Inspection sheet of visual survey

Bridge No. Photo No. Code of authorit BMA Route name RAMA VIII Bridge Bridge name Authorit from Khat Bang Phlat from Place Survey date 23-0ct-2009 Distanc to Khet Phra Nakhon km+ 0 Bridge type(1) main road side road ramp Camber deform yes • no ltem Type State Bridge type (2) bridge viaduct plank pass Difference in glade ves Main girder Composite I girder ontinuous of barrie yes Bridge type (3) 4-span composite 2 I girder cable stayed bridge Cross beam I section steel Total length 475.00 Continuous of curve yes Stringer 75 + 50 + 50 + 300 (m) Noise Span Cross frame Nos. of span 4 span Space change lateral brac Width 29. 20 (m) / difference grade yes (cannot see from outside due to decorative plate) Slab Completion 2002 draining damage Abutment Free lime at cross beam Blocked drainage no 늉 Rectangular Outline Straight • incli($\theta = 2$ Crack of pavement Bearing Slide bearing Horizontal Curve (R (凸 凹) Generally healthy Gradient . > Damage of lighting yes . no Steel Barrier Nearby tunnel no Damage of sign Railing Steel Generally healthy m) Nearby crossing Damage of handrail yes • no Curb yes (ramp way asphalt concrete Pot hole Traffic Possibility of scourves • Pavement Little Commercial traffi Medium Little Walkway yes • no drained undraine Vehicle yes yes · no 2. Suburbs 3. Mountain 1. Urban 4. Seaside 5. Industria 6. Harbor 7. Residential 8. Bussiness 9. Salty 10. Cold and snow 11. Heavy snow 12. Others on 1. Shinkanser 2. Railway 3. Highway 4. Road 5. River 6. Lake 7. Ravine 8. Valley 9. Waterway 10. Parking 11. Bike parkin 12. Park 13. Vacant 14. Harbor Name (Chao Phrava . Inspection car 2. Falsework 3. On ground 4. Ladder 5. Lift car Superstructure 6. On boat 7. Special camera 8. Others (Inspection vehicle) leight of girde about 10n 1. Inspection car 2. Falsework 3. On ground 4. Ladder 5. Lift car ◆ Deterioration of bridge Substructure 6. On boat 7. Special camera 8. Others (Inspection vehicle) deficient · fair · ◆ Noticeable point · Center span section is on the water listory of repair If inspection car is not available, false work Leakage form cable Reason Repaint: - yy - mm will be required Mr, Chujo, Mr. Kudo Surveyor:

Present state (1/8)

Authority	BMA	Address	Bangkok	Data	23-0ct-09
Bridge	RAMA VIII				



Picture No.	1
Span	1
Member	Side view

*Survey on board, 31-oct



Picture No.	2
Span	1
Member	View on road



Picture No.	3
Span	1
Member	View under bridge

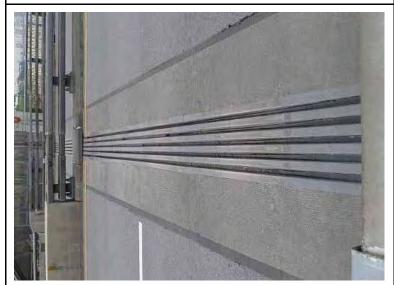
Present state (2/8)

Authority	BMA	Address	Bangkok	Data	23-0ct-09
Bridge	RAMA VIII				



Picture No.	4
Span	1
Member	Pylon

*Survey on board, 31-oct



Picture No.	5
Span	1
Member	Expansion joint

Modular type



Picture No.	6	
Span	1	
Member	Expansion joint	
Lack of bolt		
Soil dump		

Present state (3/8)

Authority	BMA	Address	Bangkok	Data	23-0ct-09
Bridge	RAMA VIII				



Picture No.	7
Span	1
Member	View of cable

Helical type wind resistance



Picture No.	8
Span	1
Member	Cable

Leakage from cable



Picture No.	9
Span	1
Member	Cable

Leakage from cable

Opening under side of cable cover for drainage

Present state (4/8)

Authority	BMA	Address	Bangkok	Data	23-0ct-09
Bridge	RAMA VIII				



Picture No.	10
Span	1
Member	Cable fixing structure

Gap and calking between cable and slab. And mounted up around cable to prevent remaining water.



Picture No.	11
Span	1
Member	Cable fixing structure

slab. And mounted up around cable to prevent remaining water.



Picture No.		12	
Span		1	
Member	Cable	fixing	structure

Calking and name plate of cable

well maintained but aging

Present state (5/8)

Authority	BMA	Address	Bangkok	Data	23-0ct-09
Bridge	RAMA VIII				



Picture No.			7	
Span			1	
Member	Side	span	and	approach

side span is 3+2 lane for ramp wa



Picture No.	8
Span	1
Member	Anchorage



Picture No.	9
Span	1
Member	Newe1

Present state (6/8)

Authority	BMA	Address	Bangkok	Data	23-0ct-09
Bridge	RAMA VIII				



Picture No.	10
Span	1
Member	Pavement

Pot	_h	_	
$\Gamma \Gamma \cap \Gamma$	- 11	()	I (-



Picture No.	11
Span	1
Member	Drainage



Picture No.	12	
Span	1	
Member	Cross beam	

Leakage and small fructure of concrete surface

Present state (7/8)

Authority	BMA	Address	Bangkok	Data	23-0ct-09
Bridge	RAMA VIII				



Picture No.	7
Span	1
Member	Barrier

Lack of bolt cap



Picture No.	8
Span	1
Member	Hand rail of walkway



Picture No.	9
Span	1
Member	Cable fixing of pylon

Present state (8/8)

Authority	BMA	Address	Bangkok	Data	23-0ct-09
Bridge	RAMA VIII				



Picture No.	10
Span	1
Member	Decorative plate

leakage line



Picture No.	11
Span	1
Member	Bearing

Picture No. 12
Span 1
Member

添付-145

Inspection sheet of visual survey

Bridge No. Photo No. Code of authorit DRR Route name Pinklao Bridge Bridge name Authorit from Khat Bangkok Noi from Place Survey date 2009/10/23 Distanc to Khet Phra Nakhon km+ 0 Bridge type(1) main road side road ramp Camber deform yes • no ltem Type State PC-Box Bridge type (2) bridge viaduct plank pass Difference in glade ves Main girde Leakage from box girder 3-span continuous PC box girder ontinuous of barrie yes Bridge type (3) Cross beam Total length 276.00 (m) Continuous of curve yes Stringer 83 + 110 + 83 (m) Span Noise Cross frame Nos. of span 4 span Space change lateral brac difference grade yes Width 32. 21 (m) / Slab free lime 1973 Completion draining damage ves Abutment Rectangular Blocked drainage yes ᇦ Pier Straight • incli($\theta =$ Crack of pavement Bearing Slide bearing Horizontal Curve (R (凸 凹) Steel Generally healthy Gradient Damage of lighting yes Barrier Nearby tunnel Damage of sign Railing Steel Generally healthy no m) Nearby crossing no Damage of handrail yes • no Curb m) Traffic Possibility of scour ves asphalt concrete Generally healthy Much Little Pavement Walkway yes • Commercial traffi Much Little no drained undrained Leakage Blocked Vehicle yes • no yes · no 2. Suburbs 3. Mountain 1. Urban 4. Seaside 5. Industria 6. Harbor 7. Residential 8. Bussiness 9. Salty 10. Cold and snow 11. Heavy snow 12. Others · Sever leakage from expansion joint ion · Water flow in box girder may cause defect in box. 1. Shinkanser 2. Railway 3. Highway 4. Road 5. River 6. Lake 7. Ravine 8. Valley Crack of pier of approach bridge 9. Waterway 10. Parking 11. Bike parkin 12. Park 13. Vacant 14. Harbor Name (Chao Phrava . Inspection car 2. Falsework 3. On ground 4. Ladder 5. Lift car Superstructure 6. On boat 7. Special camera 8. Others (leight of girde about 11.5n . Inspection car 2. Falsework 3. On ground 4. Ladder 5. Lift car ◆ Deterioration of bridge Substructure deficient · fair 6. On boat 7. Special camera 8. Others (· All bridge section is on the water ◆ Noticeable point listory of repair If inspection car is not available, false work Crack of pier of approach Reason Repaint: - yy - mm will be required · Leackage from manhole Surveyor: Mr, Chujo, Mr. Kudo

Present state (1/7)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Phra Pin Klao Bı	ridge			



Picture No.	1
Span	1
Member	Side view



Picture No.	2
Span	1
Member	View on road



Picture No.	3
Span	1
Member	View under girder

Present state (2/7)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	e Phra Pin Klao Bridge				



Picture No.	4
Span	1
Member	Hinge



Picture No.	5
Span	1
Member	Expansion joint

Corrosion at end



Picture No.	6
Span	1
Member	Expansion joint

Corrosion

Present state (3/7)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	e Phra Pin Klao Bridge				



Picture No.	7
Span	1
Member	Expansion joint

Center hinge part



Picture No.	8
Span	1
Member	Expansion joint

Deterioration of drain function

Bangkok side

No door in manhole



Picture No.	9
Span	1
Member	bottom slab

Deterioration of drain function

Thon Buri side

Present state (4/7)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	ge Phra Pin Klao Bridge				



Picture No.	10
Span	1
Member	Approach bridge

Crack



Picture No.	11	
Span	1	
Member	Man hole	

Leakage from manhole

Leakage from water supply?



Picture No.	12
Span	1
Memher	Pv1on

Mark of leakage from joint of barrier

Present state (5/7)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Phra Pin Klao Bridge				



Picture No.	13
Span	1
Member	Drainage

Blocking



Picture No.	14
Span	1
Member	Lighting pole

Deterioration of corrosion proofi



Picture No.	15	
Span	1	
Member	Walkway	

Graffiti

Fracture of decorative plate

Present state (6/7)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Phra Pin Klao Bi	ridge	-		



Picture No.	16	
Span	1	
Member	Slab	

Free lime from construction joint

*Survey on board, 31-oct



Picture No.	17	
Span	1	
Member	Hinge	

Leakage

*Survey on board, 31-oct



Picture No.	18
Span	1
Member	Slab

Nest harm

*Survey on board, 31-oct

Present state (7/7)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Phra Pin Klao Bridge				

	Picture No.	19
	Span	1
	Member	Substructure
A STATE OF THE STA		
	*Survey on	board, 31-oct
	Picture No.	20
	Span	1
	Member	
	Distant M	0.1
	Picture No.	21
	Span Member	1
	MCHIDCI	
	<u> </u>	

Inspection sheet of visual survey

Bridge No. Photo No. Code of authorit DRR Route name Memorial Bridge Bridge name Authorit from Khat Thon Buri from Place Survey date 2009/10/23 Distanc to Khet Phra Nakhon km+ 0 Bridge type(1) main road side road ramp Camber deform yes • no ltem Type State Difference in glade ves Bridge type (2) bridge viaduct plank pass Main girde Truss Corrosion, Deterioration of proofing, deformation by colli ontinuous of barrie yes Bridge type (3) 3-span steel truss Cross beam I section steel Total length 234.00 (m) Continuous of curve yes Stringer I section steel 78 + 78 + 78 (m) Span Noise Cross frame T section steel Deformation by collision Nos. of span 3 span Space change lateral brac ves • difference grade yes Width 10.00 (m) / Crack (under and top of road, under walkway), free lime. Slab Completion 1932 draining damage ves Abutment Blocked drainage Pier 0ctagon Straight • incli($\theta =$ Crack of pavement Bearing Pin bearing Deterioration of proofing of anchor bolt Horizontal Curve (R (凸 Gradient 凹) Damage of lighting yes Barrier Nearby tunnel Damage of sign Railing Steel Generally healthy no m) Nearby crossing no Damage of handrail yes • no Curb m) Traffic Possibility of scourves · no asphalt concrete Generally healthy Pavement Much Little Commercial traffi Much . Medium Little Walkway yes • drained undrained Partly leakage Blocked Vehicle yes - no (center span) yes · no 3. Mountain 1. Urban 2. Suburbs 4. Seaside 6. Harbor 7. Residential 5. Industria 8. Bussiness 9. Salty 10. Cold and snow 11. Heavy snow 12. Others · Serious damage by ship collision and vehicle collision was seen .o • 1 cross frame of center span was dropped off 1. Shinkanser 2. Railway 3. Highway 4. Road 5. River Remaining water was found in chord member 6. Lake 7. Ravine 8. Valley 9. Waterway 10. Parking 11. Bike parkin 12. Park ·Longitudinal crack located between walkway and roadway might be caused by insufficie 13. Vacant 14. Harbor Name (Chao Phrava rigidity of support member of walkway. More detailed survey is recommended. · Some rivet was lost . Inspection car 2. Falsework 3. On ground 4. Ladder 5. Lift car Superstructure 6. On boat 7. Special camera 8. Others (Inspection vehicle leight of girde about 7 3n 1. Inspection car 2. Falsework 3. On ground 4. Ladder 5. Lift car ◆ Deterioration of bridge Substructure deficient · fair 6. On boat 7. Special camera 8. Others(· All bridge section is on the water Noticeable point Maintenance and repairing work was done by ODA at 1984 listory of repair If inspection car is not available, false work Deformation by collision Repaint; Reason - yy - mm will be required for center span Mr, Chujo, Mr. Kudo Corrosion of some member Surveyor: Crack under walkway

Present state (1/18)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Memorial Bridge				



Picture No.	1	
Span	1	
Member	Side view	



Picture No.	2
Span	1
Member	View on road



Picture No.	3
Span	1
Member	View under girder
Inspection	vehicle of side span.
No inspecti	on vehicle in center
span	

Present state (2/18)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Memorial Bridge				



Picture No.	4
Span	1
Member	Side view of side span



Picture No.	5
Span	2
Member	side view of center sp



Picture No.	6
Span	1
Member	View of walkway
	_

Present state (3/18)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Memorial Bridge				



Picture No.	7
Span	1
Member	material

The material made in England

It's seems that same fabricator provide material for repairing wo



Picture No.	8
Span	1
Member	Material

A325 (ASTM), NKYM

High tension bolt produced MISUBOSHI



Picture No.	9
Span	1
Member	Inspection vehicle

Han powered inspection vehicle.

Present state (4/18)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Memorial Bridge				



Picture No.	10
Span	1
Member	Expansion joint

Bangkok side



Picture No.	11
Span	1
Member	Expansion joint

Bangkok side

Deterioration of corrosion proof



Picture No.	12
Span	1
Member	Expansion joint

between side span and center spar

Peeling of surface layer

Present state (5/18)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Memorial Bridge				



Picture No.	7
Span	1
Member	Bearing

Deterioration of corrosion proofi



Picture No.	8
Span	1
Member	Bearing

Remaining water



Picture No.	9
Span	1
Member	Bearing

Mark of remarkable corrosion

There is no remaining water at survey. Improved?

Present state (6/18)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Memorial Bridge				



Picture No.	10
Span	1
Member	Stay cable

Connection between steel and slab

It looks make gap around steel member from bottom side.



Picture No.	11
Span	1
Member	Inspection vehicle

Mounted up around steel member to prevent remaining water.

It looks no gap around steel member from top side.



Picture No.	12
Span	1
Member	slab

It looks no gap around steel members from top side.

Present state (7/18)

Authority	DRR	n	Bangkok	Data	23-0ct-09
Bridge	Memorial Bridge				



Picture No.	13
Span	1
Member	slab

Reinforcement by additional plate

Original structure is connected by rivet

Reinforcement structure is connected by high tension bolt.



Picture No.	14
Span	1
Member	slab

Reinforcement plate top and bottom of member

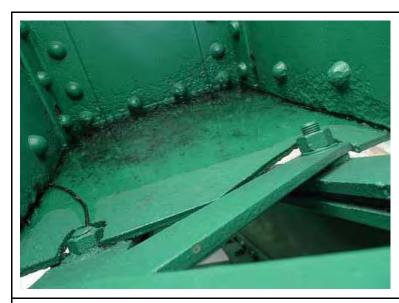


Picture No.	15
Span	1
Member	slab

Remaining water is seen inside of chord member

Present state (8/18)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Memorial Bridge				



Picture No.	16
Span	1
Member	slab

Remaining water
It will make corrosion



Picture No.	17
Span	1
Member	slab

Remarkable reduced section



Picture No.	18
Span	1
Member	slab

Rivet is not changed to bolt.

Reinforcement plate was connected only center by bolt.

Present state (9/18)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Memorial Bridge				



Picture No.	13
Span	1
Member	slab

Deterioration of corrosion proofi



Picture No.	14
Span	1
Member	slab

Corrosion of diaphragm

Accumulation of soil



Picture No.	15
Span	1
Member	Lighting pole

Corrosion of diaphragm

Present state (10/18)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Memorial Bridge				



Picture No.	16
Span	1
Member	Chord member

Repaired member



Picture No.	17
Span	1
Member	Bolt

Rivet was replaced by bolt

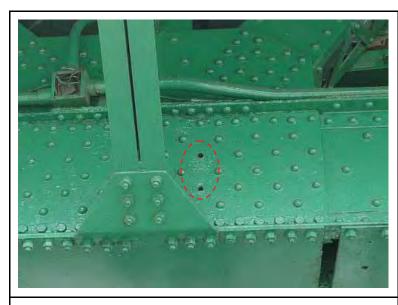


Picture No.	18
Span	1
Member	Bo1t

Looseness of bolt

Present state (11/18)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Memorial Bridge				



Picture No.	19
Span	1
Member	Bolt

Falling of rivet



Picture No.	20
Span	1
Member	Upper chord

Deformation



Picture No.	21
Span	1
Member	Lighting pole

Corrosion

Present state (12/18)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Memorial Bridge				



Picture No.	22
Span	1
Member	Stringer

Stringer is connected by high tension bolt.

All stringer might be replaced at repairing work



Picture No.	23
Span	1
Member	Bottom chord

Deformation by vehicle collision

Limit of vehicle height is 3.5m

No warning frame is set before bridge at Thon Buri side



Picture No.	24
Span	1
Member	Bottom chord

Deformation by vehicle collision

Thon Buri side

Present state (13/18)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Memorial Bridge				



Picture No.	25
Span	1
Member	Cross frame

Thon Buri side

Buckling by vehicle collision



Picture No.	26
Span	1
Member	End cross beam

Deformation



Picture No.	27
Span	1
Member	Bottom chord

Rupture of rivet by vehicle collision

Present state (14/18)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Memorial Bridge				



Picture No.	28
Span	1
Member	Monitoring camera



Picture No.	29
Span	1
Member	Worning frame

There is warning frame at Bangkok side



Picture No.	30
Span	1
Member	slab
	<u> </u>

Crack on slab

Present state (15/18)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Memorial Bridge				



Picture No.	31
Span	1
Member	slab

Replaced slab

Free lime is seen on slab of center span and walkway



Picture No.	32
Span	1
Member	slab

Crack and free lime



Picture No.	33
Span	1
Member	Drainage

Blocked

Present state (16/18)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Memorial Bridge				



Picture No.	34
Span	1
Member	Slab

Longitudinal crack between road and walkway

Insufficiency of rigidity of bracket member of walkway?

*Survey on board, 31-oct



Picture No.	35
Span	1
Member	Slab

Longitudinal crack between road and walkway

*Survey on board, 31-oct



Picture No.	36	
Span	1	
Member	Slab	

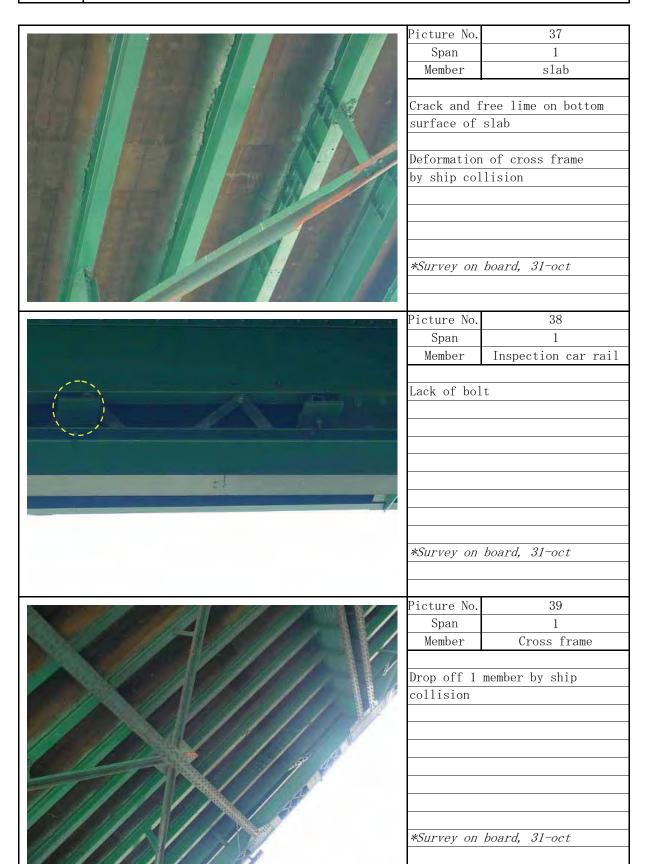
Longitudinal crack between road and walkway

Fracture of surface

*Survey on board, 31-oct

Present state (17/18)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Memorial Bridge				



Present state (18/18)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Memorial Bridge				

	Picture No.	40
the state of the s	Span	1
	Member	Gusset plate
		-
	Damage by s	hip collision
The state of the s		
4 5 5 6 5 F T T T T T T T T T T T T T T T T T T		
A D D D D D D D D D D D D D D D D D D D		
	110	1 1 01
	*Survey on	board, 31-oct
	Picture No.	41
	Span Span	1
	Member	*
	Picture No.	42
	Span	1
	Member	-

Inspection sheet of visual survey

Bridge No. Photo No. Code of authorit DRR Route name Phra Pokklao Bridge Bridge name Authorit from Khat Bangkok Noi from Place Survey date 2009/10/23 Distanc to Khet Phra Nakhon km+ 0 Bridge type(1) main road side road ramp Camber deform yes • no ltem Type State PC-Box Bridge type (2) bridge viaduct plank pass Difference in glade ves Main girde free lime 3-span continuous PC box girder ontinuous of barrie yes Bridge type (3) Cross beam Total length 212.00 (m) Continuous of curve yes Stringer 56 + 100 + 56 (m) Span Noise Cross frame Nos. of span 3 span Space change lateral brac difference grade yes Width 13.2 X 2 (m) / Slab free lime Completion 1984 draining damage Abutment Rectangular Blocked drainage no 늉 Pier Outline Horizontal Straight • incli($\theta =$ Curve (R Crack of pavement Bearing Slide bearing (凸 凹) Exfoliation Gradient Damage of lighting yes . Trapezoidal no Barrier Nearby tunnel Damage of sign Railing Steel Generally healthy no m) Nearby crossing no Damage of handrail yes • no Curb m) Traffic Possibility of scouryes asphalt concrete Generally healthy Much Little Pavement Walkway yes • Commercial traffi Much Little no drained undrained leakage at end Generally healthy Vehicle yes • no yes · 2. Suburbs 3. Mountain 1. Urban 4. Seaside 5. Industria 6. Harbor 7. Residential 8. Bussiness 9. Salty 10. Cold and snow 11. Heavy snow 12. Others on 1. Shinkanser 2. Railway 3. Highway 4. Road 5. River 6. Lake 7. Ravine 8. Valley 9. Waterway 10. Parking 11. Bike parkin 12. Park 13. Vacant 14. Harbor Name (Chao Phrava . Inspection car 2. Falsework 3. On ground 4. Ladder 5. Lift car Superstructure 6. On boat 7. Special camera 8. Others (leight of girde about 8.9n 1. Inspection car 2. Falsework 3. On ground 4. Ladder 5. Lift car ◆ Deterioration of bridge Substructure 6. On boat 7. Special camera 8. Others (deficient · fair · · All bridge section is on the water Noticeable point listory of repair If inspection car is not available, false work Reason Repaint: - yy - mm will be required Mr, Chujo, Mr. Kudo Surveyor:

Present state (1/4)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Phra Pokklao Bri	dge			



Picture No.	1
Span	1
Member	Side view



Picture No.	2
Span	1
Member	View on road



Picture No.	3
Span	1
Member	View under girder

Present state (2/4)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Phra Pokklao Bri	idge			



Picture No.	4
Span	1
Member	Approach bridge

Settlement around pier



Picture No.	5
Span	1
Member	Catch basin



Picture No.	6
Span	1
Member	Catch basin

Cross fall is parabola?

Catch basin is installed at both side

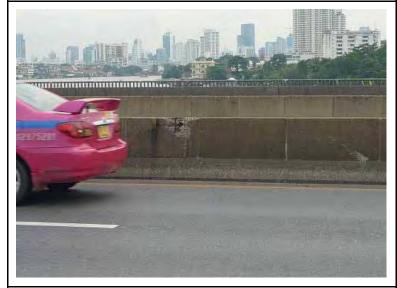
Present state (3/4)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Phra Pokklao Bri	dge			



Picture No.	7
Span	1
Member	Side barrier

Exfoliation of concrete



Picture No.	8
Span	1
Member	Center barrier

Fracture of concrete surface



Picture No.	9
Span	1
Member	

Free lime

Deterioration of drain function

*Survey on board, 31-oct

Present state (4/4)

Authority	DRR	Address	Bangkok	Data	23-0ct-09
Bridge	Phra Pokklao Bri	idge			



Picture No.	10
Span	1
Member	Drainage

Scratch by ship collision



Picture No.	11
Span	1
Member	Substructure

Picture No.	12
Span	1
Member	Pylon

Inspection sheet of visual survey

Bridge No. Photo No. Code of authorit DRR Route name Taksin Bridge Bridge name Authorit from Khet Khlong San 0 from Place Survey date 2009/10/27 Distanc to Khet Sathoo km+ 0 Bridge type(1) main road side road ramp Camber deform yes • no ltem Type State free lime, Suspicious of crack Bridge type (2) bridge viaduct plank pass Difference in glade ves Main girde PC-Box 3-span continuous PC box girder ontinuous of barrie yes Bridge type (3) Cross beam Total length 224.00 (m) Continuous of curve yes Stringer 66 + 92 + 66 (m) Span Noise Cross frame Nos. of span 3 span Space change lateral brac difference grade yes free lime, leakage Width 12.85 x 2 (m) / Slab Completion 1982 draining damage Abutment no Blocked drainage V shape yes ᇦ Pier Outline Straight • incli($\theta =$ Crack of pavement no Bearing Slide bearing Deterioration of proofing Horizontal Curve (R m) (凸 凹) Gradient Damage of lighting yes . Barrier Trapezoidal Lack of cover at expansion joint, Exfoliation no Nearby tunnel Damage of sign Railing Steel Generally healthy no m) Nearby crossing no Damage of handrail yes • no Curb m) asphalt - concrete Unevenness Traffic Possibility of scour ves Much Little Pavement Commercial traffi Much Little Walkway yes • no drained undrained leakage at end Blocked Vehicle yes • no yes · no 1. Urban 2. Suburbs 3. Mountain 4. Seaside 6. Harbor 7. Residential 8. Bussiness 5. Industria 9. Salty 10. Cold and snow 11. Heavy snow 12. Others on · Suspicious of shear crack is found in Thonburi side span. It is recommended watching 1. Shinkanser 2. Railway 3. Highway 4. Road continuously 5. River ·Movement to center span was seen at Bangkok side bearing. It is recommended watching 6. Lake 7. Ravine 8. Valley 9. Waterway 10. Parking 11. Bike parkin 12. Park continuously. 13. Vacant 14. Harbor Name (Chao Phrava ·Cover of barrier and railing was disappear on expansion joint. .Inspection car2.Falsework 3.On ground 4.Ladder 5.Lift car Superstructure 6. On boat 7. Special camera 8. Others (leight of girde about 12m . Inspection car 2. Falsework 3. On ground 4. Ladder 5. Lift car ◆ Deterioration of bridge Substructure deficient · fair 6. On boat 7. Special camera 8. Others (All bridge section is on the water Noticeable point listory of repair If inspection car is not available, false work Crack or cold joint on web Reason Repaint: - yy - mm will be required · Longitudinal move of girder Surveyor: Mr, Chujo, Mr. Kudo

Present state (1/8)

Authority	DRR	Address	Bangkok	Data	27-0ct-09
Bridge	Taksin bridge				



1
Side view



Picture No.	2
Span	1
Member	View on road



Picture No.	3
Span	1
Member	View under girder

Present state (2/8)

Authority	DRR	Address	Bangkok	Data	27-0ct-09
Bridge	Taksin bridge				



Picture No.	4
Span	1
Member	Expansion Joint

Replaced expansion joint



Picture No.	5
Span	1
Member	Expansion joint

Spacing is wider than 3cm than other joint

Bangkok side, down stream

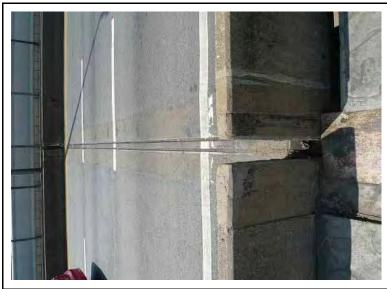


Picture No.	6
Span	1
Member	Expansion joint

Lack of cover of barrier and curv

Present state (3/8)

Authority	DRR	Address	Bangkok	Data	27-0ct-09
Bridge	Taksin bridge				



Span 1	cture No.	re No. 7	
	Span	an 1	
Member Water supply	Member	ber Water supply	

modular type is applied for the bridge of upstream

Lack of cover of barrier



Picture No.	8
Span	1
Member	Bearing

Movement of bearing.

Bangkok side

Already reach to end of sliding plate



Picture No.	9
Span	1
Member	Bearing

Movement of Thon Buri side is sma

Present state (4/8)

Authority	DRR	Address	Bangkok	Data	27-0ct-09
Bridge	Taksin bridge				



Picture No.	10
Span	1
Member	Expansion joint

Deterioration of drain fanction

Mark of leakage



Picture No.	11
Span	1
Member	Vertical alignment

Bent angle between main bridge and approach bridge



Picture No.	12
Span	1
Member	Slab

Free lime

Present state (5/8)

		1		ī	I
Authority	DRR	Address	Bangkok	Data	27-0ct-09
Bridge	Taksin bridge				



Picture No.	7
Span	1
Member	Box girder

Shear crack or severe cold joint Detailed study is recommended

Free lime from filled hole Without waterproofing?



Picture No.	8
Span	1
Member	Catch basin

Free lime from filled hole Without waterproofing?



Picture No.	9
Span	1
Member	Barrior

Exposure of rebar

Present state (6/8)

Authority	DRR	Address	Bangkok	Data	27-0ct-09
Bridge	Taksin bridge				



Picture No.	10
Span	1
Member	Slab

Mark of repair



Picture No.	11
Span	1
Member	Bearing

Leakage from joint

Upstream, Thon Buri side



Picture No.	12
Span	1
Member	Lighting pole

Free lime (lower)
Crack (upper)

crack (apper)

Upstream, Bangkok side

Present state (7/8)

Authority	DRR	Address	Bangkok	Data	27-0ct-09
Bridge	Taksin bridge				



Picture No.	7
Span	1
Member	Catch basin

Blocking



Picture No.	8
Span	1
Member	Pavement

Uneavenness of pavement

Upstream, Bangkok side



Picture No.	9
Span	1
Member	Walkway

Feeling uneasy due to wide gap

Present state (8/8)

Authority	DRR	Address	Bangkok	Data	27-0ct-09
Bridge	Taksin bridge				



Picture No.	10
Span	1
Member	Girder

Free lime from construction joint



Picture No.	11
Span	1
Member	Girder

Acumuration of soil



Picture No.	12
Span	1
Member	Pier

Test of carbonation is recommende