

Bridge and Road Specifications

Zone: Barisal	Division(Subdivision): Jhalokathi / Jhalokathi	LRP: 1d	Chainage: 2.133 km
1) Bridge Name/ no:13 -Lebubunia Steel Bridge	2) Road Name: Dhaka - Patuakhali	3) Date & Time: 24-11-2013	4)GPS Data:Lat 22°34'30.825"Lon.90°5'16.77"
5) Road Category: Z - 8717	6) Bridge Width:4.10m Carriage Width:3.20m	7) BridgeType:Bailey with Steel Deck	8) Bridge length: 21.50m
9) Bridge Span Arrangement: Single Span	10) Approach Road Width: 4.00m	11) Sub structure information	12) River information: -Approx river width:canal width 14m -Approx. river water level: 3.20m from deck -Approx. river depth: 7.00m from deck
13) Year of Construction(if possible):	14) Load Limit(if possible):	-Type: -Approx. height:	

Scale: 1:1400

Name of Engineer/Surveyor: Md. Azadl

Surveyed by: SURVEY2000

Photo Sheet of the Bridge 1/3

APPENDIX 3-1

Zone : Barisal	Division (Sub-division) : Jhalokati	LRP : 1b	Chainage : 2.133 km
1) Bridge Name :13- Lebubunia Bazar Steel Bridge	2) Road Name : Naikati Bhandaria	3) Date & Time : 24.11.2013_8:30 am	4) GPS Data : Latitude 22° 34'30.825" Longitude 90° 5'16.777"

Photo of the Bridge

Photo Sheet of the Bridge 2/3

APPENDIX 3-2

Zone : Barisal	Division (Sub-division) : Jhalokati	LRP : 1b	Chainage : 2.133 km
1) Bridge Name :13- Lebubunia Bazar Steel Bridge	2) Road Name : Naikati Bhandaria	3) Date & Time : 24.11.2013_8:30 am	4) GPS Data : Latitude 22° 34'30.825" Longitude 90° 5'16.777"
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 (1/1)

Zone : Barisal		Division (Sub-division) : Jhalokati		LRP : 1b		Chainage : 2.133 km	
1) Bridge Name :13- Lebubunia Bazar Steel Bridge		2) Road Name : Naikati Bhandaria		3) Date & Time : 24.11.2013_8:30 am		4) GPS Data : Latitude 22° 34'30.825" Longitude 90° 5'16.777"	
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	<u>For Concrete Structure</u> Crack, Spalling, Rebar exposure Others () <u>For Steel Structure</u> Corrosion, √Missing bolt, Deformed section Others ()	<u>For Concrete Structure</u> Crack, Spalling, Rebar exposure Others () <u>For Steel Structure</u> Corrosion, √Missing bolt, Deformed section Others ()	<u>For Concrete Structure</u> Crack, Spalling, Rebar exposure Others () <u>For Steel Structure</u> Corrosion, Missing bolt, Deformed section Others ()	<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: Barisal	Division(Subdivision): Barisal - Barisal - 01	LRP: 017a	Chainage: 17.477 km
1) Bridge Name/ No: 14 -Rayerhat Bridge	2) Road Name: Gariarper - Banaripara - Naikati	3) Date : 02-12-2013	4)GPS Data :Lat.21°52'30.807"Lon.90°11'10.188"
5) Road Category: Z - 8033	6) Bridge Width: 4.30m Carriage Width: 3.10m	7) BridgeType: R.C.C.Girder Bridge	8) Bridge length: 42.40m
9) Bridge Span Arrangement: Five Span	10) Approach Road Width: 5.40m	11) Sub structure information	12) River information: -Approx river width:canal width 38.00m -Approx.river water level: 5.20m from deck -Approx.river depth: 8.90m 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. Azad Surveyed by: SURVEY2000

Photo Sheet of the Bridge 1/3

APPENDIX 3-1

Zone : Barisal	Division (Sub-division) :Barisal Barisal 1	LRP : 017a	Chainage : 17.477 km
1) Bridge Name :14- Raiyerhat Bridge	2) Road Name : Gariarpar Naikati	3) Date & Time : 02.12.2013_09:15 am	4) GPS Data : Latitude 21° 52'30.807" Longitude 90° 11'10.188"
Photo of the Bridge			

Photo Sheet of the Bridge 2/3

APPENDIX 3-2







Zone : Barisal	Division (Sub-division) :Barisal Barisal 1	LRP : 017a	Chainage : 17.477 km
1) Bridge Name :14- Raiyerhat Bridge	2) Road Name : Gariarpar Naikati	3) Date & Time : 02.12.2013_09:15 am	4) GPS Data : Latitude 21°52'30.807" Longitude 90°11'10.188"
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 (1/1)

Zone : Barisal		Division (Sub-division) :Barisal Barisal 1		LRP : 017a		Chainage : 17.477 km	
1) Bridge Name :14- Raiyerhat Bridge		2) Road Name : Gariarpar Naikati		3) Date & Time : 02.12.2013_09:15 am		4) GPS Data : Latitude 21°52'30.807" Longitude 90°11'10.188"	
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 (2/2)

Zone : Barisal		Division (Sub-division) :Barisal Barisal 1		LRP : 017a		Chainage : 17.477 km	
1) Bridge Name :14- Raiyerhat Bridge		2) Road Name : Gariarpar Naikati		3) Date & Time : 02.12.2013_09:15 am		4) GPS Data : Latitude 21°52'30.807" Longitude 90°11'10.188"	
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	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 (3/3)

Zone : Barisal		Division (Sub-division) :Barisal Barisal 1		LRP : 017a		Chainage : 17.477 km	
1) Bridge Name :14- Raiyerhat Bridge		2) Road Name : Gariarpar Naikati		3) Date & Time : 02.12.2013_09:15 am		4) GPS Data : Latitude 21°52'30.807" Longitude 90°11'10.188"	
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, /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: BARISAL	Division(Subdivision): Barguna / Barguna	LRP: 74a	Chainage: 75.398 km
1) Bridge Name/ No:15-Patharghata Steel Bridge	2) Road Name: Rajapur - Patharghata	3) Date & Time: 25-11-2013 .	4) GPS Data:Lat 22°2'58.495" .Lon. 89°58'34.15"
5) Road Category: Z - 8708	6) Bridge Width: 4.80m Carriageway Width: 3.60m	7)BridgeType:Bailey with Steel Deck	8) Bridge length: 69.00m
9) Bridge Span Arrangement: Three Span	10) Approach Road Width: 4.00m	11) Sub structure information -Type: -Approx. height:	12) River information: -Approx river width: 48m -Approx.river water level: 8.00m from deck -Approx.river depth: 17.30m from deck
13) Year of Construction(if possible):	14) Load Limit(if possible):		

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

Photo Sheet of the Bridge 1/3

APPENDIX 3-1

Zone : Barisal	Division (Sub-division) : Barguna	LRP : 74a	Chainage : 75.398 km
1) Bridge Name: 15-Patharghata Steel Bridge	2) Road Name : Ragapur -Patuakhali	3) Date & Time : 25.11.2013 8:30 am	4) GPS Data : Latitude 22° 2'58.495" Longitude 89° 58'34.15"
Photo of the Bridge			

Photo Sheet of the Bridge 2/3

APPENDIX 3-2

Zone : Barisal	Division (Sub-division) : Barguna	LRP : 74a	Chainage : 75.398 km
1) Bridge Name: 15-Patharghata Steel Bridge	2) Road Name : Ragapur Patuakhali	3) Date & Time : 25.11.2013 8:30 am	4) GPS Data : Latitude 22° 2'58.495" Longitude 89° 58'34.15"
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 : Barisal		Division (Sub-division) : Barguna		LRP : 74a		Chainage : 75.398 km	
1) Bridge Name:15-Patharghata Steel Bridge		2) Road Name : Ragapur -Patuakhali		3) Date & Time : 25.11.2013 8:30 am		4) GPS Data : Latitude 22° 2'58.495" Longitude 89° 58'34.15"	
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
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: BARISAL	Division(Sub-division): Jhalokathi	LRP: 12b	Chainage: 12.174 km
1) Bridge Name/ No:16 - Satani Bazar Bridge	2) Road Name: Rajapur - Amua - Patharghata	3) Date & Time: 29-11-2013 .	4) GPS Data: La 22°28'51.337". Lo 90°9'21.9"
5) Road Category: Z-8708	6) Bridge Width: 3.80m Carriageway Width: 3.10m	7) Bridge Type: Bailey with Steel Deck	8) Bridge length: 51.00m
9) Bridge Span Arrangement: Seven Span	10) Approach Road Width: 5.60m	11) Sub structure information	12) River information: -Approx river width: 42m -Approx. river water level: 4.10m from deck -Approx. river depth: 5.80m 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. Azad
		Surveyed by: SURVEY2000

Photo Sheet of the Bridge 1/3

APPENDIX 3-1

Zone : Barisal	Division (Sub-division) : Jhalokati	LRP : 12b	Chainage : 12.174 km
1) Bridge Name : 16-Saani Bazar Bridge	2) Road Name : Rajapur Patharghata	3) Date & Time : 29.11.2013-8:00 am	4) GPS Data : Latitude 22° 28'51.337" Longitude 90° 9'21.9"
Photo of the Bridge			
<p style="text-align: center;">Photo ①</p>	<p style="text-align: center;">Photo ②</p>	<p style="text-align: center;">Photo ③</p>	
<p style="text-align: center;">Photo ④</p>	<p style="text-align: center;">River flow</p>	<p style="text-align: center;">Photo ⑤</p>	

Photo Sheet of the Bridge 2/3

APPENDIX 3-2



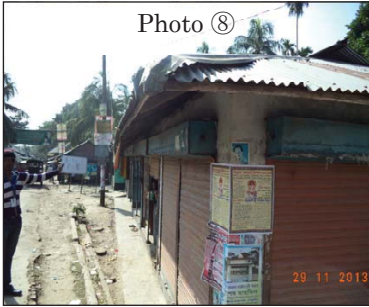



Zone : Barisal	Division (Sub-division) : Jhalokati	LRP : 12b	Chainage : 12.174 km
1) Bridge Name: 16-Saani Bazar Bridge	2) Road Name : Rajapur Patharghata	3) Date & Time : 29.11.2013-8:00 am	4) GPS Data : Latitude 22° 28'51.337" Longitude 90° 9'21.9"
Photo of the Bridge			
			
			

Photo Sheet of the Bridge 3/3

APPENDIX 3-3

APPENDIX 4

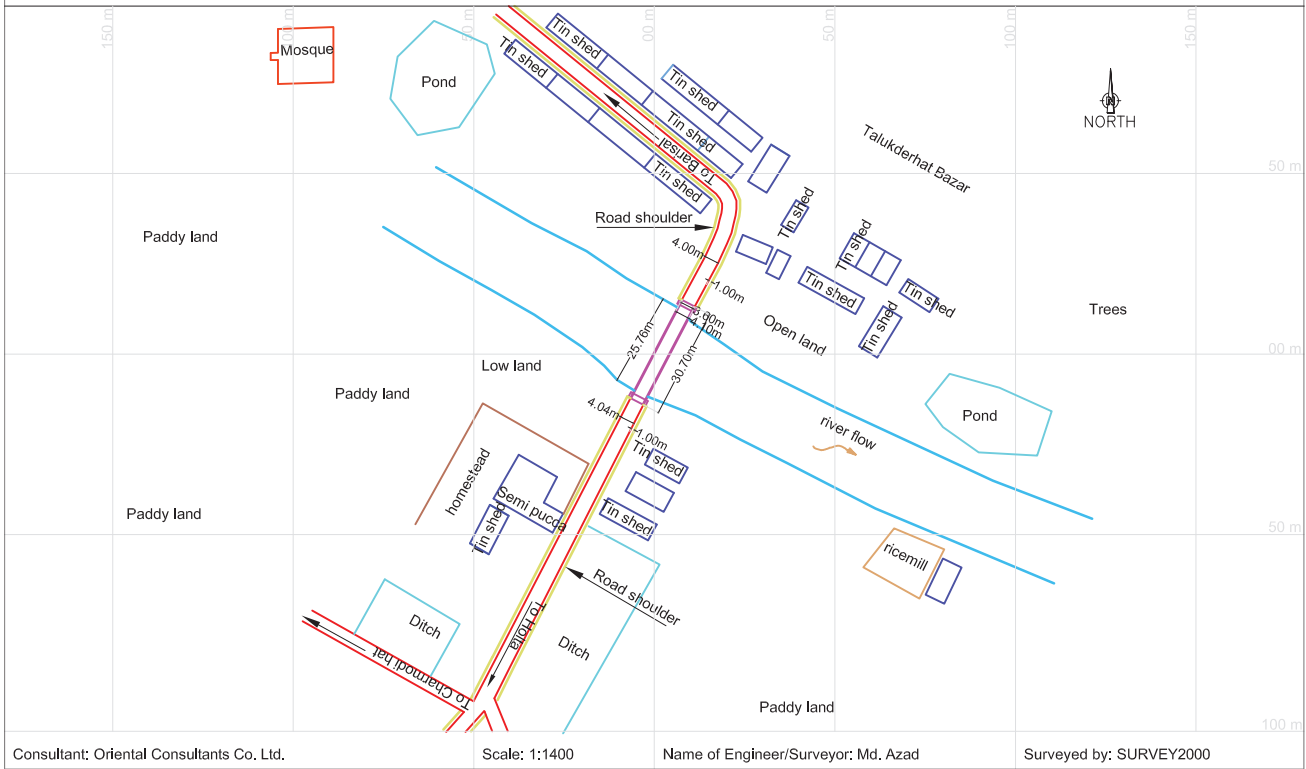
1. Description of Damages (Present Condition) of the Bridge

Damage of the Bridge (1/1)

Zone : Barisal		Division (Sub-division) : Jhalokati		LRP : 12b		Chainage : 12.174 km	
1) Bridge Name: 16-Saani Bazar Bridge		2) Road Name : Rajapur Patharghata		3) Date & Time : 29.11.2013-8:00 am		4) GPS Data : Latitude 22° 28'51.337" Longitude 90° 9'21.9"	
Damage 1		Damage 2		Damage 3		Damage 4	
Damage Location	√Slab, Girder, Pier, Abutment	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			

Bridge and Road Specifications

Zone: BARISAL	Division(Subdivision): Barisal - Barisal 2	LRP: 004a	Chainage: 3.57 km
1) Bridge Name/ no: 17 - Talukderhat Bridge	2) Road Name: Barisal - Denerpool - Dumki.	3) Date & Time: 01-12-2013 .	4) GPS Data:La 22°39'45.663" Lon.90°24'49.351"
5) Road Category: Z - 8044	6) Bridge Width: 4.10m Carriageway Width: 3.60m	7)BridgeType:Bailey with Steel Deck	8) Bridge length: 30.70m
9) Bridge Span Arrangement: Single Span	10)Approach Road Width:4.00m	11) Sub structure information -Type: -Approx. height:	12) River information: -Approx river width: 25m -Approx.river water level: 3.70m from deck -Approx.river depth: 6.30m from deck
13) Year of Construction(if possible):	14) Load Limit(if possible):		



Consultant: Oriental Consultants Co. Ltd.

Scale: 1:1400

Name of Engineer/Surveyor: Md. Azad

Surveyed by: SURVEY2000

Photo Sheet of the Bridge 1/3

APPENDIX 3-1

Zone : Barisal	Division (Sub-division) : Barisal2	LRP : 004a	Chainage : 3.57 km
1) Bridge Name: 17-Talukdarhat Bailey Bridge	2) Road Name : Barisal Dumki	3) Date & Time : 01.12.2013-03:30 pm	4) GPS Data : Latitude 22°39'45.663" Longitude 90°24'49.351"

Photo of the Bridge

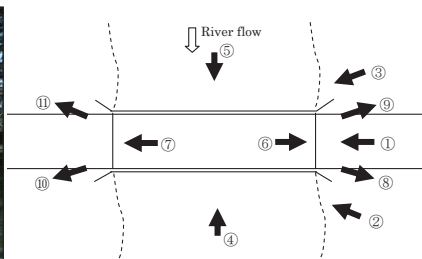


Photo Sheet of the Bridge 2/3

APPENDIX 3-2

Zone : Barisal	Division (Sub-division) : Barisal2	LRP : 004a	Chainage : 3.57 km
1) Bridge Name: 17-Talukdarhat Bailey Bridge	2) Road Name : Barisal Dumki	3) Date & Time : 01.12.2013-03:30 pm	4) GPS Data : Latitude 22° 39'45.663" Longitude 90° 24'49.351"
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 : Barisal		Division (Sub-division) : Barisal2		LRP : 004a		Chainage : 3.57 km	
1) Bridge Name: 17-Talukdarhat Bailey Bridge		2) Road Name : Barisal Dumki		3) Date & Time : 01.12.2013-03:30 pm		4) GPS Data : Latitude 22° 39'45.663" Longitude 90° 24'49.351"	
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, √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: BARISAL	Division(Subdivision): Barisal / Barisal	LRP: 011a	Chainage: 12,418 km
1) Bridge Name/ no: 18 - Paderhat Bridge	2) Road Name: Rahamatpur - Muladi - Hijla	3) Date : 03.12.2013.	4) GPS Data :Lat. 22°50'15.485" Lon.90°22'34.978"
5) Road Category: Z - 8034	6) Bridge Width: 4.50m Carriageway Width: 3.30m	7) Bridge Type: Bailey with Steel Deck	8) Bridge length: 33.70m
9) Bridge Span Arrangement : Single Span	10) Approach Road Width: 5.50m	11) Sub structure information -Type: -Approx. height:	12) River information: -Approx river width: 16.82m -Approx. river water level: 4.20m from deck -Approx. river depth: 5.50m from deck
13) Year of Construction(if possible): 1990	14) Load Limit(if possible):		

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

Photo Sheet of the Bridge 1/3

APPENDIX 3-1

Zone : Barisal	Division (Sub-division) : Barisal1	LRP : 011a	Chainage : 12.418
1) Bridge Name : 18-Padarhat Bridge	2) Road Name : Rahamatpur- Muladihizla	3) Date & Time : 03.12.2013;8:12 am	4) GPS Data : Latitude 22°50'15.485" Longitude 90°22'34.978"

Photo of the Bridge

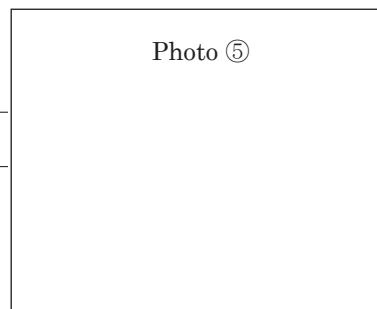
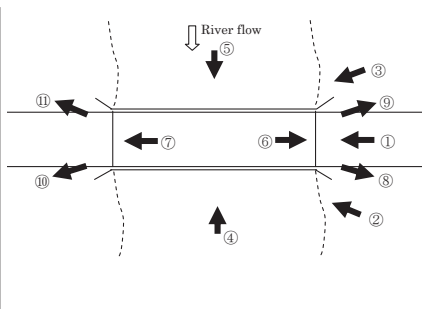
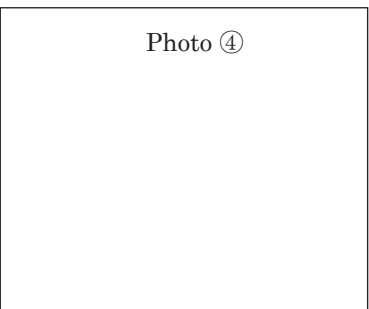


Photo Sheet of the Bridge 2/3


APPENDIX 3-2

Zone : Barisal	Division (Sub-division) : Barisal1	LRP : 011a	Chainage : 12.418
1) Bridge Name : 18-Padarhat Bridge	2) Road Name : Rahamatpur- Muladhizla	3) Date & Time : 03.12.2013:8:12 am	4) GPS Data : Latitude 22°50'15.485" Longitude 90°22'34.978"
Photo of the Bridge			
 <p>Photo ⑥</p>		 <p>Photo ⑦</p>	
 <p>Photo ⑧</p>		 <p>Photo ⑨</p>	
 <p>Photo ⑩</p>		 <p>Photo ⑪</p>	

APPENDIX 4

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

Damage of the Bridge (1/1)

Zone : Barisal		Division (Sub-division) : Barisal1		LRP : 011a		Chainage : 12.418	
1) Bridge Name : 18-Padarhat Bridge		2) Road Name : Rahamatpur- Muladhizla		3) Date & Time : 03.12.2013:8:12 am		4) GPS Data : Latitude 22°50'15.485" Longitude 90°22'34.978"	
Damage 1		Damage 2		Damage 3		Damage 4	
Damage Location	vSlab, Girder, Pier, Abutment	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, vDeformed 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: BARISAL	Division(Subdivision): Barisal / Barisal	LRP: 019a	Chainage: 19.103 km
1) Bridge Name/ no: 19 - Masrong Bridge	2) Road Name: Gariarper - Naikati	3) Date : 02.12.2013.	4) GPS Data :Lat, 22°46'26.488" Lon,90°09'17.638"
5) Road Category: Z - 8033	6) Bridge Width: 3.90m Carriageway Width: 3.40m	7)BridgeType:Bailey with Steel Deck	8) Bridge length: 31.30m
9) Bridge Span Arrangement : Single Span	10) Approach Road Width: 5.60m	11) Sub structure information	12) River information: -Approx river width: 17m -Approx.river water level: 3.30m from deck -Approx.river depth: 5.20m 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.Azad Surveyed by: SURVEY2000

Photo Sheet of the Bridge 1/3

APPENDIX 3-1

Zone : Barisal	Division (Sub-division) :Barisal Barisal1	LRP : 019a	Chainage : 19.103 km
1) Bridge Name : 19-Masrong Bridge	2) Road Name : Gariarpar Naikati	3) Date & Time : 02.12.2013_10:30 am	4) GPS Data : Latitude 22° 46'26.488" Longitude 90° 9'17.638"
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 : Barisal	Division (Sub-division) :Barisal Barisal1	LRP : 019a	Chainage : 19.103 km
1) Bridge Name : 19-Masrong Bridge	2) Road Name : Gariarpar Naikati	3) Date & Time : 02.12.2013_10:30 am	4) GPS Data : Latitude 22°46'26.488" Longitude 90°9'17.638"
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 : Barisal		Division (Sub-division) :Barisal Barisal1		LRP : 019a		Chainage : 19.103 km	
1) Bridge Name : 19-Masrong Bridge		2) Road Name : Gariarpar Naikati		3) Date & Time : 02.12.2013_10:30 am		4) GPS Data : Latitude 22°46'26.488" Longitude 90°9'17.638"	
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, √Side Angle	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 (Missing)	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 : Barisal		Division (Sub-division) :Barisal Barisal1		LRP : 019a		Chainage : 19.103 km	
1) Bridge Name : 19-Masrong Bridge		2) Road Name : Gariarpar Naikati		3) Date & Time : 02.12.2013_10:30 am		4) GPS Data : Latitude 22° 46'26.488" Longitude 90° 9'17.638"	
Damage 5		Damage 6		Damage 7		Damage 8	
Damage Location	Slab, Girder, Pier, Abutment, /Side Angle	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							

Damage of the Bridge (3/3)

Zone : Barisal		Division (Sub-division) :Barisal Barisal1		LRP : 019a		Chainage : 19.103 km	
1) Bridge Name : 19-Masrong Bridge		2) Road Name : Gariarpar Naikati		3) Date & Time : 02.12.2013_10:30 am		4) GPS Data : Latitude 22° 46'26.488" Longitude 90° 9'17.638"	
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	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: Barisal	Division(Subdivision): Barisal	LRP: 008a	Chainage: 0.00(km)
1) Bridge Name/ No:20- Kalijira bridge	2) Road Name: Gariarpar- Kawkhali Road	3) Date : 27-12-2013	4) GPS Data: Lt: 22°46'51.94" Lon: 90°15' 14.0"
5) Road Category: Z-8033	Bridge Width: 5.00m Carriageway Wjth: 3.80m	7) Bridge Type: Bailey with steel deck	8) Bridge length: 105.40m
9) Bridge Span Arragement: Three Span	10) Approach Road Width: 5.80m at East & 5.30m at West side	11) Sub structure information -Type:	12) River information: -Approx river width: 28m -Approx. river water level: 7.70m from deck -Approx. river depth: 10.56m from deck
13) Year of Construction(if possible):	14) Load Limit(if possible):	-Approx. height:	

NORTH

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

Photo Sheet of the Bridge 1/3

APPENDIX 3-1

Zone : Barishal	Division (Sub-division) : Barishal	LRP :	Chainage :
1) Bridge Name :20-Guthia Bridge	2) Road Name:Gariarpar-Bananipara-Sorupkati	3) Date & Time :27-12-2013;10:00am	4) GPS Data :Latitude:22°46'51.94" Longitude:90°15'14.00"

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 : Barishal	Division (Sub-division) : Barishal	LRP :	Chainage :
1) Bridge Name :20-Guthia Bridge	2) Road Name:Gariapar-Bananipara-Sorupkati	3) Date & Time :27-12-2013;10:00am	4) GPS Data :Latitude:22°46'51.94" Lonitude:90°15'14.00"
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


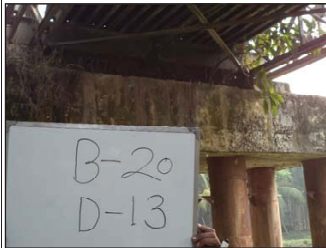
Damage of the Bridge (1/3)

Zone : Barishal		Division (Sub-division) : Barishal		LRP :		Chainage :	
1) Bridge Name :20-Guthia Bridge		2) Road Name:Gariapar-Bananipara-Sorupkati		3) Date & Time :27-12-2013;10:00am		4) GPS Data :Latitude:22°46'51.94" Lonitude:90°15'14.00"	
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 : Barishal		Division (Sub-division) : Barishal		LRP :		Chainage :	
1) Bridge Name :20-Guthia Bridge		2) Road Name:Gariapar-Bananipara-Sorupkati		3) Date & Time :27-12-2013;10:00am		4) GPS Data :Latitude:22°46'51.94" Longitude:90°15'14.00"	
Damage 5		Damage 6		Damage 7		Damage 8	
Damage Location	Slab, Girder, Pier, Abutment, /Railing	Damage Location	Slab, Girder, Pier, Abutment, /Side Angle	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 (Missing)	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 (3/3)

Zone : Barishal		Division (Sub-division) : Barishal		LRP :		Chainage :	
1) Bridge Name :20-Guthia Bridge		2) Road Name:Gariapar-Bananipara-Sorupkati		3) Date & Time :27-12-2013;10:00am		4) GPS Data :Latitude:22°46'51.94" Longitude:90°15'14.00"	
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							

Bridge and Road Specifications

Zone: Barisal		Division(Subdivision): Barisal (Patuakhali)		LRP: 80a	
1) Bridge Name/ No:21- Kutuar Hat bridge	2) Road Name: Lebukhali- Galachipa- Amragachhia Road	3) Date : 29-11-2013	4) GPS Data: Lt:22°10'44.726" Lon:90°19'29.995"		
5) Road Category: Z-8806	6) Bridge Width: 5.04m Carriageway Width: 3.40m	7) Bridge Type: Bailey with steel deck	8) Bridge length: 43.50m		
9) Bridge Span Arrangement: Single Span	10) Approach Road Width: 3.90m	11) Sub structure information		12) River information:	
13) Year of Construction(if possible):	14) Load Limit(if possible):	-Type:		-Approx. river width: 30m	
		-Approx. height:		-Approx. river water level: 5.85m from deck	
				-Approx. river depth: 9.35m from deck	

Scale: 1:1400 Name of Engineer/Surveyor: Md. Tutul Surveyed by: SURVEY2000

Photo Sheet of the Bridge 1/3

APPENDIX 3-1

Zone : Barisal	Division (Sub-division) : Kuakata	LRP : 80a	Chainage : 80.973 km
1) Bridge Name : 21-Kutuar Hat Bridge	2) Road Name : Labukhali To Amragachhia	3) Date & Time : 29-11-213 /02:25pm	4) GPS Data : Latitude: 22 ° 10 ' 44.726 " Longitude: 90 ° 19 ' 29.995 "

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




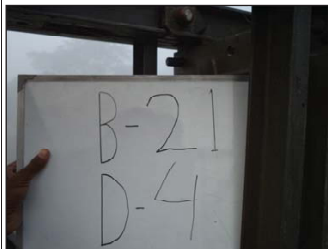
Zone : Barisal	Division (Sub-division) : Kuakata	LRP : 80a	Chainage : 80.973 km
1) Bridge Name : 21-Kutuar Hat Bridge	2) Road Name :Labukhali To Amragachhia	3) Date & Time : 29-11-213 / 02:25pm	4) GPS Data : Latitude:22 ° 10 ' 44.726 " Longitude: 90 ° 19 ' 29.995 "
Photo of the Bridge			
			
			
			
			

Photo Sheet of the Bridge 3/3

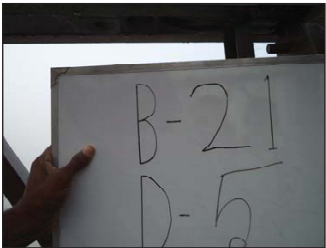



APPENDIX 3-3
APPENDIX 4

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




Damage of the Bridge (1/3)

Zone : Barisal		Division (Sub-division) : Kuakata		LRP : 80a		Chainage : 80.973 km	
1) Bridge Name : 21-Kutuar Hat Bridge		2) Road Name :Labukhali To Amragachhia		3) Date & Time : 29-11-213 / 02:25pm		4) GPS Data : Latitude:22 ° 10 ' 44.726 " Longitude: 90 ° 19 ' 29.995 "	
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, /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 (2/3)

Zone : Barisal		Division (Sub-division) : Kuakata		LRP : 80a		Chainage : 80.973 km	
1) Bridge Name : 21-Kutuar Hat Bridge		2) Road Name :Labukhali To Amragachhia		3) Date & Time : 29-11-213 / 02:25pm		4) GPS Data : Latitude:22 ° 10 ' 44.726 " Longitude: 90 ° 19 ' 29.995 "	
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 : Barisal		Division (Sub-division) : Kuakata		LRP : 80a		Chainage : 80.973 km	
1) Bridge Name : 21-Kutuar Hat Bridge		2) Road Name :Labukhali To Amragachhia		3) Date & Time : 29-11-213 / 02:25pm		4) GPS Data : Latitude:22 ° 10 ' 44.726 " Longitude: 90 ° 19 ' 29.995 "	
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	<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							