

DTW No	: A-BMDA-
District	: Panchagarh.
Upazilla	: Atwari.
Union	: Mirzapur
Mouza	: Jhalihali

Sinking & Drilling Contractor

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

J.L No.	: 23
Plot No.	: 87

DRILLING LOG.

Date Strated	: 01/01/15	At	: 10.00 A.M	Date completed	: 05/01/15	At	: 9.00 A.M	Rod length	: 3.00	Meter
Logged By	: (Md. Golam Mostafa)			Sub-Assistant Engineer		B.M.D.A, Atwary Zone		Panchagarh.		

(Md. Golam Mostafa)
Sub-Assistant Engineer
B.M.D.A. Atwary Zone
Panchagarh.

(Eng. Md. Faridul Islam)
Assistant Engineer
B.M.D.A. Atwary Zone
Panchagarh.

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



Project : Integrated Agriculture Development Project (IADP).

BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY, RAJSHAHI.

Engineer

BARIND MULTIPURPOSE DEVELOPMENT
AUTHORITY, RAJSHAHI.

Sinking & Drilling Contractor

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

DTW No : A-BMDA-
District : Panchagarh.
Upazilla : Atwari.
Union : Mirzapur
Mouza : Jhaljhal
J.L No. : 23
Plot No. : 876

CONSTRUCTION DETAILS.

Operation	Started	Completed
Drilling	01/01/15 At 10.00	05/01/15 At 9.00
Casing	05/01/15 At 10.00	05/01/15 At 14.00
Gravel placing	05/01/15 At 14.30	05/01/15 At 16.30
Drilling Diameter	0.6096 Meter	

Housing pipe (Diameter) : 0.3556 Meter (**Mild Steel** / PVC)
UWC : M.S 0.60 M. above G.L.
UWC Including Reducer : M.S 33.40 M. bellow G.L.
Lapping (With Reducer) : **0.00** M. **Total Fixture length (M.) :** **34.00**

LWC pipe (Diameter) : 0.203 Meter (Mild Steel / PVC)
Depth bellow G.L : From : PVC 33.40 M. To 33.40 M. **0.00**
From : PVC 33.40 M. To 33.40 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 33.40 M. To 57.40 M. **24.00**
From : PVC 57.40 M. To 57.40 M. **0.00**
Lapping : **0.00** M. **Total Fixture length (M.) :** **24.00**

Bail plug (Diameter) : 0.203 Meter (SS/ FG/ LCS/ **PVC**)
Depth bellow G.L : From : PVC 57.40 M. To 58.92 M. **1.52**
End Cap : 0.203 Meter (SS/ FG/ LCS/ **PVC**)
Depth bellow G.L : From : 58.92 M. To 58.92 M. **0.00**

Centralizers :
Depth bellow G.L At : : 57 , 51 , 45 , 42 , 39 M.
Total Number : **5 Nos.**

Gravel :
Gravell Quantity (Approximately) : 13.535 Cum.
Depth bellow G.L At : From : 0.00 M. To 58.920 M.
Total Quantity : **13.535 Cum.**

Fixture Length (Excluding lapping of Joint).
From up to UWC bottom of Bail Plug. **Total Fixture length (M.) :** **59.52 M.**

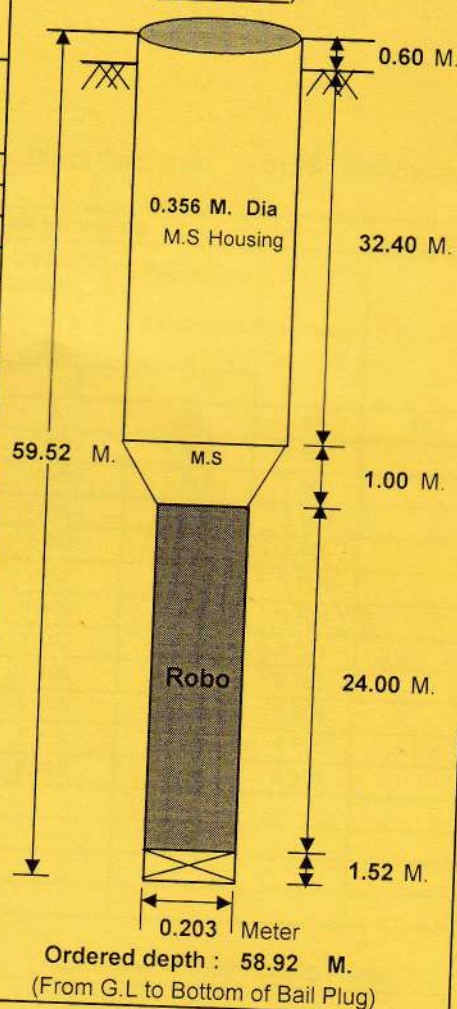
Verticality Test :
Maximum Deviation : **4.305** Centimeter. at **33.00** Meter Depth.
Date : **05/01/15**

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 = 34.00 M. + 0.00 M. + 24.00 M. + 1.52 M. = **59.52 M.**
Lapping :
Housing (Inc.Reducer)+LWC (Blind Pipe)+Well Screen+Bail Plug = 0.00 M. + 0.00 M. + 0.00 M. + 0.00 M. = **0.00 M.**

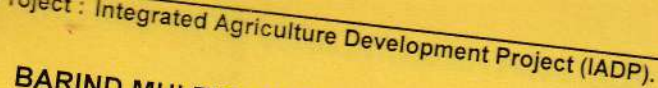
Cross Section of the Well. (Not to scale).



(**Mo. Golam Mostafa**)
Sub-Assistant Engineer
B.M.D.A. Atwari Zone
Panchagarh.

(**Eng. Md. Faridul Islam**)
Assistant Engineer
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Panchagarh.

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



BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY,
RAJSHAHÍ.

Engineer

BARIND MULTIPURPOSE DEVELOPMENT
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Sinking & Drilling Contractor

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Hazipara, Thakurgaon.

DTW No	: A-BMDA-
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Union	: Mirzapur
Mouza	: Jhaljhal
J.L No.	: 23
Plot No.	: 876

Before & After Shrouding.

- 1 Total Length of Deep Tube Well
- 2 Length of UWC (Excluding Reducer)

59.52 Meter

33.00 Meter

Date : 05/01/15

VERTICALITY DATA SHEET.

Suspension of Height (H) : 3.00 Meter

Dia of UWC : d-1: **35.56** Centimeter.

Dia of Disc : d -2: **31.75** Centimeter.

W B DTW Tech, Paper-13-14-A-BMDA-Jhaljhal-23-876./Normal Design.

(Md. Golam Mostafa)
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Hazipara, Thakurgaon.



Project : Integrated Agriculture Development Project (IADP).

**BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY,
RAJSHAHI.**

DEVELOPMENT RECORD

(Preiod : 2.00 Hours)

DTW No : A-BMDA-

District : Panchagarh.

Upazilla : Atwari.

Union : Mirzapur

Mouza : Jhaljhali

J.L No. : 23

Plot No. : 876

Page No : 1

Date : 08/01/15
 Starting Time : 8.00 hrs 0 minute, Capacity of Pump : 0.0850 Cumec.
 Ref. Mark (Top of Housing) : 0.60 Meter above G.L.
 Static Water Level : 3.404 Meter bellow top of Housing Pipe.
 Size of Orifice : 0.125 Meter Size of Delivery Pipe : 0.150 Meter
 Length of UWC : 33.00 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)			3.404		50 % Discharge.
05 mn	0.3430	0.0288	9.044	5.640	
10 mn	0.3430	0.0288	9.070	5.665	
15 mn	0.3430	0.0288	9.121	5.716	
20 mn	0.3430	0.0288	9.171	5.767	
25 mn	0.3430	0.0288	9.197	5.792	
30 mn	0.3430	0.0288	9.248	5.843	0.0288 Cumec.
35 mn	1.3465	0.0566	15.726	12.322	100 % Discharge.
40 mn	1.3465	0.0566	15.751	12.347	
45 mn	1.3465	0.0566	15.777	12.372	
50 mn	1.3465	0.0566	15.815	12.411	
55 mn	1.3465	0.0566	15.853	12.449	
60 mn	1.3465	0.0566	15.878	12.474	
65 mn	1.3465	0.0566	15.929	12.525	0.0566 Cumec.
70 mn	2.1341	0.0708	19.245	15.841	125 % Discharge.
80 mn	2.1341	0.0708	19.296	15.891	
90 mn	2.1341	0.0708	19.334	15.930	0.0708 Cumec.
100 mn	2.8709	0.0850	21.900	18.496	150 % Discharge.
110 mn	2.8709	0.0850	21.951	18.547	
120 mn (2.00 hrs)	2.8709	0.0850	22.027	18.623	0.0850 Cumec.

1 Cumec. : 1000.00 LPS.

(Md. Golam Mostafa)
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 Panchagarh.

(Eng. Md. Faridul Islam)
 Assistant Engineer
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 Panchagarh.

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



Project : Integrated Agriculture Development Project (IADP).

**BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY,
RAJSHAHI.**

RECOVERY RECORD

(Preiod : 1.00 Hours)

DTW No : A-BMDA-

District : Panchagarh.

Upazilla : Atwari.

Union : Mirzapur

Mouza : Jhaljhal

J.L No. : 23

Plot No. : 876

Page No : 2

Date : 08/01/15
Starting 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 : 3.404 Meter bellow top of Housing Pipe.
Size of Orifice : 0.125 Meter Size of Delivery Pipe : 0.15 Meter
Length of UWC : 33.00 Meter Depth of Pump Setting : 25.00 Meter

Time	Water level bellow Reference Mark (Meter)	Remarks.
1	2	3
00 mn (2.00 hrs)	22.027	
01 mn	4.218	
02 mn	4.090	
03 mn	4.040	
04 mn	3.989	
05 mn	3.913	
07 mn	3.837	
09 mn	3.773	
11 mn	3.735	
13 mn	3.684	
15 mn	3.633	
20 mn	3.608	
25 mn	3.557	
30 mn	3.532	
40 mn	3.519	
50 mn	3.493	
60 mn (3.00 hrs)	3.481	

1 Cumec. : 1000.00 LPS.

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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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SAND TEST RECORD

(Preiod : 1.00 Hours)

DTW No : A-BMDA-
District : Panchagarh.
Upazilla : Atwari.
Union : Mirzapur
Mouza : Jhaljhali
J.L No. : 23
Plot No. : 876
Page No : 3

Date : 08/01/15
Starting Time : 11.00 hrs 0 minute,
Ref. Mark (Top of Housing) : 0.60 Meter above G.L.
Static Water Level : 3.404 Meter bellow top of Housing Pipe.
Size of Orifice : 0.125 Meter
Length of UWC : 33.00 Meter
Capacity of Pump : 0.085 Cumec.
Size of Delivery Pipe : 0.15 Meter
Depth of Pump Setting : 25.00 Meter

Time	Water level bellow Reference Mark (Meter)	Sand Content	Remarks
1	2	3	4
00 mn (3.00 hrs)	3.481	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	21.291		
02 mn	21.392		
03 mn	21.532		
04 mn	21.621		
05 mn	21.697		
07 mn	21.748		
09 mn	21.799		
11 mn	21.824		
13 mn	21.850		
15 mn	21.875		
20 mn	21.901		
25 mn	21.926		
30 mn	21.939		
40 mn	21.977		
50 mn	22.002		
60 mn (4.00 hrs)	22.066		

1 Cumec. : 1000.00 LPS.

(Md. Golam Mostafa)
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Panchagarh.

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



Project : Integrated Agriculture Development Project (IADP).

**BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY,
RAJSHAHI.**

DEVELOPMENT RECORD

(Preiod : 4.00 Hours) 150% Discharge.

DTW No : A-BMDA-

District : Panchagarh.

Upazilla : Atwari.

Union : Mirzapur

Mouza : Jhaljhali

J.L No. : 23

Plot No. : 876

Page No : 4

Date : 08/01/15
Srarting Time : 12.00 hrs 0 minute, Capacity of Pump : 0.085 Cumec.
Ref. Mark (Top of Housing) : 0.60 Meter above G.L.
Static Water Level : 3.404 Meter bellow top of Housing Pipe.
Size of Orifice : 0.125 Meter Size of Delivery Pipe : 0.15 Meter
Length of UWC : 33.00 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 (4.00 hrs)	2.8709	0.0850	22.066		Back Wash only 22 Time.
05 mn	2.8709	0.0850	21.596	18.191	
10 mn	2.8709	0.0850	21.723	18.318	
15 mn	2.8709	0.0850	21.824	18.420	
20 mn	2.8709	0.0850	21.926	18.521	
30 mn	2.8709	0.0850	21.977	18.572	
40 mn	2.8709	0.0850	22.002	18.598	
50 mn	2.8709	0.0850	22.027	18.623	
60 mn	2.8709	0.0850	22.053	18.648	
75 mn	2.8709	0.0850	22.078	18.674	
90 mn	2.8709	0.0850	22.091	18.686	
120 mn	2.8709	0.0850	22.104	18.699	
150 mn	2.8709	0.0850	22.129	18.725	
180 mn	2.8709	0.0850	22.142	18.737	
210 mn	2.8709	0.0850	22.155	18.750	
240 mn (8.00 hrs)	2.8709	0.0850	22.180	18.775	

1 Cumec. : 1000.00 LPS.

(Md. Golam Mostafa)

Sub-Assistant Engineer

B.M.D.A. Atwari Zone

Panchagarh.

(Eng. Md. Faridul Islam)

Assistant Engineer

B.M.D.A. Atwari Zone

Panchagarh.

For The Contractor

M/s M.R drilling & Construction

Hazipara, Thakurgaon.



Project : Integrated Agriculture Development Project (IADP).

**BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY,
RAJSHAHI.**

PUMP TEST RECORD

(Preiod : 1.00 Hours) 150% Discharge.

DTW No : A-BMDA-

District : Panchagarh.

Upazilla : Atwari.

Union : Mirzapur

Mouza : Jhaljhali

J.L No. : 23

Plot No. : 876

Page No : 5

Date : 08/01/15
Srarting 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 : 3.404 Meter bellow top of Housing Pipe.
Size of Orifice : 0.125 Meter Size of Delivery Pipe : 0.15 Meter
Length of UWC : 33.00 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 (8.00 hrs)	2.8709	0.0850	22.180	18.775	
01 mn	2.8709	0.0850	22.180	18.775	
02 mn	2.8709	0.0850	22.180	18.775	
03 mn	2.8709	0.0850	22.180	18.775	
04 mn	2.8709	0.0850	22.180	18.775	
05 mn	2.8709	0.0850	22.180	18.775	
06 mn	2.8709	0.0850	22.180	18.775	
07 mn	2.8709	0.0850	22.180	18.775	
09 mn	2.8709	0.0850	22.180	18.775	
11 mn	2.8709	0.0850	22.180	18.775	
13 mn	2.8709	0.0850	22.180	18.775	
15 mn	2.8709	0.0850	22.180	18.775	
20 mn	2.8709	0.0850	22.180	18.775	
25 mn	2.8709	0.0850	22.193	18.788	
30 mn	2.8709	0.0850	22.193	18.788	
40 mn	2.8709	0.0850	22.193	18.788	
50 mn	2.8709	0.0850	22.193	18.788	
60 mn (9.00 hrs)	2.8709	0.0850	22.193	18.788	

1 Cumec. : 1000.00 LPS.

(Md. Gofar Mostafa)
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Assistant Engineer
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Panchagarh.

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



Project : Integrated Agriculture Development Project (IADP).

**BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY,
RAJSHAHI.**

RECOVERY RECORD

(Preiod : 2.50 Hours) 150% Discharge.

DTW No : A-BMDA-
District : Panchagarh.
Upazilla : Atwari.
Union : Mirzapur
Mouza : Jhaljhal
J.L No. : 23
Plot No. : 876

Page No : 6

Date : 08/01/15
Starting Time : 17.00 hrs 0 minute, Capacity of Pump : 0.085 Cumec.
Ref. Mark (Top of Housing) : 0.60 Meter above G.L.
Static Water Level : 3.404 Meter bellow top of Housing Pipe.
Size of Orifice : 0.125 Meter Size of Delivery Pipe : 0.15 Meter
Length of UWC : 33.00 Meter Depth of Pump Setting : 25.00 Meter

Time	Water level bellow Reference Mark (Meter)	Remarks.
1	2	3
00 mn (9.00 hrs)	22.193	Pumping discontinued.
02 mn	3.862	
04 mn	3.786	
06 mn	3.709	
08 mn	3.659	
10 mn	3.608	
15 mn	3.582	
20 mn	3.557	
25 mn	3.532	
30 mn	3.519	
40 mn	3.506	
50 mn	3.493	
60 mn	3.481	
75 mn	3.468	
90 mn	3.455	
105 mn	3.443	
120 mn	3.430	
135 mn	3.417	
150 mn (11.50 hrs)	3.407	

1 Cumec. : 1000.00 LPS.

(Md. Golam Mostafa)
Sub-Assistant Engineer
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(Eng. Md. Faridul Islam)
Assistant Engineer
B.M.D.A, Atwari Zone
Panchagarh.

For The Contractor
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Project : Integrated Agriculture Development Project (IADP).

**BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY,
RAJSHAHI.**

MULTIPLE STEP TEST

(Preiod : 4.50 Hours)

DTW No : A-BMDA-

District : Panchagarh.

Upazilla : Atwari.

Union : Mirzapur

Mouza : Jhaljhal

J.L No. : 23

Plot No. : 876

Page No : 7

Date : 08/01/15
 Starting Time : 19.50 hrs 0 minute, Capacity of Pump : 0.085 Cumec.
 Ref. Mark (Top of Housing) : 0.60 Meter above G.L.
 Static Water Level : 3.404 Meter bellow top of Housing Pipe.
 Size of Orifice : 0.125 Meter Size of Delivery Pipe : 0.15 Meter
 Length of UWC : 33.00 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)			3.407		100 % Discharge.
10 mn	1.3465	0.0566	15.777	12.372	
20 mn	1.3465	0.0566	15.802	12.398	
30 mn	1.3465	0.0566	15.828	12.423	
45 mn	1.3465	0.0566	15.904	12.499	
60 mn	1.3465	0.0566	15.929	12.525	
90 mn	1.3465	0.0566	15.930	12.525	0.0566 Cumec.
100 mn	2.1341	0.0708	19.258	15.854	125 % Discharge.
120 mn	2.1341	0.0708	19.271	15.866	
135 mn	2.1341	0.0708	19.284	15.879	
150 mn	2.1341	0.0708	19.334	15.930	
180 mn	2.1341	0.0708	19.385	15.981	
190 mn	2.8709	0.0850	21.900	18.496	150 % Discharge.
200 mn	2.8709	0.0850	21.926	18.521	
210 mn	2.8709	0.0850	21.976	18.572	
225 mn	2.8709	0.0850	22.028	18.623	
240 mn	2.8709	0.0850	22.053	18.648	
270 mn (16.00 hrs)	2.8709	0.0850	22.078	18.674	0.0850 Cumec.

Static Water Level (S.W.L)	: 3.404 Meter	or 11.167 Feet.
Pumping Water Level (P.W.L)	: 22.078 Meter	or 72.417 Feet.
Final Discharge	: 0.085 Cumec.	or 3.000 Cusec.
Specific Draw Down	: 219.691 Meter / Cumec.	or 20.417 Feet. / Cusec.

(Md. Golam Mostafa)
 Sub-Assistant Engineer
 B.M.D.A. Atwari Zone
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(Eng. Md. Faridul Islam)
 Assistant Engineer
 B.M.D.A. Atwari Zone
 Panchagarh.

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



Project : Integrated Agriculture Development Project (IADP).

**BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY,
RAJSHAHI.**

COMPLETION CERTIFICATE OF PUMP HOUSE.

DTW No : A-BMDA-
District : Panchagarh.
Upazilla : Atwari.
Union : Mirzapur
Mouza : Jhaljhal
J.L No. : 23
Plot No. : 876

Page No : 8

Engineer BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY, RAJSHAHI.	Sinking & Drilling Contractor M/s M.R drilling & Construction Hazipara, Thakurgaon.	
Date of Starting : 10/01/15	Date of Completion : 05/02/15	

Certified that the contractor has completed the construction work of Pump House successfully at the above mentioned site as per specification in accordance with clause-8 of the General Specification and Special Terms & Conditions of contracts.

Following works have been completed specifically and checked the works personally.

SL. No.	Description of Works	Completed (Yes / No).	Remarks.
1	2	3	4
1	Plastering Work	Yes	
2	Slab Casting	Yes	
3	Roof Castig	Yes	
4	Discharge Box	No	
5	White Washing	Yes	
6	Lime Tracing / Bitumin emulsion	Yes	
7	Fitting of door made Metal sheet with proper paint	Yes	
8	Pump base	Yes	
9	R.C.C Beam	Yes	0' - 1 1/4" (Inch) dia Rod Hook used in R.C.C Beam.
10	Ditch filling or Site Development	Yes	
11	Lock and Key supply (2 Nos.)	Yes	
12			
13			

(মোঃ গোলাম মোস্তফা)
(Md. Golam Mostafa)
Sub-Assistant Engineer
B.M.D.A, Atwari Zone
Panchagarh.

(একৌঃ মোঃ ফরিদুল ইসলাম)
(Eng. Md. Faridul Islam)
Assistant Engineer
B.M.D.A, Atwari Zone
Panchagarh.

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