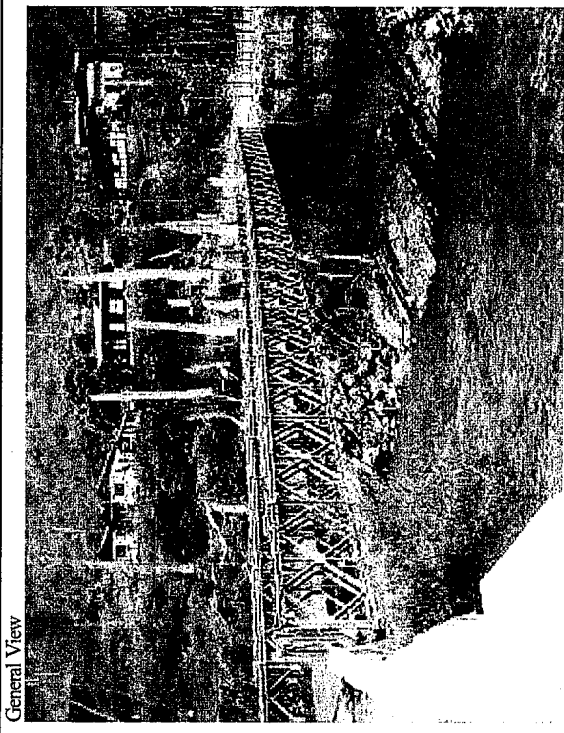


對象橋梁現況調查結果

Bridge Inventory SER.No. 1

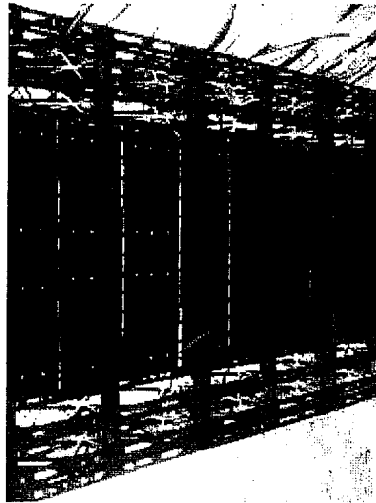
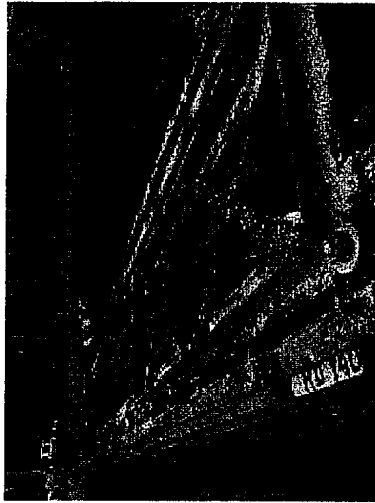
NAME OF BRIDGE Kuri Bridge		CLASS OF LOAD N.H.R.No.1		CROSSING NAME OF RIVER OR ROAD Kuri River		COMPLETED 1971		MAINTENANCE BY DOR. (Limithang)	
Design Information		Yes		No		DATE of Inspection 20/Apr/2000		Inspected by	
Type of Bridge		Superstructure Substructure		Deck Steel plate		18 t		Load Limitation No	
Length of Bridge		m		Span		m		Deg.R=	
Width of Bridge		Overall		m		42.5		m	
Affixed Articles Traffic Volume		m		Carriageway		m		Free Board	
Final Record of Repair		Pavement		Deck Slab		Main Beam		Painting	
Others		Greasing & Cleaning at Oct 1999		Ratio of Heavy Vehicle %		m		m	
Substructure		Expansion Joint		Drainage		Railing		Curb	
Notes		Substructure		Bearing		Affixed Articles		Design Quantity	
1. Seg of main girders is 21cm (increased by 4 cm within about 2 years)		Repair etc.		m		unknown		m	
		m		9.0		m ³ /sec		5 t	



Result of Visual Inspection	Bearing	3	Abutment	2
Pavement & Slab	Expansion Joint	1	Pier	—
Curb	Drainage	3	Wing Wall	2
Railing	Affixed Articles	3	River Bank	—
Deck Slab	Others	—	Approaches	—
Main Beam	Superstructure	3.0	Substructure	2.0
Others	Bridge Accessory	2.4		
Overall Rating	Rating	3.0	Comment	
<p>1.No damage detected on the basis of the inspection results. 2.Damage has been detected and a follow-up survey is required. 3.There is significant damage and a detailed survey needs to be carried out to establish whether repair work is to be carried out or not. 4.There is significant damage and urgent repair is required or the bridge has to be closed to traffic or restrictions on vehicle weight have to be imposed.</p>				

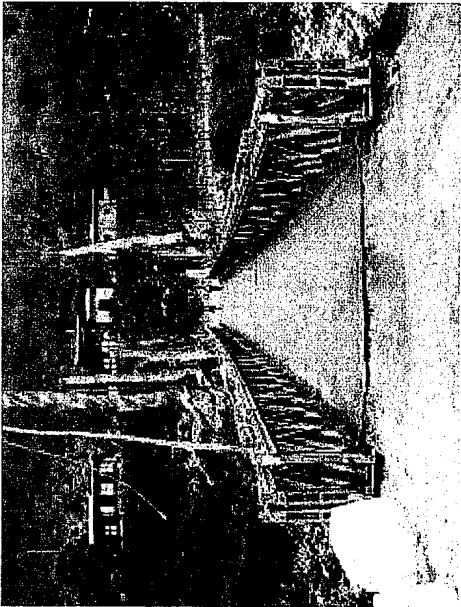
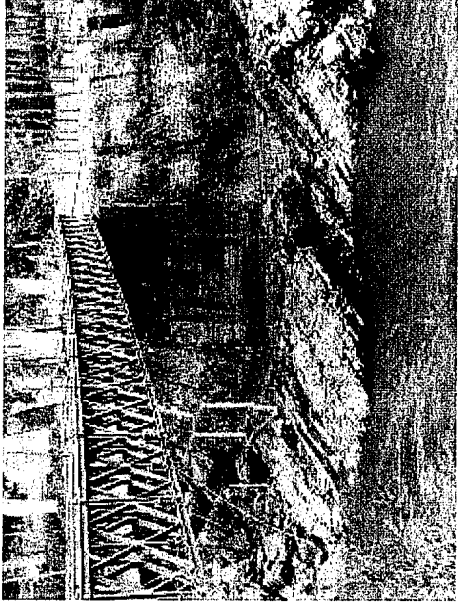
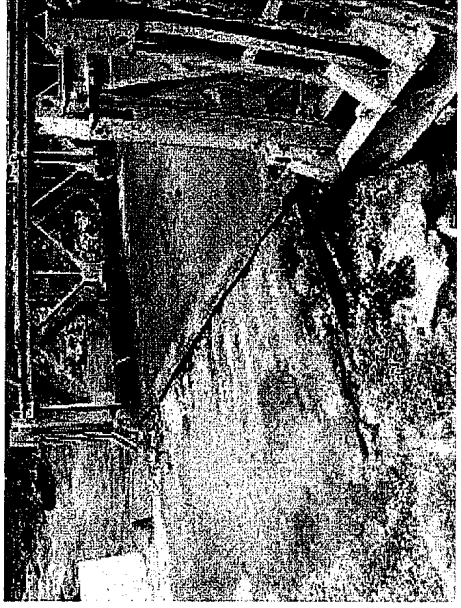
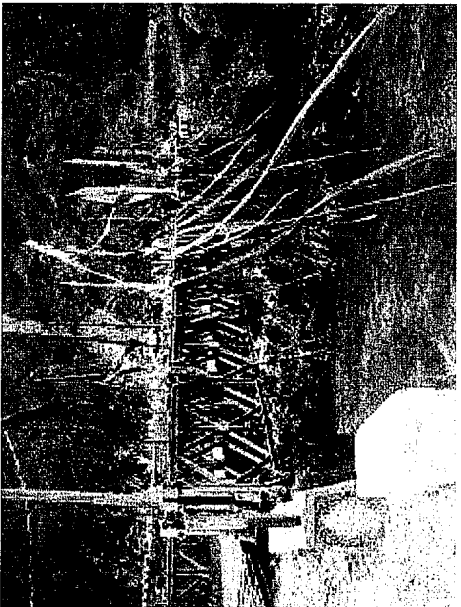
Bridge Inspection Form

NAME OF BRIDGE		SER No.		CROSSING: NAME OF RIVER OR ROAD		DATE OF INSPECTION		MAINTENANCE BY	
Kuri Bridge		CLASS OF LOAD N.H. Rt.No.1							
Component	Type	Steel plate	Condition	Damage	Rating		COMPLETED		
Bridge Surface	Pavement	Good, Waving, Rutting, Crack, Pothole, Others	Old						
	Curb	Good, Scaling, Cracking, Spalling, Exposure and corrosion of reinforcement, Wear of surfaces	Old				Repainting is very poor.		
	Railing	Type Bailey girder	Condition Fair						
	Deck Slab	Good, Scaling, Cracking, Spalling, Exposure and corrosion of reinforcement, Wear of surfaces	Condition Old						
		Type Steel plate on stringers	Condition Old						
		Good	1 direction	2 direction	Flaking	Rebar exposed	Others	1.Minor 2.Intermediate 3.Major	
	Main Beam	Type Bailey	Condition Old						
	Main Structure	Good, Rust, Corrosion, Buckling, Excessive deformation, Rivet off, Others	Condition Old						
	Diaphragm	Good, Rust, Corrosion, Buckling, Excessive deformation, Rivet off, Others	Condition Old						
	Sway Bracing								
	Lateral Bracing								
	Painting	Condition Very poor							
	Expansion Joint	Type	Condition						
		Invisible, Existed, Good, Abnormal sound, Clogged, Deformation, Gap, Other							
	Bearing	Type	Condition	Not cleaned					
		Invisible, Existed, Good, Broken, Anchor bolt, Abnormal displacement							
	Drainage	Condition							
		Clogged, Broken, Water leakage, Support broken, Pipe broken, Other							
	Abutment	Type Masonry on rock	Condition Good						
	A1	Body broken (Scaling, Cracking, Spalling, Exposure and corrosion of reinforcement, wear of surfaces), Others							
	Abutment	Type Masonry on rock	Condition Good						
	A2	Body broken (Scaling, Cracking, Spalling, Exposure and corrosion of reinforcement, wear of surfaces), Others							
	Pier	Type	Condition						
		Body broken (Scaling, Cracking, Spalling, Exposure and corrosion of reinforcement, wear of surfaces), Others							
	Foundation	Type	Condition						
		Settlement, Leaning, Moving, Crack, Scouring, Others							
	Wing Wall	Type Masonry on rock	Condition						
		Good, Scaling, Cracking, Spalling, Exposure and corrosion of reinforcement, wear of surfaces							
	Embankment	River Bank Good	Side Bank						
		Back Filling	Others						
	Affixed Article								
	Traffic Sign								
	Approaches								
	Others								
	Rating	1.No damage detected on the basis of the inspection results. 2.Damage has been detected and a follow-up survey is required. 3.There is significant damage and a detailed survey needs to be carried out establish whether repair work is to be carried out or not. 4.There is significant damage and urgent repair is required or the bridge has to be closed to traffic or restriction on vehicle weight to be imposed.							


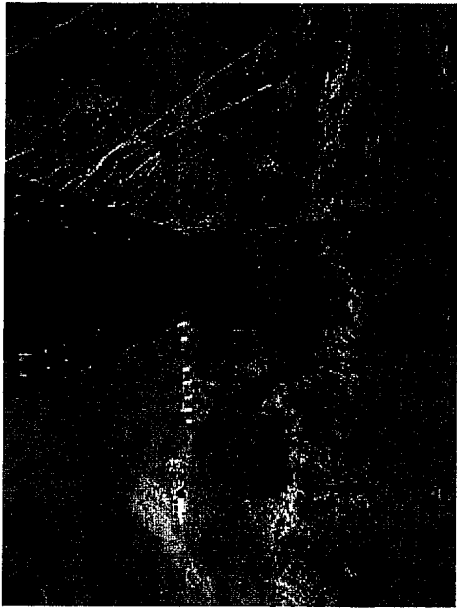


Note: Further inspection shall be carried out on the "major damage" detected in the inspection.

Photographs

NAME OF BRIDGE	Kuni Bridge	SER No.	I	Date of inspection
Front View		Side View from down stream site.		
Side View from up stream site.		The road surface condition of the girder end.		

Photographs

NAME OF BRIDGE	SER No.	Date of Inspection
Kuri Bridge	2	
Bearing		Front view of left bank side
		

Bridge Inventory SER No.2

NAME OF BRIDGE Chamkhar Bridge		CLASS OF LOAD NH.Rt.No.1		CROSSING: NAME OF RIVER OR ROAD Chamkhar River		COMPLETED 1973		MAINTENANCE BY	
Design Information		Yes		Manufacture		DATE of Inspection 21/Apr/2000		Inspected by	
Type of Bridge		Superstructure		Deck		18 t		Load Limitation	
		Bailey DS		Timber				No	
		Substructure						Yes	
		Abutment							
		Masonry							
		Pier							
Length of Bridge		33.7		Span		33.5		Skew	
		m		m		m		Deg R=	
Width of Bridge		Overall		Carriageway		Pedestrianway		Clearance	
		5.0		3.22		m		m	
Affixed Articles		(year)		Ratio of Heavy Vehicle		(year)		Width of River	
Traffic Volume				%				m	
Final Record of Repair		Pavement		Deck Slab		Main Beam		Depth	
		Others		Greasing & Cleaning at Apr 1999		Painting		m	
						Apr/1999		Free Board	
								m	
								Design Quantity	
								m ³ /sec	
								9.0	
								Repair etc.	
								Bearing	
								Drainage	
								Railing	
								Curb	
								Affixed Articles	

General View



Notes

1. Sag of main girders is 16cm (increased by 4 cm within about 2 years)
2. The bearing doesn't function.

Result of Visual Inspection									
Pavement & Slab	2	Bearing	4	Abutment	1				
Curb	1	Expansion Joint	---	Pier	---				
Railing	1	Drainage	---	Wing Wall	1				
Deck Slab	2	Affixed Articles	---	River Bank	---				
Main Beam	4			Approaches	1				
Others	---	Others		Others	---				
Superstructure	3.3	Bridge Accessory	3.2	Substructure	1.0				
Overall Rating	3.3								

Comment

1. No damage detected on the basis of the inspection results.
2. Damage has been detected and a follow-up survey is required.
3. There is significant damage and a detailed survey needs to be carried out to establish whether repair work is to be carried out or not.
4. There is significant damage and urgent repair is required or the bridge has to be closed to traffic or restrictions on vehicle weight have to be imposed.

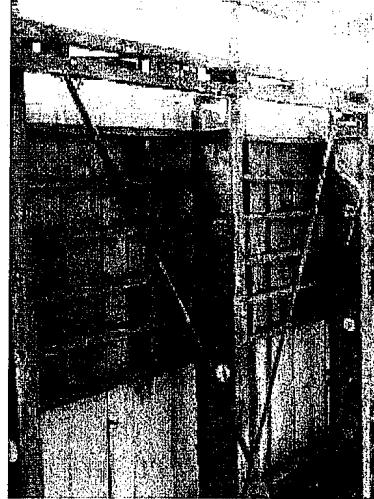
Bridge Inspection Form

SER.No.2

NAME OF BRIDGE		CLASS OF LOAD		CROSSING: NAME OF RIVER OR ROAD		DATE OF INSPECTION		MAINTENANCE BY			
Chamkar Bridge		N.H.Rt.No.1									
Component	Type	Condition of Damage	Rating		COMPLETED		DATE OF INSPECTION		MAINTENANCE BY		
Bridge Surface	Pavement	Timber+Asphalt	Condition	Good							
	Curb	Good, Waving, Ruffing, Crack, Pothole, Others	Condition	Good							
	Railing	Type: Timber	Condition	Good							
		Good, Scaling, Cracking, Spalling, Exposure and corrosion of reinforcement, Wear of surfaces	Condition	Not good, not bad							
		Type: Bailey	Condition	So-so							
		Good, Scaling, Cracking, Spalling, Exposure and corrosion of reinforcement, Wear of surfaces	Condition	1.Minor 2.Intermediate 3.Major							
	Deck Slab	Type: Timber on stringers	Condition	So-so							
		1 direction	Flaking	Rebar exposed							
		2 direction	Condition	So-so							
	Main Beam	Type: Bailey	Condition	So-so							
	Main Structure	Good, Rust, Corrosion, Buckling, Excessive deformation, Rivet off, Others	Condition	Poor							
	Diaphragm	Good (Rust) Corrosion, Buckling, Excessive deformation, Rivet off, Others	Condition	Truss is good. Other materials are No good.							
	Sway Bracing	Condition	Truss is good. Other materials are No good.								
	Lateral Bracing	Type	Condition	Condition							
	Painting	Invisible, Existed, Good, Abnormal sound, Closed, Deformation, Gap, Other	Condition	Not to slide and very rust							
	Expansion Joint	Type	Condition	Not to slide and very rust							
	Bearing	Invisible, Existed, Good, Broken, Anchor bolt, Abnormal displacement	Condition	Condition							
	Drainage	Clogged, Broken, Water leakage, Support broken, Pipe broken, Other	Condition	Condition							
	Abutment	Type: Masonry on rock	Condition	Good							
	A1	Body broken (Scaling, Cracking, Spalling, Exposure and corrosion of reinforcement, wear of surfaces), Others	Condition	Good							
	A2	Type: Masonry	Condition	Good							
		Body broken (Scaling, Cracking, Spalling, Exposure and corrosion of reinforcement, wear of surfaces), Others	Condition	Condition							
	Pier	Type	Condition	Condition							
		Body broken (Scaling, Cracking, Spalling, Exposure and corrosion of reinforcement, wear of surfaces), Others	Condition	Condition							
	Foundation	Type	Condition	Condition							
		Settlement, Leaning, Moving, Crack, Scouring, Others	Condition	Good							
	Wing Wall	Type: Masonry	Condition	Good							
		Good, Scaling, Cracking, Spalling, Exposure and corrosion of reinforcement, wear of surfaces	Condition	Side Bank							
	Embankment	River Bank	Condition	Others							
		Back Filling	Condition								
	Affixed Article		Condition								
	Traffic Sign		Condition								
	Approaches		Condition								
	Others		Condition								
	Rating	1.No damage detected on the basis of the inspection results. 2.Damage has been detected and a follow-up survey is required. 3.There is significant damage and a detailed survey needs to be carried out establish whether repair work is to be carried out or not. 4.There is significant damage and urgent repair is required or the bridge has to be closed to traffic or restriction on vehicle weight to be imposed.									




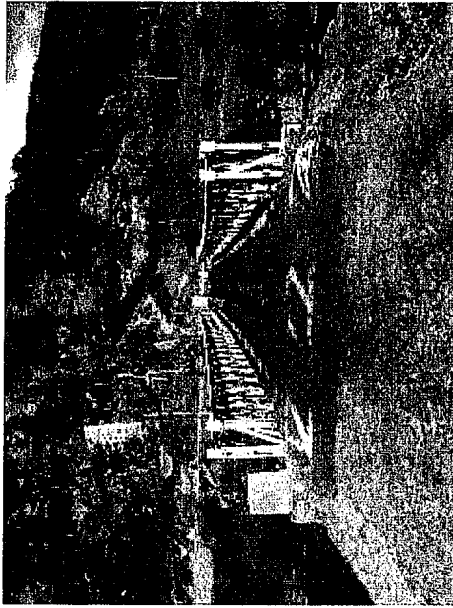
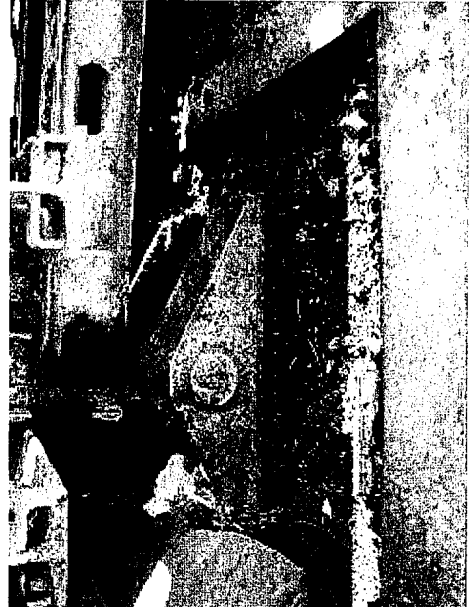

Members were bent at several places.



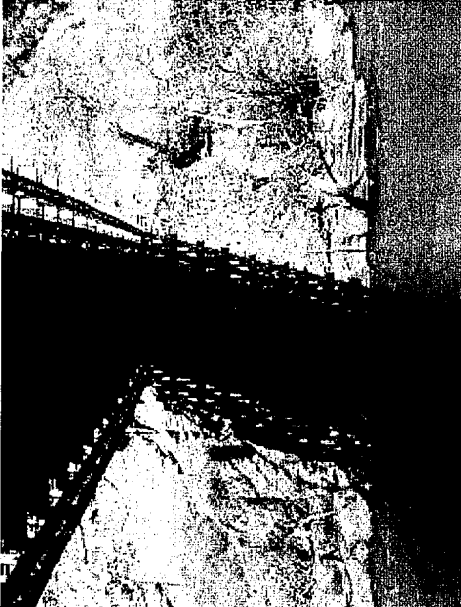

The underside of the frames are very rusty.

Note: Further inspection shall be carried out on the 'major damage' detected in the inspection.

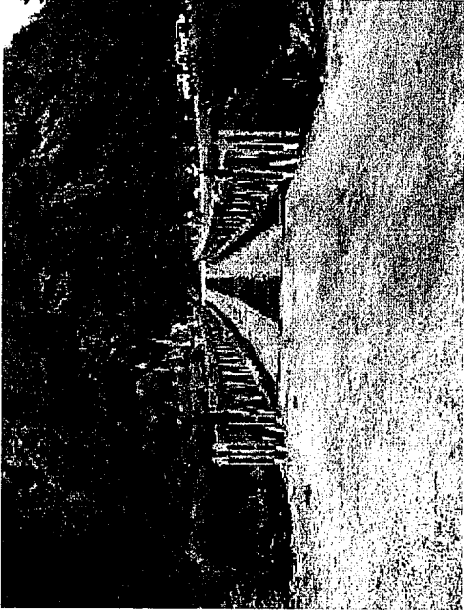
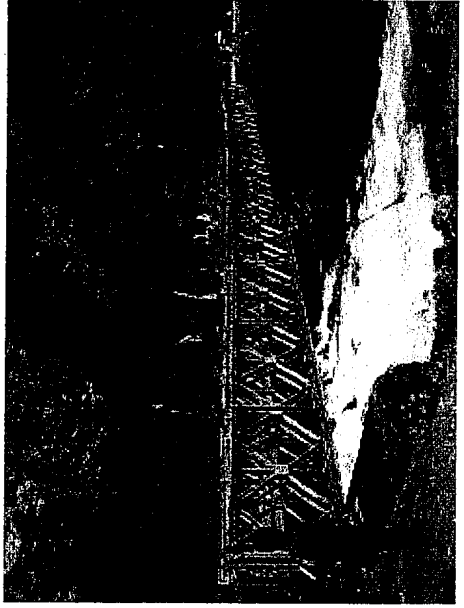

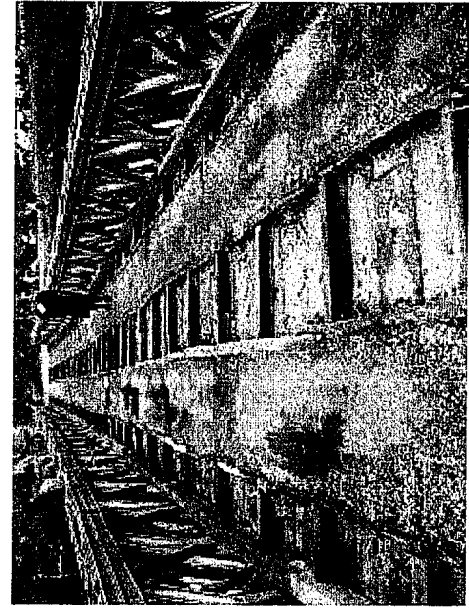
Photographs

NAME OF BRIDGE	SER No.	Date of Inspection
Chamkar Bridge	2	
<p>Front view from the right bank</p> 	<p>Front view from the left bank</p> 	
<p>Bearing is very rust.</p> 		



Photographs

NAME OF BRIDGE	SER No.	Date of Inspection
Chamker Bridge	2	
<p>Left bank side abutment.</p> 		<p>Right bank side abutment</p> 

Photographs

NAME OF BRIDGE	SER. No.	Date of Inspection
Ejee Bridge	3	
<p>Front view from the right bank.</p> 	<p>Side view from the right bank</p> 	
<p>Under side Frames were rust.</p> 	<p>Bridge Surface.</p> 	

Photographs

NAME OF BRIDGE	SER No.	Date of Inspection
Ejee Bridge	3	
<p>Left bank side abutment.</p> 		<p>Right bank side abutment</p> 

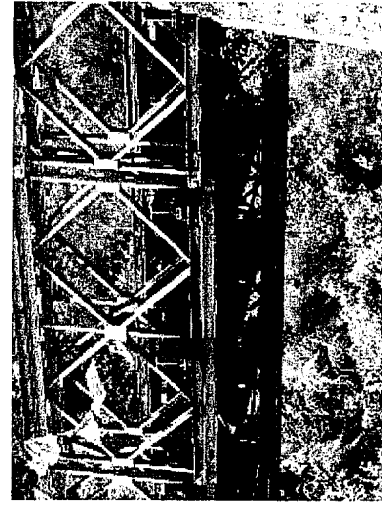
Bridge Inventory SER No. 4

NAME OF BRIDGE Wachy Bridge		CLASS OF LOAD NHRI.No.1		CROSSING: NAME OF RIVER OR ROAD Dang River		COMPLETED 1969		MAINTENANCE BY DOR. (Lobesa)	
Design Information		Yes		No		DATE of Inspection 18/Apr2000		Inspected by	
Type of Bridge		Superstructure		Deck		Design Loading		Load Limitation	
		Bailey DSR		Timber		Design Standard		No	
		Substructure		Masonry		Skew of Bridge		Yes	
		Abutment		Pier		Skew		Deg.R=	
Length of Bridge		33.7		Span		33.5		m	
Width of Bridge		5.0		Carriageway		3.15		m	
Affixed Articles		Overall		Pedestrianway		m		Design Quantity	
Traffic Volume		(year)		Ratio of Heavy Vehicle		%		m ³ /sec	
Final Record of Repair		Pavement		Deck Slab		Main Beam		Painting	
		Others		Expansion Joint		Railing		Curb	
General View		Substructure		Notes		Bearing		Drainage	
		Others		1. Sag of main girders is 15cm. (increased by 4 cm within about 2 years)		Railing		Curb	

Result of Visual Inspection	Bearing	Expansion Joint	Abutment
Pavement & Slab	2	3	Pier
Curb	2	---	Wing Wall
Railing	3	---	River Bank
Deck Slab	2	---	Approaches
Main Beam	4	---	Others
Others	---	---	Substructure
Superstructure	3.5	2.4	1.0
Overall Rating	3.5		
Rating	Comment		
1.No damage detected on the basis of the inspection results. 2.Damage has been detected and a follow-up survey is required. 3.There is significant damage and a detailed survey needs to be carried out to establish whether repair work is to be carried out or not. 4.There is significant damage and urgent repair is required or the bridge has to be closed to traffic or restrictions on vehicle weight have to be imposed.			

Bridge Inspection Form SER No.4

NAME OF BRIDGE		CLASS OF LOAD		CROSSING: NAME OF RIVER OR ROAD		DATE OF INSPECTION		MAINTENANCE BY	
Wachy Bridge		N.H.R.No.1							
Component		Type	Timber with Asphalt	Condition of Damage		Rating			
Pavement		Good, Waving, Rutting, Crack, Pothole, Others		Condition	Poor				
Curb		Type	Timber	Condition	Poor				
Railing		Good, Scaling, Cracking, Spalling, Exposure and corrosion of reinforcement, Wear of surfaces		Condition	Poor				
Deck Slab		Type	Timber on stringers	Condition	Fair to poor				
		Good	1 direction	Flaking	Rebar exposed	Others	1.Minor 2.Intermediate 3.Major		
Main Beam		Type	Bailey	Condition	Poor				
Main Structure		Good, Rust, Corrosion, Buckling, Excessive deformation, Rivet off, Others		Condition	Poor				
Diaphragm		Good (Rust) Corrosion, Buckling, Excessive deformation, Rivet off, Others		Condition	Poor				
Sway Bracing		Condition	very poor	Condition					
Lateral Bracing		Type	Invisible, Existed, Good, Abnormal sound, Clogged, Deformation, Gap, Other	Condition					
Painting		Type	Invisible, Existed, Good, Broken, Anchor bolt, Abnormal displacement	Condition					
Expansion Joint		Condition	very poor	Condition					
Bearing		Type	Invisible, Existed, Good, Broken, Anchor bolt, Abnormal displacement	Condition					
Drainage		Condition	very poor	Condition					
Abutment		Clogged, Broken, Water leakage, Support broken, Pipe broken, Other		Condition	Good				
A1		Type	Masonry on rock	Condition	Good				
Abutment		Body broken (Scaling, Cracking, Spalling, Exposure and corrosion of reinforcement, wear of surfaces), Others		Condition	Good				
A2		Type	Masonry on rock	Condition	Good				
Pier		Body broken (Scaling, Cracking, Spalling, Exposure and corrosion of reinforcement, wear of surfaces), Others		Condition					
Foundation		Type	Body broken (Scaling, Cracking, Spalling, Exposure and corrosion of reinforcement, wear of surfaces), Others	Condition					
Wing Wall		Settlement, Leaning, Moving, Crack, Scouring, Others		Condition					
Embankment		Type	Masonry	Condition	Good				
Affixed Article		Good, Scaling, Cracking, Spalling, Exposure and corrosion of reinforcement, wear of surfaces		Condition					
Traffic Sign		River Bank		Side Bank					
Approaches		Back Filling		Others					
Others									
Rating		1.No damage detected on the basis of the inspection results. 2.Damage has been detected and a follow-up survey is required. 3.There is significant damage and a detailed survey needs to be carried out establish whether repair work is to be carried out or not. 4.There is significant damage and urgent repair is required or the bridge has to be closed to traffic or restriction on vehicle weight to be imposed.							



Members were very rusty.



Turn buckle doesn't work.
The underside frames are very rusty.

Note: Further inspection shall be carried out on the 'major damage' detected in the inspection.

Photographs

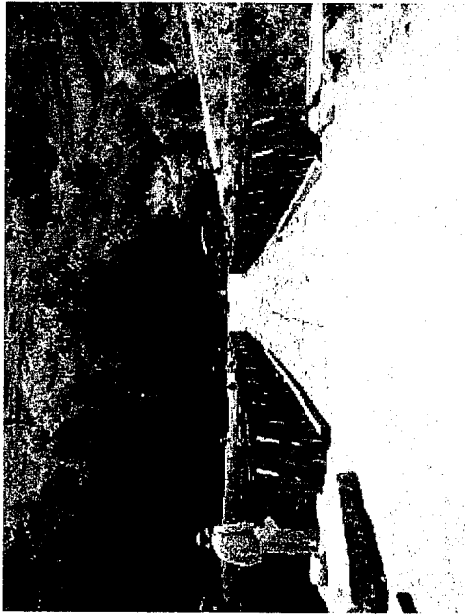
NAME OF BRIDGE

Wacky Bridge

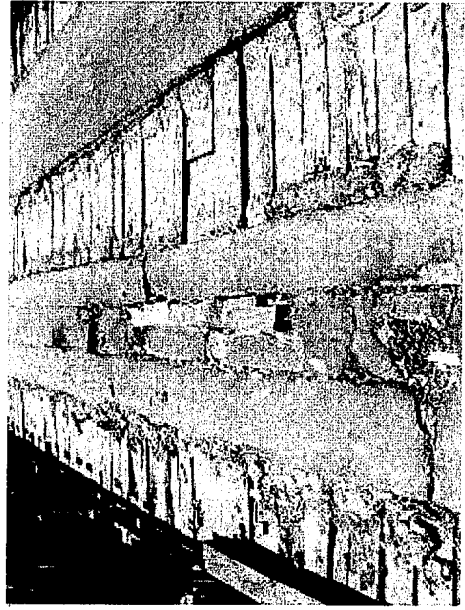
SER. No. 4

Date of Inspection

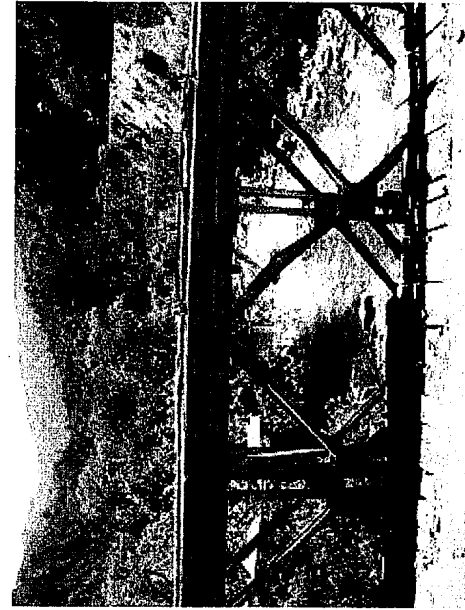
Front view from the right bank





Bridge surface



Main beam was bent and rusty.



Photographs

NAME OF BRIDGE	SER No.	Date of Inspection
Wachy Bridge	4	
<p>Left bank side abutment.</p> 	<p>Right bank side abutment</p> 	
<p>End post was crushed.</p> 