

Well No:	
District:	Punchogar
Upazilla:	Atouary
Union:	Dhamor
Mouza:	Puraton Atouary
J.L.No:	7
Plot No:	21

Drilling Contractor

M/S BuLu Machineries
College Road, Thakurgaon.

DRILLING LOG

Date started 27-02-09 at 08-30 hrs; Date completed 28-02-09 at 12-00 hrs
 Logged by Md. Enamul Haque, SAE; Rod length 3.00 M.

Drilling time log			Graphic log	Thickness (M.)		Description of formation	
rod	from	to		from	to		
0	8.30			0.000		Clay	
					6.10		
				6.10		Fine sand	
					12.20		
				12.20		Coarse sand	
					21.34		
				21.34	22.87		Clay
				22.87		Medium sand	
					36.59		
				36.59			Medium to coarse sand
					48.78		
	48.78	51.82		Coarse sand with gravels			
18		12.00		51.82		Stone	

ASST. Engr. (সহ ইঞ্জিনিয়ার)
Date: (তারিখ)

For the Contractor
Date: 10/10/2018



Project :

**BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY,
RAJSHAHI.**

Engineer

Barind Multipurpose
Development Authority.

Drilling Contractor

M/S BuLu Machineries
College Road, Thakurgaon.

Well No :

District :

Upazilla :

Union :

Mouza :

J.L No. :

Plot No. :

Punchogar

Atouary

Dhamor

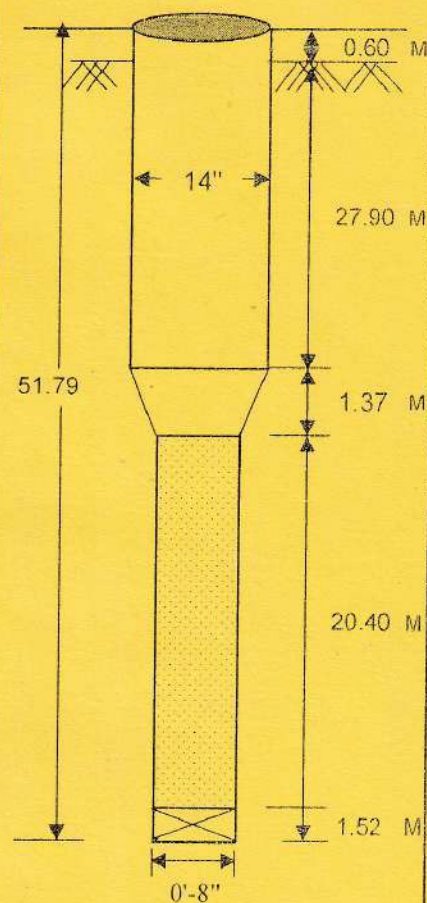
Puraton Atouary

7

21

CONSTRUCTION DETAILS.

Operation	Started	Completed	
Drilling	27.02.09 At 8.30	28.02.09 At 12.00	
Casing	28.02.09 At 13.30	28.02.09 At 17.30	
Gravel placing	28.02.09 At 18.30	28.02.09 At 21.30	
Drilling Diameter :	14" / 22" / 24" / 44"		
Housing pipe diameter :	14" (Mild Steel / PVC)		
UWC	0.60 M. above G.L.		
UWC Including Reducer	29.27 M. bellow G.L.		
Lapping (With Reducer) - 1.65 M.		Total Fixture length (M.) :	29.87
LWC (Diameter 08'-0" Inch)		(Mild Steel / PVC)	
Depth bellow G.L. : From : 0.00		M. To 0.00 M.	0.00
From : 0.00		M. To 0.00 M.	0.00
Lapping- -----		Total Fixture length (M.) :	0.00
Screen (Diameter 0'-8" Inch)	(SS/ F.G / L.C.S / PVC)		
Depth bellow G.L. : From : 29.27		M. To 49.67 M.	20.40
From : 0.00		M. To 0.00 M.	0.00
Lapping- 0.60 M.		Total Fixture length (M.) :	20.40
Bail plug (Diameter 0'-8" Inch)	(SS/ F.G / L.C.S / PVC)		
Depth bellow G.L. : From : 49.67		M. To 51.19 M.	1.52
Centralizers :			
Depth bellow G.L. At : 49.67, 43.82, 37.97, 32.12, 29.27 M.		Total Number :	5 Nos.
Gravel :			
Gravell Quantity (Approximately) :		11.03 Cum.	
Depth bellow G.L. At : From : 0		M. To 52.00 M.	
		Total Quantity :	11.03 Cum.
Fixture Length (Excluding lapping of Joint).			
From up to UWC to bottom of Bail Plug.		Total Fixture length (M.) :	51.79 M.
Verticality Test :			
Maximum Deviation : 36.350 MM at 27 M. Depth.			
Date : 28.02.09			
From G.L to Bottom of Bail Plug packing with Gravels			
Material Used :			
Housing (Including Reducer) + Well Screen + Bail Plug =		31.52 M. + 0.00M + 21.00 M. + 1.52 M. = 54.04 M.	
Lapping :			
Housing (Including Reducer) + Well Screen + Bail Plug =		1.65 M. + 0.00 + 0.60M + 0.00M. = 2.25 M.	

**Cross section of the Well.
(Not to scale).**Ordered depth : 51.19
(From G.L to Bottom of Bail Plug)Sr. / Sub Assistant Engineer
B.M.D.A, Unit-2
Atouary Zone, PunchogarAssistant Engineer
B.M.D.A, Unit-2
Atouary Zone, Punchogar

For the Contractor



BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY
RAJSHAHI

DEVELOPMENT RECORD

(Period: 2 hour)

Page No-1

Date: 01/03/09	Well No:
Starting time 07-00 hrs 00 minute, Capacity of pump 0.085 cum/s.	District: Punchogar
Ref. Mark (Top of housing).....0.60.....M. above G.L.	Upazilla: Atouary
Static water Level 5.550 M. below top of Housing pipe.	Union: Dhamor
Size of Orifice...125MM. Size of delivery pipe150MM	Mouza: Puraton Atouary
Length of UWC 28.50 M Depth of pump setting 22.25 M	J.L.No: 7
	Plot No: 21

Time	Piezometric Height (mm)	Discharge (cum/s)	Pumping Water Level below Reference Mark(m.)	Actual Draw-Down (m.)	Remarks
00mn (8 hrs)	0	0.000	5.550		50% Discharge
05 mn	343	0.029	8.107	2.557	
10 mn	343	0.029	8.207	2.657	
15 mn	343	0.029	8.267	2.717	
20 mn	343	0.029	8.312	2.762	
25 mn	343	0.029	8.337	2.787	
30 mn	343	0.029	8.347	2.797	
35 mn	1346	0.057	10.688	5.138	100% Discharge
40 mn	1346	0.057	10.793	5.243	
45 mn	1346	0.057	10.878	5.328	
50 mn	1346	0.057	10.953	5.403	
55 mn	1346	0.057	11.003	5.453	
60 mn	1346	0.057	11.033	5.483	
65 mn	1346	0.057	11.048	5.498	
70 mn	2134	0.071	12.224	6.674	125% Discharge
80 mn	2134	0.071	12.339	6.789	
90 mn	2134	0.071	12.399	6.849	
100 mn	2870	0.085	13.545	7.995	150% Discharge
110 mn	2870	0.085	13.670	8.120	
120 mn (2 hrs)	2870	0.085	13.750	8.200	

1 cusec= 28.32 LPS=0.02832 cum/s

SSAE/SAE (আব্দুল মান্নান)

Date 06.12.09
উপ-সহকারী প্রকৌশলী
আব্দুল মান্নান, ইউনিট-২
আটোয়ারী জোন, পঞ্চগড়।

ASST. Engr

Date 06/12/09
আটোয়ারী জোন, পঞ্চগড়।

For the Contractor

Date 06.12.09



BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY
RAJSHSHI

INSPECTION OF VERTICALITY OF THE TUBEWELL

After Shrouding

- 1 Well No:
- 2 District: Punchagor
- 3 Upazilla: Atouary
- 4 Union: Dhamor
- 5 Mouza: Puraton Autoary
- 6 J.L. No: 7
- 7 Plot No: 21
- 8 Total Length of tubewell: 51.79 M.
- 9 Length of UWC (Excluding Reducer): 28.50M. Date: 28.02.09
- 10 Name of Sinking Contractor: **M/S BULU MACHINERIES,**
COLLEGE ROAD, THAKURGAON.

Suspension Hight (H) 3.00 M..

Dia of UWC, d1 355.60M.M
Dia of UWC, d2 342.90M.M

Depth in m L	Deviation in mm X	Bearing reading pointing North	Calculated Deviation in mm $\frac{X(L+H)}{D' = H}$	Disc factor $\frac{d1-d2}{C = 2}$	Deviation in mm D= D'+C
3	0	-	0.000	6.350	6.350
6	1	S	3.000	6.350	9.350
9	1	S	4.000	6.350	10.350
12	2	S	10.000	6.350	16.350
15	2	S	12.000	6.350	18.350
18	1	S	7.000	6.350	13.350
21	1	S	8.000	6.350	14.350
24	3	S	27.000	6.350	33.350
27	3	S	30.000	6.350	36.350
30					
33					
36					
39					

- 11 Maximum Deviation: 36.350MM at depth 27.00 M.
- 12 Other observation, if any
- 13 Straightness : Dolly passed upto 28.50M freely in the UWC.

[Signature]
06.12.09
SSAE/SAE (দুলা মান্নান)
Date: 06.12.09
উপ-সহকারী প্রকৌশলী
বিএমডিএ, ইউনিট-২
আটোয়ারী জোন, পঞ্চগড়।

[Signature]
Asstt. Engr. (মুন্সুর ইসলাম)
Date: 06.12.09
উপ-সহকারী প্রকৌশলী
বিএমডিএ, ইউনিট-২
আটোয়ারী জোন, পঞ্চগড়।

[Signature]
For the Contractor.
Date: 06.12.09



BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY
RAJSHAHI

DEVELOPMENT RECORD

(Period: 2 hour)

Page No-1

Date: 01/03/09	Well No:
Starting time 07-00 hrs 00 minute, Capacity of pump 0.085 cum/s.	District: Punchogar
Ref. Mark (Top of housing).....0.60.....M. above G.L.	Upazilla: Atouary
Static water Level 5.550 M. below top of Housing pipe.	Union: Dhamor
Size of Orifice...125MM. Size of delivery pipe150MM	Mouza: Puraton Atouary
Length of UWC 28.50 M Depth of pump setting 22.25 M	J.L.No: 7
	Plot No: 21

Time	Piezometric Height (mm)	Discharge (cum/s)	Pumping Water Level below Reference Mark(m.)	Actual Draw-Down (m.)	Remarks
00mn (8 hrs)	0	0.000	5.550		50% Discharge
05 mn	343	0.029	8.107	2.557	
10 mn	343	0.029	8.207	2.657	
15 mn	343	0.029	8.267	2.717	
20 mn	343	0.029	8.312	2.762	
25 mn	343	0.029	8.337	2.787	
30 mn	343	0.029	8.347	2.797	
35 mn	1346	0.057	10.688	5.138	100% Discharge
40 mn	1346	0.057	10.793	5.243	
45 mn	1346	0.057	10.878	5.328	
50 mn	1346	0.057	10.953	5.403	
55 mn	1346	0.057	11.003	5.453	
60 mn	1346	0.057	11.033	5.483	
65 mn	1346	0.057	11.048	5.498	
70 mn	2134	0.071	12.224	6.674	125% Discharge
80 mn	2134	0.071	12.339	6.789	
90 mn	2134	0.071	12.399	6.849	
100 mn	2870	0.085	13.545	7.995	150% Discharge
110 mn	2870	0.085	13.670	8.120	
120 mn (2 hrs)	2870	0.085	13.750	8.200	

1 cusec= 28.32 LPS=0.02832 cum/s

SSAE/SAE (আব্দুল মান্নান)

Date 06.12.09
উপ-সহকারী প্রকৌশলী
আব্দুল মান্নান, ইউনিট-২
আটোয়ারী জোন, পঞ্চগড়।

ASST. Engr

Date 06/12/09
আটোয়ারী জোন, পঞ্চগড়।

For the Contractor

Date 06.12.09



BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY RAJSHAHI

RECOVERY RECORD

(Period: 1 hour)

Page No-2

Date: 01/03/09	Well No:
Starting time 09-00 hrs 00 minute,	District: Punchogar
Ref. Mark (Top of housing)... 0.60 M. above G.L.	Upazilla: Atouary
Static water Level 5.550M below top of Housing pipe.	Union: Dhamor
	Mouza: Puraton Atouary
	J.L. No: 7
	Plot No: 21

Time	Water Level below Reference Mark (M.)	Remarks
1	2	3
00 mn (2 hrs)	13.750	
01 mn	6.878	
02 mn	6.478	
03 mn	6.153	
04 mn	5.903	
05 mn	5.803	
07 mn	5.743	
09 mn	5.693	
11 mn	5.653	
13 mn	5.623	
15 mn	5.603	
20 mn	5.591	
25 mn	5.582	
30 mn	5.577	
40 mn	5.571	
50 mn	5.567	
60 mn (3 hours)	5.565	

06/12/09
SSAE/SAE মূল মানান
Date
সহকারী প্রকৌশলী
পঞ্চাঙ্গ, ইউনিট-২
আসসাফারী জোন, পঞ্চগড়।

03/12/09
ASST. Engr
Date
জি. এ. এ. ম. ইসলাম
সহকারী প্রকৌশলী
পঞ্চাঙ্গ, ইউনিট-২
আসসাফারী জোন, পঞ্চগড়।

বলু মে বনারীজ
For the Contractor
Date
০৩/১২/০৯



BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY
RAJSHAHI

SAND TEST RECORD

(Period: 1 hour)

Page No-3

Date: 01/03/09	Well No:
Starting time 10-00 hrs 00 minute, Capacity of pump 0.085 cum/s	District: Punchogar
Ref. Mark (Top of housing)..... 0.60 M..... above G.L.	Upazilla: Atouary
Static water Level... 5.550 M below top of Housing pipe.	Union: Dhamor
Size of Orifice... 125 MM. Size of delivery pipe..... 150 MM	Mouza: Puraton Atouary
Length of UWC... 28.50 M. Depth of pump setting 22.25 M.	J.L.No: 7
	Plot No: 21

Time	Pumping Water Level below Reference Mark (M.)	Sand content
1	2	3
00 mn (3 hrs)	5.565	N.B. Accepted sand content after 5 minutes 100ppm and after minutes-30ppm. Observed Result : (a) After 5 minute: 0 ppm (b) After 10 minute: Nil ppm
01 mn		
02 mn	13.150	
03 mn	13.270	
04 mn	13.370	
05 mn	13.450	
07 mn	13.510	
09 mn	13.560	
11 mn	13.600	
13 mn	13.630	
15 mn	13.650	
20 mn	13.665	
25 mn	13.675	
30 mn	13.683	
40 mn	13.689	
50 mn	13.694	
60 mn	13.697	
(4 hours)	13.700	

(Signature)
06/12/09
SSAE/SAE আব্দুল মান্নান
Date: ০৬-১২-০৯
বিশ্বাসযোগ্যতা, ইউনিট-২
আটোয়ারী জোন, পঞ্চগড়।

(Signature)
06/12/09
ASST. Engr. হাসানুল ইসলাম
Date: ০৬-১২-০৯
বিশ্বাসযোগ্যতা, ইউনিট-২
আটোয়ারী জোন, পঞ্চগড়।

(Signature)
কন্ট্রোল কন্ট্রোল
Date: ০৬-১২-০৯