----50.0	4.0	
3	63.0-----70.0	7.0	
4	77.0-----81.0	4.0	
5	85.0-----89.0	4.0	
6	91.0-----95.0	4.0	
7	100.0-----107.0	7.0	
8	120.0-----125.0	5.0	
9	130.0-----137.0	7.0	
10	141.0-----145.0	4.0	
11	150.0-----153.0	3.0	
12	195.0-----202.0	7.0	
13	213.0-----217.0	4.0	

Note. Sl.Nos. 4, 5, 6 & 8 are fine sand intermixed with kanker.

(Dr.R.A.Yadav)
Manager(Ground Water)

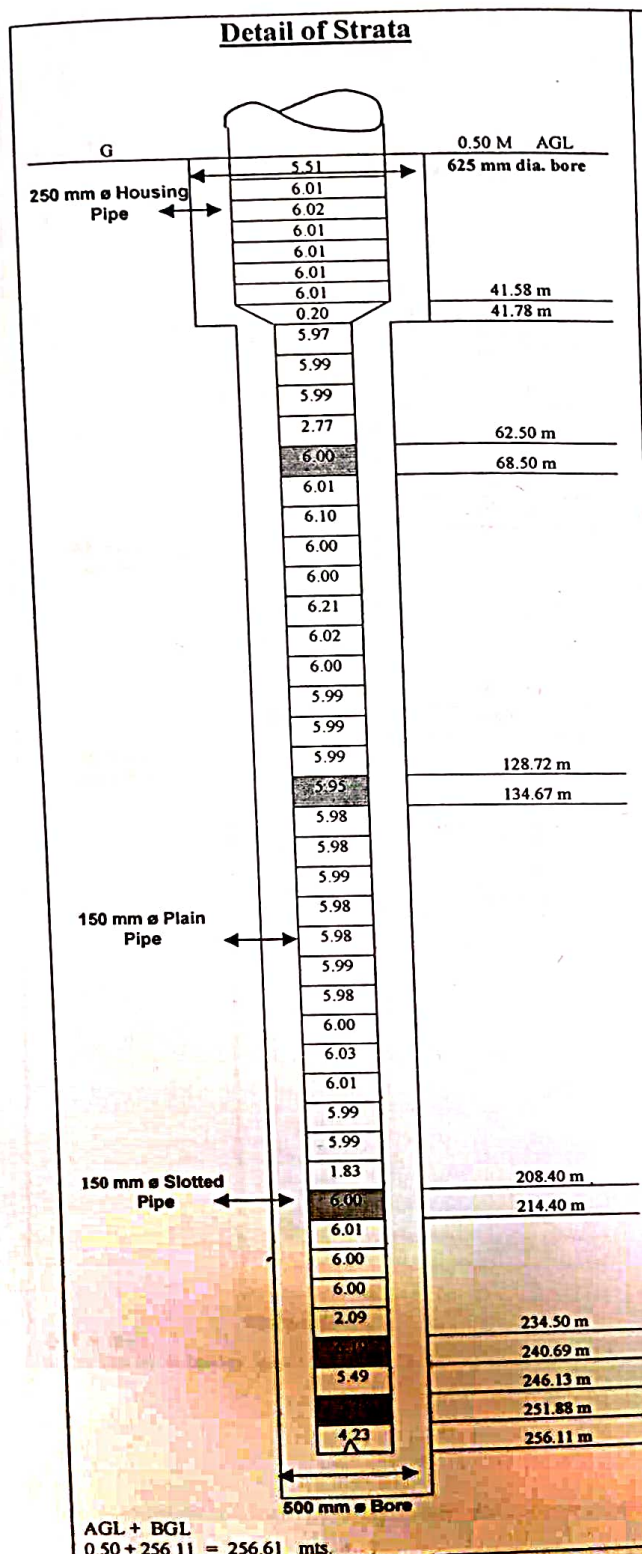
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1. C.E.(E/M), U.P.Jal Nigam, Lucknow.
2. E.E., T.C.D.(E/M), U.P.Jal Nigam, Mau
for information and necessary action.

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

Actual Completion Plan of Tube well Assembly Chart cum strata Chart For Dargah T.W.
No.-1 water supply scheme, Block- Doharighat , District- Mau.

(Not to Scale)



Detail of Lowering

1	Drilling depth	275 mts.
2	Drilling by contractor	D.C. Rig M/C
3	Drilling started on	13-09-2015
4	Drilling completed on	08-10-2015
5	Date of lowering	09-10-2015
6	Total housing pipe dia 250 mm	42.08 mt.
7	Total Plain pipe dia 150 mm	184.44 mt.
8	Total Slotted pipe dia 150mm	29.89 mt.
9	Size of assembly lowering	250mm ϕ x 150 mm ϕ
10	250mm ϕ x 150 mm ϕ M.S. Reduser	0.20 mt

Detail of Strata

From (m)	To (m)	Thick (m)	Desperation of the Strata
0	15	15	Sandy Clay
15	34	19	Fine Sand
34	69	35	Fine sand with Kankar
69	128	59	Kankar with Clay
128	148	20	Very Fine sand with Kankar
148	154	6	Kankar Clay
154	208	54	Clay
208	252	44	Fine Sand with Kankar
252	275	23	Very Fine Sand with Kankar

Logging Report

Date 01-10-2015

SL.N.	Depth Range (mbgl)	Thicknees (m)	Remark
1	62.0 - 69.0	7.0	Good all
2	86.0 - 90.0	4.0	
3	101.0 - 105.0	4.0	
4	110.0 - 117.0	7.0	
5	119.0 - 123.0	4.0	
6	128.0 - 135.0	7.0	
7	185.0 - 190.0	5.0	
8	193.0 - 200.0	7.0	
9	202.0 - 215.0	13.0	
10	220.0 - 223.0	3.0	
11	225.0 - 230.0	5.0	
12	234.0 - 241.0	7.0	
13	246.0 - 252.0	6.0	
14	263.0 - 268.0	5.0	

TEST REPORT OF T.W. DEVELOPMENT BY AIR COMPRESSOR

TEST REPORT ON DEVELOPMENT OF PPM																
Date of Test 07-11-2015																
Sl. No	Air line Lower in mtr.	Pressure in kg/cm ²		Depressio n		Discharg e through 90° V-notch		Sand contents in P.P.M.							Remark	
		Startin	Runnin	In kg/cm ²	In mtr	In cm	Inches	In L.P.M	Startin	After						
										5 Mtr	10 Mi	15 Mi	20 Mi	25 Mi		30 Mi
1	248	26	24.8	1.2	12	8½	1832	32000	8000	5500	3400	1800	1400	1200		
Note- Recommended for development by O.P. unit																

YIELD TEST REPORT OF T.W BY 3 CUSEC O.P. UNIT

FIELD TEST REPORT OF PPM										
Date of Test 07-04-2016										
Sl.No.	Discharge By water meter, in LPM	S.W.L In Mts.	R.W.L In Mts.	Depressi on in Mts.	Sand contents in P.P.M.					Remark
					Starting	After				
						5 Min	10 Min	15 Min	20 Min	
1	1600	3.50	9.50	6.00	3000	700	200	150	100	Recommended discharge 800 LPM at 3.70 m. depression
2	1200	3.50	8.15	4.65	1200	300	100	50	Tr	
3	1000	3.50	7.50	4.00	700	200	50	Tr	Tr	
4	800	3.50	7.20	3.70	400	100	50	Tr	Cl	
Note - Recommended 20 minute operation initially of pumping plant in by pass due to fine sand strata										

(M/S. Drill Expert.)
 Lucknow
 Contractor

(Surendra Yadav)
 J. E.

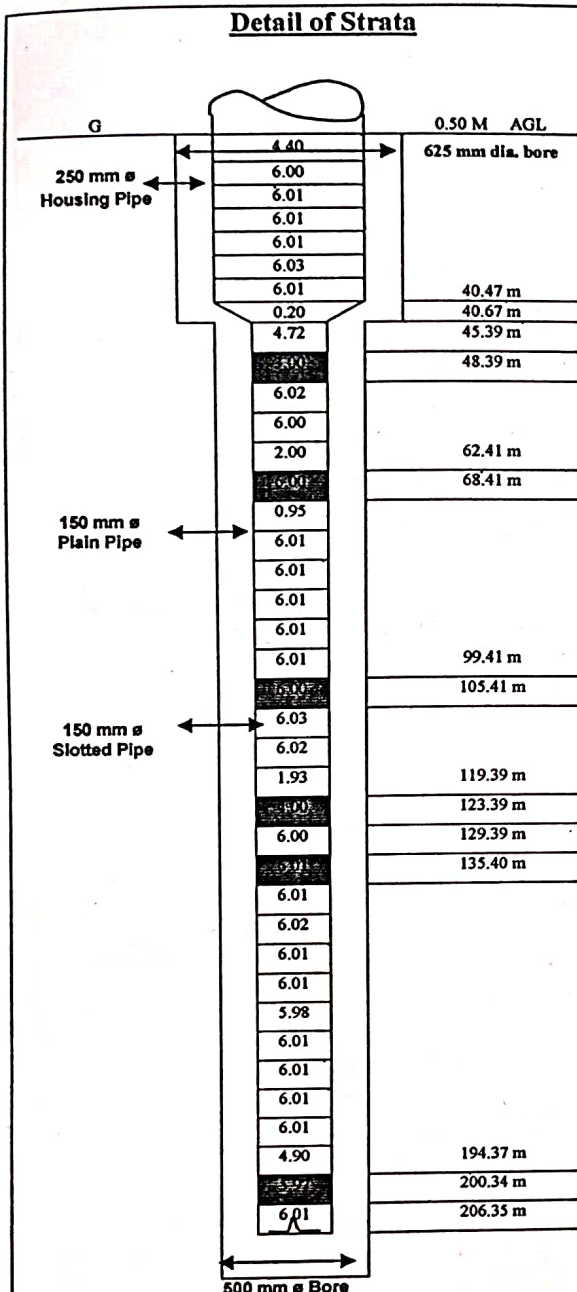
(S.N. Singh)
 Assistant Engineer

(N.A. Khan)
 Executive Engineer

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

Actual Completion Plan of Tube well Assembly Chart cum strata Chart For Dargah
T.W. No.-2 water supply scheme, Block- Doharighat, District- Mau.

(Not to Scale)



AGL + BGL
 $0.50 + 206.35 = 206.85$ mts.

Detail of Lowering

Dated - 07-02-2016

1	Drilling depth	230 mts.
2	Drilling by contractor	D.C. Rig M/C
3	Total housing pipe dia 250 mm	40.97 mt.
4	Total Plain pipe dia 150 mm	134.70 mt.
5	Total Slotted pipe dia 150 mm	30.98 mt.
6	Size of assembly lowering	230mm $\times$ 150 mm
7	250mm $\times$ 150 mm M.S. Reducer	0.20 mt

Detail of Strata

From (m)	To (m)	Thick (m)	Desperation of the Strata
0	16	16	Sandy Clay
16	51	35	Fine Sand
51	73	22	Fine Sand with Kanker
73	97	24	Clay Kanker
97	109	12	Fine Sand with Kanker
109	140	31	Kanker with Fine Sand
140	160	20	Clay
160	192	32	Clay with Kanker
192	208	16	Fine Sand with Kanker
208	250	42	Clay

Logging Report

Date 31-01-2016

SLN.	Depth Range (mbgl)		Thicknees (m)	Remark
	Actual	After cutting of Housing Pipe		
1	39.0—43.0	37.89—41.89	4.0	Good all
2	46.0—50.0	44.89—48.89	4.0	
3	63.0—70.0	61.89—68.89	7.0	
4	77.0—81.0	75.89—79.89	4.0	
5	85.0—89.0	83.89—87.89	4.0	
6	91.0—95.0	89.89—93.89	4.0	
7	100.0—107.0	98.89—105.89	7.0	
8	120.0—125.0	118.89—123.89	5.0	
9	130.0—137.0	128.89—135.89	7.0	
10	141.0—145.0	139.89—143.89	4.0	
11	150.0—153.0	148.89—151.89	3.0	
12	195.0—202.0	193.89—200.89	7.0	
13	213.0—217.0	211.89—215.89	4.0	

Note - SL.Nos. 4, 5, 6 & 8 are fine sand intermixed with kanker.

TEST REPORT OF T.W. DEVELOPMENT BY AIR COMPRESSOR

Discharge measured by 90° "V" Notch.

Date of Test : - 29-07-2016

Sl. No.	Discharge		Air Pressure in Kg/cm ²		Depression in mts	Starting Sand in P.P.M.	Sand contents in P.P.M. After				Remark
	In Inches	In L.P.M	Startin g	Runnin g			5Min	10Min	15Min	20Min	
1	8½	1831	18.50	17.90	0.60	22000	5000	3500	3000	2000	
2	8	1578	18.50	18.00	0.50	20000	4000	3000	2500	1600	
3	7½	1347	18.50	18.05	0.45	18000	3500	2800	2200	1400	

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- 150 x 125 mm size. Date of Test : - 02-09-2016

Sl. No.	Discharge		Water level in mts.		Depres sion in meters	Starting	Sand contents in P.P.M. After				Remark
	In Inches	In L.P.M	Runnin g	Static			5Min	10 Min	15 Min	20 Min	
1	28	2924	8.40	3.00	5.40	7100	1600	900	600	400	
2	20	2488	7.30	3.00	4.30	4400	900	500	200	100	
3	15	2182	6.35	3.00	3.35	2000	300	100	50	50	
4	12	1952	5.50	3.00	2.50	1600	200	100	50	50	
5	10	1770	4.95	3.00	1.95	900	100	50	50	Tr	
6	6	1384	4.60	3.00	1.60	350	50	Tr	Cl	Cl	

Recommended discharge 800 LPM at 1.50 depression after 15 Min. in by pass.

(M/S. Drill Experts)
 Lucknow
 Contractor

(Surendra Yadav)
 J. E.

(S.N. Singh)
 Assistant Engineer

(N.A. Khan)
 Executive Engineer