

শ্রী ১২২৫১২-০২ BMDA-০১



Project :

**BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY
RAJSHAHI.**

Well No.:

District : **Panchagarh**
Upazilla : **Atwari**

Union : **Rachanagar**

Mouza : **Maligaon**

J.L. No : **50**

Plot No : **100**

Engineer

Drilling Contractor

Barind Multipurpose
Development Authority

M/S. Sunley Engineers

DRILLING LOG

Date started **01/01/2005 8.00** hrs; Date completed **02/01/2005 10.00** hrs.

Logged by **SAE** Rod length **10** ft.

Drilling time log			Graphic log	Thickness (ft.)		Description of formation
rod	from	to		from	to	
10				0	5	Redish hard clay
				5	10	Brown med. sand
				10	20	Grey coarse sand
				20	30	Brown coarse sand
				30	40	Grey coarse sand with gravel
				40	50	Blakish plastic clay
				50	55	
				55	60	
				60	65	
				65	70	Light brown coarse sand
				70	80	Blakish plastic clay
				80	90	
				90	95	
				95	100	
				100	110	Grey med. sand.
				110	120	
				120	130	Grey coarse sand.
				130	140	
				140	150	Light brown coarse sand.
				150	160	
				160	170	
				170	180	Light brown coarse sand
				180	190	
				190	200	
				200	210	
				210	220	Brown coarse sand with gravel.
				220	Above	Stone

SSAE/SAE
Date

০২/০১/০৫

Asstt. Engr.

Date

০২/০১/০৫

For the Contractor

Date

০২/০১/০৫

7-BMDA2-252 (P-1)

বিস্তারিত, ইউনিট-২, আটোয়ারীজেলা, আটোয়ারী জোন, আটোয়ারী-১৩৩০।
আটোয়ারী, পঞ্চগড়।

M/S. Sunley Engineers
Nayanpur, P.O. Rajbati,
Dist. Dinajpur.



Project :

BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY
RAJSHAHI.

Well No :

District :

Panchagarh

Upazilla :

Atwari

Union :

Radhanagar

Mouza :

Maligaon

J.L. No. :

50

Plot No. :

100

Engineer :

Barind Multipurpose
Development Authority

Drilling Contractor :

M/S. Sunley Engineers

CONSTRUCTION DETAIL

Operation	Started	Completed
Drilling	01/1/05 8.00 HRS	2/1/05 10.00 HRS
Casing	31/12/04 10.00 HRS	31/12/04 3.00 HRS
Gravel Placing	02/1/05 11.00 HRS	2/1/05 9.00 HRS
Drilling Diameter: 14"/22"/24"/44"		
Housing Pipe (Dia 8"/14"): Mild Steel/PVC 14" dia PVC		
UWC	1'-6"	ft. above GL
UWC (incl. Reducer)	105	ft. below GL
Total length (ft.)		103'-6"
LWC (Dia inch): Mild Steel		
Depth below GL	From to ft.	-
	From to ft.	-
Total length (ft.)		-
Screen (Dia inch): SS/FG/PVC		
Depth below GL	From 103'-6" to 203'-6" ft.	100'-0"
	From to ft.	-
Total length (ft.)		100'-0"
Bail Plug (Dia inch)		
Depth below GL	From 203'-6" to 208'-6" ft.	5'-0"
Centralizers		
Depth below GL	103'-6", 123'-6", 143'-6", 163'-6", 183'-6", 203'-6"	
Total number		06 Nos.
Gravel :		
Gravel Quantity (approx)	421.85	cft.
Depth Below GL	From 1'-6" to 210'-0" ft.	421.85 cft.
Fixture Length		
	From top of UWC to bottom of Bail Plug	210 ft.
Verticality test :		
Max. Deviation	0.875 inch at 90 ft. depth	
Date 02/01/2005		

Cross Section of the well
(Not to scale)Ordered Depth 208'-6"
(From GL to bottom of
Bail Plug)S.SAE/SAE
Date 02/01/05Asstt. Engr.
Date 02/01/05For the Contractor
Date 02/01/05

Pro. Md. Shafiq Rahman

M/s. Sunley Engineers

Nayanpur, P.O. Farjati,

Dist. Dinalpur.

C:10-BMDA2119

(স্বাক্ষরিত)
সহকারী প্রকৌশলী
বিঃদ্রঃ, ইউনিট-২, আটোয়ারীজোড়,
আটোয়ারী, পঞ্চগড়।সহকারী প্রকৌশলী
বিঃদ্রঃ, ইউনিট-২
আটোয়ারী জোন, আটোয়ারী জোড়

**BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY
RAJSHAHI**

INSPECTION OF VERTICALITY OF THE TUBEWELL

Before Shrouding

1. Well No. :
2. District : **Panchagarh**
3. Upazilla : **Atwari**
4. Union : **Radhanagar**
5. Mouza : **Maligaon**
6. J.L. No. : **50**
7. Plot No. : **100**
8. Total Length of the Tubewell : **210'-0"**
9. Length of UWC (Excluding Reducer) **100'** ft. Date : **02/01/2005**
10. Name of Sinking Contractor : **M/S. Sunley Engineers.**

VERTICALITY DATA SHEET

Suspension Height (H) **10** ft. Dia of UWC, d_1 **14** inch
Dia of Disc, d_2 **13.5** inch

Depth in ft. L.	Deviation in inch X	Bearing Reading Pointing North	Calculated Deviation in inch $D' = \frac{X(L+H)}{H}$	Disc Factor $C = \frac{d_1 - d_2}{2}$	Deviation in inch $D = D' + C$
10'	0	N	0	0.25	0.25
20'	1/16	NE	0.187	0.25	0.437
30'	1/16	E	0.25	0.25	0.50
40'	1/8	SE	0.625	0.25	0.875
50'	1/8	S	0.75	0.25	1.00
60'	1/16	S	0.437	0.25	0.687
70'	1/16	SW	0.50	0.25	0.75
80'	0	SW	0	0.25	0.25
90'	1/16	SW	0.625	0.25	0.875
100'	1/16	SW	0.687	0.25	0.937
110'					
120'					

1. Maximum Deviation : **1.00** inch at depth **50** ft.
2. Other observation, if any :

SSAE/SAE **সহকারী প্রকৌশলী**
Date **০২/০১/০৫**
(মো আবুল খালেক)
উপসহকারী প্রকৌশলী
বিএমডিএ, ইউনিট-২, আটোয়ারীজোন,
আটোয়ারী, পঞ্চগড়।

Asstt. Engr. **সহকারী প্রকৌশলী**
Date **০২/০১/০৫**
বিএমডিএ, ইউনিট-২
আটোয়ারী জোন, আটোয়ারী-পঞ্চগড়।

For the Contractor
Date **০২/০১/০৫**
Pro. Md. Shafur Rahman
M/s. Sunley Engineers
Nayanpur, P.O. Rajbati,
Dist. Dinajpur.

**BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY
RAJSHAHI**

INSPECTION OF VERTICALITY OF THE TUBEWELL

After Shrouding

1. Well No. :
2. District : **Panchagarh**
3. Upazilla : **Atwari**
4. Union : **Radhanagar**
5. Mouza : **Maligaon**
6. J.L. No. : **50**
7. Plot No. : **100**
8. Total Length of the Tubewell : **210'-0"** **100** ft.
9. Length of UWC (Excluding Reducer) : **100** ft.
10. Name of Sinking Contractor : **M/S. Sunley Engineers.**

Date : **02/01/2005**

VERTICALITY DATA SHEET

Suspension Height (H) **10** ft.

Dia of UWC, d_1 **14** inch
Dia of Disc, d_2 **13.5** inch

Depth in ft. L.	Deviation in inch X	Bearing Reading Pointing North	Calculated Deviation in inch $D' = \frac{X(L+H)}{H}$	Disc Factor $C = \frac{d_1 - d_2}{2}$	Deviation in inch $D = D' + C$
10'	0	N	0	0.25	0.25
20'	0	N	0	0.25	0.25
30'	1/16	SW	0.25	0.25	0.50
40'	1/16	SW	0.312	0.25	0.562
50'	1/16	SW	0.375	0.25	0.625
60'	0	SW	0	0.25	0.25
70'	0	SW	0	0.25	0.25
80'	1/16	SW	0.562	0.25	0.812
90'	1/16	SW	0.625	0.25	0.875
100'	0	SW	0	0.25	0.25
110'					
120'					

11. Maximum Deviation : **0.875** inch at depth **90** ft.

12. Other observation, if any :

13. Straightness : Dolly passed upto **100** ft. freely in the UWC.

SSAE/SAE **সহকারী প্রকৌশলী**
Date **০২/০১/০৫**

Asstt. Engr. **সহকারী প্রকৌশলী**
Date **০২/০১/০৫**

For the Contractor
Date **০২/০১/০৫**

C-74BMDA2-252
(মো আব্দুল খালেক)
উপ-সহকারী প্রকৌশলী
বিএমডিএ, ইউনিট-২, আটোয়ারী জোন,
আটোয়ারী, পঞ্চগড়।

সহকারী প্রকৌশলী
বিএমডিএ, ইউনিট-২
আটোয়ারী জোন, আটোয়ারী-পঞ্চগড়।

Pro. Md. Shafiur Rahman
M/s. Sunley Engineers
Nayanpur, P.O. Rajbati,
Dist. Dinajpur.

BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY
RAJSHAHI

DEVELOPMENT RECORD
(Period : 2 hour)

Page No : 1

03/01/2005
ing Time 6 hrs minute, Capacity of Pump 3 cusec
Mark (Top of Housing) 1'-6" ft. above G.L.
Water Level 12'-0" ft. below top of Housing Pipe.
of Orifice 5 inch, Size of Delivery Pipe
6 inch
th of UWC 100 ft, Depth of Pump Setting 70 ft.
Well No :
District : Panchagarh
Upazilla : Atwari
Union : Radhanagar
Mouza : Maligaon
J.L No. : 50
Plot No. : 100

Time	Piezometric Height (inch)	Discharge (cusec)	Pumping Water Level below Reference Mark (ft.)	Actual Draw-Down (ft.)	Remarks
00mn	13"	1.00	SWL -12'-0"		50% Discharge
05 mn	"	"	27'-2"	15'-2"	
10 mn	"	"	27'-6"	15'-6"	
15 mn	"	"	27'-9"	15'-9"	
20 mn	"	"	27'-11"	15'-11"	
25 mn	"	"	28'-0"	16'-0"	
30 mn	53"	2.00	41'-8"	29'-8"	100% Discharge
35 mn	"	"	42'-0"	30'-0"	
40 mn	"	"	42'-3"	30'-3"	
45 mn	"	"	42'-5"	30'-5"	
50 mn	"	"	42'-6"	30'-6"	
55 mn	"	"	42'-7"	30'-7"	
60 mn	"	"	42'-8"	30'-8"	125% Discharge
65 mn	84"	2.50	49'-10"	37'-10"	
70mn	"	"	50'-0"	38'-0"	
80 mn	"	"	50'-1"	38'-1"	150% Discharge
90 mn	113"	3.00	56'-11"	44'-11"	
100 mn	"	"	57'-1"	45'-1"	
110 mn	"	"	57'-2"	45'-2"	
120 mn (2 hrs.)	"	"			

1 cusec = 28.32 LPS.

S SAE/SAE
Date 03/01/05

Asstt. Engr.
Date

For the Contractor
Date Pro. M. Shafur Rahman
M/s. Sunley Engineers
Nayanpur, P.O. Rajbati,
Dist. Dinajpur.

BMDA2-118 (P2) নিট-২, আটোয়ারীজোন, আটোয়ারী, লক্ষ্মপুর।

সহকারী প্রকৌশলী
বিরমতি, ডিবি-২
আটোয়ারী জোন, আটোয়ারী-লক্ষ্মপুর।

Nayanpur, P.O. Rajbati,
Dist. Dinajpur.



BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY RAJSHAHI

RECOVERY RECORD (Period : 1 hour)

Page No : 2

Date: 03/01/2005 Starting Time 8 hrs 30 Minute	Well No : District : Panchagarh Upazilla : Atwari Union : Radhanagor Mouza : Maligaon J.L. No : 50 Plot No : 100
Ref. Mark (Top of Housing) 1'-6" ft. above GL Static Water Level 12'-0" ft. below top of Housing Pipe.	

Time	Water Level below Reference Mark (ft.)	Remarks
00mn (2 hrs)	57'-2"	
01 mn	17'-8"	
02 mn	17'-1"	
03 mn	16'-7"	
04 mn	16'-1"	
05 mn	15'-7"	
07 mn	15'-3"	
09 mn	14'-11"	
11 mn	14'-7"	
13 mn	14'-3"	
15 mn	13'-11"	
20 mn	13'-7"	
25 mn	13'-3"	
30 mn	13'-0"	
40 mn	12'-9"	
50 mn	12'-6"	
60 mn (3 hours)	12'-3"	

S SAE/SAE **জাহাঙ্গীর আলম**
Date **০৩/০১/০৫**

Asstt. Engr. **শাহজাদ হোসেন**
Date **০৩/০১/০৫**

(মো আব্দুল খালেক)
উপ-সহকারী প্রকৌশলী
বিএমডিএ, ইউনিট-২, আটোয়ারী জোন, আটোয়ারী, পঞ্চগড়।

সহকারী প্রকৌশলী
বিএমডিএ, ইউনিট-২
আটোয়ারী জোন, আটোয়ারী, পঞ্চগড়।

For the Contractor
Date **০৩/০১/০৫**
Pro. Md. Shafur Rahman
M/s. Sunley Engineers
Nayanpur, P.O. Rajbati,
Dist. Dinalpur.

Nayanpur, P.O. Rajbati,
Dist. Dinalpur.

BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY
Rajshahi
SAND TEST RECORD
(Period : 1 hour)

Page No : 3

Copy for

03/01/2005

Time : 9 hrs 30 Minute Capacity of Pump 3 Cusec,

Mark (Top of Housing) 1 ft. 6 inch. above G. L.

Water level 12 ft. 0 inch below top of housing pipe.

Orifice 5 inch, Size of delivery pipe 6 inch.

of UWC 100 ft. Depth of Pump setting 70 ft.

Well No.

District : Panchagarh

Thana : Atwari

Union : Radhanagar

Mouza : Maligaon

J.L. No : 50

Plot No : 100

Time	Pumping Water level below R. M. (ft)	Sand content
1.	2	3
00 mn (3 hours)	12'-3"	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	54'-0"	
02 mn	54'-4"	
03 mn	54'-7"	
04 mn	54'-10"	
05 mn	55'-0"	
07 mn	55'-2"	
09 mn	55'-4"	
11 mn	55'-6"	
13 mn	55'-8"	
15 mn	55'-10"	
20 mn	55'-11"	
25 mn	56'-0"	
30 mn	56'-1"	
40 mn	56'-2"	
50 mn	56'-3"	
60 mn (4 hours)	56'-4"	

S. SAE/SAE

Date

Asstt. Engr.

Date

For the Contractor Rahman

Date

Nayanpur, P.O. Rajbati

Nayanpur, P.O. Rajbati,

Dist. Dinalpur.

PUMP TEST RECORD
(Period : 1 hours)
150% Discharge

Page No: 5

03/01/2005

Pumping Time 2 hrs 30 minute, Capacity of Pump 3 cusec

Mark (Top of Housing) 1'-6" ft. above G.L.

Water Level 12'-0" ft. below top of Housing Pipe.

Orifice 5 inch, Size of Delivery Pipe 6 inch

Length of UWC 100 ft, Depth of Pump Setting 70 ft.

Well No : Panchagarh

District : Atwari

Upazilla : Radhanagar

Union : Maligaon

Mouza : 50

J.L No : 50

Plot No : 100

Time	Piezometric Height (ft.)	Discharge (cusec)	Pumping Water Level below Ref. Mark (ft.)	Actual Draw-Down (ft.)	Remarks
00mn (8hrs.)	113"	3.00	55'-11½"	44'-0"	
01 mn	"	"	56'-0"	44'-½"	
02 mn	"	"	56'-½"	44'-½"	
03 mn	"	"	56'-1"	44'-1"	
04 mn	"	"	56'-1"	44'-1"	
05 mn	"	"	56'-1"	44'-1"	
06 mn	"	"	56'-1½"	44'-1½"	
07 mn	"	"	56'-1½"	44'-1½"	
09 mn	"	"	56'-2"	44'-2"	
11 mn	"	"	56'-2"	44'-2"	
13 mn	"	"	56'-2"	44'-2"	
15 mn	"	"	56'-2½"	44'-2½"	
20 mn	"	"	56'-3"	44'-3"	
25 mn	"	"	56'-3"	44'-3"	
30mn	"	"	56'-3½"	44'-3½"	
40 mn	"	"	56'-3½"	44'-3½"	
50 mn	"	"	56'-4"	44'-4"	
60 mn (9 hrs)	"	"			

S SAE/SAE
Date ০৫/০৮/০৫Asstt. Engr.
Dateসহকারী প্রকৌশলী
বিজয়ভিট, ইউনিট-২
আটোয়ারী জোন, আটোয়ারী-পঞ্চগড়।For the Contractor
DatePro. Md. Shafiqur Rahman
M/s. Sunley Engineers
Nayanpur, P.O. Rajbati,
Dist. Dinalpur.Nayanpur, P.O. Rajbati,
Dist. Dinalpur.

BARIND MULTIPURPOSE DEVELOPMENT AUTHORITY
RAJSHAHI