



Project : Integrated Agriculture Development Project (IADP).

**BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY,
RAJSHAHI.**

DTW No : A-BMDA-
District : Panchagarh.
Upazilla : Atwari.
Union : Bolrampur.
Mouza : Duhusuh.
J.L No. : 52
Plot No. : 205

DRILLING LOG.

Engineer

BARIND MULTIPURPOSE DEVELOPMENT
AUTHORITY, RAJSHAHI.

Sinking & Drilling Contractor

M/s M.R drilling & Construction
Hazipara, Thakurgaon.

Date Strated : 21/02/15 At : 10.00 A.M Date completed : 25/02/15 At : 9.00 A.M Rod length : 3.00 Meter
Logged By : (Md. Golam Mostafa) Sub-Assistant Engineer B.M.D.A, Panchagarh Zone Panchagarh.

Drilling Time Log			Graphic Log	Thickness (Meter)		Description of Formation.	Remarks
Rod	From	To		From	To		
1	2	3	4	5	6	7	8
1	10.00			0	3	Hard Soil.	
				3	6	Fine Sand Grey with Stone Chips.	
				6	9		
				9	12		
				12	15		
				15	18		
				18	21		
				21	24		
				24	27	Fine Sand Grey.	
				27	30		
				30	33	Medium Sand Grey.	
				33	36	Coarse Sand Grey with Stone Chips.	
				36	39		
				39	42		
				42	45		
				45	48		
				48	51		
				51	54		
				54	57		
				57	60		
				60	63		
				63	66	Medium Sand Grey.	
		9.00		66	69		

(Md. Golam Mostafa)

Sub-Assistant Engineer
B.M.D.A, Panchagarh Zone
Panchagarh.

(Eng. Md. Faridul Islam)

Assistant Engineer
B.M.D.A, Panchagarh Zone
Panchagarh.

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DTW No : A-BMDA-

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J.L No. : 52

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CONSTRUCTION DETAILS.

Opearation	Started	Completed
Drilling	21/02/15 At 10.00	25/02/15 At 9.00
Casing	25/02/15 At 10.00	25/02/15 At 14.00
Gravel placing	25/02/15 At 14.30	25/02/15 At 16.30
Drilling Diameter	0.6096 Meter	

Housing pipe (Diameter) : 0.3556 Meter (Mild Steel / **PVC**)
UWC : uPVC 0.60 M. above G.L.
UWC Including Reducer : uPVC 31.50 M. bellow G.L.
Lapping (With Reducer) : **1.80 M.** **Total Fixture length (M.) :** **32.10**

LWC pipe (Diameter) : 0.203 Meter (Mild Steel / PVC)
Depth bellow G.L : From : PVC 31.50 M. To 31.50 M. **0.00**
From : PVC 31.50 M. To 31.50 M. **0.00**
Lapping : **0.00 M.** **Total Fixture length (M.) :** **0.00**

Screen pipe (Diameter) : 0.203 Meter (SS/ FG/ LCS/ **PVC Robo**)
Depth bellow G.L : From : PVC 31.50 M. To 61.50 M. **30.00**
From : PVC 61.50 M. To 61.50 M. **0.00**
Lapping : **0.00 M.** **Total Fixture length (M.) :** **30.00**

Bail plug (Diameter) : 0.203 Meter (SS/ FG/ LCS/ **PVC**)
Depth bellow G.L : From : PVC 61.50 M. To 63.02 M. **1.52**
End Cap : 0.203 Meter (SS/ FG/ LCS/ PVC)
Depth bellow G.L : From : 63.02 M. To 63.02 M. **0.00**

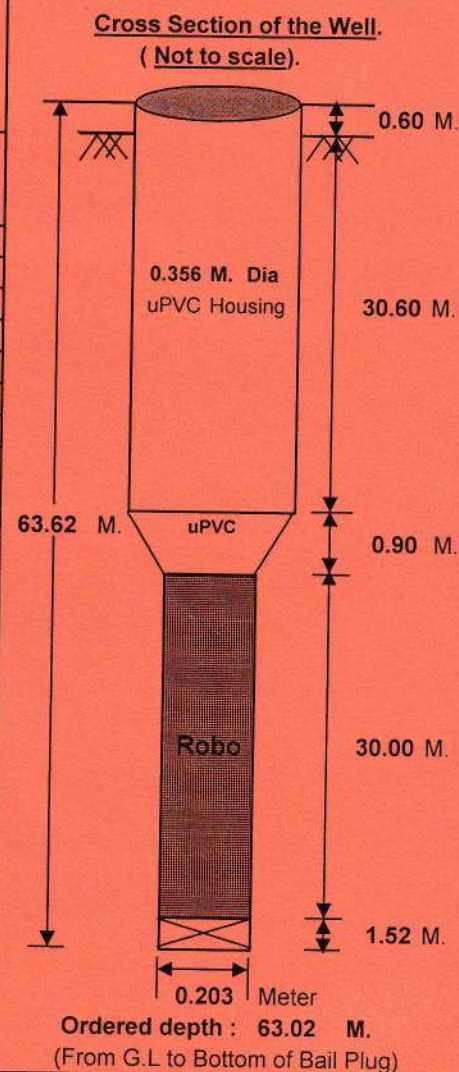
Centralizers :
Depth bellow G.L At : : 62 , 56 , 50 , 47 , 44 M.
Total Number : **5 Nos.**

Gravel :
Gravell Quantity (Approximately) : 15.160 Cum.
Depth bellow G.L At : From : 0.00 M. To 63.020 M.
Total Quantity : **15.160 Cum.**

Fixture Length (Excluding lapping of Joint).
From up to UWC bottom of Bail Plug. **Total Fixture length (M.) :** **63.62 M.**

Verticality Test :
Maximum Deviation : **4.305** Centimeter. at **21.00** Meter Depth.
Date : **25/02/15**

G.L হইতে Bell Plug এর তলা পর্যন্ত Gravells দ্বারা প্যাকিং সম্পন্ন করা হয়েছে।

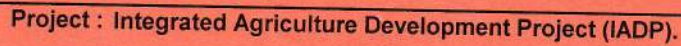


Material Used :
Housing (Inc.Reducer)+LWC (Blind Pipe)+Well Screen+Bail Plug = 33.90 M. + 0.00 M. + 30.00 M. + 1.52 M. = **65.42 M.**
Lapping :
Housing (Inc.Reducer)+LWC (Blind Pipe)+Well Screen+Bail Plug = 1.80 M. + 0.00 M. + 0.00 M. + 0.00 M. = **1.80 M.**

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Plot No.	: 205
<u>Before & After Shrouding.</u>	

Sinking & Drilling Contractor

M/s M.R drilling & Construction
Hazipara, Thakurgaon.

Before & After Shrouding.

- ## VERTICALITY DATA SHEET.

For The Contractor
M/s M.R drilling & Construction
Hazipara, Thakurgaon.



Project : Integrated Agriculture Development Project (IADP).

**BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY,
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DEVELOPMENT RECORD

(Preiod : 2.00 Hours)

DTW No : A-BMDA-

District : Panchagarh.

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Mouza : Duhusuh.

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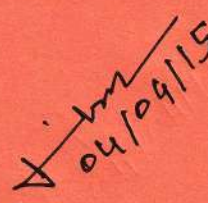
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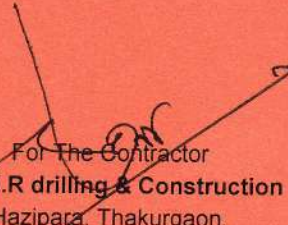
Date : 02/03/15
Startng Time : 7.00 hrs 0 minute, Capacity of Pump : 0.0850 Cumec.
Ref. Mark (Top of Housing) : 0.60 Meter above G.L.
Static Water Level : 3.862 Meter bellow top of Housing Pipe.
Size of Orifice : 0.125 Meter Size of Delivery Pipe : 0.150 Meter
Length of UWC : 31.20 Meter Depth of Pump Setting : 25.00 Meter

Time	Pizometric Height (Meter)	Discharge (Cumec.)	Pumping Water level bellow Reference Mark (Meter)	Actual Draw - Down (Meter)	Remarks.
1	2	3	4	5	6
00 mn (0.00 hrs)			3.862		50 % Discharge.
05 mn	0.3430	0.0288	8.460	4.599	
10 mn	0.3430	0.0288	8.486	4.624	
15 mn	0.3430	0.0288	8.537	4.675	
20 mn	0.3430	0.0288	8.587	4.726	
25 mn	0.3430	0.0288	8.613	4.751	
30 mn	0.3430	0.0288	8.664	4.802	0.0288 Cumec.
35 mn	1.3465	0.0566	12.626	8.764	100 % Discharge.
40 mn	1.3465	0.0566	12.652	8.790	
45 mn	1.3465	0.0566	12.677	8.815	
50 mn	1.3465	0.0566	12.715	8.853	
55 mn	1.3465	0.0566	12.753	8.892	
60 mn	1.3465	0.0566	12.779	8.917	
65 mn	1.3465	0.0566	12.830	8.968	0.0566 Cumec.
70 mn	2.1341	0.0708	15.283	11.421	125 % Discharge.
80 mn	2.1341	0.0708	15.333	11.471	
90 mn	2.1341	0.0708	15.372	11.510	0.0708 Cumec.
100 mn	2.8709	0.0850	17.200	13.338	150 % Discharge.
110 mn	2.8709	0.0850	17.251	13.389	
120 mn (2.00 hrs)	2.8709	0.0850	17.327	13.465	0.0850 Cumec.

1 Cumec. : 1000.00 LPS.


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**BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY,
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RECOVERY RECORD

(Preiod : 1.00 Hours)

DTW No : A-BMDA-
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Mouza : Duhusuh.
J.L No. : 52
Plot No. : 205
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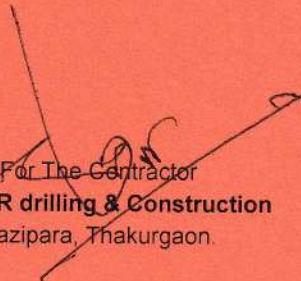
Date : 02/03/15
Srarting Time : 9.00 hrs 0 minute, Capacity of Pump : 0.085 Cumec.
Ref. Mark (Top of Housing) : 0.60 Meter above G.L.
Static Water Level : 3.862 Meter bellow top of Housing Pipe.
Size of Orifice : 0.125 Meter
Length of UWC : 31.20 Meter
Size of Delivery Pipe : 0.15 Meter
Depth of Pump Setting : 25.00 Meter

Time	Water level bellow Reference Mark (Meter)	Remarks.
1	2	3
00 mn (2.00 hrs)	17.327	
01 mn	4.675	
02 mn	4.548	
03 mn	4.497	
04 mn	4.446	
05 mn	4.370	
07 mn	4.294	
09 mn	4.230	
11 mn	4.192	
13 mn	4.141	
15 mn	4.090	
20 mn	4.065	
25 mn	4.014	
30 mn	3.989	
40 mn	3.976	
50 mn	3.951	
60 mn (3.00 hrs)	3.938	

1 Cumec. : 1000.00 LPS.


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**BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY,
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SAND TEST RECORD

(Preiod : 1.00 Hours)

DTW No : A-BMDA-

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Mouza : Duhusuh.

J.L No. : 52

Plot No. : 205

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Date : 02/03/15
 Startng Time : 10.00 hrs 0 minute, Capacity of Pump : 0.085 Cumec.
 Ref. Mark (Top of Housing) : 0.60 Meter above G.L.
 Static Water Level : 3.862 Meter bellow top of Housing Pipe.
 Size of Orifice : 0.125 Meter Size of Delivery Pipe : 0.15 Meter
 Length of UWC : 31.20 Meter Depth of Pump Setting : 25.00 Meter

Time	Water level bellow Refference Mark (Meter)	Sand Content	Remarks
1	2	3	4
00 mn (3.00 hrs)	3.938	N.B : Accepted sand content after 5 minutes. 100 ppm and after 10 minutes 30 ppm. Observed result : (a) After 5 minutes : <100..... ppm. (b) After 10 minutes : < 30..... ppm.	
01 mn	16.591		
02 mn	16.692		
03 mn	16.832		
04 mn	16.921		
05 mn	16.997		
07 mn	17.048		
09 mn	17.099		
11 mn	17.124		
13 mn	17.150		
15 mn	17.175		
20 mn	17.200		
25 mn	17.226		
30 mn	17.239		
40 mn	17.277		
50 mn	17.302		
60 mn (4.00 hrs)	17.365		

1 Cumec. : 1000.00 LPS.

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**BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY,
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DEVELOPMENT RECORD

(Preiod : 4.00 Hours) 150% Discharge.

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J.L No. : 52

Plot No. : 205

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Date : 02/03/15
 Starting Time : 11.00 hrs 0 minute, Capacity of Pump : 0.085 Cumec.
 Ref. Mark (Top of Housing) : 0.60 Meter above G.L.
 Static Water Level : 3.862 Meter bellow top of Housing Pipe.
 Size of Orifice : 0.125 Meter Size of Delivery Pipe : 0.15 Meter
 Length of UWC : 31.20 Meter Depth of Pump Setting : 25.00 Meter

Time	Pizometric Height (Meter)	Discharge (Cumec.)	Pumping Water level bellow Reference Mark (Meter)	Actual Draw - Down. (Meter)	Remarks.
1	2	3	4	5	6
00 mn (4.00 hrs)	2.8709	0.0850	17.365		Back Wash only 22 Time.
05 mn	2.8709	0.0850	16.896	13.034	
10 mn	2.8709	0.0850	17.022	13.161	
15 mn	2.8709	0.0850	17.124	13.262	
20 mn	2.8709	0.0850	17.226	13.364	
30 mn	2.8709	0.0850	17.277	13.415	
40 mn	2.8709	0.0850	17.302	13.440	
50 mn	2.8709	0.0850	17.327	13.465	
60 mn	2.8709	0.0850	17.353	13.491	
75 mn	2.8709	0.0850	17.378	13.516	
90 mn	2.8709	0.0850	17.391	13.529	
120 mn	2.8709	0.0850	17.403	13.542	
150 mn	2.8709	0.0850	17.429	13.567	
180 mn	2.8709	0.0850	17.442	13.580	
210 mn	2.8709	0.0850	17.454	13.593	
240 mn (8.00 hrs)	2.8709	0.0850	17.480	13.618	

1 Cumec. : 1000.00 LPS.

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**BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY,
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PUMP TEST RECORD

(Preiod : 1.00 Hours) 150% Discharge.

DTW No : A-BMDA-

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Mouza : Duhusuh.

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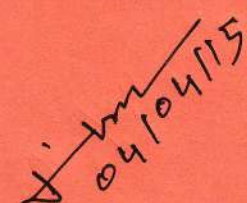
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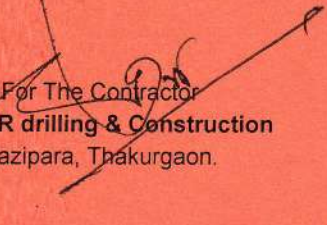
Date : 02/03/15
Starting Time : 15.00 hrs 0 minute, Capacity of Pump : 0.085 Cumec.
Ref. Mark (Top of Housing) : 0.60 Meter above G.L.
Static Water Level : 3.862 Meter bellow top of Housing Pipe.
Size of Orifice : 0.125 Meter Size of Delivery Pipe : 0.15 Meter
Length of UWC : 31.20 Meter Depth of Pump Setting : 25.00 Meter

Time	Pizometric Height (Meter)	Discharge (Cumec.)	Pumping Water level bellow Refference Mark (Meter)	Actual Draw - Down. (Meter)	Remarks.
1	2	3	4	5	6
00 mn (8.00 hrs)	2.8709	0.0850	17.480	13.618	
01 mn	2.8709	0.0850	17.480	13.618	
02 mn	2.8709	0.0850	17.480	13.618	
03 mn	2.8709	0.0850	17.480	13.618	
04 mn	2.8709	0.0850	17.480	13.618	
05 mn	2.8709	0.0850	17.480	13.618	
06 mn	2.8709	0.0850	17.480	13.618	
07 mn	2.8709	0.0850	17.480	13.618	
09 mn	2.8709	0.0850	17.480	13.618	
11 mn	2.8709	0.0850	17.480	13.618	
13 mn	2.8709	0.0850	17.480	13.618	
15 mn	2.8709	0.0850	17.480	13.618	
20 mn	2.8709	0.0850	17.480	13.618	
25 mn	2.8709	0.0850	17.492	13.631	
30 mn	2.8709	0.0850	17.492	13.631	
40 mn	2.8709	0.0850	17.492	13.631	
50 mn	2.8709	0.0850	17.492	13.631	
60 mn (9.00 hrs)	2.8709	0.0850	17.492	13.631	

1 Cumec. : 1000.00 LPS.


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**BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY,
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RECOVERY RECORD

(Preiod : 2.50 Hours) 150% Discharge.

DTW No : A-BMDA-

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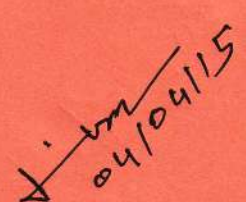
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Date : 02/03/15
Starting Time : 16.00 hrs 0 minute, Capacity of Pump : 0.085 Cumec.
Ref. Mark (Top of Housing) : 0.60 Meter above G.L.
Static Water Level : 3.862 Meter bellow top of Housing Pipe.
Size of Orifice : 0.125 Meter Size of Delivery Pipe : 0.15 Meter
Length of UWC : 31.20 Meter Depth of Pump Setting : 25.00 Meter

Time	Water level bellow Refference Mark (Meter)	Remarks.
1	2	3
00 mn (9.00 hrs)	17.492	Pumping discontinued.
02 mn	4.319	
04 mn	4.243	
06 mn	4.167	
08 mn	4.116	
10 mn	4.065	
15 mn	4.039	
20 mn	4.014	
25 mn	3.989	
30 mn	3.976	
40 mn	3.963	
50 mn	3.951	
60 mn	3.938	
75 mn	3.925	
90 mn	3.913	
105 mn	3.900	
120 mn	3.887	
135 mn	3.874	
150 mn (11.50 hrs)	3.864	

1 Cumec. : 1000.00 LPS.


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**BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY,
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MULTIPLE STEP TEST

(Preiod : 4.50 Hours)

DTW No : A-BMDA-

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Date : 02/03/15
 Startng Time : 18.50 hrs 0 minute, Capacity of Pump : 0.085 Cumec.
 Ref. Mark (Top of Housing) : 0.60 Meter above G.L.
 Static Water Level : 3.862 Meter bellow top of Housing Pipe.
 Size of Orifice : 0.125 Meter Size of Delivery Pipe : 0.15 Meter
 Length of UWC : 31.20 Meter Depth of Pump Setting : 25.00 Meter

Time	Pizometric Height (Meter)	Discharge (Cumec.)	Pumping Water level (Meter)	Actual Draw - Down (Meter)	Remarks.
1	2	3	4	5	6
00 mn (11.50 hrs)			3.864		100 % Discharge.
10 mn	1.3465	0.0566	12.677	8.815	
20 mn	1.3465	0.0566	12.703	8.841	
30 mn	1.3465	0.0566	12.728	8.866	
45 mn	1.3465	0.0566	12.804	8.942	
60 mn	1.3465	0.0566	12.830	8.968	
90 mn	1.3465	0.0566	12.830	8.968	0.0566 Cumec.
100 mn	2.1341	0.0708	15.295	11.434	125 % Discharge.
120 mn	2.1341	0.0708	15.308	11.446	
135 mn	2.1341	0.0708	15.321	11.459	
150 mn	2.1341	0.0708	15.372	11.510	
180 mn	2.1341	0.0708	15.422	11.561	
190 mn	2.8709	0.0850	17.200	13.338	
200 mn	2.8709	0.0850	17.226	13.364	150 % Discharge.
210 mn	2.8709	0.0850	17.276	13.414	
225 mn	2.8709	0.0850	17.327	13.466	
240 mn	2.8709	0.0850	17.353	13.491	
270 mn (16.00 hrs)	2.8709	0.0850	17.378	13.516	
					0.0850 Cumec.

Static Water Level (S.W.L)	: 3.862 Meter	or 12.667 Feet.
Pumping Water Level (P.W.L)	: 17.378 Meter	or 57.000 Feet.
Final Discharge	: 0.085 Cumec.	or 3.000 Cusec.
Specific Draw Down	: 159.015 Meter / Cumec.	or 14.778 Feet. / Cusec.

(Signature)
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 For The Contractor
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