

**Bridge and Road Specifications**

Zone: Khulna	Division( Subdivision): Bagerhat( Bagerhat-2)	LRP: 225a	Chainage: 225.201 (km)
1) Bridge Name/ No: 75- Jugikhali Bridge	2) Road Name : Daulatdia- Faridpur- Khulna - Mongla Road	3) Date : 25-11-2013	4) GPS Data: Lt:22°44'40.058"Lon:89°38'1.978"
5) Road Category: N- 7	6) Bridge Width:9.5m Carriageway Width:7.4m	7) Bridge Type: RCC Grider Bridge	8) Bridge length: 81.8m
9) Bridge Span Arrangement: Three Span	10) Approach Road Width: 8.3m	11) Sub structure information	12) River information: -Approx river width: 32.0m -Approx.river water level: 5.0m -Approx.river depth: 6.5m from deck
13) Year of Construction( if possible): 1982	14) Load Limit(if possible):	-Type: Pond -Approx. height:	

Consultant: Oriental Consultants Co. Ltd.      Scale: 1:1400      Name of Engineer/Surveyor: Md. Mahbur Rahman      Surveyed by: SURVEY2000

**Photo Sheet of the Bridge 1/3**

**APPENDIX 3-1**

Zone : Khulna	Division (Sub-division) : Bagerhat-2	LRP : 225a	Chainage : 225.201
1) Bridge Name : 75_Jugikhali Bridge	2) Road Name : Dauladia- Magura- Jhenaidah-Jessore-Khulna-Mongla	3) Date & Time : 25.11.13, 9:20am	4) GPS Data : Latitude: 22° 44'40.058" Longitude: 89° 38'1.978"

**Photo of the Bridge**

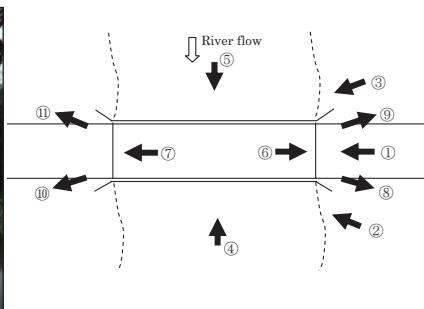


Photo Sheet of the Bridge 2/3

APPENDIX 3-2

Zone : Khulna	Division (Sub-division) : Bagerhat-2	LRP : 225a	Chainage : 225.201
1) Bridge Name : 75_Jugikhali Bridge	2) Road Name : Dauladia- Magura- Jhenaidah- Jessore- Khulna- Mongla	3) Date & Time : 25.11.13, 9:20am	4) GPS Data : Latitude: 22° 44'40.058" Longitude: 89° 38'1.978"
<b>Photo of the Bridge</b>			
			
			




Photo Sheet of the Bridge 3/3

APPENDIX 3-3

APPENDIX 4

1. Description of Damages (Present Condition) of the Bridge

Damage of the Bridge (1/2)

Zone : Khulna		Division (Sub-division) : Bagerhat-2		LRP : 225a		Chainage : 225.201	
1) Bridge Name : 75_Jugikhali Bridge		2) Road Name : Dauladia- Magura- Jhenaidah- Jessore- Khulna- Mongla		3) Date & Time : 25.11.13, 9:20am		4) GPS Data : Latitude: 22° 44'40.058" Longitude: 89° 38'1.978"	
Damage 1		Damage 2		Damage 3		Damage 4	
Damage Location	Slab, Girder, Pier, Abutment, /Footpath	Damage Location	Slab, Girder, Pier, Abutment, /Footpath	Damage Location	Slab, Girder, Pier, Abutment, /Footpath	Damage Location	Slab, Girder, Pier, Abutment
Damage Type	For Concrete Structure √Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure √Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure √Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )
							
Comments							

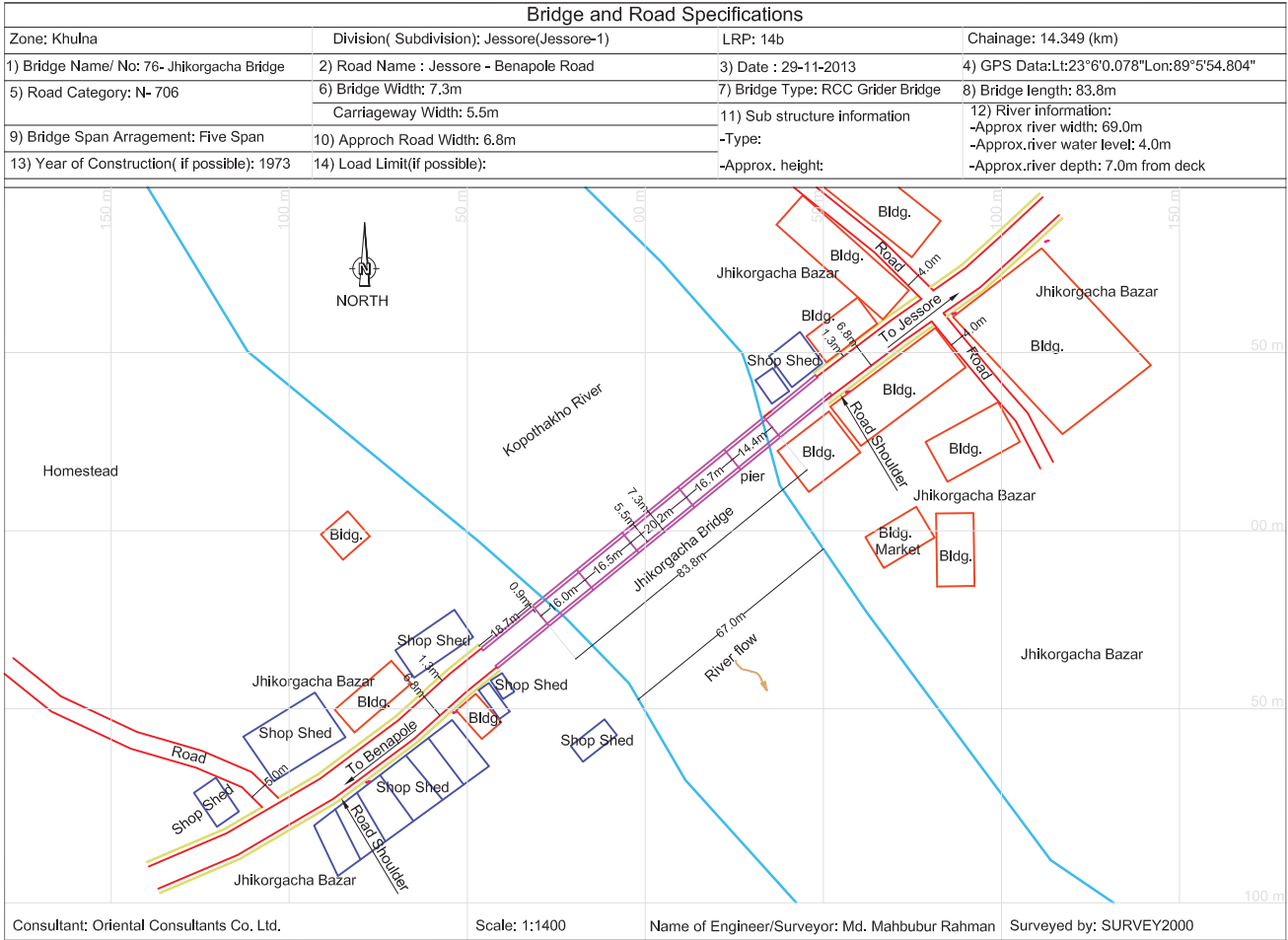


Photo Sheet of the Bridge 1/3

APPENDIX 3-1




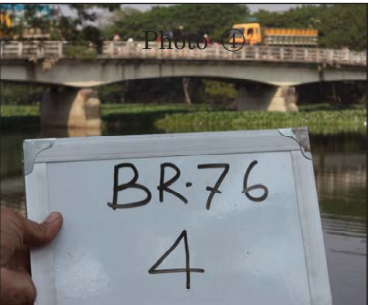
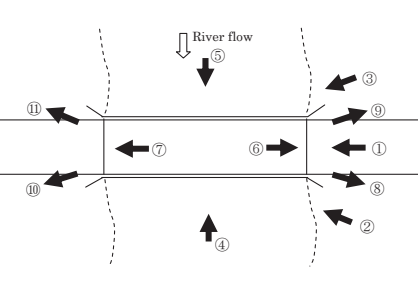
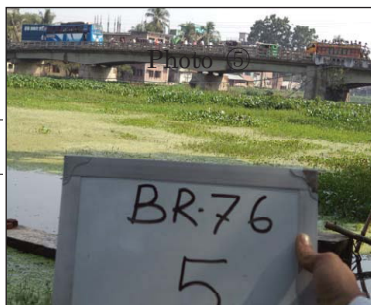
Zone : Khulna	Division (Sub-division) : Jessore-1	LRP : 14b	Chainage : 14.349 km
1) Bridge Name : 76_Jhekorgacha Bridge	2) Road Name : Jessore- Banapole	3) Date & Time : 29.11.13, 1:20pm	4) GPS Data : Latitude: 23° 06'00.078" Longitude: 89° 5'54.804"
<b>Photo of the Bridge</b>			
Photo ① 	Photo ② 	Photo ③ 	
Photo ④ 		Photo ⑤ 	

Photo Sheet of the Bridge 2/3

APPENDIX 3-2

Zone : Khulna	Division (Sub-division) : Jessore-1	LRP : 14b	Chainage : 14.349 km
1) Bridge Name : 76_Jhekorgacha Bridge	2) Road Name : Jessore- Banapole	3) Date & Time : 29.11.13, 1:20pm	4) GPS Data : Latitude: 23° 06'00.078" Longitude: 89° 5'54.804"

Photo of the Bridge



Photo Sheet of the Bridge 3/3

APPENDIX 3-3

APPENDIX 4

1. Description of Damages (Present Condition) of the Bridge

Damage of the Bridge (1/2)

Zone : Khulna		Division (Sub-division) : Jessore-1		LRP : 14b		Chainage : 14.349 km	
1) Bridge Name : 76_Jhekorgacha Bridge		2) Road Name : Jessore- Banapole		3) Date & Time : 29.11.13, 1:20pm		4) GPS Data : Latitude: 23° 06'00.078" Longitude: 89° 5'54.804"	
Damage 1		Damage 2		Damage 3		Damage 4	
Damage Location	Slab, Girder, Pier, Abutment, /Footpath	Damage Location	Slab, Girder, Pier, Abutment, /Footpath	Damage Location	Slab, Girder, Pier, Abutment, /Footpath	Damage Location	Slab, Girder, Pier, Abutment, /Footpath
Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )
Comments							

Damage of the Bridge (2/2)

Zone : Khulna		Division (Sub-division) : Jessore-1		LRP : 14b		Chainage : 14.349 km	
1) Bridge Name : 76_Jhekorgacha Bridge		2) Road Name : Jessore- Banapole		3) Date & Time : 29.11.13, 1:20pm		4) GPS Data : Latitude: 23° 06'00.078" Longitude: 89° 5'54.804"	
Damage 5		Damage 6		Damage 7		Damage 8	
Damage Location	Slab, Girder, Pier, Abutment, √Footpath	Damage Location	Slab, Girder, Pier, Abutment, √Footpath	Damage Location	Slab, Girder, Pier, Abutment, √Footpath	Damage Location	Slab, Girder, Pier, Abutment
Damage Type	<u>For Concrete Structure</u> Crack, Spalling, √Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type <u>For Concrete Structure</u> Crack, Spalling, √Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type <u>For Concrete Structure</u> Crack, Spalling, √Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type <u>For Concrete Structure</u> Crack, Spalling, √Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type <u>For Concrete Structure</u> Crack, Spalling, Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )		
							
Comments							

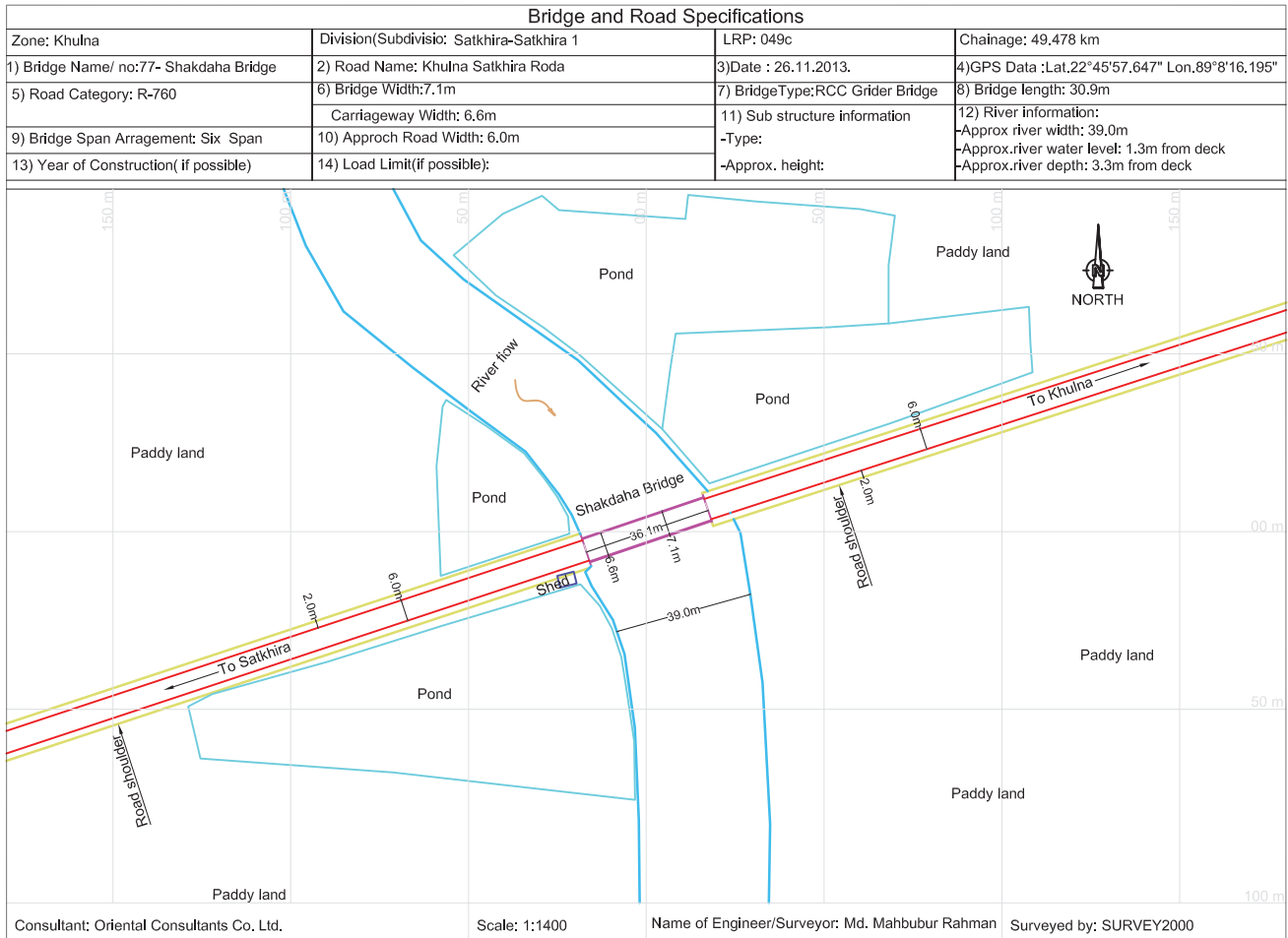


Photo Sheet of the Bridge 1/3

APPENDIX 3-1

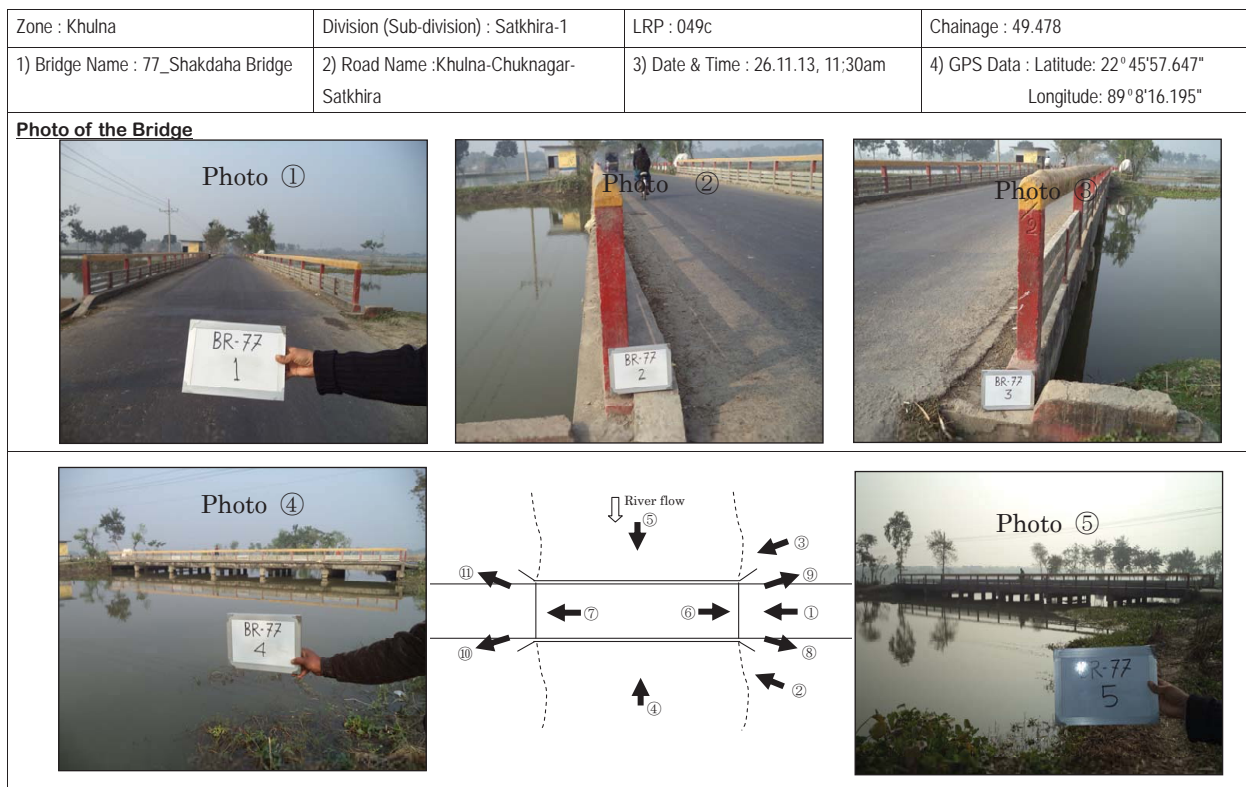


Photo Sheet of the Bridge 2/3

APPENDIX 3-2

Zone : Khulna	Division (Sub-division) : Satkhira-1	LRP : 049c	Chainage : 49.478
1) Bridge Name : 77_Shakdaha Bridge	2) Road Name :Khulna-Chuknagar-Satkhira	3) Date & Time : 26.11.13, 11:30am	4) GPS Data : Latitude: 22°45'57.647" Longitude: 89°8'16.195"
<b>Photo of the Bridge</b>			
			
			




Photo Sheet of the Bridge 3/3

APPENDIX 3-3

APPENDIX 4

1. Description of Damages (Present Condition) of the Bridge

Damage of the Bridge (1/1)

Zone : Khulna		Division (Sub-division) : Satkhira-1		LRP : 049c		Chainage : 49.478	
1) Bridge Name : 77_Shakdaha Bridge		2) Road Name :Khulna-Chuknagar-Satkhira		3) Date & Time : 26.11.13, 11:30am		4) GPS Data : Latitude: 22°45'57.647" Longitude: 89°8'16.195"	
Damage 1		Damage 2		Damage 3		Damage 4	
Damage Location	Slab, Girder, Pier, Abutment, √Wing Wall	Damage Location	Slab, √Girder, Pier, Abutment	Damage Location	Slab, √Girder, Pier, Abutment	Damage Location	Slab, Girder, Pier, Abutment
Damage Type	For Concrete Structure Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, √Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, √Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )
							
Comments							

### Bridge and Road Specifications

Zone: Khulna		Division( Subdivision): Salkhira ( Salkhira 2 )		LRP: 020a		Chainage: 20.05 km	
1) Bridge Name/ No: 78- Gangnia bridge		2) Road Name: Alipur - Bhomra Lnad Road		3) Date : 29-11-2013		4)GPS Data: Lt: 22°40'34.363"Lon:88°58'59.321"	
5) Road Category: N - 715		6) Bridge Width: 4.9m Carriageway Width: 4.3m		7) Bridge Type: R.c.c Girder Bridge		8) Bridge length: 21.2m	
9) Bridge Span Arrangement: Two Span		10) Approach Road Width: 6.0m		11) Sub structure information		12) River information:	
13) Year of Construction( if possible):		14) Load Limit(if possible):		-Type:		-Approx river width: 37.0m	
				-Approx. height:		-Approx.river water level: 3.5m from deck	
						-Approx.river depth: 7.5m from deck	

Consultant: Oriental Consultants Co. Ltd.	Scale: 1:1400	Name of Engineer/Surveyor: Md. Mahub
		Surveyed by: SURVEY2000

### Photo Sheet of the Bridge 1/3

**APPENDIX 3-1**

Zone : Khulna		Division (Sub-division) : Salkhira-2		LRP : 020a		Chainage : 20.02 km	
1) Bridge Name: Gangnia Bridge		2) Road Name : Alipur-Bomra Land Port		3) Date & Time : 29.11.13, 9:00AM		4) GPS Data : Latitude: 22° 40'34.363" Longitude: 88° 58'59.321"	

**Photo of the Bridge**

Photo ①

Photo ②

Photo ③

Photo ④

River flow

Photo ⑤



Photo Sheet of the Bridge 2/3

APPENDIX 3-2





Zone : Khulna	Division (Sub-division) : Satkhira-2	LRP : 020a	Chainage : 20.02 km
1) Bridge Name : Gangnia Bridge	2) Road Name : Alipur-Bomra Land Port	3) Date & Time : 29.11.13, 9:00AM	4) GPS Data : Latitude: 22° 40'34.363" Longitude: 88° 58'59.321"
<b>Photo of the Bridge</b>			
			
			

Photo Sheet of the Bridge 3/3

APPENDIX 3-3  
APPENDIX 4

1. Description of Damages (Present Condition) of the Bridge

Damage of the Bridge (1/1)

Zone : Khulna		Division (Sub-division) : Satkhira-2		LRP : 020a		Chainage : 20.02 km	
1) Bridge Name : Gangnia Bridge		2) Road Name : Alipur-Bomra Land Port		3) Date & Time : 29.11.13, 9:00AM		4) GPS Data : Latitude: 22° 40'34.363" Longitude: 88° 58'59.321"	
Damage 1		Damage 2		Damage 3		Damage 4	
Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing
Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )
							
Comments							

### Bridge and Road Specifications

Zone: Khulna	Division( Subdivision): Kushiya	LRP: 33b	Chainage: 34.625(km)
1) Bridge Name/ no: 79-Balipara Bridge	2) Road Name: Jhenaidah-Kushiya	3) Date :04-12-2013	4) GPS Data: Lt.23°51'4.165" Lon.89°6'26.092"
5) Road Category: N_704	6) Bridge Width: 7.20m Carriage Width: 6.60m	7) Bridge Type: R.C.C Bridge	8) Bridge length: 26.0m
9) Bridge Span Arrangement: Three Span	10) Approach Road Width: 7.00m	11) Sub structure information -Type:	12) River information: -Approx river width: 18.00m -Approx. river water level: 6.70m from deck -Approx. river depth: 7.70m from deck
13) Year of Construction( if possible):	14) Load Limit( if possible):	-Approx. height:	

50 m

100 m

150 m

Consultant: Oriental Consultants Co. Ltd.	Scale: 1:1400	Name of Engineer/Surveyor: Md. Mahbur Rahman
		Surveyed by: SURVEY2000

### Photo Sheet of the Bridge 1/3

**APPENDIX 3-1**

Zone : Khulna	Division (Sub-division) : Kushiya	LRP : 33b	Chainage : 34.625 km
1) Bridge Name : 79_Balipara Bridge	2) Road Name : Jhenaidah-Kushiya-Paksey Ferry-Dasuria	3) Date & Time : 04.12.13, 1:20	4) GPS Data : Latitude: 23°51'4.165" Longitude: 89°6'26.092"
<b>Photo of the Bridge</b>			

Photo Sheet of the Bridge 2/3

APPENDIX 3-2

Zone : Khulna	Division (Sub-division) : Kushtia	LRP : 33b	Chainage : 34.625 km
1) Bridge Name : 79_Balipara Bridge	2) Road Name : Jhenaidah-Kushtia-PakseyFerry-Dasuria	3) Date & Time : 04.12.13, 1:20	4) GPS Data : Latitude: 23°51'4.165" Longitude: 89°6'26.092"

Photo of the Bridge



Photo Sheet of the Bridge 3/3

APPENDIX 3-3


APPENDIX 4

1. Description of Damages (Present Condition) of the Bridge

Damage of the Bridge (1/2)

Zone : Khulna		Division (Sub-division) : Kushtia		LRP : 33b		Chainage : 34.625 km	
1) Bridge Name : 79_Balipara Bridge		2) Road Name : Jhenaidah-Kushtia-PakseyFerry-Dasuria		3) Date & Time : 04.12.13, 1:20		4) GPS Data : Latitude: 23°51'4.165" Longitude: 89°6'26.092"	
Damage 1		Damage 2		Damage 3		Damage 4	
Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing
Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )
Comments							

Damage of the Bridge (2/2)

Zone : Khulna		Division (Sub-division) : Kusthia		LRP : 33b		Chainage : 34.625 km	
1) Bridge Name :79_ Balipara Bridge		2) Road Name : Jhenaidah-Kushtia-PakseyFerry-Dasuria		3) Date & Time : 04.12.13, 1:20		4) GPS Data : Latitude: 23° 51'4.165" Longitude: 89° 6'26.092"	
Damage 5		Damage 6		Damage 7		Damage 8	
Damage Location	Slab, Girder, Pier, Abutment, √Railing	Damage Location	Slab, Girder, Pier, Abutment	Damage Location	Slab, Girder, Pier, Abutment	Damage Location	Slab, Girder, Pier, Abutment
Damage Type	<u>For Concrete Structure</u> Crack, Spalling, √Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	<u>For Concrete Structure</u> Crack, Spalling, Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	<u>For Concrete Structure</u> Crack, Spalling, Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	<u>For Concrete Structure</u> Crack, Spalling, Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )
							
Comments							

### Bridge and Road Specifications

Zone: Khulna		Division( Subdivision): Narail		LRP: 44a		Chainage: 43.625(km)	
1) Bridge Name/ no: 80-Gurakhali Bridge		2) Road Name: Magura-Narail		3) Date :01-12-2013		4) GPS Data: Lt.23°11'51.212" Lon.89°30'47.502"	
5) Road Category: R-720		6) Bridge Width: 4.80m Carriage Width: 3.70m		7) Bridge Type: R.C.C Bridge		8) Bridge length: 33.00m	
9) Bridge Span Arrangement: Three Span		10) Approach Road Width: 5.60m		11) Sub structure information -Type:		12) River information: -Approx river width: 34.00m -Approx.river water level:6.00m from deck -Approx.river depth: 8.50m from deck	
13) Year of Construction( if possible): 1965		14) Load Limit(if possible):		-Approx. height:			

The map shows the bridge crossing the Madomati River. Approach roads lead 'To Narail' and 'To Magura'. Landmarks include a Mosque, Graveyard, and Homestead. Numerous shops and tin sheds are marked along the roads. Dimensions for spans and approach widths are provided.

NORTH

Consultant: Oriental Consultants Co. Ltd.	Scale: 1:1400	Name of Engineer/Surveyor: Md.Mahbubur Rahman	Surveyed by: SURVEY2000
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### Photo Sheet of the Bridge 1/3

### APPENDIX 3-1

Zone : Khulna		Division (Sub-division) : Narail		LRP : 44a		Chainage : 43.568 km	
1) Bridge Name :80_Gurakhali Bridgw		2) Road Name : Magura-Narail		3) Date & Time : 01.12.13, 11:30am		4) GPS Data : Latitude: 23° 11'51.212" Longitude: 89° 30'47.502"	

**Photo of the Bridge**

Photo ①

Photo ②

Photo ③

Photo ④

Photo ⑤

The diagram shows a cross-section of the bridge with 10 numbered points. Arrows indicate the direction of river flow from top to bottom. Points 1-10 are distributed across the bridge deck and approach roads.

Photo Sheet of the Bridge 2/3

APPENDIX 3-2

Zone : Khulna	Division (Sub-division) : Narail	LRP : 44a	Chainage : 43.568 km
1) Bridge Name :80_Gurakhali Bridgw	2) Road Name : Magura-Narail	3) Date & Time : 01.12.13, 11:30am	4) GPS Data : Latitude: 23° 11'51.212" Longitude: 89° 30'47.502"

Photo of the Bridge



Photo Sheet of the Bridge 3/3

APPENDIX 3-3





APPENDIX 4

1. Description of Damages (Present Condition) of the Bridge



Damage of the Bridge (1/3)

Zone : Khulna		Division (Sub-division) : Narail		LRP : 44a		Chainage : 43.568 km	
1) Bridge Name :80_Gurakhali Bridgw		2) Road Name : Magura-Narail		3) Date & Time : 01.12.13, 11:30am		4) GPS Data : Latitude: 23° 11'51.212" Longitude: 89° 30'47.502"	
Damage 1		Damage 2		Damage 3		Damage 4	
Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing
Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )
Comments							

Damage of the Bridge (2/3)

Zone : Khulna		Division (Sub-division) : Narail		LRP : 44a		Chainage : 43.568 km	
1) Bridge Name :80_Gurakhali Bridgw		2) Road Name : Magura-Narail		3) Date & Time : 01.12.13, 11:30am		4) GPS Data : Latitude: 23° 11'51.212" Longitude: 89° 30'47.502"	
Damage 5		Damage 6		Damage 7		Damage 8	
Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing
Damage Type	<u>For Concrete Structure</u> Crack, Spalling, /Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type <u>For Concrete Structure</u> Crack, Spalling, /Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type <u>For Concrete Structure</u> Crack, Spalling, /Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type <u>For Concrete Structure</u> Crack, Spalling, /Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type <u>For Concrete Structure</u> Crack, Spalling, /Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type <u>For Concrete Structure</u> Crack, Spalling, /Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type <u>For Concrete Structure</u> Crack, Spalling, /Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )
							
Comments							

Damage of the Bridge (3/3)

Zone : Khulna		Division (Sub-division) : Narail		LRP : 44a		Chainage : 43.568 km	
1) Bridge Name :80_Gurakhali Bridgw		2) Road Name : Magura-Narail		3) Date & Time : 01.12.13, 11:30am		4) GPS Data : Latitude: 23° 11'51.212" Longitude: 89° 30'47.502"	
Damage		Damage 1		Damage 11		Damage 12	
Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	/Slab, Girder, Pier, Abutment	Damage Location	Slab, Girder, Pier, Abutment	Damage Location	Slab, Girder, Pier, Abutment
Damage Type	<u>For Concrete Structure</u> Crack, Spalling, /Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type <u>For Concrete Structure</u> /Crack, Spalling, Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type <u>For Concrete Structure</u> /Crack, Spalling, Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type <u>For Concrete Structure</u> Crack, Spalling, Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type <u>For Concrete Structure</u> Crack, Spalling, Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type <u>For Concrete Structure</u> Crack, Spalling, Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type <u>For Concrete Structure</u> Crack, Spalling, Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )
							
Comments							

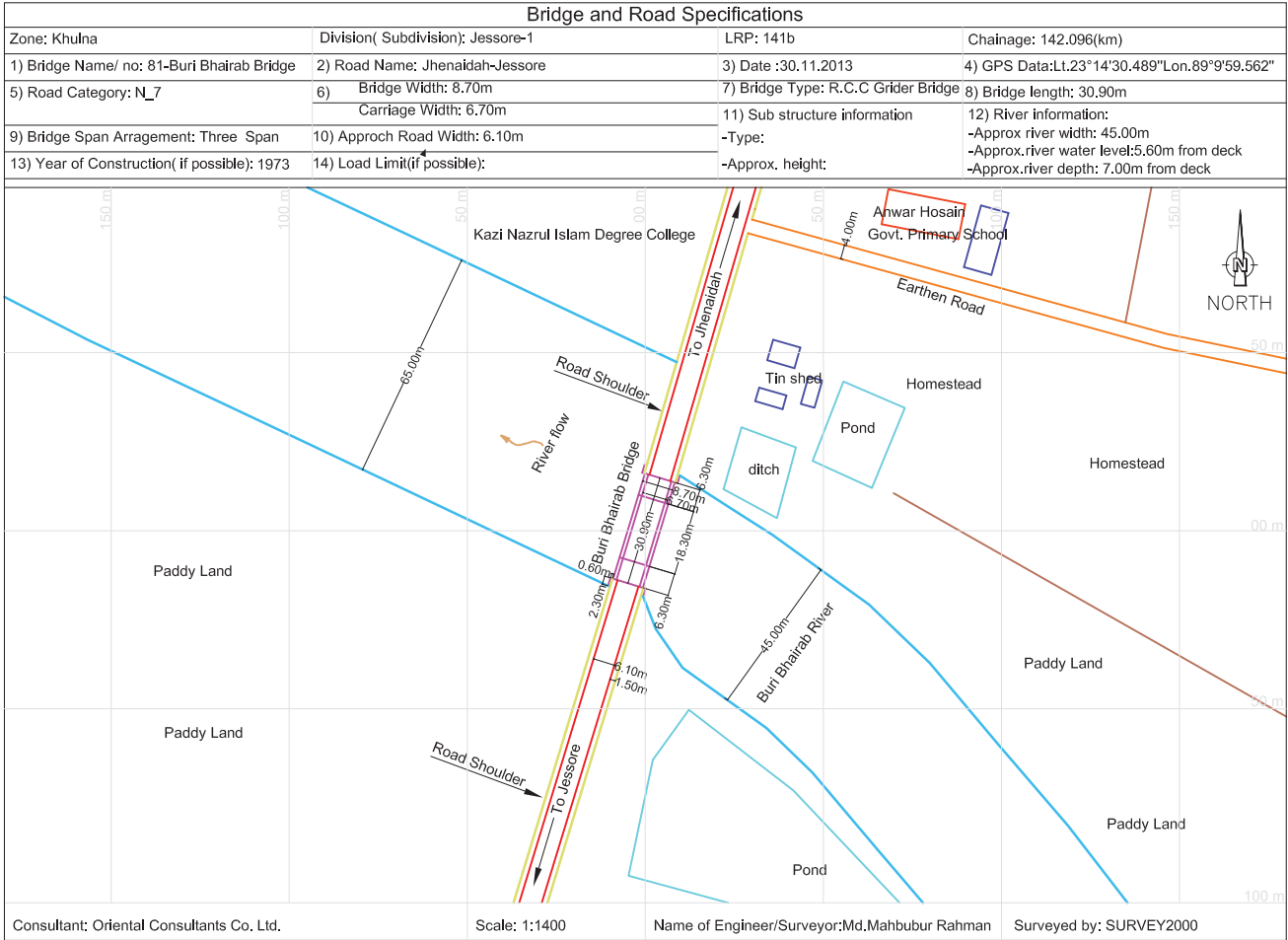


Photo Sheet of the Bridge 1/3

APPENDIX 3-1

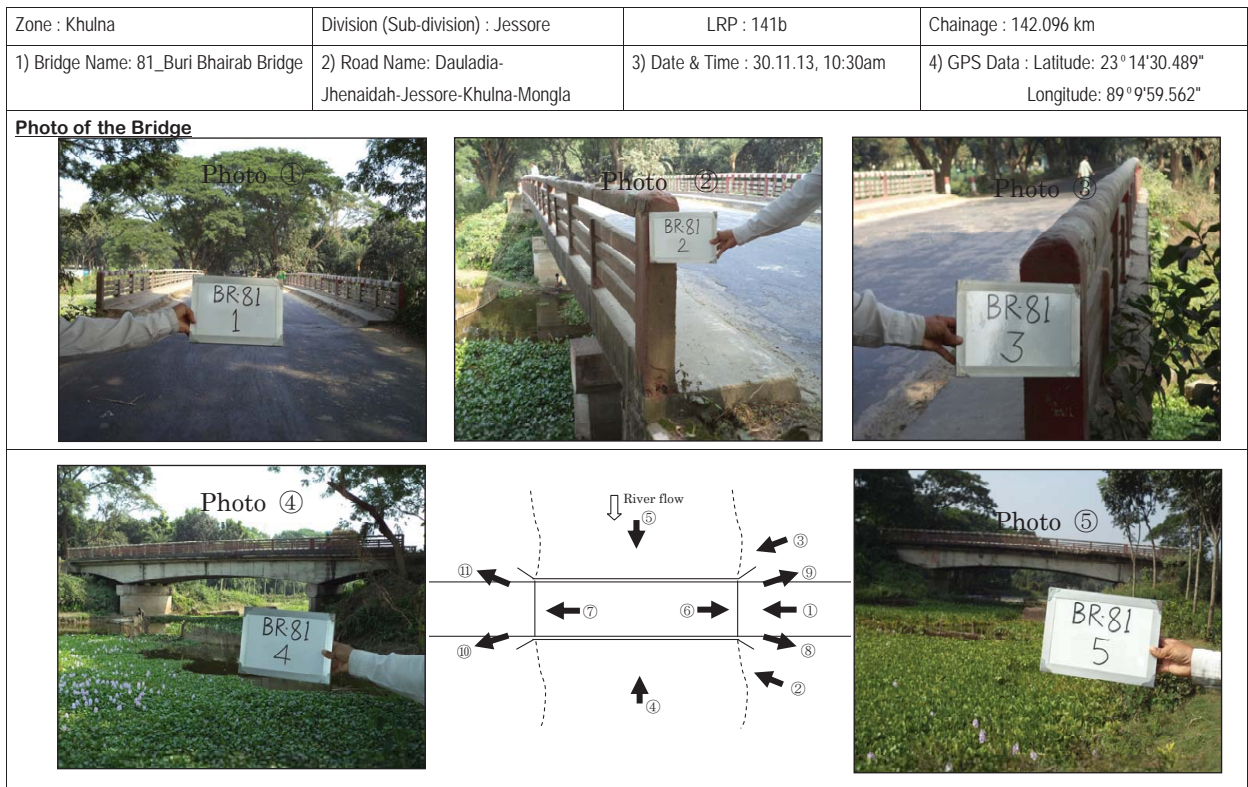




Photo Sheet of the Bridge 2/3

APPENDIX 3-2

Zone : Khulna	Division (Sub-division) : Jessore	LRP : 141b	Chainage : 142.096 km
1) Bridge Name: 81_Buri Bhairab Bridge	2) Road Name: Dauladia-Jhenaidah-Jessore-Khulna-Mongla	3) Date & Time : 30.11.13, 10:30am	4) GPS Data : Latitude: 23° 14'30.489" Longitude: 89° 9'59.562"
<b>Photo of the Bridge</b>			
			
			

Photo Sheet of the Bridge 3/3

APPENDIX 3-3  
APPENDIX 4

1. Description of Damages (Present Condition) of the Bridge

Damage of the Bridge (1/1)



Zone : Khulna		Division (Sub-division) : Jessore		LRP : 141b		Chainage : 142.096 km	
1) Bridge Name : 81_Buri Bhairab Bridge		2) Road Name: Dauladia-Jhenaidah-Jessore-Khulna-Mongla		3) Date & Time : 30.11.13, 10:30am		4) GPS Data : Latitude: 23° 14'30.489" Longitude: 89° 9'59.562"	
Damage 1		Damage 2		Damage 3		Damage 4	
Damage Location	Slab, Girder, Pier, Abutment, √Railing	Damage Location	Slab, Girder, Pier, Abutment, √Railing	Damage Location	Slab, Girder, Pier, Abutment	Damage Location	Slab, Girder, Pier, Abutment
Damage Type	For Concrete Structure Crack, Spalling, √Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure √Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )
							
Comments							



Photo Sheet of the Bridge 2/3

APPENDIX 3-2

Zone : Khulna	Division (Sub-division) : Magura	LRP : 76d	Chainage : 76.672 km
1) Bridge Name : 82_Naba Ganga Bridge	2) Road Name : Dauladia-Jhenaidah-Jessore-Khulna-Mongla	3) Date & Time :02.12.13, 08:30am	4) GPS Data : Latitude: 23° 29'20.484" Longitude: 89° 25'44.579"
<b>Photo of the Bridge</b>			
			
			





Photo Sheet of the Bridge 3/3

APPENDIX 3-3





APPENDIX 4

1. Description of Damages (Present Condition) of the Bridge





Damage of the Bridge (1/5)

Zone : Khulna		Division (Sub-division) : Magura		LRP : 76d		Chainage : 76.672 km	
1) Bridge Name : 82_Naba Ganga Bridge		2) Road Name : Dauladia-Jhenaidah-Jessore-Khulna-Mongla		3) Date & Time :02.12.13, 08:30am		4) GPS Data : Latitude: 23° 29'20.484" Longitude: 89° 25'44.579"	
Damage 1		Damage 2		Damage 3		Damage 4	
Damage Location	Slab, Girder, Pier, Abutment Railing	Damage Location	Slab, Girder, Pier, Abutment	Damage Location	Slab, Girder, Pier, Abutment	Damage Location	Slab, Girder, Pier, Abutment
Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )
							
Comments							





Damage of the Bridge (2/5)

Zone : Khulna		Division (Sub-division) : Magura		LRP : 76d		Chainage : 76.672 km	
1) Bridge Name : 82_Naba Ganga Bridge		2) Road Name : Dauladia-Jhenaidah-Jessore-Khulna-Mongla		3) Date & Time :02.12.13, 08:30am		4) GPS Data : Latitude: 23°29'20.484" Longitude: 89°25'44.579"	
Damage 5		Damage 6		Damage 7		Damage 8	
Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing
Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )
							
Comments							


Damage of the Bridge (3/5)

Zone : Khulna		Division (Sub-division) : Magura		LRP : 76d		Chainage : 76.672 km	
1) Bridge Name : 82_Naba Ganga Bridge		2) Road Name : Dauladia-Jhenaidah-Jessore-Khulna-Mongla		3) Date & Time :02.12.13, 08:30am		4) GPS Data : Latitude: 23°29'20.484" Longitude: 89°25'44.579"	
Damage		Damage 1		Damage 11		Damage 12	
Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing
Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )
							
Comments							

Damage of the Bridge (4/5)

Zone : Khulna		Division (Sub-division) : Magura		LRP : 76d		Chainage : 76.672 km	
1) Bridge Name : 82_Naba Ganga Bridge		2) Road Name : Dauladia-Jhenaidah-Jessore-Khulna-Mongla		3) Date & Time :02.12.13, 08:30am		4) GPS Data : Latitude: 23° 29'20.484" Longitude: 89° 25'44.579"	
Damage 13		Damage 14		Damage 15		Damage 16	
Damage Location	Slab, Girder, Pier, Abutment, Railing	Damage Location	Slab, Girder, Pier, Abutment, Railing	Damage Location	Slab, Girder, Pier, Abutment, Railing	Damage Location	Slab, Girder, Pier, Abutment, Railing
Damage Type	For Concrete Structure Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )
							
Comments							

Damage of the Bridge (5/5)

Zone : Khulna		Division (Sub-division) : Magura		LRP : 76d		Chainage : 76.672 km	
1) Bridge Name : 82_Naba Ganga Bridge		2) Road Name : Dauladia-Jhenaidah-Jessore-Khulna-Mongla		3) Date & Time :02.12.13, 08:30am		4) GPS Data : Latitude: 23° 29'20.484" Longitude: 89° 25'44.579"	
Damage 17		Damage 18		Damage 1		Damage 2	
Damage Location	Slab, Girder, Pier, Abutment, Railing	Damage Location	Slab, Girder, Pier, Abutment	Damage Location	Slab, Girder, Pier, Abutment	Damage Location	Slab, Girder, Pier, Abutment
Damage Type	For Concrete Structure Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )
							
Comments							

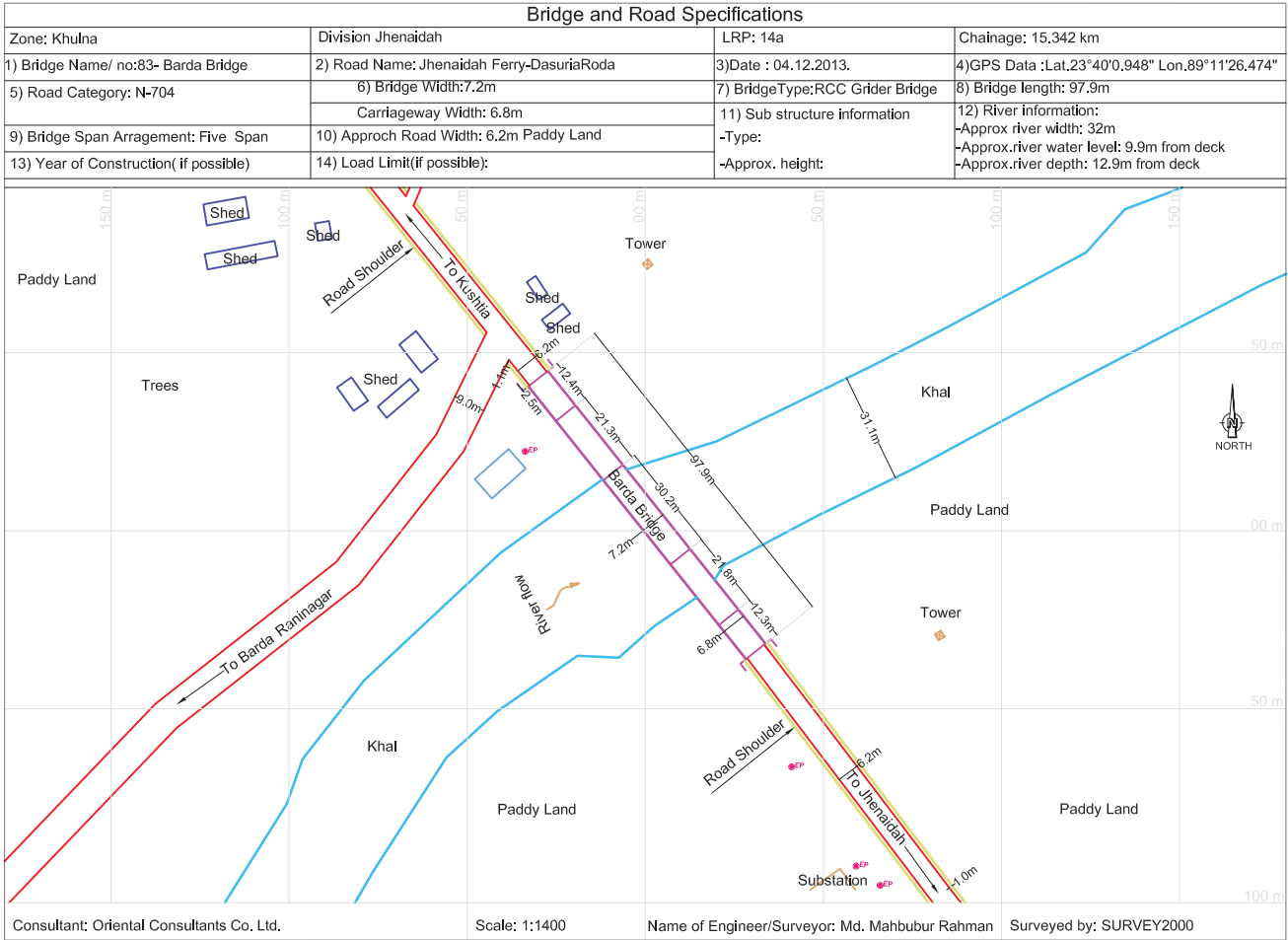


Photo Sheet of the Bridge 1/3

APPENDIX 3-1

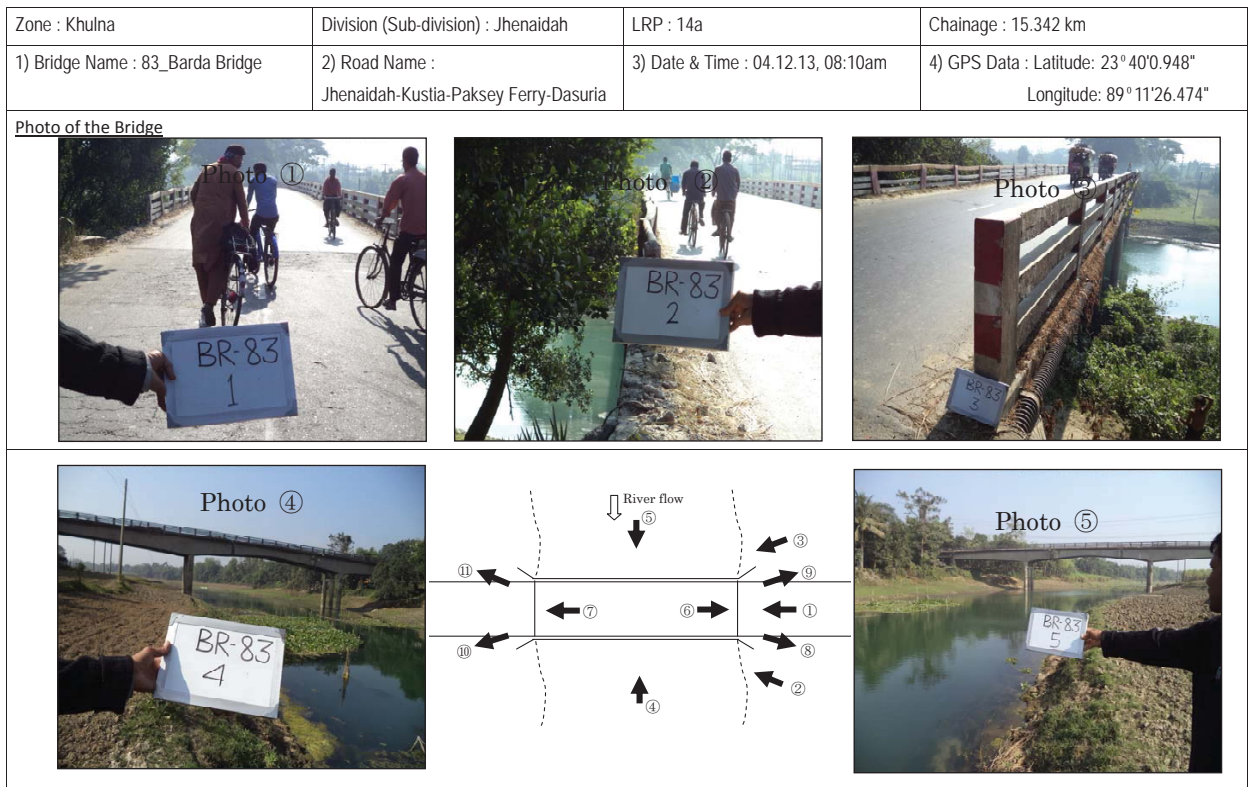


Photo Sheet of the Bridge 2/3

APPENDIX 3-2

Zone : Khulna	Division (Sub-division) : Jhenaidah	LRP : 14a	Chainage : 15.342 km
1) Bridge Name : 83_Barda Bridge	2) Road Name : Jhenaidah-Kustia-Paksey Ferry-Dasuria	3) Date & Time : 04.12.13, 08:10am	4) GPS Data : Latitude: 23° 40'0.948" Longitude: 89° 11'26.474"
<b>Photo of the Bridge</b>			
			
			





Photo Sheet of the Bridge 3/3

APPENDIX 3-3


APPENDIX 4

1. Description of Damages (Present Condition) of the Bridge



Damage of the Bridge (1/3)

Zone : Khulna		Division (Sub-division) : Jhenaidah		LRP : 14a		Chainage : 15.342 km	
1) Bridge Name : 83_Barda Bridge		2) Road Name : Jhenaidah-Kustia-Paksey Ferry-Dasuria		3) Date & Time : 04.12.13, 08:10am		4) GPS Data : Latitude: 23° 40'0.948" Longitude: 89° 11'26.474"	
Damage 1		Damage 2		Damage 3		Damage 4	
Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing
Damage Type	For Concrete Structure Crack, Spalling, Rebar exposure Others ( Missing ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )
				Comments			

Damage of the Bridge (2/3)

Zone : Khulna		Division (Sub-division) : Jhenaidah		LRP : 14a		Chainage : 15.342 km	
1) Bridge Name : 83_Barda Bridge		2) Road Name : Jhenaidah-Kustia-Paksey Ferry-Dasuria		3) Date & Time : 04.12.13, 08:10am		4) GPS Data : Latitude: 23° 40'0.948" Longitude: 89° 11'26.474"	
Damage 5		Damage 6		Damage 7		Damage 8	
Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing
Damage Type	<u>For Concrete Structure</u> Crack, Spalling, /Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	<u>For Concrete Structure</u> Crack, Spalling, /Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	<u>For Concrete Structure</u> Crack, Spalling, /Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	<u>For Concrete Structure</u> Crack, Spalling, /Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )
							
Comments							

Damage of the Bridge (3/3)

Zone : Khulna		Division (Sub-division) : Jhenaidah		LRP : 14a		Chainage : 15.342 km	
1) Bridge Name : 83_Barda Bridge		2) Road Name : Jhenaidah-Kustia-Paksey Ferry-Dasuria		3) Date & Time : 04.12.13, 08:10am		4) GPS Data : Latitude: 23° 40'0.948" Longitude: 89° 11'26.474"	
Damage		Damage 1		Damage 11		Damage 12	
Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, /Girder, Pier, Abutment
Damage Type	<u>For Concrete Structure</u> Crack, Spalling, /Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	<u>For Concrete Structure</u> Crack, Spalling, /Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	<u>For Concrete Structure</u> Crack, Spalling, /Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	<u>For Concrete Structure</u> /Crack, Spalling, Rebar exposure Others ( ) <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ( )
							
Comments							



**Bridge and Road Specifications**

Zone: Khulna		Division( Subdivision): Khulna ( Khulna 2 )		LRP: 003a		Chainage: 3.37 km	
1) Bridge Name/ No: 84 - Gollamari bridge		2) Road Name: Khulna - Chuknagar - Sathkira Road		3) Date : 25-11-2013		4)GPS Data: Lt: 22°48'2.516" Lon: 89°32'21.517"	
5) Road Category: R- 760		Bridge Width: 8.4m Carriageway Width: 6.5m		7) Bridge Type: R.C.C Girder Bridge		8) Bridge length: 57.6m	
9) Bridge Span Arrangement: Three Span		10) Approach Road Width: 10.0m east side & 11.5m west side		11) Sub structure information		12) River information: -Approx river width: 53.0m -Approx. river water level: 5.5m from deck -Approx. river depth: 7.5m from deck	
13) Year of Construction( if possible):		14) Load Limit(if possible):		-Type:			
				-Approx. height:			

Consultant: Oriental Consultants Co. Ltd.      Scale: 1:1400      Name of Engineer/Surveyor: Md. Mahbubur Rahman      Surveyed by: SURVEY2000

**Photo Sheet of the Bridge 1/3**

APPENDIX 3-1

Zone : Khulna		Division (Sub-division) : Khulna-2		LRP : 003a		Chainage : 3.37 km	
1) Bridge Name : 84_Gollamari Bridge		2) Road Name : Khulna-Chuknagar-Sathkira		3) Date & Time : 25.11.13, 02:15pm		4) GPS Data : Latitude: 22° 48' 2.516" Longitude: 89° 32' 21.517"	
<b>Photo of the Bridge</b>							
<p align="center">Photo ①</p>		<p align="center">Photo ②</p>		<p align="center">Photo ③</p>			
<p align="center">Photo ④</p>		<p align="center">River flow</p>		<p align="center">Photo ⑤</p>			

Photo Sheet of the Bridge 2/3

APPENDIX 3-2

Zone : Khulna	Division (Sub-division) : Khulna-2	LRP : 003a	Chainage : 3.37 km
1) Bridge Name : 84_Gollamari Bridge	2) Road Name : Khulna-Chuknagar-Satkhira	3) Date & Time : 25.11.13, 02:15pm	4) GPS Data : Latitude: 22° 48' 2.516" Longitude: 89° 32' 21.517"
<b>Photo of the Bridge</b>			
			
			


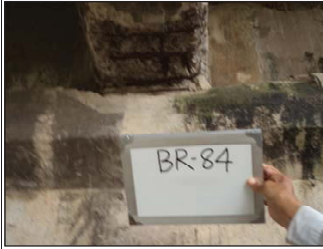


Photo Sheet of the Bridge 3/3

APPENDIX 3-3





APPENDIX 4

1. Description of Damages (Present Condition) of the Bridge


Damage of the Bridge (1/3)

Zone : Khulna		Division (Sub-division) : Khulna-2		LRP : 003a		Chainage : 3.37 km	
1) Bridge Name : 84_Gollamari Bridge		2) Road Name : Khulna-Chuknagar-Satkhira		3) Date & Time : 25.11.13, 02:15pm		4) GPS Data : Latitude: 22° 48' 2.516" Longitude: 89° 32' 21.517"	
Damage 1		Damage 2		Damage 3		Damage 4	
Damage Location	Slab, /Girder, Pier, Abutment	Damage Location	Slab, /Girder, Pier, Abutment	Damage Location	Slab, /Girder, Pier, Abutment	Damage Location	Slab, Girder, Pier, /Abutment
Damage Type	For Concrete Structure /Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )
				Comments			

Damage of the Bridge (2/3)

Zone : Khulna		Division (Sub-division) : Khulna-2		LRP : 003a		Chainage : 3.37 km	
1) Bridge Name : 84_Gollamari Bridge		2) Road Name :Khulna-Chuknagar-Satkhira		3) Date & Time : 25.11.13, 02:15pm		4) GPS Data : Latitude: 22° 48'2.516" Longitude: 89° 32'21.517"	
Damage 5		Damage 6		Damage 7		Damage 8	
Damage Location	Slab, Girder, Pier, /Abutment	Damage Location	Slab, /Girder, Pier, Abutment	Damage Location	Slab, Girder, Pier, Abutment, /Footpath	Damage Location	Slab, /Girder, Pier, Abutment
Damage Type	For Concrete Structure Crack, Spalling, /Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure /Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure /Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure /Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )
							
Comments							

Damage of the Bridge (2/3)

Zone : Khulna		Division (Sub-division) : Khulna-2		LRP : 003a		Chainage : 3.37 km	
1) Bridge Name : 84_Gollamari Bridge		2) Road Name :Khulna-Chuknagar-Satkhira		3) Date & Time : 25.11.13, 02:15pm		4) GPS Data : Latitude: 22° 48'2.516" Longitude: 89° 32'21.517"	
Damage		Damage 1		Damage 11		Damage 12	
Damage Location	Slab, /Girder, Pier, Abutment	Damage Location	Slab, Girder, Pier, Abutment	Damage Location	Slab, Girder, Pier, Abutment	Damage Location	Slab, Girder, Pier, Abutment
Damage Type	For Concrete Structure /Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )	Damage Type	For Concrete Structure Crack, Spalling, Rebar exposure Others ( ) For Steel Structure Corrosion, Missing bolt, Deformed section Others ( )
							
Comments							