Telephone 0522- 2230712
FAX 0522- 2625586

UTTAR PRADESH JAL NIGAM

6, Rana Pratap Marg, Lucknow-226001

Ref.

Geophysical Borehole Logging Report

Name of the site : Kurthi Zafarpur T/W-2
District : Mau
Date : 27.03.2015
Depth logged : 270.0 mbgl
Depth drilled : 275.0 mbgl
Logger used : AXWS
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	50.0-----55.0	5.0	
2	70.0-----75.0	5.0	
3	82.0-----86.0	4.0	Good all
4	96.0-----100.0	4.0	
5	195.0------205.0	10.0	
6	214.0------230.0	16.0	
7	235.0------248.0	13.0	
8	250.0-----265.0	15.0	

Note. Sl.Nos. 3 & 4 are very fine sand intermixed with kanker.

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

Copy;

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.

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UTTAR PRADESH JAL NIGAM

6, Rana Pratap Marg, Lucknow-226001

Ref.

Geophysical Borehole Logging Report

Name of the site : Kurthi Zafarpur T/W-3

District : Mau

Date : 22.05.2015

Depth logged : 272.0 mbgl

Depth drilled : 275.0 mbgl

Logger used : AXWS

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	72.0-----76.0	4.0	
2	83.0-----90.0	7.0	
3	190.0-----197.0	7.0	Good all
4	200.0-----205.0	5.0	
5	210.0-----219.0	9.0	
6	221.0-----228.0	7.0	
7	240.0-----253.0	13.0	
8	255.0-----262.0	7.0	

Note. Sl.Nos.1&2 are fine sand & Sl.Nos.4,5& 6 are fine sand intermixed with kanker.

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

Copy;

1. C.E.(E/M), U.P.Jal Nigam, Lucknow.
2. E.E., T.C.D.(E/M), U.P.Jal Nigam, Mau

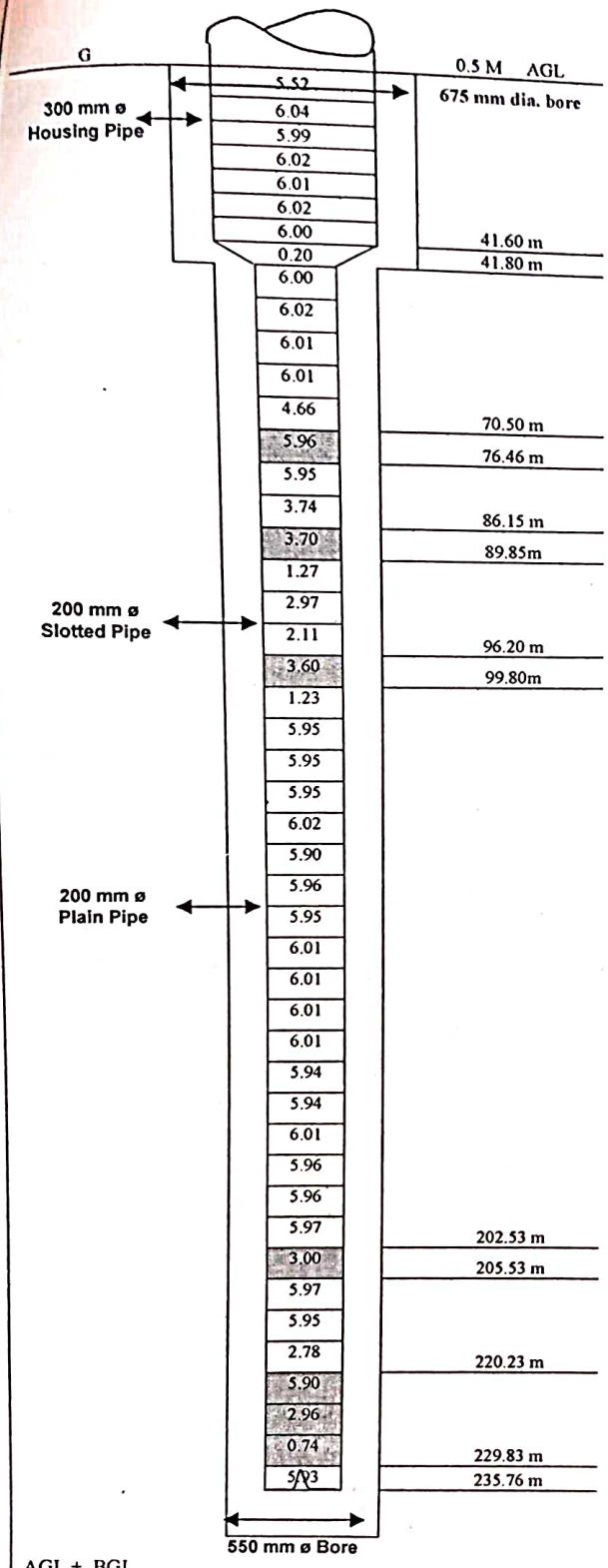
for information and necessary action.

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

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

(Not to Scale)

Detail of Strata



AGL + BGL
0.5 + 235.76 = 236.26 mts.

Detail of Lowering

1	Drilling depth	275 mts.
2	Drilling by contractor	D.C. Rig M/C
3	Drilling started on	10-01-2015
4	Drilling completed on	17-02-2015
5	Date of lowering	18-02-2015
6	Total housing pipe dia 300 mm	42.10 mt.
7	Total Plain pipe dia 200 mm	168.10 mt.
8	Total Slotted pipe dia 200mm	25.86 mt.
9	Size of assembly lowering	300mmø x 200 mmø
10	Static Water level	8.95 mts.

Detail of Strata

From (m)	To (m)	Thick (m)	Desperation of the Strata
0	6	6	Surface Clay
6	48	42	Clay Kankar
48	70	22	Clay with Sand
70	78	8	Very Fine Sand
78	84	6	Clay
84	90	6	Fine Sand with Kankar
90	96	6	Clay Kankar
96	100	4	Very Fine Sand
100	150	50	Clay
150	162	12	Caving Clay
162	202	40	Clay Kankar
202	206	4	Fine Sand with Kankar
206	220	14	Very-Very Fine Sand with kankar Clay
220	230	10	Very Fine Sand
230	275	45	Clay

Logging Report

Date 02-02-2015

Sl.N.	Depth Range (mbgl)	Thicknees (m)	Remark
1	70.0 – 77.0	7.0	Good All
2	86.0 – 90.0	4.0	
3	96.0 – 100.0	4.0	
4	189.0 -199.0	10.0	
5	202.0 – 206.0	4.0	
6	210.0 – 215.0	5.0	
7	220.0 -230.0	10.0	
8	245.0 – 252.0	7.0	
9	258.0 – 262.0	4.0	

TEST REPORT OF T.W. DEVOLOPMENT BY AIR COMPRESSOR

Date of Test 18-05-2015

Sl. No	Air line Lower in mtr.	Pressure in kg/cm²		Depression		Discharge through 90° V-notch		Sand contents in P.P.M.							Remark
									After						
		Starting	Running	In kg/cm²	In mtr.	In cm. Inches	In L.P.M	Starting	5 Min	10 Min	15 Min	20 Min	25 Min	30 Min	
1	165	17.5	16	1.5	15	8½"	1831	10500	3200	2200	1500	1300	1100	1000	

Note- Recommended for development by **O.P. unit**

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

Date of Test 30-09-2015

Sl.No.	Discharge By 6"x5" orifice pipe		S.W.L In Mts.	R.W.L In Mts.	Depression in Mts.	Sand contents in P.P.M.							Remark
							After						
	Inche	L.P.M				Starting	5 Min	10 Min	15 Min	20 Min	25 Min	30Min	
1	20"	2074	8.95	20.50	11.55	2500	600	300	200	150	100	100	
2	15"	1816	8.95	18.25	9.30	1800	300	200	1500	100	50	50	
3	11"	1559	8.95	16.15	7.20	1200	150	100	50	Tr	Tr/Cl	Cl	
4	7"	1241	8.95	14.65	5.70	500	50	Tr	Tr/Cl	CL	Cl	Cl	

Note- Recommended discharge **1200** LPM at **5.70 m.** depression pump should be run for 20 minutes through the bypass after starting the pump.

(M/S. Shiv Drillers)
Kolkata
Contractor

(Surendra Yadav)
Junior Engineer

(J.K. Gupta)
Assistant Engineer

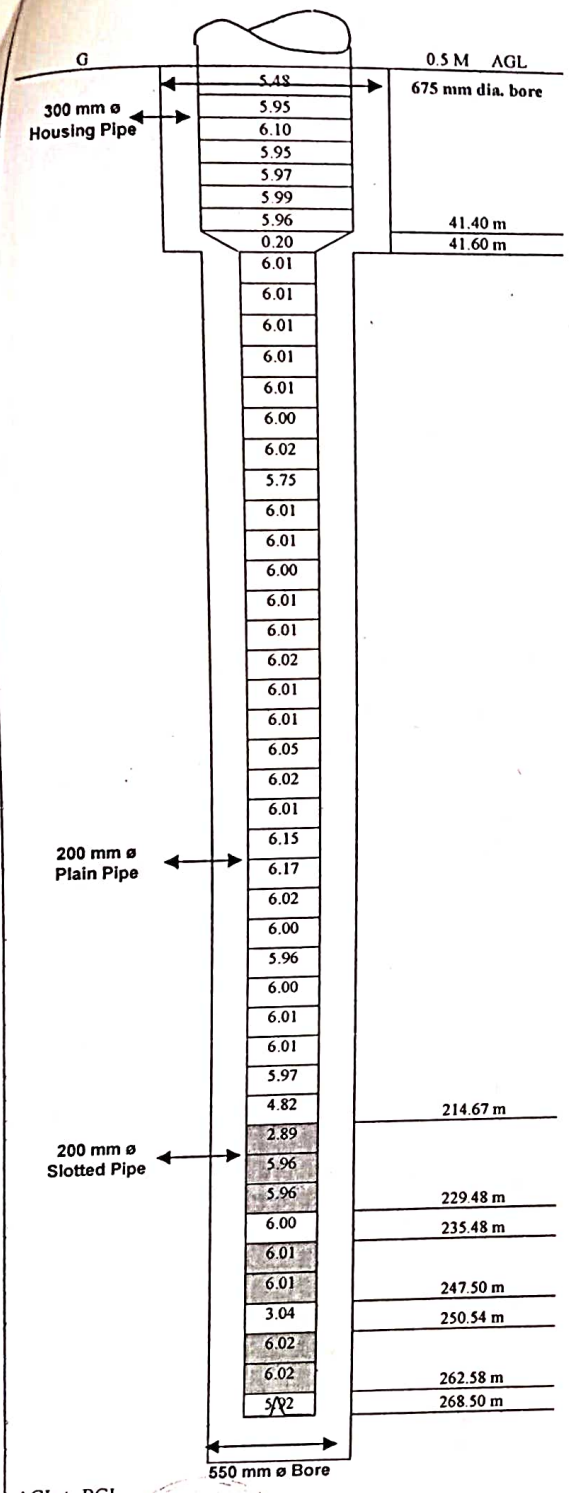
(N.A. Khan)
Executive Engineer

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

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

(Not to Scale)

Detail of Strata



AGL + BGL
0.5 + 268.50 = 269.00 mts.

Detail of Lowering

1	Drilling depth	290 mts.
2	Drilling by contractor	D.C. Rig M/C
3	Drilling started on	28-02-2015
4	Drilling completed on	13-04-2015
5	Date of lowering	13-04-2015
6	Total housing pipe dia 300 mm	41.90 mt.
7	Total Plain pipe dia 200 mm	188.03 mt.
8	Total Slotted pipe dia 200mm	38.87 mt.
9	Size of assembly lowering	300mmø x 200 mmø
10	Static Water level	8.75 mts.

Detail of Strata

From (m)	To (m)	Thick (m)	Desperation of the Strata
0	66	66	Clay Kankar
66	84	18	Clay
84	90	6	Clay Kankar
90	108	18	Clay
108	120	12	Clay Kankar
120	144	24	Clay
144	156	12	Kankar with Clay
156	174	18	Clay
174	180	6	Very- Very Fine Sand
180	216	36	Clay
216	222	6	Fine Sand
222	228	6	Very Fine Sand
228	234	6	Clay
234	258	24	Fine Sand
258	270	12	Medium to Fine Sand
270	280	10	Clay

Logging Report

Date 27-03-2015

Sl.N.	Depth Range (mbgl)	Thicknees (m)	Remark
1	50.0 - 55.0	5.0	Good All
2	70.0 – 75.0	5.0	
3	82.0 – 86.0	4.0	
4	96.0 – 100.0	4.0	
5	195.0 – 205.	10.0	
6	214.0 – 230.0	16.0	
7	235.0 – 248.0	13.0	
8	250.0 – 265.0	15.0	

TEST REPORT OF T.W. DEVOLOPMENT BY AIR COMPRESSOR

Date of Test 07-05-2015

Sl. No	Air line Lower in mtr.	Pressure in kg/cm²		Depression		Discharge through 90° V-notch		Sand contents in P.P.M.							Remark
									After						
		Starting	Running	In kg/cm²	In mtr	In cm. Inches	In L.P.M	Starting	5 Min	10 Min	15 Min	20 Min	25 Min	30 Min	
1	219	22.5	21	1.5	15	9"	2107	7500	3500	2500	1500	1000	900	900	

Note- Recommended for development by O.P. unit

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

Date of Test 01-10-2015

Sl.No.	Discharge By 6"x5" orifice pipe		S.W.L In Mts.	R.W.L In Mts.	Depression in Mts.	Sand contents in P.P.M.							Remark
							After						
	Inche	L.P.M				Starting	5 Min	10 Min	15 Min	20 Min	25 Min	30Min	
1	20"	2074	8.75	20.05	11.30	2200	500	300	200	150	100	100	
2	15"	1816	8.75	1765	8.90	1500	400	250	200	150	75	50	
3	10½"	1521	8.75	15.90	7.15	900	150	100	50	Tr	Tr	Tr/Cl	
4	7"	1241	8.75	14.55	5.80	450	75	Tr	Tr/Cl	Cl	Cl	Cl	

Note- Recommended discharge 1200 LPM at 5.80m. depression pump should be run for 20 minutes through the bypass after starting the pump.

(M/S. Shiv Drillers)
Kolkata
Contractor

(Surendra Yadav)
Junior Engineer

(J.K. Gupta)
Assistant Engineer

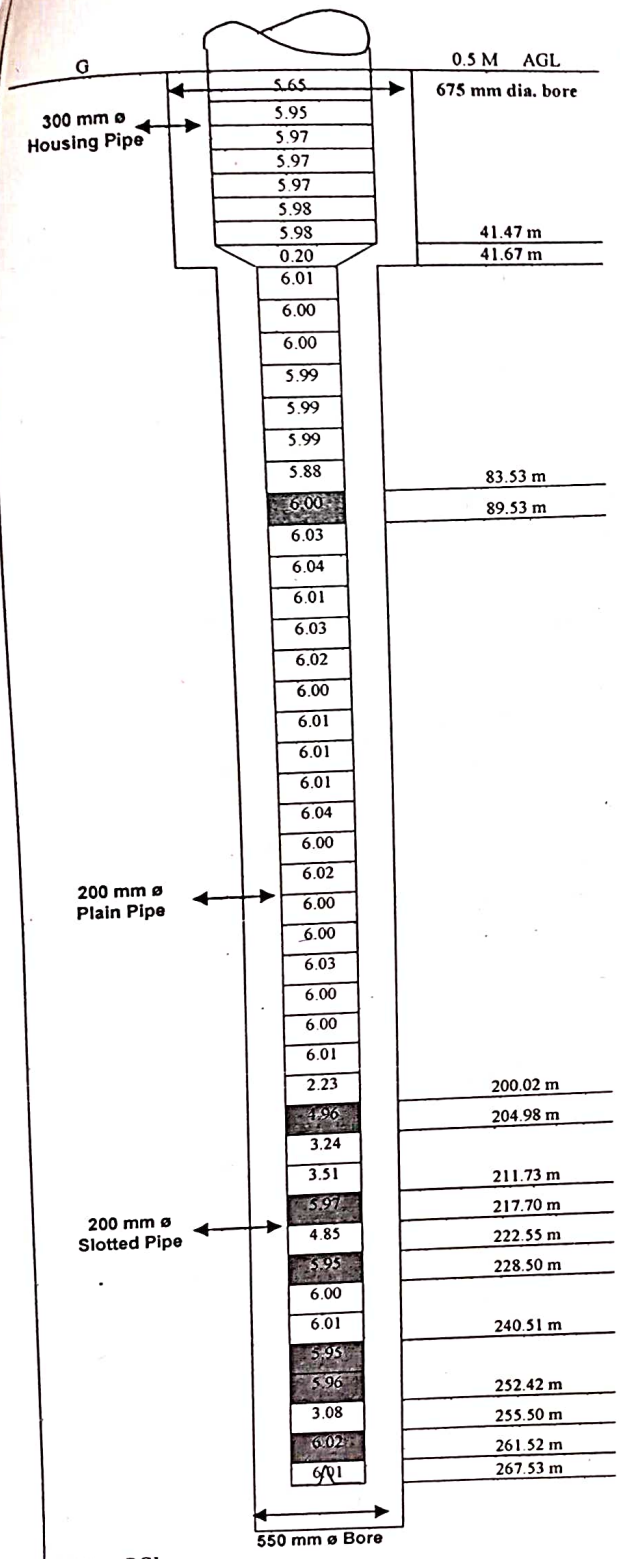
(N.A. Khan)
Executive Engineer

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 Kurthijafarpur T.W. No.-3 water supply scheme, Block- Kopaganj , District- Mau.

(Not to Scale)

Detail of Strata



AGL + BGL
0.5 + 267.53 = 268.03 mts.

Detail of Lowering

1	Drilling depth	290 mts
2	Drilling by contractor	D.C. Rig M/C
3	Drilling started on	12-05-2015
4	Drilling completed on	02-06-2015
5	Date of lowering	03-06-2015
6	Total housing pipe dia 300 mm	41.97 mt.
7	Total Plain pipe dia 200 mm	185.05 mt.
8	Total Slotted pipe dia 200mm	40.81 mt.
9	Size of assembly lowering	300mmø x 200 mmø
10	300mmø x 200 mmø M.S. Reduser	0.20 mt

Detail of Strata

From (m)	To (m)	Thick (m)	Desperation of the Strata
0	6	6	Surface Clay
6	38	32	Very-Very Fine Sand
38	44	6	Clay with Kankar
44	51	7	Kankar with Clay
51	57	6	Clay
57	64	7	Very fine Sand with Clay
64	77	13	Clay Kankar
77	83	6	Clay
83	90	7	Very- Very Fine Sand with Kankar
90	96	6	Clay with Very-Very Fine Sand
96	103	7	Very-Very Fine Sand
103	109	6	Very-Very Fine Sand with Clay
109	116	7	Clay Kankar
116	200	84	Clay
200	206	6	Fine Sand with Kankar
206	212	6	Very- Very Fine Sand with Kankar
212	219	7	Very-Very Fine Sand
219	225	6	Clay Kankar
225	232	7	Very- Very Fine Sand with Kankar Clay
232	245	13	Clay
245	251	6	Kankar Clay
251	258	7	Very- Very Fine Sand with Kankar
258	264	6	Fine Sand
264	275	11	Very- Very Fine Sand with Kankar Clay

Logging Report

Date 22-05-2015

Sl.N.	Depth Range (mbgl)	Thicknees (m)	Remark
1	72.0 – 76.0	4.0	Good All
2	83.0 – 90.0	7.0	
3	190.0 – 197.0	7.0	
4	200.0 – 205.0	5.0	
5	210.0 – 219.0	9.0	
6	221.0 – 228.0	7.0	
7	240.0 – 253.0	13.0	
8	255.0 – 262.0	7.0	

TEST REPORT OF T.W. DEVOLOPMENT BY AIR COMPRESSOR

Date of Test 07-07-2015

Sl. No	Air line Lower in mtr.	Pressure in kg/cm²		Depression		Discharge through 90° V- notch		Sand contents in P.P.M.							Remark
									After						
		Starting	Running	In kg/cm²	In mtr.	In cm. / Inches	In L.P.M.	Starting	5 Min	10 Min	15 Min	20 Min	25 Min	30 Min	
1	216	22.0	20.9	1.10	11	9"	2110	6500	2800	2100	1400	900	800	800	

Note- Recommended for development by O.P. unit

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

Date of Test 02-09-2015

Sl.No.	Discharge By 6"x5" orifice pipe		S.W.L In Mts.	R.W.L In Mts.	Depression in Mts.	Sand contents in P.P.M.							Remark
							After						
	Inches	L.P.M.				Starting	5 Min	10 Min	15 Min	20 Min	25 Min	30 Min	
1	20"	2074	8.90	20.05	11.15	2000	500	250	150	100	100	50	
2	15"	1816	8.90	17.90	9.00	1600	400	200	100	50	50	Tr	
3	10"	1487	8.90	15.80	6.90	1000	150	100	50	Tr	Tr/Cl	Cl	
4	7"	1241	8.90	14.15	5.25	400	50	Tr	Tr/Cl	CL	Cl	Cl	

Note- Recommended discharge 1200 LPM at 5.25 m. depression pump should be run for 20 minutes through the by pass after starting the pump.

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