

スリランカ民主社会主義共和国  
道路開発庁（RDA）

スリランカ国  
全国重要橋梁実態及び  
維持管理に係る情報収集・確認調査

ファイナル レポート（付属資料）

2013 年 2 月

独立行政法人 国際協力機構（JICA）

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## 第 3 章 架け替えを要する橋梁の選定

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### 3.1 架け替え選定対象橋梁 79 橋の橋梁台帳 (現地調査結果)

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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
	B492	Kandehandiya - Adikarigama - Randenigala - Loggal Oya				Central	Nuwara Eliya	1,900	2			Forest Reserve
2	Bridge No.	Bridge Length (m)	Bridge Width (m)		No. of Lane	Bridge Type		No. of Span	Comple-tion Year	Bridge Soundness		Flood Records
	35/10	33.72	Overall	Curb-to-Curb		Super-structure	Abutment			Pier	Super-structure	
			5.20	4.90	1	Bailey Bridge	RC Capping Beam	-	Good	Good	Sufficient	none



< PRESENT CONDITIONS >

[BRIDGE ]

A 1-lane temporary bridge over the damaged embankment/ pipes and box culverts

[ SOUNDNESS ]\*\*

- Superstructure Good RATE 1

- Substructure Good RATE 1

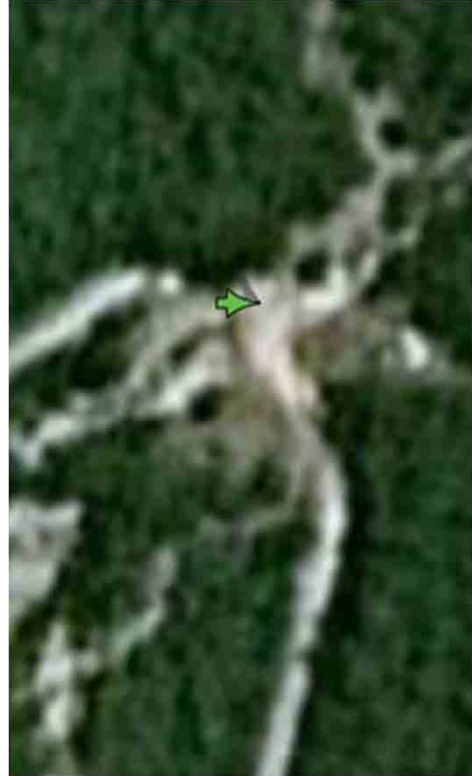
- Others

[ SURROUNDING AREA ]

< PROPOSAL >

**Reconstruction is not recommended.**

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.	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		
	AA005	Peradeniya - Badulla - Chenkaladi (PBC)		Eastern	Ampara	1,900	2			ok		
15	Bridge No.	Bridge Name	Bridge Length (m)	No. of Lane	Bridge Type		Completion Year	Super-structure	Sub-structure	Bridge Soundness	Loading Capacity	Flood Records
	241/1	Mahapalama	155.75	1	Super-structure RC I Girder/ Precast Columns	Abutment						
		Overall	Curb-to-Curb									
		5.20	4.20									



< PRESENT CONDITIONS >

[BRIDGE ]

Curb-to-Curb of 4.20m wide is insufficient for 2-lane traffic of Class A Road. A1 Abutment and P6 to P8 Piers were damaged seriously.

[ SOUNDNESS ]\*\*

- Superstructure Good RATE 1

- Substructure Critical RATE 4

Piles of piers have been exposed and damaged seriously.

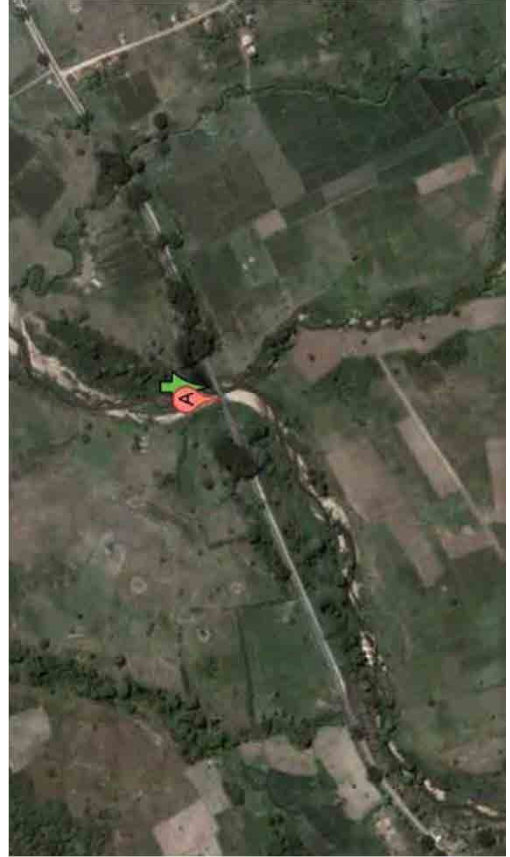
- Pile Caps that widths are exactly same as the diameter of Piles have been damaged seriously.  
Abandoned old substructures remain under the existing bridge.

[ SURROUNDING AREA ]

< PROPOSAL >

(Reconstruction at L-Side of the existing bridge)  
Eliminated by LOT size

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.	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
	AB039	Muativu - Kokilai - Pulmoodai Road				Eastern	Trincomalee		2	Improvement of road in progress		Coastal / New Bridge
16	Bridge No.	Bridge Name	Bridge Length (m)	Bridge Width (m)		No. of Lane	Bridge Type		No. of Span	Bridge Soundness		Flood Records
	New	Kokilai	1,000	Overall	Curb-to-Curb		Super-structure	Abutment		Pier	Sub-structure	



< PRESENT CONDITIONS >

[BRIDGE ]

[ SOUNDNESS ]\*\*

- Superstructure RATE

- Substructure RATE

- Others

[ SURROUNDING AREA ]



< 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.	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
	AA006	Ambepussa - Kurunegala - Trincomalee (AKT)				Eastern	Trincomalee	5,700	4	Improvement of road by foreign fund is in progress		ok
17	Bridge No.	Bridge Length (m)	Bridge Width (m)		No. of Lane	Bridge Type		No. of Span	Comple-tion Year	Bridge Soundness		Flood Records
	184/1	Palampataru	Overall	Curb-to-Curb		Super-structure	Abutment			Pier	Sub-structure	
		36.95	6.60	6.35	2	Steel Lattice Truss	RC Wall Type	3	Approx. 70 years ago	Fair	Poor	none



< PRESENT CONDITIONS >

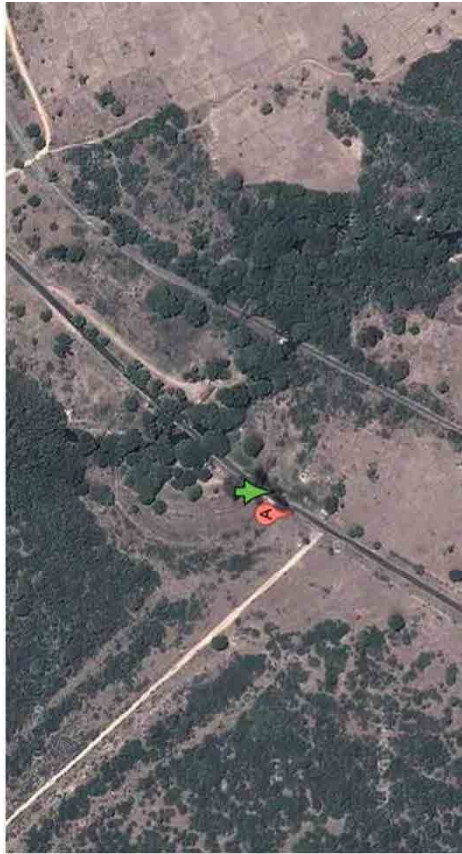
[ BRIDGE ]

Curb-to-Curb of 6.60m wide is sufficient for the time being for 2-lane traffic.

[ SOUNDNESS ]\*\*

- Superstructure RATE 3
- Steel members corroded
- Re-bar of RC Slab rusted
- Substructure RATE 2
- Fair
- Others

[ SURROUNDING AREA ]



< PROPOSAL >

(Reconstruction of 2-lane bridge on the existing alignment)  
Eliminated by LOT size

- 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.	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
	B483	Sammanthurai - Malkampiddi - Deegawapiya		Eastern	Ampara		2			ok
18	Bridge No.	Bridge Length (m)	Bridge Width (m)	No. of Lane	Bridge Type	No. of Span	Completion Year	Bridge Soundness	Flood Records	
	3/2	23.15	Overall Curb-to-Curb 4.90	1	Super-structure RC Girder Abutment Brick covered by mortar Pier Brick covered by mortar/ RC	3		Good Sub-structure Critical Loading Capacity Insufficient	Insufficient bridge opening for floods	



< PRESENT CONDITIONS >

[BRIDGE ]

Curb-to-Curb of 4.17m wide is insufficient for 2-lane traffic of Class B Road.

[ SOUNDNESS ]\*\*

- Superstructure Good RATE 1

- Substructure Critical RATE 4

- Others A Pile Bent type Pier was constructed in front of damaged A 2 Abutment.

B483 consists of an alternative route of AA031 during floods and is used as a main road to transport harvest, bricks and sand.

[ SURROUNDING AREA ]

The right bank of the river at L-side of A1 Abutment was scoured seriously because of insufficient bridge opening for floods..

< PROPOSAL >

(Reconstruction at R-side of the existing bridge)  
Eliminated by LOT size

Bridge Length:  
Superstructure:  
Substructure:  
Foundation:

Approach Length:

Resettlement:

\*\* SOUNDNESS RATE

RATE 1: Good condition

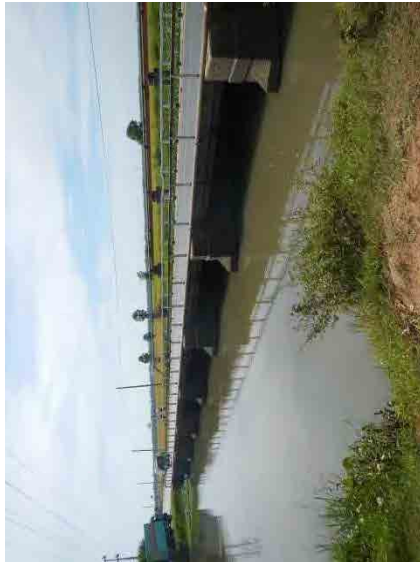
RATE 2: Fair condition with minor natures: Periodical maintenance is required. No urgent repair is needed.

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.	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
	AA031	Karaithivu - Ampara				Eastern	Ampara	9,100	2			ok
21	Bridge No.	Bridge Name	Bridge Length (m)	Bridge Width (m)		No. of Lane	Bridge Type		Completion Year	Bridge Soundness		Flood Records
	2/1		59.20	Overall	Curb-to-Curb		Superstructure	Abutment		Substructure	Loading Capacity	
				5.90	5.30	2	Precast RC T Girder	RC Wall Type	Good	Good	Insufficient	



< PRESENT CONDITIONS >

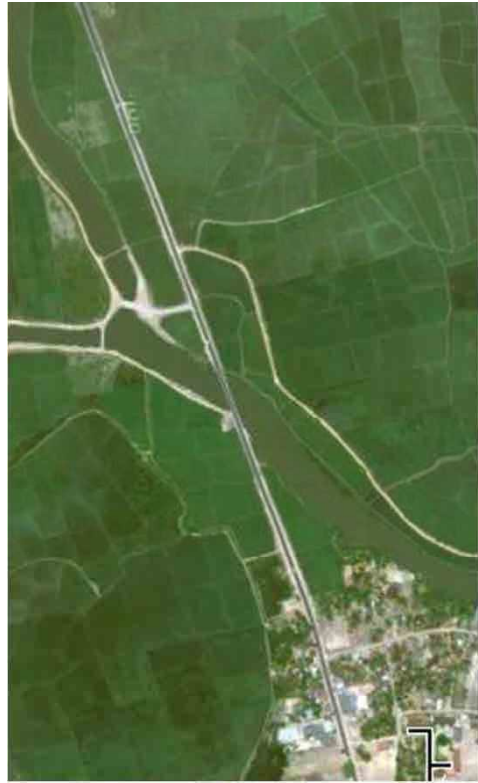
[BRIDGE ]  
 Curb-to-Curb of 5.30m wide is insufficient for 2-lane traffic of Class A Road.  
 Skewed bridge of 60 degree  
 Insufficient bridge elevation and opening for floods  
 [ SOUNDNESS ]\*\*  
 - Superstructure Good RATE 1  
 - Substructure Good RATE 1

[ SURROUNDING AREA ]  
 Water pipe bridge at L-side of the existing bridge

< PROPOSAL >  
 (Reconstruction at L-side of the existing bridge)  
 Eliminated by LOT size

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.	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
	AA031	Karaithivu - Ampara		Eastern	Ampara	9,100	2			ok
22	Bridge No.	Bridge Name	Bridge Length (m)	No. of Lane	Bridge Type		Completion Year	Super-structure	Bridge Soundness	Flood Records
	1/2		63.05	1	Super-structure	Pier				
			Overall		RC Wall Type					
			Curb-to-Curb		RC Wall Type					
			5.10	4.20	RC Girder	RC Wall Type	1939	Good	Good	none
								Insufficient		



< PRESENT CONDITIONS >

[BRIDGE ]

Curb-to-Curb of 4.20m wide is insufficient for 2-lane traffic of Class A Road. Insufficient bridge elevation and opening for floods

[ SOUNDNESS ]\*\*

- Superstructure Good RATE 1

- Substructure Good RATE 1

[ SURROUNDING AREA ]

Water pipe bridge at L-side of the existing bridge

< PROPOSAL >

(Reconstruction at L-side of the existing bridge)  
Eliminated by LOT size

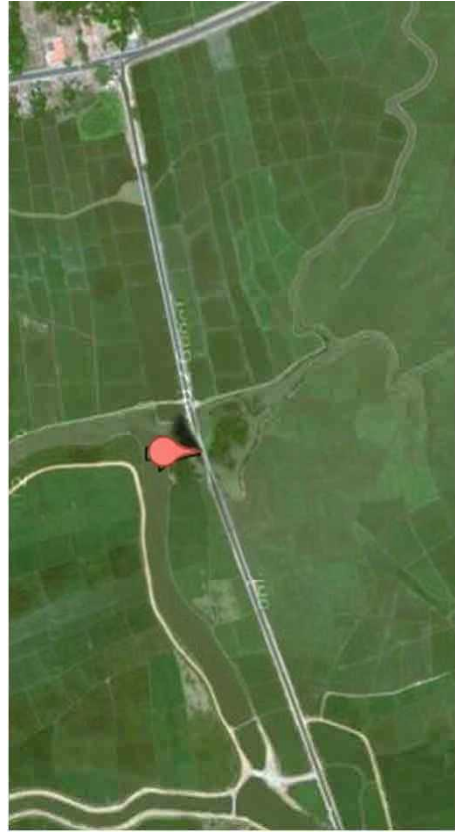
Bridge Length: Approach Length:

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. 23	Road No. AA028	Road Name Anuradhapura - Padeniya		Province North Central		District Anuradhapura		AADT (No./Day)		No. of Lanes of Road Proposed by RDA 4		Construction Plan of Road to/ from Bridge Road improvement by Korean fund		Environmental Condition Forest Reserve	
	Bridge No. 30/1	Bridge Length (m) 156.60	Bridge Name Kala oya	Bridge Width (m) Overall 8.70	Curb-to-Curb 7.40	No. of Lane 2	Super-structure PC I Girder	Bridge Type Abutment RC Wall Type	Pier RC Wall Type	No. of Span 5	Comple-tion Year Approx. 30 years ago	Sub-structure -	Loading Capacity Sufficient	Flood Records Flood water level is 1.5m above the causeway.	



< PRESENT CONDITIONS >

[ BRIDGE ]

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

[ SOUNDNESS ]\*\*

- Superstructure  
Good

RATE 1

- Substructure  
Good

RATE 1

- Others

[ SURROUNDING AREA ]



< PROPOSAL >

**Reconstruction is not recommended because of Environmental problem.**

Bridge Length:  
Superstructure:  
Substructure:  
Foundation:

Approach Length:

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.	Road No.	Road Name				Province	District	AAAT (No./Day)	No. of Lanes of Road Proposed by RDA	Construction Plan of Road to/ from Bridge		Environmental Condition
	AA011	Maradankadawela - Habarana - Tirikkondiamadu				Central	Polonnaruwa	2,200	2			Floodplains National Park
26	Bridge No.	Bridge Length (m)	Bridge Width (m)		No. of Lane	Bridge Type		No. of Span	Comple-tion Year	Bridge Soundness		Flood Records
	78/1	34.80	Overall	Curb-to-Curb		Super-structure	Abutment			Pier	Sub-structure	
			6.70	5.42	2	Reversed Trapezoidal Steel Girder	RC Wall Type	RC Wall Type	Fair	Good	Sufficient	Bridge submerged during floods



**< PRESENT CONDITIONS >**

[BRIDGE ]

Curb-to-Curb of 5.42m wide is insufficient for 2-lane traffic of Class A Road.

Insufficient bridge elevation and opening for floods

[ SOUNDNESS ]\*\*

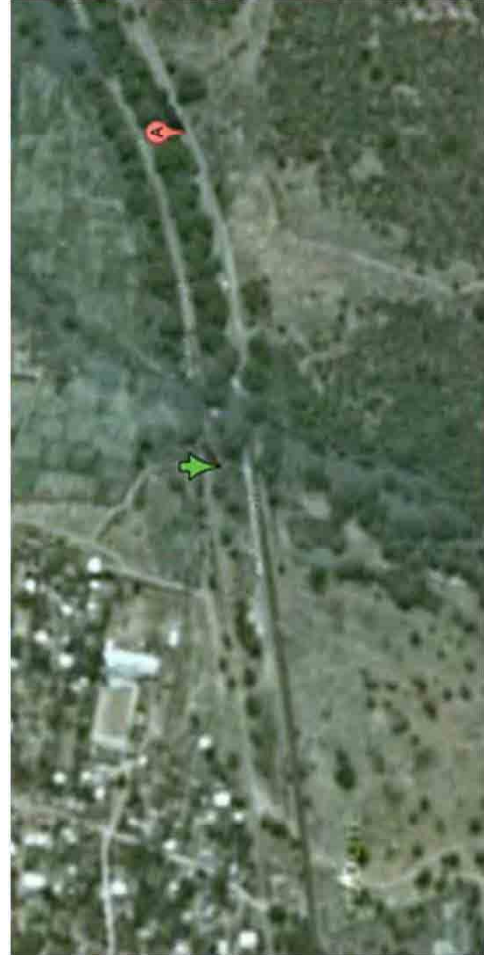
- Superstructure RATE 2
- Fair
- Main girders rusted
- Substructure RATE 1
- Good
- Others

[ SURROUNDING AREA ]

**< PROPOSAL >**

**Reconstruction is not recommended.**

- 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.  27	Road No. AA011	Road Name Maradankadawela - Habarana - Tirikkondiamadu		Province Central	District Polonnaruwa	AAADT (No./Day) 6,600	No. of Lanes of Road Proposed by RDA 2	Construction Plan of Road to/ from Bridge		Environmental Condition Forest Reserve
	Bridge No. 82/3	Bridge Length (m) 60.40	Bridge Width (m) Overall 6.80 Curb-to-Curb 5.15	No. of Lane 2	Bridge Type Abutment RC Wall Type Pier RC Wall Type	No. of Span 3	Completion Year	Bridge Soundness Sub-structure Good Loading Capacity Sufficient	Flood Records Bridge submerged during floods	



< PRESENT CONDITIONS >

[BRIDGE ]

Curb-to-Curb of 5.15m wide is insufficient for 2-lane traffic of Class A Road.  
Insufficient bridge elevation and opening for floods

[ SOUNDNESS ]\*\*

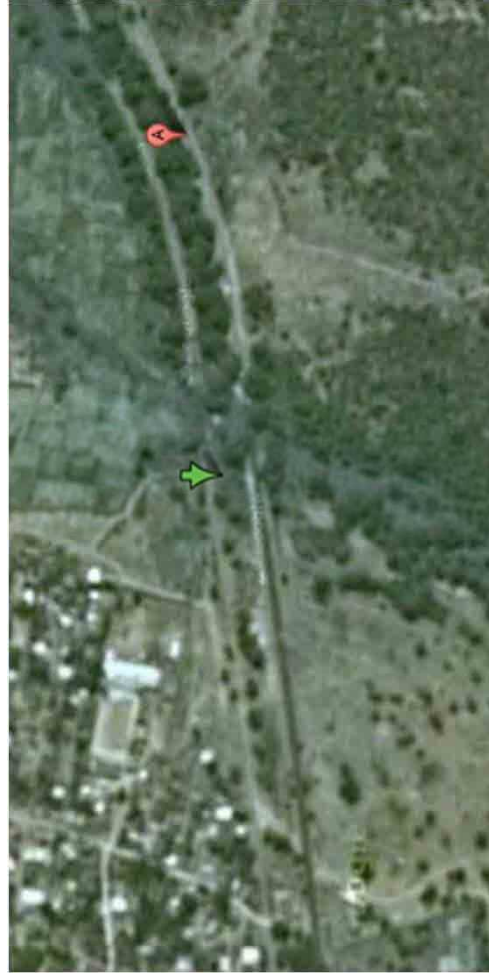
- Superstructure  
Fair  
Main girders rusted  
RATE 2
- Substructure  
Good  
RATE 1
- Others

[ SURROUNDING AREA ]

< PROPOSAL >

**Reconstruction is not recommended because of Environmental problem.**

- Bridge Length:
- Superstructure:  
Approach Length:
- 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.	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	
	B182	Kalawewa - Avukana		North Central	Anuradhapura	700	2			ok	
30	Bridge No.	Bridge Name	Bridge Length (m)	No. of Lane	Bridge Type		Completion Year	Super-structure	Sub-structure	Loading Capacity	Flood Records
	4/2	Kalaoya Causeway	43.00	2	Super-structure	Pier					



< PRESENT CONDITIONS >

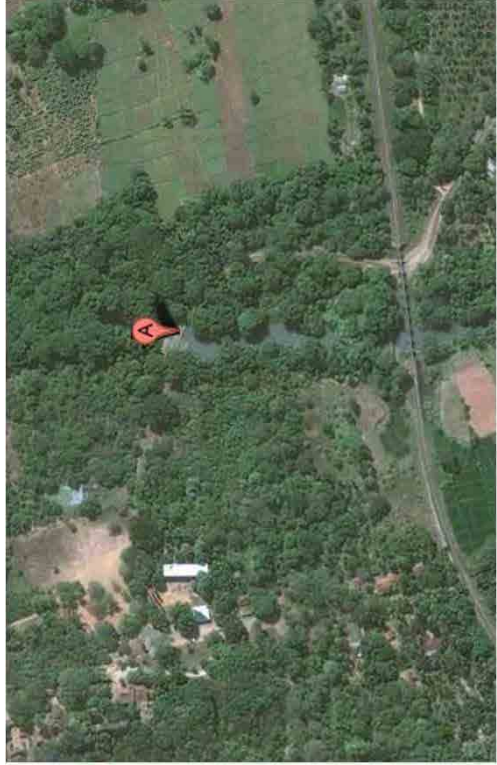
[BRIDGE ]

Narrow for 2-lane traffic  
Insufficient causeway elevation for floods  
[ SOUNDNESS ]\*\*  
- Superstructure Fair RATE 2

- Substructure RATE

- Others

[ SURROUNDING AREA ]



< PROPOSAL >

**Reconstruction is not recommended.**

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.	Road No.	Road Name				Province	District	AAAT (No./Day)	No. of Lanes of Road Proposed by RDA	Construction Plan of Road to/ from Bridge			Environmental Condition
	B060	Bogahawewa - Pulmuddai				North Central	Anuradhapura	1,100	2				ok
38	Bridge No.	Bridge Name	Bridge Length (m)	Bridge Width (m)		No. of Lane	Bridge Type		Comple-tion Year	Bridge Soundness		Flood Records	
	3/1	Alth halmillama	81.00	Overall	Curb-to-Curb		Super-structure	Abutment		Pier	Super-structure		Sub-structure
				5.70	5.70	2	-	-	-	-	-	Flood water level is 1m above the causeway.	



< PRESENT CONDITIONS >

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

[ SURROUNDING AREA ]



< PROPOSAL >  
**New bridge more than 30m long is not recommended.**

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.	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
	B564	Otappuwa Ihawalawa				North Central	Anuradhapura		2	Causeway improvement by RDA			ok
39	Bridge No.	Bridge Name	Bridge Length (m)	Bridge Width (m)		No. of Lane	Bridge Type		Comple-tion Year	Bridge Soundness		Flood Records	
	10/2	Karabaya Causeway	45.00	Overall	Curb-to-Curb		Super-structure	Abutment		Pier	Super-structure		Loading Capacity
				12.00	7.60	2	-	-	-	-	Insufficient		



< PRESENT CONDITIONS >

[ BRIDGE ]

Carriageway of 7.60m wide is sufficient for 2-lane.  
Closed for 3 months during floods

[ SOUNDNESS ]\*\*

- Superstructure Poor RATE

- Substructure RATE

- Others

[ SURROUNDING AREA ]

< PROPOSAL >

(New bridge on the existing alignment)  
Eliminated by LOT size

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. 41	Road No. B538	Road Name Kahatagasdigiya - Rathmalgahaweewa - Kivulekade		Province North Central	District Anuradhapura	AADT (No./Day)	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	Bridge Length (m) 42.00	Bridge Width (m) Overall 6.70	No. of Lane 2	No. of Span	Completion Year	Super-structure	Sub-structure	Bridge Soundness Loading Capacity



< PRESENT CONDITIONS >

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

[ SURROUNDING AREA ]



< PROPOSAL >  
New bridge more than 30m long 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	AADT (No./Day)	No. of Lanes of Road Proposed by RDA	Construction Plan of Road to/ from Bridge		Environmental Condition	
	B517	Dehiattakandiya - Aralaganwila		North Central	Polonnaruwa	2,700	2			ok	
42	Bridge No.	Bridge Length (m)	Bridge Width (m)	No. of Lane	Bridge Type	No. of Span	Completion Year	Super-structure	Sub-structure	Bridge Soundness	Flood Records
	4/1	40.40	Overall Curb-to-Curb 9.00	1	Super-structure Precast PC Girder Abutment RC Wall Type Pier RC Wall Type	3	1986	Good	Poor	Sufficient	none



< PRESENT CONDITIONS >

[BRIDGE ]

Curb-to-Curb of 6.95m wide is sufficient for the time being taking into consideration the existing traffic volume of Class B Road.

[ SOUNDNESS ]\*\*

- Superstructure Good RATE 1
- Substructure RATE 3
- Pile Caps of A1 Abutment and P1 Pier were scoured out by floods.
- Pile Heads of A1 Abutment and P1 Pier have been exposed.
- Others

[ SURROUNDING AREA ]

< PROPOSAL >

(Reconstruction at R-side of the existing bridge)  
Eliminated by LOT size

- 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.	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
	AA028	Anuradhapura - Padeniya		North Western	Kurunegala	5,561	4	Road improvement by foreign fund		ok
43	Bridge No.	Bridge Length (m)	Bridge Width (m)	No. of Lane	Bridge Type	No. of Span	Completion Year	Bridge Soundness		Flood Records
	75/4	Kurunegala	Overall Curb-to-Curb	2	Super-structure Steel Warren Truss	3	1964	Super-structure	Loading Capacity	none
		96.30	8.40	6.80	RC Wall Type		Fair	Good	Sufficient	



< PRESENT CONDITIONS >

[BRIDGE ]

Curb-to-Curb of 6.80m wide is sufficient for the time being for 2-lane traffic of Class A Road.

[ SOUNDNESS ]\*\*

- Superstructure Fair RATE 2
  - Substructure Good RATE 1
  - Others
- Bridge members have been rusted without proper maintenance works.

[ SURROUNDING AREA ]



< PROPOSAL >

**Additional 2-lane bridge at R-side of the existing bridge**

- Bridge Length: 2@50.0 =100m
- Approach Length: NS: 200m FS: 400m
- Superstructure: Steel I-Girder
- Substructure: Wall Type Abutment Wall 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.	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
	B264	Kandehandiya - Adikarigama - Randenigala - Loggal Oya	Central	Nuwara Eliya	3,913	2				
45	Bridge No.	Bridge Name	Bridge Length (m)	No. of Lane	Bridge Type		Completion Year	Bridge Soundness		Flood Records
	30/2	Meeliyadda Palama	36.70	1	Super-structure Steel Platte Truss	Abutment Stonework		Pier	Super-structure	
		Bridge Width (m)	Overall	Curb-to-Curb						
		4.20	3.20					Fair	Good	Insufficient



< PRESENT CONDITIONS >

[BRIDGE ]  
Insufficient horizontal and vertical clearances for the traffic of Class B Road

[ SOUNDNESS ]\*\*

- Superstructure Fair RATE 2

- Substructure Good RATE 1

- Others  
Stonemasonry Retaining Wall at R-side of NS Approach is damaged.

[ SURROUNDING AREA ]

< PROPOSAL >

**Reconstruction at R-side of the existing bridge**

Bridge Length: 1@50.0 =50m

Approach Length: NS: 150m FS: 100m

Superstructure: Steel I-Girder

Substructure: Wall Type Abutment Wall Type Pier

Foundation: Cast-in-place concrete pile foundation

Resettlement: A few households

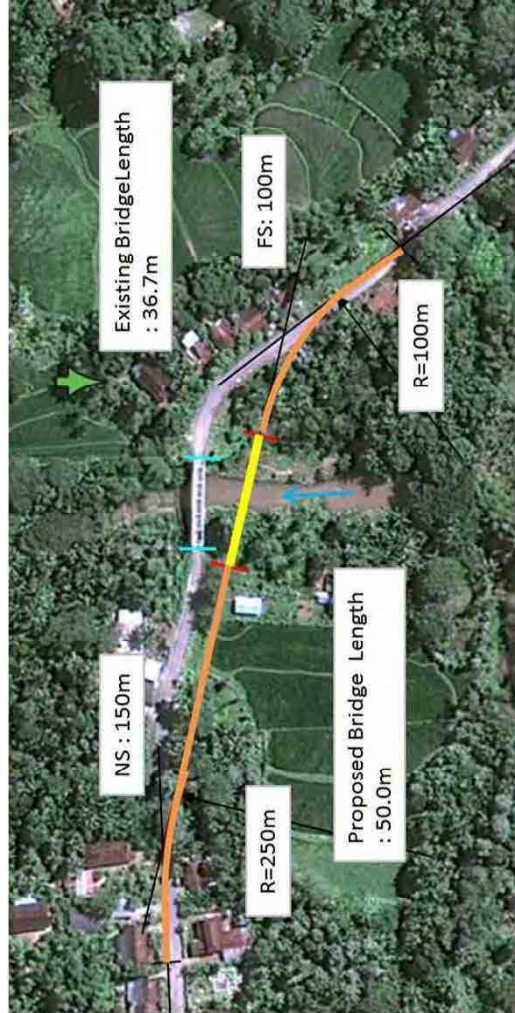
\*\* SOUNDNESS RATE

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	AA DT (No./Day)	No. of Lanes of Road Proposed by RDA	Construction Plan of Road to/ from Bridge		Environmental Condition
	-	Across Deduru Oya (Closed to Rasnayakepura - Kadigawa Road)		North Western	Kurunegala		2			ok
46	Bridge No.	Bridge Name	Bridge Length (m)	No. of Lane	Bridge Type	No. of Span	Completion Year	Super-structure	Sub-structure	Flood Records
	New	Kadigawa	100.00	2	Abutment					



< PRESENT CONDITIONS >

[ BRIDGE ]

[ SOUNDNESS ]\*\*

- Superstructure RATE

- Substructure RATE

- Others  
Proper access road to the location of new bridge is not exist.

[ SURROUNDING AREA ]

< PROPOSAL >

**New bridge is not recommended.**

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.	Road No.	Road Name		Province	District	AA/T (No./Day)	No. of Lanes of Road Proposed by RDA	Construction Plan of Road to/ from Bridge		Environmental Condition
	B379	Puttalam - Marichchikadai	North Western	Puttalam	3,300	2	Road improvement by foreign fund		Public Water (Mee Oya)	
48	Bridge No.	Bridge Name	Bridge Length (m)	No. of Lane	Bridge Type		Completion Year	Bridge Soundness		Flood Records
	9/2	Mee Oya	40.00	6	Super-structure	Pier		Sub-structure	Loading Capacity	
			Overall		Precast Girder	RC Wall Type				
			Bridge Width (m)			RC Wall Type				
			Curb-to-Curb							
			6.60							
			4.00							



< PRESENT CONDITIONS >

[BRIDGE ]  
Curb-to-Curb of 4.00m wide is insufficient for the existing traffic.

- [ SOUNDNESS ]\*\*
- Superstructure Re-bar of girders corroded. RATE 3
  - Substructure Fair RATE 2
  - Others

[ SURROUNDING AREA ]

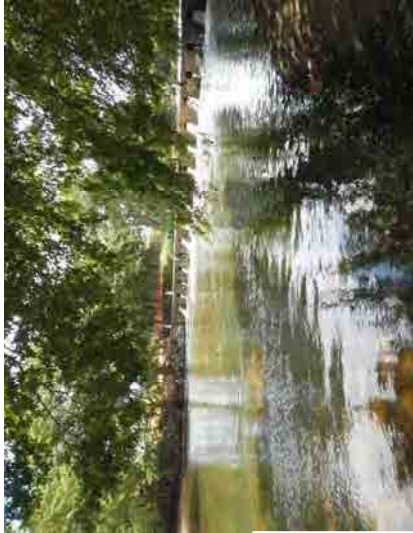


< PROPOSAL >  
**Reconstruction is not recommended because of Environmental problem.**

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.	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
	B379	Puttalam - Marichchikadai				North Western	Puttalam	3,300	2	Road improvement by foreign fund		Forest Reserve
51	Bridge No.	Bridge Name	Bridge Length (m)	Bridge Width (m)		No. of Lane	Bridge Type		Comple-tion Year	Super-structure	Bridge Soundness	Flood Records
	32/1		60.00	Overall	Curb-to-Curb		Super-structure	Pier				
				3.60	3.60	1	Multipole Pipe Culvert	-	-	Fair	-	Insufficient



< PRESENT CONDITIONS >

[BRIDGE ]  
Narrow for 2-lane traffic

[ SOUNDNESS ]\*\*  
- Superstructure Fair

RATE 2

- Substructure RATE

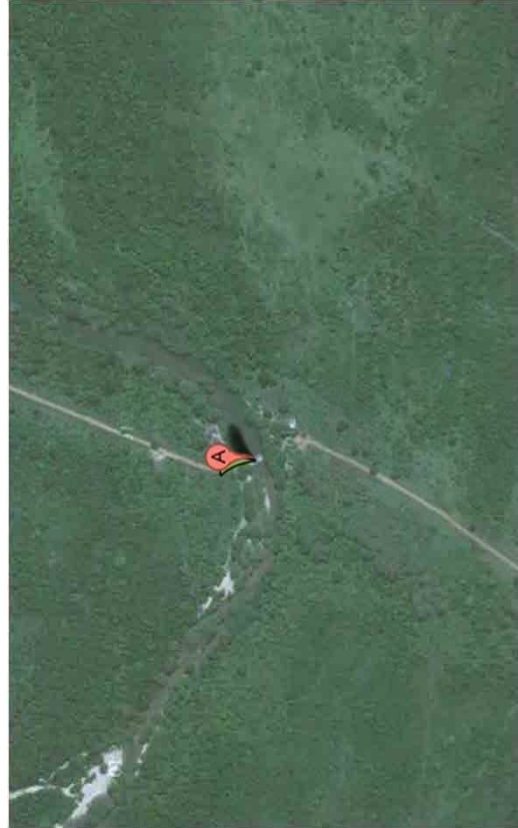
- Others

[ SURROUNDING AREA ]

< 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.	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
	AA003	Peliyagoda - Puttalam		North Western	Puttalam	8,537	4			ok
53	Bridge No.	Bridge Name	Bridge Length (m)	No. of Lane	Bridge Type	No. of Span	Completion Year	Super-structure	Sub-structure	Flood Records
	92/4		42.50	2	RC Slab	4		Poor	Fair	none
		Bridge Width (m)	Overall	Curb-to-Curb	Pier	RC Wall Type			Insufficient	
		6.10	5.50		RC Wall Type					



< PRESENT CONDITIONS >

[BRIDGE ]

Curb-to-Curb of 5.50m wide is insufficient for 2-lane traffic of Class A Road.

[ SOUNDNESS ]\*\*

- Superstructure Poor RATE 3
- R-Bars of C Slab corroded
- Substructure Fair RATE 2
- Others

[ SURROUNDING AREA ]

< PROPOSAL >

**New bridge 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: 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.

