

Bridge Inventory No. 112	Road No. AA002	Road Name Colombo - Galle - Hambantota - Wellawaya (CGHW)		Province Southern	District Galle	AAADT (No./Day) 13,892	No. of Lanes of Road Proposed by RDA 4		Construction Plan of Road to/ from Bridge		Environmental Condition ok
	Bridge No. 133/3	Bridge Name Kathalu (Pol Oya)	Bridge Length (m) 49.35	No. of Lane 2	Bridge Type Super-structure RC Slab RC Wall Type Pier RC Wall Type	No. of Span 3	Comple-tion Year	Bridge Soundness Super-structure Critical Sub-structure Poor Loading Capacity Sufficient	Flood Records none		
		Overall 10.20	Bridge Width (m) Curb-to-Curb 9.60								



< PRESENT CONDITIONS >

[BRIDGE]
Curb-to-Curb of 9.60m wide is sufficient for 2-lane traffic of Class A Road.

[SOUNDNESS]**
- Superstructure RATE 4
Critical
Both main and distribution bars of RC Slabs are corroded seriously.
- Substructure RATE 3
Fair
Vertical crack of A1 Wing Wall
- Others

[SURROUNDING AREA]



< PROPOSAL >

Reconstruction on the existing alignment

Bridge Length: 3@30.0 = 90m
Approach Length: NS: 150m FS: 150m
Superstructure: Pos I-Girder
Substructure: Wall Type Abutment Wall Type Pier
Foundation: Cast-in-place concrete pile foundation
Resettlement: A few households

** SOUNDNESS RATE

RATE 1: Good condition
RATE 2: Fair condition with minor natures: Periodical maintenance is required. No urgent repair is needed.
RATE 3: Significant damages: Damaged portion(s) are to be repaired immediately.
RATE 4: Critical damages: Urgent improvement, reconstruction or restriction of heavy vehicles is required.

Bridge Inventory No. 113	Road No. Non RDA	Road Name Polwatta - Denipitiya		Province Southern	District Matara	AA DT (No./Day) --	No. of Lanes of Road Proposed by RDA 2		Construction Plan of Road to/ from Bridge		Environmental Condition ok
	Bridge No. -	Bridge Name Polawatta	Bridge Length (m) 100	No. of Lane 1	Super-structure RC Slab	Bridge Type Pier	Completion Year	Super-structure Critical	Sub-structure Critical	Loading Capacity Insufficient	Flood Records
		Overall 3.70	Bridge Width (m) Curb-to-Curb 2.80		Pile Bent Type	22					



< PRESENT CONDITIONS >

[BRIDGE]

Curb-to-Curb of 2.8m wide is insufficient for the existing traffic.
Insufficient bridge elevation for floods

[SOUNDNESS]**

- Superstructure Critical RATE 4
- Substructure Critical RATE 4
- Cracks of RC Piles
- Others

[SURROUNDING AREA]

< PROPOSAL >

Reconstruction at R-side of the existing bridge

- Bridge Length: 4@27.5 = 110m
- Approach Length: NS: 150m FS: 150m
- Superstructure: Pos I-Girder
- Substructure: Wall Type Abutment Wall Type Pier
- Foundation: Cast-in-place concrete pile foundation
- Resettlement: No

** SOUNDNESS RATE

- RATE 1: Good condition
- RATE 2: Fair condition with minor natures: Periodical maintenance is required. No urgent repair is needed.
- RATE 3: Significant damages: Damaged portion(s) are to be repaired immediately.
- RATE 4: Critical damages: Urgent improvement, reconstruction or restriction of heavy vehicles is required.



Bridge Inventory No. 116	Road No. B128	Road Name Galle - Baddegama		Province Southern	District Galle	AA DT (No./Day) 7,073	No. of Lanes of Road Proposed by RDA 2		Construction Plan of Road to/ from Bridge		Environmental Condition ok
	Bridge No. 15/2	Bridge Name Kahabiliya	Bridge Length (m) 31.25	No. of Lane 2	Super-structure RC Slab	Bridge Type RC Wall Type	Comple-tion Year	Super-structure Poor	Bridge Soundness Sub-structure Poor	Loading Capacity Insufficient	Flood Records Flood water level was 1.5m above the bridge surface in 2003.
		Bridge Width (m) Overall 5.90	Curb-to-Curb 5.30								



< PRESENT CONDITIONS >

[BRIDGE]

Curb-to-Curb of 5.3m wide is insufficient for 2-lane traffic of Class B Road.

[SOUNDNESS]**

- Superstructure Impossible to investigate girders and deck without a boat. RATE 3
- Substructure Poor A1 abutment body is broken. RATE 3
- Others

[SURROUNDING AREA]

< PROPOSAL >

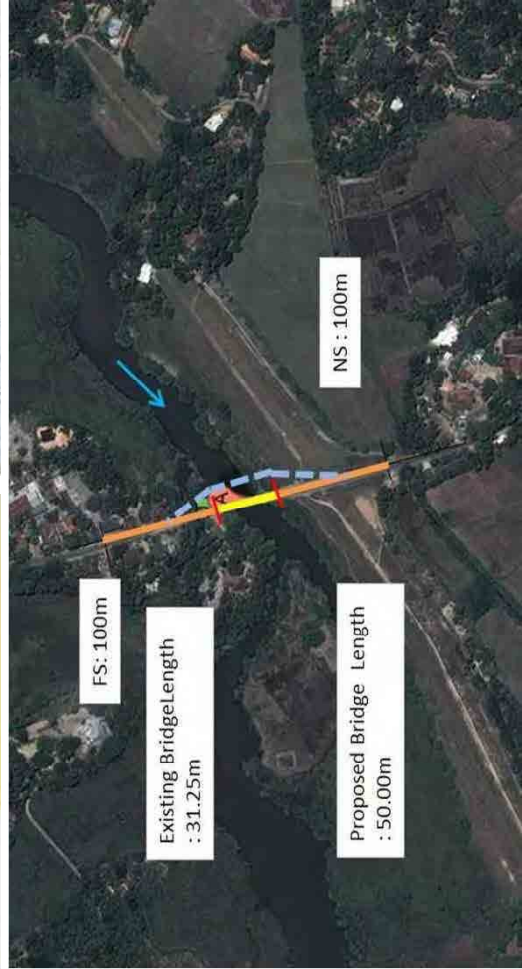
Reconstruction on the existing alignment

- Bridge Length: 1@50.0 = 50m
- Approach Length: NS: 100m FS: 100m
- Superstructure: Steel I-Girder
- Substructure: Wall Type Abutment Wall Type Pier
- Foundation: Cast-in-place concrete pile foundation

Resettlement: A few households

** SOUNDNESS RATE

- RATE 1: Good condition
- RATE 2: Fair condition with minor natures: Periodical maintenance is required. No urgent repair is needed.
- RATE 3: Significant damages: Damaged portion(s) are to be repaired immediately.
- RATE 4: Critical damages: Urgent improvement, reconstruction or restriction of heavy vehicles is required.



Bridge Inventory No.	Road No.	Road Name		Province	District	AAADT (No./Day)	No. of Lanes of Road Proposed by RDA	Construction Plan of Road to/ from Bridge		Environmental Condition	
	B130	Galle - Wackwella	Southern	Galle	7,718	2					
117	Bridge No.	Bridge Name	Bridge Length (m)	No. of Lane	Bridge Type		Completion Year	Super-structure	Bridge Soundness	Flood Records	
	8/7	Part of Gin ganga	24.40	2	Super-structure	Pier					Sub-structure
			Overall		RC Wall Type			Fair	-	Insufficient	none
			Bridge Width (m)		RC Slab	RC Wall Type					
			Curb-to-Curb	5.20							
			6.30								



< PRESENT CONDITIONS >

[BRIDGE]

Curb-to-Curb of 5.2m wide is insufficient for 2-lane traffic of Class B Road.

[SOUNDNESS]**

- Superstructure Fair RATE 2

- Substructure RATE 2

- Others

[SURROUNDING AREA]

< PROPOSAL >

Reconstruction on the existing alignment

Bridge Length: 1@30.0 = 30m
 Approach Length: NS: 200m FS: 100m
 Superstructure: Pos I-Girder
 Substructure: Wall Type Abutment
 Foundation: Cast-in-place concrete pile foundation

Resettlement: Less than 20 households

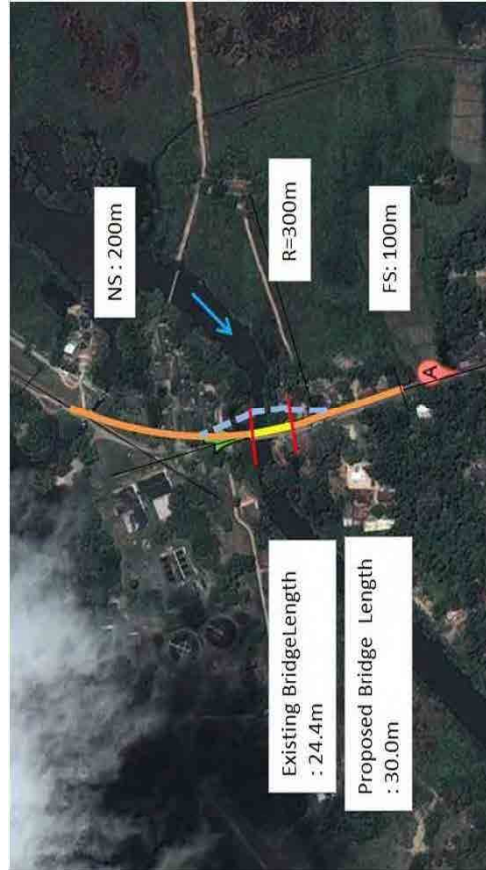
** SOUNDNESS RATE

RATE 1: Good condition

RATE 2: Fair condition with minor natures: Periodical maintenance is required. No urgent repair is needed.

RATE 3: Significant damages: Damaged portion(s) are to be repaired immediately.

RATE 4: Critical damages: Urgent improvement, reconstruction or restriction of heavy vehicles is required.



Bridge Inventory No.	Road No.	Road Name				Province	District	AADT (No./Day)	No. of Lanes of Road Proposed by RDA	Construction Plan of Road to/ from Bridge		Environmental Condition
	B427	Udawalawe - Tanamalwila				Uva	Monaragala	2,800	2			National Park
120	Bridge No.	Bridge Length (m)	Bridge Width (m)	No. of Lane	Super-structure	Bridge Type	No. of Span	Completion Year	Super-structure	Sub-structure	Loading Capacity	Flood Records
	20/4	38.83	Overall Curb-to-Curb 6.70 4.80	2	Steel Plate Through Truss	Abutment RC Gravity Type	1	1998	Fair	Good	Insufficient	none



< PRESENT CONDITIONS >

[BRIDGE]

Curb-to-Curb of 4.80m wide is sufficient for the time being taking into consideration the existing traffic volume of Class B Road.

[SOUNDNESS]**

- Superstructure
Fair
RATE 2

Many bridge members especially floor system have been rusted without proper maintenance works.

- Substructure
Good
RATE 1

- Others

[SURROUNDING AREA]

Special area for elephant habitat at L-side of approaches and the bridge.

< PROPOSAL >

Reconstruction is not recommended because of Environmental problem.

Bridge Length: Approach Length:

Superstructure:

Substructure:

Foundation:

Resettlement:

** SOUNDNESS RATE

RATE 1: Good condition

RATE 2: Fair condition with minor natures: Periodical maintenance is required. No urgent repair is needed.

RATE 3: Significant damages: Damaged portion(s) are to be repaired immediately.

RATE 4: Critical damages: Urgent improvement, reconstruction or restriction of heavy vehicles is required.

Bridge Inventory No. 138	Road No. B496	Road Name Thanamalwila - Hambegamuwa (Thanamalwila - Bodagama)		Province Uva	District Monaragala	AAADT (No./Day) 3,112	No. of Lanes of Road Proposed by RDA 2		Construction Plan of Road to/ from Bridge		Environmental Condition ok
	Bridge No. 41/1	Bridge Name Well Oya	Bridge Length (m) 36.35	No. of Lane 1	Super-structure Precast Beams with RC	Bridge Type RC Gravity Type	Abutment RC Gravity Type	Pier RC Wall Type	Completion Year	Bridge Soundness Sub-structure Fair	Flood Records Bridge submerged during floods
			Bridge Width (m) Overall 4.60	Curb-to-Curb 4.00						Loading Capacity Insufficient	



< PRESENT CONDITIONS >

[BRIDGE]

Curb-to-Curb of 4.00m wide is insufficient for 2-lane traffic of Class B Road.

No Bridge Railing exist

[SOUNDNESS]**

- Superstructure RATE 2

Fair

All Concrete Curbs except 3 brocks have been washed away.

- Substructure RATE 2

Fair

- Others

[SURROUNDING AREA]

< PROPOSAL >

Reconstruction at L-side of the existing bridge

Bridge Length: 80m

Approach Length: NS: 200m FS: 300m

Superstructure: Precast PC Girder

Substructure: Wall Type Abutment Column Type Pier

Foundation: Spread Foundation

Resettlement: Less than 20 households

** SOUNDNESS RATE

RATE 1: Good condition

RATE 2: Fair condition with minor natures: Periodical maintenance is required. No urgent repair is needed.

RATE 3: Significant damages: Damaged portion(s) are to be repaired immediately.

RATE 4: Critical damages: Urgent improvement, reconstruction or restriction of heavy vehicles is required.



Bridge Inventory No. 139	Road No. AA002	Road Name Colombo - Galle - Hambantota - Wellawaya (CGHW)		Province Western	District Kaluthara	AAADT (No./Day) 16,917	No. of Lanes of Road Proposed by RDA 2		Construction Plan of Road to/ from Bridge		Environmental Condition ok		
	Bridge No. 20/1	Bridge Name Digarolla	Bridge Length (m) 197.20	No. of Lane 2	Super-structure Half Through Steel Lattice Truss	Bridge Type RC Wall	Abutment Type	Pier Type	No. of Span 7	Completion Year 1921	Bridge Soundness Super-structure Fair	Loading Capacity Insufficient	Flood Records none
		Overall 8.04	Curb-to-Curb 5.85										



< PRESENT CONDITIONS >

- [BRIDGE]
Curb-to-Curb of 5.85m wide is insufficient for 2-lane traffic of Class A Road.
- [SOUNDNESS]**
- Superstructure Critical RATE 4
- Lower Cords and Floor Systems corroded severely. RATE 2
- Substructure Fair
- Others

[SURROUNDING AREA]



< PROPOSAL >

Reconstruction on the existing alignment

- Bridge Length: 3@66.7 = 200m
Approach Length: NS: 150m FS: 200m
Superstructure: Extradosed
Substructure: Wall Type Abutment Wall Type Pier
Foundation: Steel sheet-pile foundation
- Resettlement: A few households

** SOUNDNESS RATE

- RATE 1: Good condition
RATE 2: Fair condition with minor natures: Periodical maintenance is required. No urgent repair is needed.
RATE 3: Significant damages: Damaged portion(s) are to be repaired immediately.
RATE 4: Critical damages: Urgent improvement, reconstruction or restriction of heavy vehicles is required.

Bridge Inventory No. 144	Road No. B157	Road Name Horana - Anguruwatota - Aluthgama		Province Western	District Kaluthara	AADT (No./Day) 5,978	No. of Lanes of Road Proposed by RDA 4	Construction Plan of Road to/ from Bridge		Environmental Condition ok
	Bridge No. 8/3	Bridge Length (m) 34.00	Bridge Width (m) Overall: 6.20 Curb-to-Curb: 5.50	No. of Lane 1	Bridge Type Super-structure: RC I Girder Abutment: RC Wall Type Pier: RC Pile Bent Type	No. of Span 3	Comple-tion Year	Bridge Soundness Super-structure: Fair Sub-structure: Fair Loading Capacity: Insufficient	Flood Records none	



< PRESENT CONDITIONS >

[BRIDGE]
Curb-to-Curb of 5.50m wide is sufficient for the time being for 2-lane traffic of Class B Road.
[SOUNDNESS]**
- Superstructure: Fair RATE 2
- Substructure: Fair RATE 2
- Others: none
[SURROUNDING AREA]

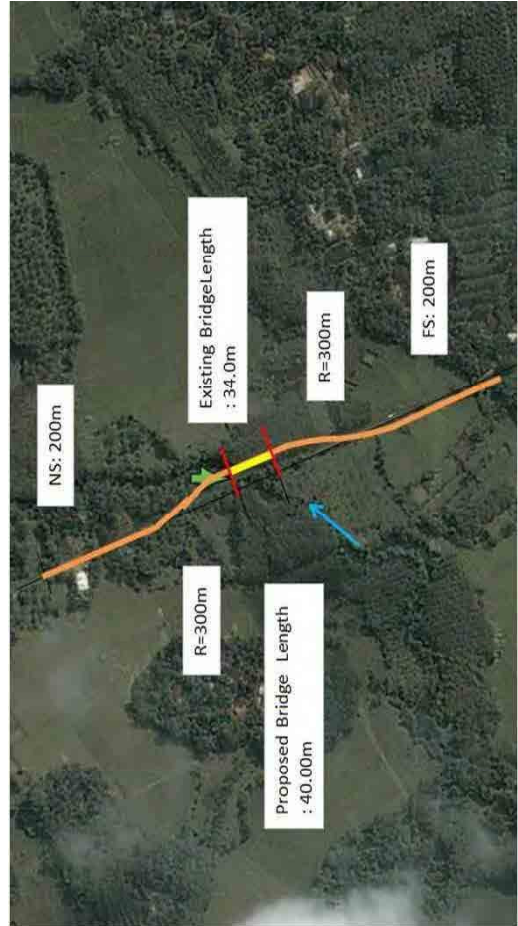
< PROPOSAL >

New bridge (2 lane) is recommended.
The existing bridge to be used for the time being

Bridge Length: 1@40.0 = 40m
Approach Length: NS: 200m FS: 200m
Superstructure: Steel I-Girder
Substructure: Wall Type Abutment Wall Type Pier
Foundation: Cast-in-place concrete pile foundation
Resettlement: No

** SOUNDNESS RATE

- RATE 1: Good condition
- RATE 2: Fair condition with minor natures: Periodical maintenance is required. No urgent repair is needed.
- RATE 3: Significant damages: Damaged portion(s) are to be repaired immediately.
- RATE 4: Critical damages: Urgent improvement, reconstruction or restriction of heavy vehicles is required.



Bridge Inventory No. 145	Road No. E388	Road Name Ratmalana - Borupona		Province Western	District Colombo	AAADT (No./Day) 18,300	No. of Lanes of Road Proposed by RDA 2	Construction Plan of Road to/ from Bridge		Environmental Condition ok
	Bridge No. 2/5	Bridge Length (m) 81.00	Bridge Width (m) Overall 9.30 Curb-to-Curb 7.40	No. of Lane 2	Bridge Type Abutment RC Wall Type Pier RC Wall Type	No. of Span 2	Completion Year Reconstructed in 1996	Bridge Soundness Super-structure Poor Sub-structure Fair Loading Capacity Insufficient	Flood Records none	



< PRESENT CONDITIONS >

[BRIDGE]
Curb-to-Curb of 7.40m wide is sufficient for 2-lane traffic of Class B Road.

[SOUNDNESS]**
- Superstructure RATE 3
Poor
Bending crack has started in concrete girder.
- Substructure RATE 2
Fair
- Others

[SURROUNDING AREA]

< PROPOSAL >

Reconstruction is not recommended.

Bridge Length:
Superstructure:
Substructure:
Foundation:
Resettlement:
Approach Length:

** SOUNDNESS RATE

RATE 1: Good condition
RATE 2: Fair condition with minor natures: Periodical maintenance is required. No urgent repair is needed.
RATE 3: Significant damages: Damaged portion(s) are to be repaired immediately.
RATE 4: Critical damages: Urgent improvement, reconstruction or restriction of heavy vehicles is required.

Bridge Inventory No. 152	Road No. AB010	Road Name Colombo - Hanwella - low level road		Province Western	District Colombo	AADT (No./Day) 20,780	No. of Lanes of Road Proposed by RDA 4		Construction Plan of Road to/ from Bridge		Environmental Condition ok
	Bridge No. 9/1	Bridge Name Ambathale	Bridge Length (m) 33.50	No. of Lane 2	Bridge Type RC Slab	No. of Span 3	Completion Year	Super-structure Poor	Sub-structure Fair	Loading Capacity Insufficient	Flood Records none
		Overall 9.80	Bridge Width (m) Curb-to-Curb 6.90	RC Pile Bent Type	RC Pile Bent Type						



< PRESENT CONDITIONS >

[BRIDGE]
 Curb-to-Curb of 6.90m wide is sufficient for 2-lane traffic.
 Steel I Girders were added for pedestrians at the both sides of the bridge.
 [SOUNDNESS]**
 - Superstructure Poor RATE 3
 - Substructure Fair RATE 2
 - Others [SURROUNDING AREA]

< PROPOSAL >

Additional 2-lane bridge at R-side of the existing bridge
The existing bridge to be used for the time being

Bridge Length: 1@40.0 = 40m
 Approach Length: NS: 250m FS: 300m
 Superstructure: Steel I-Girder
 Substructure: Wall Type Abutment Wall Type Pier
 Foundation: Cast-in-place concrete pile foundation
 Resettlement: A few households



** SOUNDNESS RATE

RATE 1: Good condition
 RATE 2: Fair condition with minor natures: Periodical maintenance is required. No urgent repair is needed.
 RATE 3: Significant damages: Damaged portion(s) are to be repaired immediately.
 RATE 4: Critical damages: Urgent improvement, reconstruction or restriction of heavy vehicles is required.

Bridge Inventory No.	Road No.	Road Name				Province	District	AADT (No./Day)	No. of Lanes of Road Proposed by RDA	Construction Plan of Road to/ from Bridge		Environmental Condition
	AB010	Colombo - Hanwella - low level road				Western	Colombo	20,780	4			
153	Bridge No.	Bridge Name	Bridge Length (m)	Overall	No. of Lane	Super-structure	Bridge Type	No. of Span	Comple-tion Year	Super-structure	Bridge Soundness	Flood Records
	15/1	Welehandiya	37.70	9.80	2	RC Slab	RC Pile Bent Type / Wall Type	4		Poor	Poor	none



< PRESENT CONDITIONS >

[BRIDGE]

Curb-to-Curb of 6.90m wide is sufficient for 2-lane traffic of Class AB Road.

[SOUNDNESS]**

- Superstructure RATE 3
- Poor
- Re-bars of RC Slab corroded and concrete cover dropped.
- Substructure RATE 3
- Fair
- Alligator cracks on Pier Heads
- Others

[SURROUNDING AREA]



< PROPOSAL >

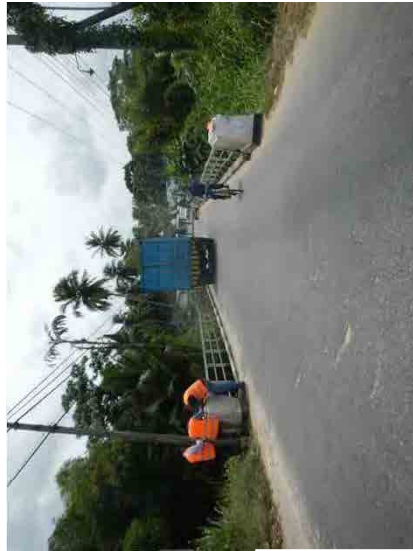
Additional 2-lane bridge at L-side of the existing bridge
The existing bridge to be used for the time being

- Bridge Length: 1@40.0 = 40m
- Approach Length: NS: 200m FS: 150m
- Superstructure: Steel I-Girder
- Substructure: Wall Type Abutment Wall Type Pier
- Foundation: Cast-in-place concrete pile foundation
- Resettlement: No

** SOUNDNESS RATE

- RATE 1: Good condition
- RATE 2: Fair condition with minor natures: Periodical maintenance is required. No urgent repair is needed.
- RATE 3: Significant damages: Damaged portion(s) are to be repaired immediately.
- RATE 4: Critical damages: Urgent improvement, reconstruction or restriction of heavy vehicles is required.

Bridge Inventory No.	Road No.	Road Name		Province	District	AADT (No./Day)	No. of Lanes of Road Proposed by RDA	Construction Plan of Road to/ from Bridge		Environmental Condition	
	AB010	Colombo - Hanwella - low level road						Western	Colombo		17,670
154	Bridge No.	Bridge Name	Bridge Length (m)	No. of Lane	Bridge Type		Completion Year	Bridge Soundness		Flood Records	
	26/4		41.70		Overall	Super-structure		Abutment	Pier		Sub-structure
			Bridge Width (m)	1	RC Slab	RC Pile Bent Type		Poor	Fair	Insufficient	none
			Curbs-to-Curb	5.50		RC Pile Bent Type					
			Overall	5.95							



< PRESENT CONDITIONS >

[BRIDGE]

Curb-to-Curb of 5.50m wide is sufficient for the time being for 2-lane traffic of Class AB Road.

[SOUNDNESS]**

- Superstructure Poor RATE 3
- Substructure Fair RATE 2
- Re-bar of Pile Bent corroded
- Others

[SURROUNDING AREA]

< PROPOSAL >

Additional 2-lane bridge at R-side of the existing bridge
The existing bridge to be used for the time being

- Bridge Length: 1@45.0 = 45m
- Approach Length: NS: 300m FS: 200m
- Superstructure: Steel I-Girder
- Substructure: Wall Type Abutment Wall Type Pier
- Foundation: Cast-in-place concrete pile foundation
- Resettlement: Less than 20 households



** SOUNDNESS RATE

- RATE 1: Good condition
- RATE 2: Fair condition with minor natures: Periodical maintenance is required. No urgent repair is needed.
- RATE 3: Significant damages: Damaged portion(s) are to be repaired immediately.
- RATE 4: Critical damages: Urgent improvement, reconstruction or restriction of heavy vehicles is required.

Bridge Inventory No.	Road No.	Road Name		Province	District	AADT (No./Day)	No. of Lanes of Road Proposed by RDA	Construction Plan of Road to/ from Bridge		Environmental Condition
156	AB010	Colombo - Hanwella - low level road		Western	Colombo	17,670	4			
	Bridge No.	Bridge Length (m)	Bridge Width (m)	No. of Lane	Bridge Type	No. of Span	Completion Year	Super-structure	Bridge Soundness	Flood Records
28/1	42.10	Overall	Curb-to-Curb	2	RC Slab	4		Fair	Poor	Flood water level was 1.0m above the bridge surface in 1983.



< PRESENT CONDITIONS >

[BRIDGE]

Curb-to-Curb of 6.75m wide is sufficient for the time being for 2-lane traffic of Class AB Road.

[SOUNDNESS]**

- Superstructure Poor RATE 2
- Substructure Alligator cracks on bottom of RC Slab RATE 3
- Others Fair

[SURROUNDING AREA]

< PROPOSAL >

Additional 2-lane bridge at L-side of the existing bridge
The existing bridge to be used for the time being

- Bridge Length: 1@45.0 = 45m
- Approach Length: NS: 250m FS: 550m
- Superstructure: Steel I-Girder
- Substructure: Wall Type Abutment Wall Type Pier
- Foundation: Cast-in-place concrete pile foundation
- Resettlement: Less than 20 households

** SOUNDNESS RATE

RATE 1: Good condition

RATE 2: Fair condition with minor natures: Periodical maintenance is required. No urgent repair is needed.

RATE 3: Significant damages: Damaged portion(s) are to be repaired immediately.

RATE 4: Critical damages: Urgent improvement, reconstruction or restriction of heavy vehicles is required.



Bridge Inventory No.	Road No.	Road Name				Province	District	AA DT (No./Day)	No. of Lanes of Road Proposed by RDA	Construction Plan of Road to/ from Bridge			Environmental Condition
	New	Galpatha - Yatawara - Kethhena - Rubber factory road	Western	Kaluthara	-	2							
157	Bridge No.	Bridge Name	Bridge Length (m)	Bridge Width (m)	No. of Lane	Bridge Type		No. of Span	Comple-tion Year	Bridge Soundness		Flood Records	
	New		(110)	Overall Curb-to-Curb (10.4)		Super-structure	Pier			Super-structure	Sub-structure		Loading Capacity

< PRESENT CONDITIONS >

[BRIDGE]

[SOUNDNESS]**

- Superstructure

RATE

- Substructure

RATE

- Others

[SURROUNDING AREA]

< PROPOSAL >

New bridge is not recommended.

Bridge Length:

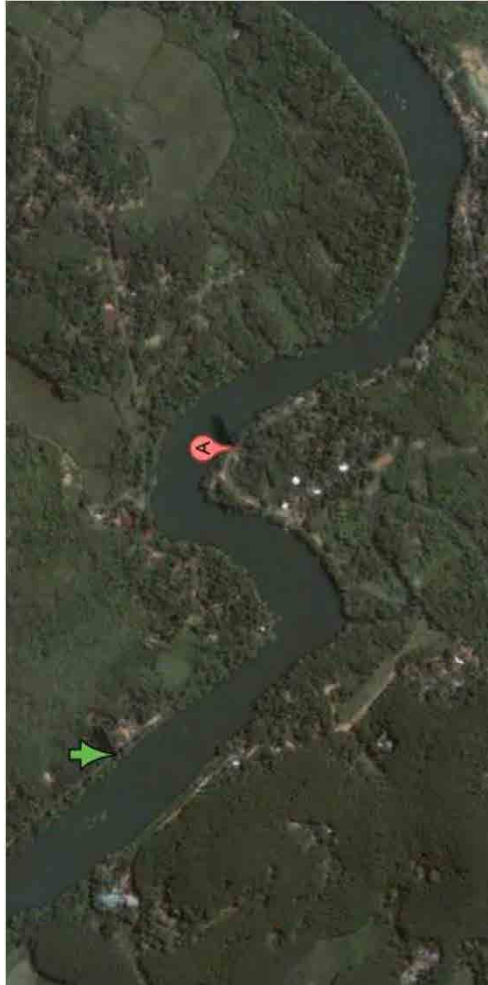
Superstructure:

Substructure:

Foundation:

Resettlement:

Approach Length:



** SOUNDNESS RATE

RATE 1: Good condition

RATE 2: Fair condition with minor natures: Periodical maintenance is required. No urgent repair is needed.

RATE 3: Significant damages: Damaged portion(s) are to be repaired immediately.

RATE 4: Critical damages: Urgent improvement, reconstruction or restriction of heavy vehicles is required.

Bridge Inventory No.	Road No.	Road Name		Province	District	AAADT (No./Day)	No. of Lanes of Road Proposed by RDA	Construction Plan of Road to/ from Bridge		Environmental Condition
	AA004	Colombo - Ratnapura - Wellawaya - Batticaloa	Western	Colombo	21,892	4				ok
159	Bridge No.	Bridge Name	Bridge Length (m)	No. of Lane	Bridge Type		Completion Year	Super-structure	Bridge Soundness	Flood Records
	33/3	Galagedara	57.00	2	Abutment	Pier				
		Overall	Curb-to-Curb		RC Wall Type	RC Wall Type		Poor	Fair	
		10.40	7.40							



< PRESENT CONDITIONS >

[BRIDGE]

Curb-to-Curb of 7.40m wide is sufficient for 2-lane traffic of Class A Road.

[SOUNDNESS]**

- Superstructure Poor RATE 3
- Color of whole bridge has started to change. RATE 2
- Substructure Fair
- Pile Caps of A2 Abutment was scoured out by floods.
- Others

[SURROUNDING AREA]

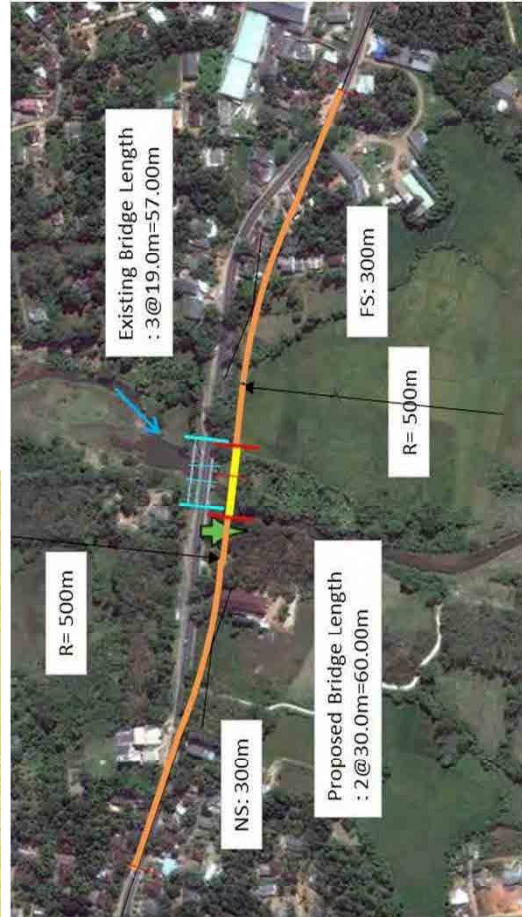
< PROPOSAL >

Additional 2-lane bridge at R-side of the existing bridge
The existing bridge to be used

- Bridge Length: 2@40.0 = 80m
- Approach Length: NS: 300m FS: 300m
- Superstructure: Steel I-Girder
- Substructure: Wall Type Abutment Wall Type Pier
- Foundation: 'Cast-in-place concrete pile foundation
- Resettlement: A few households

** SOUNDNESS RATE

- RATE 1: Good condition
- RATE 2: Fair condition with minor natures: Periodical maintenance is required. No urgent repair is needed.
- RATE 3: Significant damages: Damaged portion(s) are to be repaired immediately.
- RATE 4: Critical damages: Urgent improvement, reconstruction or restriction of heavy vehicles is required.



Bridge Inventory No.	Road Name		Province		District		AADT (No./Day)		No. of Lanes of Road Proposed by RDA		Construction Plan of Road to/ from Bridge		Environmental Condition	
165	Thallady - Arippu - Marichchukaddy South Coast Road		Northern		Mannar		921		2		Road improvement by foreign fund		ok	
Bridge No.	Bridge Name	Bridge Length (m)	No. of Lane	Super-structure	Bridge Type		No. of Span	Comple-tion Year	Super-structure	Bridge Soundness		Flood Records		
23/3		91.00	1	Multiple Pipe Culvert	Abutment	Pier				Sub-structure	Loading Capacity	Insufficient	Flood water level is 0.5m above the causeway.	
		Overall	Curb-to-Curb											
		4.20	4.20											



< PRESENT CONDITIONS >

[BRIDGE]
Narrow for 2-lane traffic
Insufficient causeway elevation for floods
[SOUNDNESS]**
- Superstructure RATE 2
Fair
- Substructure RATE
- Others
[SURROUNDING AREA]



< PROPOSAL >

New Bridge on the existing causeway

Bridge Length: 6@16.67 = 100m
Approach Length: NS: 200m FS: 200m
Superstructure: Precast PC Girder
Substructure: Wall Type Abutment Wall Type Pier
Foundation: Cast-in-place concrete pile foundation

Resettlement: No

** SOUNDNESS RATE

RATE 1: Good condition
RATE 2: Fair condition with minor natures: Periodical maintenance is required. No urgent repair is needed.
RATE 3: Significant damages: Damaged portion(s) are to be repaired immediately.
RATE 4: Critical damages: Urgent improvement, reconstruction or restriction of heavy vehicles is required.

Bridge Inventory No.	Road No.	Road Name				Province	District	AA DT (No./Day)	No. of Lanes of Road Proposed by RDA	Construction Plan of Road to/ from Bridge		Environmental Condition
	B403	Thallady - Arippu - Marichchukaddy South Coast Road				Northern	Mannar	921	2	Road improvement by foreign fund		ok
166	Bridge No.	Bridge Length (m)	Bridge Width (m)		No. of Lane	Bridge Type		No. of Span	Comple-tion Year	Bridge Soundness		Flood Records
	21/1	Arippu Causeway	70.00	Overall Curb-to-Curb		4.20	4.20			Super-structure Multiple Pipe Culvert	Abutment	



< PRESENT CONDITIONS >

[BRIDGE]
 Narrow for 2-lane traffic
 Insufficient causeway elevation for floods
 [SOUNDNESS]**
 - Superstructure Poor RATE 3
 - Substructure RATE
 - Others

[SURROUNDING AREA]



< PROPOSAL >

New bridge at R-side of the existing causeway

Bridge Length: 4@15.0 =60m
 Approach Length: NS: 200m FS: 150m
 Superstructure: Precast PC Girder
 Substructure: Wall Type Abutment Wall Type Pier
 Foundation: Cast-in-place concrete pile foundation
 Resettlement: Less than 20 households

** SOUNDNESS RATE

- RATE 1: Good condition
- RATE 2: Fair condition with minor natures: Periodical maintenance is required. No urgent repair is needed.
- RATE 3: Significant damages: Damaged portion(s) are to be repaired immediately.
- RATE 4: Critical damages: Urgent improvement, reconstruction or restriction of heavy vehicles is required.

Bridge Inventory No. 167	Road No. AA009	Road Name Kandy-Jaffna		Province Northern	District Jaffna	AA DT (No./Day)	No. of Lanes of Road Proposed by RDA 2	Construction Plan of Road to/ from Bridge Road improvement by foreign fund		Environmental Condition	
	Bridge No. 309/1	Bridge Name Kaithady	Bridge Length (m) 81.00	No. of Lane 2	Super-structure Bailey Bridge	Bridge Type RC Wall Type	No. of Span 3	Comple-tion Year Approx. 10 years ago	Super-structure Fair	Bridge Soundness Sub-structure Good	Flood Records none
		Bridge Width (m) Overall 9.10	Curb-to-Curb 7.30		Pier RC Wall Type						



< PRESENT CONDITIONS >

- [BRIDGE]
Sufficient for 2-lane traffic
- [SOUNDNESS]**
- Superstructure Fair RATE 2
- Substructure Good RATE 1
- Others
- [SURROUNDING AREA]



- < PROPOSAL >
Reconstruction is not recommended.
- Bridge Length:
Superstructure:
Substructure:
Foundation:
Resettlement:
Approach Length:

** SOUNDNESS RATE
RATE 1: Good condition
RATE 2: Fair condition with minor natures: Periodical maintenance is required. No urgent repair is needed.
RATE 3: Significant damages: Damaged portion(s) are to be repaired immediately.
RATE 4: Critical damages: Urgent improvement, reconstruction or restriction of heavy vehicles is required.

Bridge Inventory No. 168	Road No. AA009	Road Name Kandy-Jaffna		Province Northern	District Jaffna	AA DT (No./Day) 921	No. of Lanes of Road Proposed by RDA 2	Construction Plan of Road to/ from Bridge Road improvement by foreign fund		Environmental Condition ok
	Bridge No. 314/2	Bridge Name Navathuli	Bridge Length (m) 81.00	No. of Lane 2	Super-structure Bailey Bridge	Bridge Type RC Wall Type	Comple- tion Year Approx. 10 years ago	Super-structure Fair	Bridge Soundness Sub-structure Good Loading Capacity Sufficient	Flood Records none
		Bridge Width (m) Overall 9.10 Curb-to-Curb 7.30				No. of Span 3				



< PRESENT CONDITIONS >

[BRIDGE]
Sufficient for 2-lane traffic

[SOUNDNESS]**
- Superstructure Good RATE 1
- Substructure Good RATE 1
- Others

[SURROUNDING AREA]



< PROPOSAL >

New bridge on the existing alignment Recommended by RDA

Bridge Length: 4@25.0 =100m
Approach Length: NS: 100m FS: 100m
Superstructure: Pos I-Girder
Substructure: Wall Type Abutment Wall Type Pier
Foundation: Cast-in-place concrete pile foundation

Resettlement: A few

** SOUNDNESS RATE

- RATE 1: Good condition
- RATE 2: Fair condition with minor natures: Periodical maintenance is required. No urgent repair is needed.
- RATE 3: Significant damages: Damaged portion(s) are to be repaired immediately.
- RATE 4: Critical damages: Urgent improvement, reconstruction or restriction of heavy vehicles is required.

Bridge Inventory No. 169	Road No. AB019	Road Name Jaffna - Pannai - Kayts		Province Northern	District Jaffna	AADT (No./Day)	No. of Lanes of Road Proposed by RDA 2	Construction Plan of Road to/ from Bridge		Environmental Condition
	Bridge No. -	Bridge Name Pannay	Bridge Length (m) 27.00	No. of Lane 2	Super-structure Bailey Bridge	Bridge Type RC Wall Type	No. of Span 1	Completion Year Approx. 10 years ago	Bridge Soundness Super-structure Fair Sub-structure Good Loading Capacity Sufficient	Flood Records

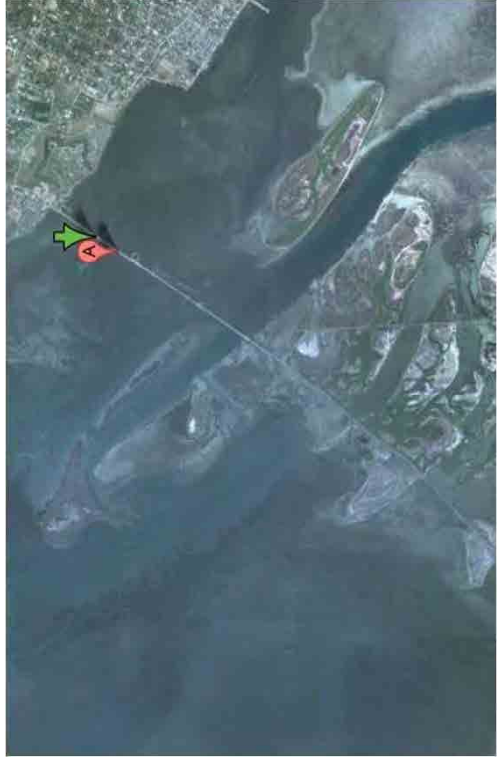


< PRESENT CONDITIONS >

[BRIDGE]
Curb-to-Curb of 7.30m wide is sufficient for 2-lane traffic of Class AB Road.

- [SOUNDNESS]**
- Superstructure Fair RATE 2
- Substructure Good RATE 1
- Others

[SURROUNDING AREA]



< PROPOSAL >
Reconstruction is not recommended.
Approach Length:

- Bridge Length:
Superstructure:
Substructure:
Foundation:
Resettlement:

** SOUNDNESS RATE

- RATE 1: Good condition
RATE 2: Fair condition with minor natures: Periodical maintenance is required. No urgent repair is needed.
RATE 3: Significant damages: Damaged portion(s) are to be repaired immediately.
RATE 4: Critical damages: Urgent improvement, reconstruction or restriction of heavy vehicles is required.