

Bridge and Road Specifications

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|---|---|--------------------------------------|---|
| 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: |
| 13) Year of Construction(if possible): | 14) Load Limit(if possible): | -Type: | -Approx river width:canal width 14m -Approx river water level: 3.20m from deck -Approx river depth: 7.00m from deck |
| | | | |
| Consultant: Oriental Consultants Co. Ltd. | | 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 | | | |
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Photo Sheet of the Bridge 2/3

APPENDIX 3-2

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|---|--|---|--|
| 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 | | | |
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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

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|---|---|------------------------------------|--|
| 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

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|--------------------------------------|--|--------------------------------------|---|
| 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 | | | |
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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 | | | |
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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 () |
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| Comments | | | | | | | |

Bridge and Road Specifications

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|--|--|--|--|---|---|
| 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: | 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): | | -Approx. height: | |

Scale: 1:1400

Name of Engineer/Surveyor: Md. Azad

Surveyed by: SURVEY2000

Photo Sheet of the Bridge 1/3

APPENDIX 3-1

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|---|--|------------------------------------|--|--|---|
| 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 ①

Photo

Photo ③

Photo ④

River flow

Photo ⑤

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 | | | |
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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 | 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(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: | |

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|---|---------------|-------------------------------------|
| 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



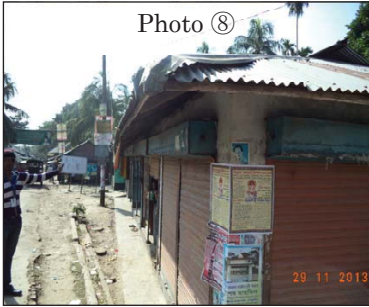



| | | | |
|---|--|---|--|
| Zone : Barisal | Division (Sub-division) : Jhalokati | LRP : 12b | Chainage : 12.174 km |
| 1) Bridge Name: 16-Saani Bazar Bridge | 2) Road Name : Rajapur Patharghata | 3) Date & Time : 29.11.2013-8:00 am | 4) GPS Data : Latitude 22° 28'51.337" Longitude 90° 9'21.9" |
| Photo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

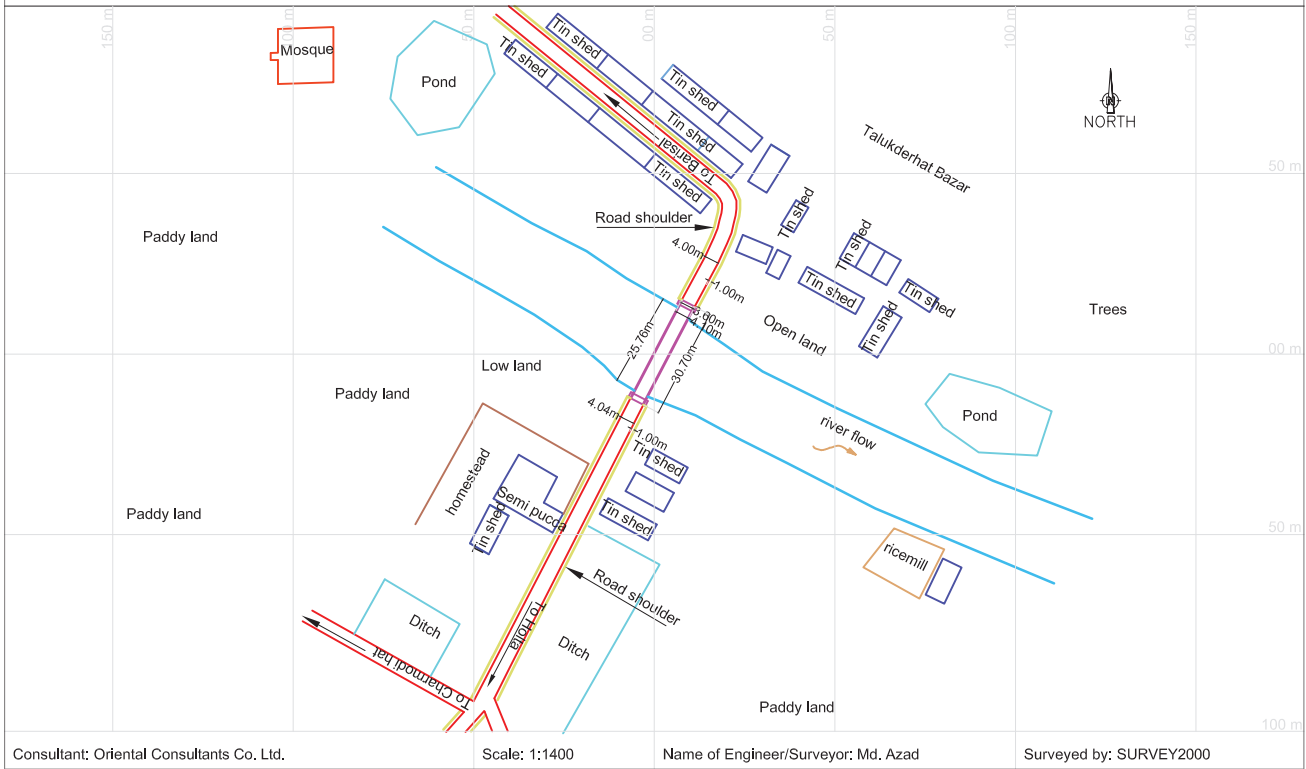


Photo Sheet of the Bridge 1/3

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

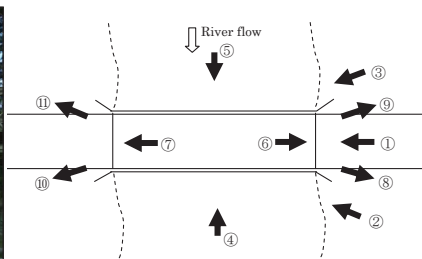


Photo Sheet of the Bridge 2/3

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 | | | |
|  |  |  | |
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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 | | | | | | | |

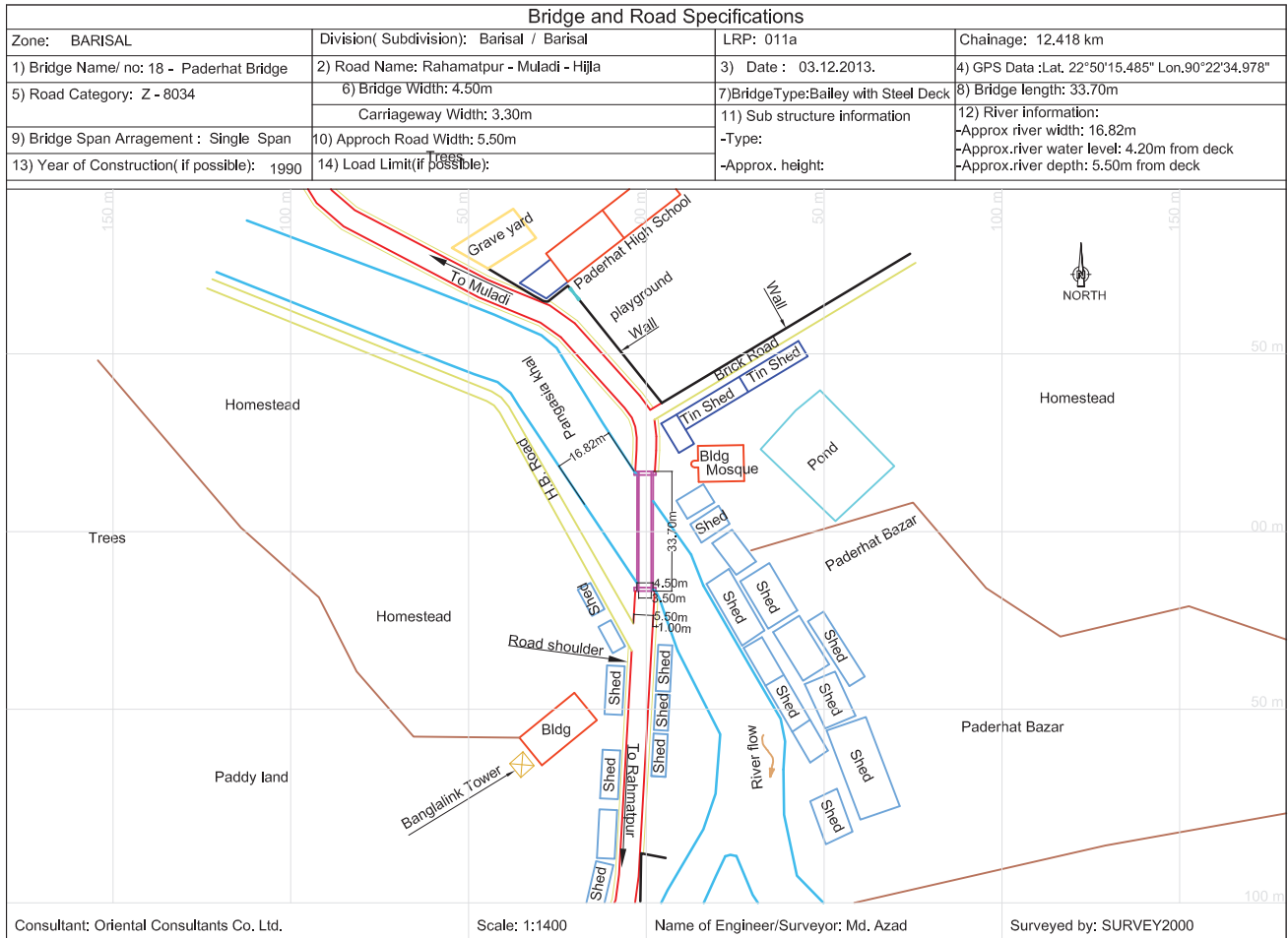


Photo Sheet of the Bridge 1/3

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

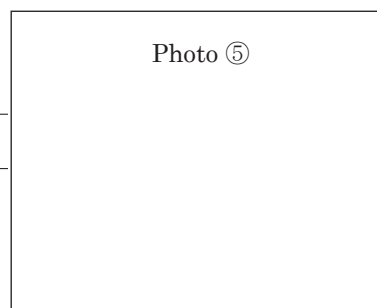
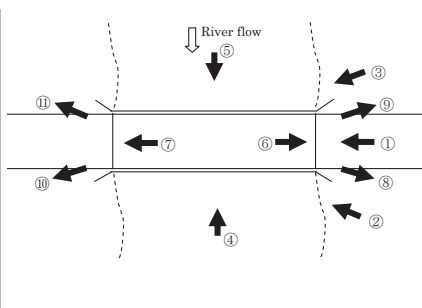
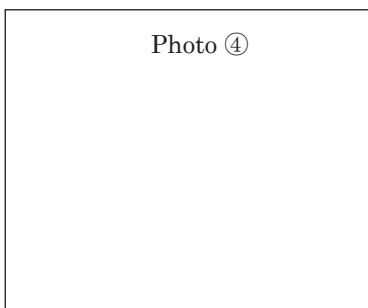


Photo Sheet of the Bridge 2/3


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 () | <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 () | <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 | 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





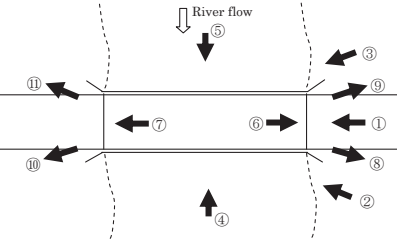

| | | | |
|---|--|---|--|
| Zone : Barisal | Division (Sub-division) :Barisal Barisal1 | LRP : 019a | Chainage : 19.103 km |
| 1) Bridge Name : 19-Masrong Bridge | 2) Road Name : Gariarpar Naikati | 3) Date & Time : 02.12.2013_10:30 am | 4) GPS Data : Latitude 22° 46'26.488" Longitude 90° 9'17.638" |
| Photo of the Bridge | | | |
|  |  |  | |
|  |  |  | |

Photo 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 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 3 | | Damage 4 | |
| 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 (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


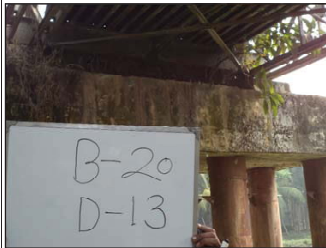
Damage of the Bridge (1/3)

| | | | | | | | |
|---|---|--|---|------------------------------------|---|---|---|
| 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 | <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 (Missing) | 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 : 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 | <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 (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

Consultant: Oriental Consultants Co. Ltd. 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 | | | | Photo ⑤ | | | |

Photo Sheet of the Bridge 2/3

APPENDIX 3-2




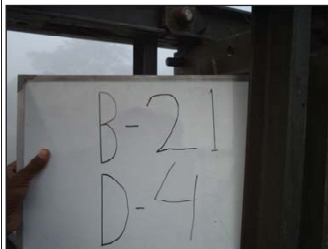
| | | | |
|---|--|---|---|
| Zone : Barisal | Division (Sub-division) : Kuakata | LRP : 80a | Chainage : 80.973 km |
| 1) Bridge Name : 21-Kutuar Hat Bridge | 2) Road Name :Labukhali To Amragachhia | 3) Date & Time : 29-11-213 / 02:25pm | 4) GPS Data : Latitude:22 ° 10 ' 44.726 " Longitude: 90 ° 19 '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

Photo Sheet of the Bridge 3/3

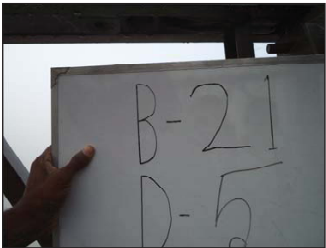



APPENDIX 3-3
APPENDIX 4

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 | | | | | | | |