







## Inventory of Hydraulic Structure

<b>Structure ID :</b>	2324003/STR0001	<b>Year of Construction:</b>		
<b>Name of Structure :</b>	R-1 (Shikar Mangal khal)	<b>Name of Scheme :</b>	Kalkini North FCDI Sub-Project	
<b>Name of Division :</b>	Madaripur O&M Division	<b>Name of Sub Division :</b>	Madaripur Pouro-2	
<b>GPS Position Easting(m):</b>	217981	<b>GPS Position Northing(m) :</b>	2552324	
<b>District :</b>	Madaripur	<b>Upazila :</b>	Kalkini	
<b>Union :</b>	Kalkini Paurashava	<b>Village :</b>	Shikar Mangal	
<b>Type of Structure:</b>	Drainage Regulator			
<b>No of Vent/Barrel :</b>	2	<b>Size(WxH) / Diameter:</b>	1.52 X 1.83	
<b>Civil Component :</b>	<b>Deck Slab :</b>	Good	<b>Operation Deck Slab :</b>	Good
	<b>Wing Wall U/S :</b>	Good	<b>Wing Wall D/S :</b>	Good
	<b>Loose Apron U/S :</b>	Good	<b>Loose Apron D/S :</b>	Good
	<b>Adequacy In Opening :</b>	Adequate	<b>Boatpass :</b>	Not Applicable
	<b>Invert Level :</b>		<b>Source of Invert Level:</b>	
	<b>U/S Approach Channel Condition:</b>	Silted Up, Encroachment	<b>D/S Approach Channel Condition:</b>	Silted Up, Encroachment
<b>Mechanical Component :</b>	<b>Gate Location :</b>	Downstream		
	<b>U/S Gate Type :</b>	0	<b>D/S Gate Type :</b>	Vertical
	<b>U/S Gate Condition:</b>		<b>D/S Gate Condition:</b>	Good
	<b>Hoist Condition:</b>	Non-Functional	<b>Maintenance/Painting:</b>	Bad
	<b>Gate Operation :</b>	Not Operated	<b>Operational conflict:</b>	No
	<b>Comments on Gate:</b>			
<b>Physical Condition and Functionalty :</b>	<b>Workable :</b>	No	<b>Required :</b>	No
	<b>Repairable :</b>	No	<b>Adverse:</b>	No
	<b>Abandoned :</b>	Yes	<b>To be Dismantled:</b>	No
	<b>Status :</b>	<b>Non-Functional</b>		
				
<b>Upstream</b>		<b>Downstream</b>		
<b>Public Opinion :</b>	It is not required.			
<b>Comments of BWDB :</b>	Local people demand for boat-pass instead of regulator.			
<b>Recommendation of IWM :</b>	<p>This structure is supposed to drain out water to River Torki or River Palorti, a branch of River Arial Khan, through a channel, Shikar Mangal khal flowing by the side of the structure. Since construction during 1984-93, the river stage (water level) started gradually lowering and no water was flowing through structure or delivery channel of this structure. Finding no other way, the people removed the closure/X-dam that was put over the natural channel, Shikar Mangal khal to drain out water. Now-a-days people draining out water through the natural channel, Shikar Mangal khal and the regulators remained useless.</p> <p>In a discussion on 04/01/2017, People opined to keep this project at present status.</p>			



## Inventory of Hydraulic Structure

<b>Structure ID :</b>	2324003/STR0002	<b>Year of Construction:</b>		
<b>Name of Structure :</b>	R-2 (Vabanipur)	<b>Name of Scheme :</b>	Kalkini North FCDI Sub-Project	
<b>Name of Division :</b>	Madaripur O&M Division	<b>Name of Sub Division :</b>	Madaripur Pouro-2	
<b>GPS Position Easting(m):</b>	221753	<b>GPS Position Northing(m) :</b>	2552688	
<b>District :</b>	Madaripur	<b>Upazila :</b>	Kalkini	
<b>Union :</b>	Shikar Mangal	<b>Village :</b>	Bhabanipur	
<b>Type of Structure:</b>	Drainage Regulator			
<b>No of Vent/Barrel :</b>	2	<b>Size(WxH) / Diameter:</b>	1.50 X 1.80	
<b>Civil Component :</b>	<b>Deck Slab :</b>		<b>Operation Deck Slab :</b>	
	<b>Wing Wall U/S :</b>		<b>Wing Wall D/S :</b>	
	<b>Loose Apron U/S :</b>		<b>Loose Apron D/S :</b>	
	<b>Adequacy In Opening :</b>		<b>Boatpass :</b>	
	<b>Invert Level :</b>		<b>Source of Invert Level:</b>	
	<b>U/S Approach Channel Condition:</b>		<b>D/S Approach Channel Condition:</b>	Aquatic Weed,Vegetation
<b>Mechanical Component :</b>	<b>Gate Location :</b>	Upstream		
	<b>U/S Gate Type :</b>	Vertical	<b>D/S Gate Type :</b>	
	<b>U/S Gate Condition:</b>	Good	<b>D/S Gate Condition:</b>	
	<b>Hoist Condition:</b>	Functional	<b>Maintenance/Painting:</b>	Good
	<b>Gate Operation :</b>	Not Operated	<b>Operational conflict:</b>	No
	<b>Comments on Gate:</b>			
<b>Physical Condition and Functionalty :</b>	<b>Workable :</b>	No	<b>Required :</b>	No
	<b>Repairable :</b>	No	<b>Adverse:</b>	No
	<b>Abandoned :</b>	Yes	<b>To be Dismantled:</b>	Yes
	<b>Status :</b>	<b>Non-Functional</b>		
				
<b>Upstream</b>		<b>Downstream</b>		
<b>Public Opinion :</b>	It is not required.			
<b>Comments of BWDB :</b>	Local beneficiaries demanded for boat-pass instead of regulator.			
<b>Recommendation of IWM :</b>	<p>This structure is supposed to drain out water to River Torki or River Palorti, a branch of River Arial Khan, through a channel, Shikar Mangal khal flowing by the side of the structure. Since construction during 1984-93, the river stage (water level) started gradually lowering and no water was flowing through structure or delivery channel of this structure. Finding no other way, the people removed the closure/X-dam that was put over the natural channel, Shikar Mangal khal to drain out water. Now-a-days people draining out water through the natural channel, Shikar Mangal khal and the regulators remained useless.</p> <p>In a discussion on 04/01/2017, People opined to keep this project at present status.</p>			



## Inventory of Hydraulic Structure

<b>Structure ID :</b>	2324003/STR0003	<b>Year of Construction:</b>		
<b>Name of Structure :</b>	FG-1 (Kulchuri Sosthal)	<b>Name of Scheme :</b>	Kalkini North FCDI Sub-Project	
<b>Name of Division :</b>	Madaripur O&M Division	<b>Name of Sub Division :</b>	Madaripur Pouro-2	
<b>GPS Position Easting(m):</b>	221270	<b>GPS Position Northing(m) :</b>	2559168	
<b>District :</b>	Madaripur	<b>Upazila :</b>	Kalkini	
<b>Union :</b>	Alinagar	<b>Village :</b>	Kulchuri Sosthal	
<b>Type of Structure:</b>	Flushing Sluice			
<b>No of Vent/Barrel :</b>	1	<b>Size(WxH) / Diameter:</b>	1.00 X 1.20	
<b>Civil Component :</b>	<b>Deck Slab :</b>	Good	<b>Operation Deck Slab :</b>	Good
	<b>Wing Wall U/S :</b>	Good	<b>Wing Wall D/S :</b>	Good
	<b>Loose Apron U/S :</b>	Good	<b>Loose Apron D/S :</b>	Good
	<b>Adequacy In Opening :</b>	Adequate	<b>Boatpass :</b>	Not Applicable
	<b>Invert Level :</b>		<b>Source of Invert Level:</b>	
	<b>U/S Approach Channel Condition:</b>	Aquatic Weed, Vegetation, Encroachment	<b>D/S Approach Channel Condition:</b>	
<b>Mechanical Component :</b>	<b>Gate Location :</b>	Upstream		
	<b>U/S Gate Type :</b>	Vertical	<b>D/S Gate Type :</b>	
	<b>U/S Gate Condition:</b>	Good	<b>D/S Gate Condition:</b>	
	<b>Hoist Condition:</b>	Functional	<b>Maintenance/Painting:</b>	Poor
	<b>Gate Operation :</b>	Local People	<b>Operational conflict:</b>	No
	<b>Comments on Gate:</b>			
<b>Physical Condition and Functionalty :</b>	<b>Workable :</b>	Yes	<b>Required :</b>	Yes
	<b>Repairable :</b>	Yes	<b>Adverse:</b>	No
	<b>Abandoned :</b>	No	<b>To be Dismantled:</b>	No
	<b>Status :</b>	<b>Functional</b>		
				
<b>Upstream</b>		<b>Downstream</b>		
<b>Public Opinion :</b>	Beneficiaries demanded for repair and maintenance.			
<b>Comments of BWDB :</b>	Some repair works are required.			
<b>Recommendation of IWM :</b>	Suggested for repair and maintenance to render benefit to the stakeholders.			

## Inventory of Hydraulic Structure



<b>Structure ID :</b>	2324003/STR0004	<b>Year of Construction:</b>		
<b>Name of Structure :</b>	FG-2 (Purbo Alipur)	<b>Name of Scheme :</b>	Kalkini North FCDI Sub-Project	
<b>Name of Division :</b>	Madaripur O&M Division	<b>Name of Sub Division :</b>	Madaripur Pouro-2	
<b>GPS Position Easting(m):</b>	224728	<b>GPS Position Northing(m) :</b>	2557278	
<b>District :</b>	Madaripur	<b>Upazila :</b>	Kalkini	
<b>Union :</b>	Enayetnagar	<b>Village :</b>	Purbo Alipur	
<b>Type of Structure:</b>	Flushing Sluice			
<b>No of Vent/Barrel :</b>	1	<b>Size(WxH) / Diameter:</b>	1.00 X 1.20	
<b>Civil Component :</b>	<b>Deck Slab :</b>	Good	<b>Operation Deck Slab :</b>	Good
	<b>Wing Wall U/S :</b>	Good	<b>Wing Wall D/S :</b>	Good
	<b>Loose Apron U/S :</b>	Good	<b>Loose Apron D/S :</b>	Good
	<b>Adequacy In Opening :</b>	Adequate	<b>Boatpass :</b>	Not Applicable
	<b>Invert Level :</b>		<b>Source of Invert Level:</b>	
	<b>U/S Approach Channel Condition:</b>	Inadequate	<b>D/S Approach Channel Condition:</b>	Aquatic Weed,Vegetation, Inadequate, Encroachment
<b>Mechanical Component :</b>	<b>Gate Location :</b>	Upstream		
	<b>U/S Gate Type :</b>	Vertical	<b>D/S Gate Type :</b>	
	<b>U/S Gate Condition:</b>	Good	<b>D/S Gate Condition:</b>	
	<b>Hoist Condition:</b>	Functional	<b>Maintenance/Painting:</b>	Poor
	<b>Gate Operation :</b>	Local People	<b>Operational conflict:</b>	No
	<b>Comments on Gate:</b>			
<b>Physical Condition and Functionalty :</b>	<b>Workable :</b>	Yes	<b>Required :</b>	Yes
	<b>Repairable :</b>	Yes	<b>Adverse:</b>	No
	<b>Abandoned :</b>	No	<b>To be Dismantled:</b>	No
	<b>Status :</b>	Functional		
				
<b>Upstream</b>		<b>Downstream</b>		
<b>Public Opinion :</b>	Beneficiaries demanded for repair and maintenance.			
<b>Comments of BWDB :</b>	Some repair works are required.			
<b>Recommendation of IWM :</b>	Suggested for repair and maintenance to render benefit to the stakeholders.			

## Inventory of Hydraulic Structure



<b>Structure ID :</b>	2324003/STR0005	<b>Year of Construction:</b>		
<b>Name of Structure :</b>	FG-3 (Kalai Shardar Char)	<b>Name of Scheme :</b>	Kalkini North FCDI Sub-Project	
<b>Name of Division :</b>	Madaripur O&M Division	<b>Name of Sub Division :</b>	Madaripur Pouro-2	
<b>GPS Position Easting(m):</b>	223853	<b>GPS Position Northing(m) :</b>	2553755	
<b>District :</b>	Madaripur	<b>Upazila :</b>	Kalkini	
<b>Union :</b>	Enayetnagar	<b>Village :</b>	Kalai Shardar Char	
<b>Type of Structure:</b>	Flushing Sluice			
<b>No of Vent/Barrel :</b>	1	<b>Size(WxH) / Diameter:</b>	1.00 X 1.20	
<b>Civil Component :</b>	<b>Deck Slab :</b>	Good	<b>Operation Deck Slab :</b>	Good
	<b>Wing Wall U/S :</b>	Good	<b>Wing Wall D/S :</b>	Good
	<b>Loose Apron U/S :</b>	Good	<b>Loose Apron D/S :</b>	Good
	<b>Adequacy In Opening :</b>	Adequate	<b>Boatpass :</b>	Not Applicable
	<b>Invert Level :</b>		<b>Source of Invert Level:</b>	
	<b>U/S Approach Channel Condition:</b>	Aquatic Weed,Vegetation, Water Hyacinth	<b>D/S Approach Channel Condition:</b>	Aquatic Weed,Vegetation, Water Hyacinth
<b>Mechanical Component :</b>	<b>Gate Location :</b>	Upstream		
	<b>U/S Gate Type :</b>	Vertical	<b>D/S Gate Type :</b>	
	<b>U/S Gate Condition:</b>	Good	<b>D/S Gate Condition:</b>	
	<b>Hoist Condition:</b>	Functional	<b>Maintenance/Painting:</b>	Poor
	<b>Gate Operation :</b>	Local People	<b>Operational conflict:</b>	No
	<b>Comments on Gate:</b>			
<b>Physical Condition and Functionalty :</b>	<b>Workable :</b>	Yes	<b>Required :</b>	Yes
	<b>Repairable :</b>	Yes	<b>Adverse:</b>	No
	<b>Abandoned :</b>	No	<b>To be Dismantled:</b>	No
	<b>Status :</b>	<b>Functional</b>		
				
<b>Upstream</b>		<b>Downstream</b>		
<b>Public Opinion :</b>	Beneficiaries demanded for repair and maintenance.			
<b>Comments of BWDB :</b>	Some repair works are required.			
<b>Recommendation of IWM :</b>	Suggested for repair and maintenance to render benefit to the stakeholders.			






## Inventory of Hydraulic Structure

<b>Structure ID :</b>	2324003/STR0006	<b>Year of Construction:</b>		
<b>Name of Structure :</b>	FG-4 (Char Fateh Bahadur)	<b>Name of Scheme :</b>	Kalkini North FCDI Sub-Project	
<b>Name of Division :</b>	Madaripur O&M Division	<b>Name of Sub Division :</b>	Madaripur Pouro-2	
<b>GPS Position Easting(m):</b>	220679	<b>GPS Position Northing(m) :</b>	2551960	
<b>District :</b>	Madaripur	<b>Upazila :</b>	Kalkini	
<b>Union :</b>	Shikar Mangal	<b>Village :</b>	Char Fateh Bahadur	
<b>Type of Structure:</b>	Flushing Sluice			
<b>No of Vent/Barrel :</b>	1	<b>Size(WxH) / Diameter:</b>	1.00 X 1.22	
<b>Civil Component :</b>	<b>Deck Slab :</b>	Good	<b>Operation Deck Slab :</b>	Good
	<b>Wing Wall U/S :</b>	Good	<b>Wing Wall D/S :</b>	Good
	<b>Loose Apron U/S :</b>	Good	<b>Loose Apron D/S :</b>	Good
	<b>Adequacy In Opening :</b>	Adequate	<b>Boatpass :</b>	Not Applicable
	<b>Invert Level :</b>		<b>Source of Invert Level:</b>	
	<b>U/S Approach Channel Condition:</b>	Water Hyacinth	<b>D/S Approach Channel Condition:</b>	Aquatic Weed,Vegetation, Water Hyacinth
<b>Mechanical Component :</b>	<b>Gate Location :</b>	Upstream		
	<b>U/S Gate Type :</b>	Vertical	<b>D/S Gate Type :</b>	
	<b>U/S Gate Condition:</b>	Good	<b>D/S Gate Condition:</b>	
	<b>Hoist Condition:</b>	Functional	<b>Maintenance/Painting:</b>	Poor
	<b>Gate Operation :</b>	Local People	<b>Operational conflict:</b>	No
	<b>Comments on Gate:</b>			
<b>Physical Condition and Functionalty :</b>	<b>Workable :</b>	Yes	<b>Required :</b>	Yes
	<b>Repairable :</b>	Yes	<b>Adverse:</b>	No
	<b>Abandoned :</b>	No	<b>To be Dismantled:</b>	No
	<b>Status :</b>	<b>Functional</b>		
				
<b>Upstream</b>		<b>Downstream</b>		
<b>Public Opinion :</b>	Beneficiaries demanded for repair and maintenance.			
<b>Comments of BWDB :</b>	Regular maintenance is required to keep the structure functional.			
<b>Recommendation of IWM :</b>	Suggested for repair and maintenance to render benefit to the stakeholders.			

## Inventory of Hydraulic Structure




<b>Structure ID :</b>	2324003/STR0007	<b>Year of Construction:</b>		
<b>Name of Structure :</b>	FG-5 (Bot Tola)	<b>Name of Scheme :</b>	Kalkini North FCDI Sub-Project	
<b>Name of Division :</b>	Madaripur O&M Division	<b>Name of Sub Division :</b>	Madaripur Pouro-2	
<b>GPS Position Easting(m):</b>	219959	<b>GPS Position Northing(m) :</b>	2551571	
<b>District :</b>	Madaripur	<b>Upazila :</b>	Kalkini	
<b>Union :</b>	Shikar Mangal	<b>Village :</b>	Char Fateh Bahadur	
<b>Type of Structure:</b>	Drainage Regulator			
<b>No of Vent/Barrel :</b>	1	<b>Size(WxH) / Diameter:</b>	1.00 X 1.22	
<b>Civil Component :</b>	<b>Deck Slab :</b>	Good	<b>Operation Deck Slab :</b>	Poor
	<b>Wing Wall U/S :</b>	Good	<b>Wing Wall D/S :</b>	Good
	<b>Loose Apron U/S :</b>	Good	<b>Loose Apron D/S :</b>	Good
	<b>Adequacy In Opening :</b>	Adequate	<b>Boatpass :</b>	Not Applicable
	<b>Invert Level :</b>		<b>Source of Invert Level:</b>	
	<b>U/S Approach Channel Condition:</b>		<b>D/S Approach Channel Condition:</b>	Encroachment
<b>Mechanical Component :</b>	<b>Gate Location :</b>	Downstream		
	<b>U/S Gate Type :</b>	0	<b>D/S Gate Type :</b>	Vertical
	<b>U/S Gate Condition:</b>		<b>D/S Gate Condition:</b>	Poor
	<b>Hoist Condition:</b>	Functional	<b>Maintenance/Painting:</b>	Bad
	<b>Gate Operation :</b>	Local People	<b>Operational conflict:</b>	No
	<b>Comments on Gate:</b>			
<b>Physical Condition and Functionalty :</b>	<b>Workable :</b>	Yes	<b>Required :</b>	Yes
	<b>Repairable :</b>	Yes	<b>Adverse:</b>	No
	<b>Abandoned :</b>	No	<b>To be Dismantled:</b>	No
	<b>Status :</b>	Partly Functional		
				
<b>Upstream</b>		<b>Downstream</b>		
<b>Public Opinion :</b>	Beneficiaries demanded for repair and maintenance.			
<b>Comments of BWDB :</b>	Reconstruction of the structure is required.			
<b>Recommendation of IWM :</b>	Headwall (separately constructed) fell down due to bed scour.Suggested for repair and maintenance to render benefit to the stakeholders.Suggested for repair and maintenance to make the structure functional.			

## Inventory of Hydraulic Structure

Name of Division :	Madaripur O&M Division			
Name of Scheme :	Kalkini North FCDI Sub-Project			
Structure ID:	2324003/STR0008			
Structure Name:	SDO -1(Karimganj Khal)			
Type of Structure :	Drainage Outlet			
Easting(m):	219221	Northing(m) :	2556037	
District :	Madaripur	Upazila :	Kalkini	
Union :	Enayetnagar	Village :	Karimganj Khal	
Size(WxH) / Diameter(m):	0.60	Repairable :	Yes	
Required :	Yes	Status :	Non-Functional	
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Name of Division :	Madaripur O&M Division			
Name of Scheme :	Kalkini North FCDI Sub-Project			
Structure ID:	2324003/STR0009			
Structure Name:	SDO -3 (Chakidar Bari)			
Type of Structure :	Drainage Outlet			
Easting(m):	218059	Northing(m) :	2553315	
District :	Madaripur	Upazila :	Kalkini	
Union :	Shikar Mangal	Village :	Shikar Mangal	
Size(WxH) / Diameter(m):	0.60	Repairable :	Yes	
Required :	Yes	Status :	Functional	
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Name of Division :	Madaripur O&M Division			
Name of Scheme :	Kalkini North FCDI Sub-Project			
Structure ID:	2324003/STR0010			
Structure Name:	SDO-4 (Jurgao Bazar)			
Type of Structure :	Drainage Outlet			
Easting(m):	217247	Northing(m) :	2550890	
District :	Madaripur	Upazila :	Kalkini	
Union :	Kalkini Paurashava	Village :	Jurgao Bazar	
Size(WxH) / Diameter(m):	1.00 X 1.22	Repairable :	No	
Required :	No	Status :	Non-Functional	



## Inventory of Hydraulic Structure

Name of Division :	Madaripur O&M Division			
Name of Scheme :	Kalkini North FCDI Sub-Project			
Structure ID:	2324003/STR0011			
Structure Name:	SDO-4A (Jurgao Bazar)			
Type of Structure :	Drainage Outlet			
Easting(m):	217671	Northing(m) :	2550408	
District :	Madaripur	Upazila :	Kalkini	
Union :	Kalkini Paurashava	Village :	Jurgao Bazar	
Size(WxH) / Diameter(m):	0.60	Repairable :	Yes	
Required :	Yes	Status :	Functional	
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Name of Division :	Madaripur O&M Division			
Name of Scheme :	Kalkini North FCDI Sub-Project			
Structure ID:	2324003/STR0012			
Structure Name:	SDO -5 (Dhakikandi)			
Type of Structure :	Drainage Outlet			
Easting(m):	218882	Northing(m) :	2550492	
District :	Madaripur	Upazila :	Kalkini	
Union :	Kalkini Paurashava	Village :	Dhakikandi	
Size(WxH) / Diameter(m):	0.60	Repairable :	Yes	
Required :	Yes	Status :	Partly Functional	
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Name of Division :	Madaripur O&M Division			
Name of Scheme :	Kalkini North FCDI Sub-Project			
Structure ID:	2324003/STR0013			
Structure Name:	SDO -6 (Miarhat)			
Type of Structure :	Drainage Outlet			
Easting(m):	221487	Northing(m) :	2552446	
District :	Madaripur	Upazila :	Kalkini	
Union :	Shikar Mangal	Village :	Char Fate Bahadur	
Size(WxH) / Diameter(m):	0.60	Repairable :	Yes	
Required :	Yes	Status :	Functional	

## Inventory of Hydraulic Structure

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<b>Name of Division :</b>	Madaripur O&M Division		
<b>Name of Scheme :</b>	Kalkini North FCDI Sub-Project		
<b>Structure ID:</b>	2324003/STR0014		
<b>Structure Name:</b>	SDO -8 (Talukdar Bari)		
<b>Type of Structure :</b>	Drainage Outlet		
<b>Easting(m):</b>	222172	<b>Northing(m) :</b>	2558778
<b>District :</b>	Madaripur	<b>Upazila :</b>	Kalkini
<b>Union :</b>	Alinagar	<b>Village :</b>	Sasthal
<b>Size(WxH) / Diameter(m):</b>	0.60	<b>Repairable :</b>	Yes
<b>Required :</b>	Yes	<b>Status :</b>	Functional

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