

1.5.10 Krung Thep

Damage classification of members

| Bridge name | | 010Krung Thep | | | | Span No. | | | | | | | | | | | 1 | |
|-------------------------|-----|--------------------------|----------|---------------|----------|------------------------------------|-----|----------------|----------|---------------|-----------------------------------|----------------------------------|-------------------------------|--------------------------|----------------------|-----------------------------|---------|------------------|
| | | Damages of steel members | | | | Damages of concrete members | | | | | | Others | | | | | Remarks | |
| | | Corrosion | Cracking | Missing bolts | Fracture | Cracking, Water leakage, Free lime | No. | Rebar exposure | Pop-outs | Deck cracking | Damages at anchorage of PC tender | Level difference of road surface | Functional damage of bearings | Damages in substructures | Damages in pavements | Damages in expansion joints | | Damages in cable |
| Upper chord member | 01 | a | a | a | a | | | | | | | | | | | | | |
| | 02 | a | a | a | a | | | | | | | | | | | | | |
| Bottom chord member | 01 | a | a | a | a | | | | | | | | | | | | | |
| | 02 | a | a | a | a | | | | | | | | | | | | | |
| Diagonal | 01 | a | a | a | a | | | | | | | | | | | | | |
| | 02 | b | a | a | a | | | | | | | | | | | | | |
| Vertical member | 01 | b | a | a | a | | | | | | | | | | | | | |
| | 02 | a | a | a | a | | | | | | | | | | | | | |
| Lateral bracing (Upper) | 01 | b | a | a | a | | | | | | | | | | | | | |
| Lateral bracing (Lower) | 01 | a | a | a | a | | | | | | | | | | | | | |
| Sway bracing (Upper) | 01 | b | a | a | a | | | | | | | | | | | | | |
| Stringer | 01 | a | a | a | a | | | | | | | | | | | | | |
| | 02 | a | a | a | a | | | | | | | | | | | | | |
| | 03 | a | a | a | a | | | | | | | | | | | | | |
| | 04 | a | a | a | a | | | | | | | | | | | | | |
| | 05 | a | a | a | a | | | | | | | | | | | | | |
| | 06 | a | a | a | a | | | | | | | | | | | | | |
| | 07 | a | a | a | a | | | | | | | | | | | | | |
| | 08 | a | a | a | a | | | | | | | | | | | | | |
| | 09 | a | a | a | a | | | | | | | | | | | | | |
| | 10 | a | a | a | a | | | | | | | | | | | | | |
| Floor beam | 01 | a | a | a | a | | | | | | | | | | | | | |
| | 02 | a | a | a | a | | | | | | | | | | | | | |
| | 03 | a | a | a | a | | | | | | | | | | | | | |
| Sway bracing (Lower) | 01 | a | a | a | a | | | | | | | | | | | | | |
| Sway bracing (Lower) | 01 | | | | | | | a | a | a | a | | | | | | | |
| | 02 | | | | | | | a | a | a | a | | | | | | | |
| | 03 | | | | | | | a | a | a | a | | | | | | | |
| | 04 | | | | | | | a | a | a | a | | | | | | | |
| | 05 | | | | | | | a | a | a | a | | | | | | | |
| | 06 | | | | | | | a | a | a | a | | | | | | | |
| | 07 | | | | | | | a | a | a | a | | | | | | | |
| | 08 | | | | | | | a | a | a | a | | | | | | | |
| | 09 | | | | | | | a | a | a | a | | | | | | | |
| | 10 | | | | | | | a | a | a | a | | | | | | | |
| | 11 | | | | | | | a | a | a | a | | | | | | | |
| | 12 | | | | | | | a | a | a | a | | | | | | | |
| | 13 | | | | | | | a | a | a | a | | | | | | | |
| Pier | 01 | | | | | a | - | a | | | | | | a | | | | |
| | 02 | | | | | a | - | a | | | | | | a | | | | |
| Bearings | 101 | | | | | | | | | | | | a | | | | | |
| | 102 | | | | | | | | | | | | a | | | | | |
| | 201 | | | | | | | | | | | | a | | | | | |
| | 202 | | | | | | | | | | | | a | | | | | |
| Road surface | | | | | | | | | | | a | | | e | | | | |
| Barriers Railings | 01 | | | | | | | | | | | | | | | c | | |
| | 02 | | | | | | | | | | | | | | | c | | |
| Expansion joints | 01 | | | | | | | | | | | | | | | | a | |
| | 02 | | | | | | | | | | | | | | | | a | |

Estimation of repair quantity

| Bridge name | | 010Krung Thep | | | Span No. | | 1 | | |
|-------------|---|------------------------|-------------------------|---------------------|--|---|----------------------|---------------------------------|------------------|
| Subject | | Quantity | | | Remarks | | | | |
| 1 | Span length | 64.000 m | | | Length of 1 span | | | | |
| 2 | Road width for pavement | 12.00 m | | | Width for pavement area (Vehicle lane) | | | | |
| 3 | Total road width | 17.48 m | | | Deck width | | | | |
| 4 | Area of bridge surface | 1,118.7 m ² | | | Span length x Total width | | | | |
| 5 | Area of pavement | 768.0 m ² | | | Span length x Width for pavement | | | | |
| 6 | Barriers & railings | 01 | concrete | | Type of barriers & railings | | | | |
| | | 02 | concrete | | Same as above | | | | |
| | | 03 | - | | Same as above | | | | |
| | | 04 | - | | Same as above | | | | |
| 7 | Expansion joints | 01 | steel | | Type of expansion joint | | | | |
| | | 02 | steel | | Same as above | | | | |
| 8 | Painting area | | Total % | Number of members | Member % | Painting area | Remarks | | |
| | Total painting area | | 100.0% | 1 | - | 5,000.0 m ² | | | |
| | Main structure | 52.0% | Upper chord | 65.0% | 33.8% | 2 | 16.9% | 850.0 m ² | Experience value |
| | | | Bottom chord | 35.0% | 18.2% | 2 | 9.1% | 460.0 m ² | Experience value |
| | Sway bracing Lateral bracing Portal frame | 18.0% | Diagonal | 20.0% | 3.6% | 2 | 1.8% | 90.0 m ² | Experience value |
| | | | Vertical member | 15.0% | 2.7% | 2 | 1.4% | 70.0 m ² | Experience value |
| | | | Lateral bracing (Upper) | 20.0% | 3.6% | 1 | 3.6% | 180.0 m ² | Experience value |
| | | | Lateral bracing (Lower) | 15.0% | 2.7% | 1 | 2.7% | 140.0 m ² | Experience value |
| | | | Sway bracing (Upper) | 15.0% | 2.7% | 1 | 2.7% | 140.0 m ² | Experience value |
| | | | Sway bracing (Lower) | 15.0% | 2.7% | 1 | 2.7% | 140.0 m ² | Experience value |
| | Floor system | 32.0% | Stringer | 60.0% | 19.2% | 10 | 1.9% | 100.0 m ² | Experience value |
| Floor beam | | | 40.0% | 12.8% | 15% | 1.9% | 100.0 m ² | End floor beam(15% pos.) | |
| | | | | | 70% | 9.0% | 450.0 m ² | Interm. floor beam(70% for all) | |
| 9 | Repaired area of deck | | Quantity | | Remarks | | | | |
| | Divided area | | A | 86.1 m ² | 13 div. | Area of bridge surface / number of division | | | |
| | Area of rebar exposure | | | 10.3 m ² | A x | 0.120 | | | |
| | Area of deck cracking | | | 53.4 m ³ | A x | 0.620 | | | |
| 10 | Repair quantity of substructure | | Quantity | | Remarks | | | | |
| | Cracking, Water leakage, Free lime | | 5.54 m | | per substructure | | | | |
| | Rebar exposure | | 2.24 m ² | | per substructure | | | | |
| 11 | Concrete barrier | | Quantity | | Remarks | | | | |
| | Rebar exposure | | 4.47 m ² | | A of bridge surf. x | 0.004 | | | |

Countermeasure classification of members

| Bridge name | | 010Krung Thep | | | | Span No. | | 1 | | | | |
|-------------------------|--------------|---------------|-----------------------|-------|-------------------------------|----------|---------------|---------------|-----------------------|-------|-------------------------------|---|
| Member | No. | Damage | Damage classification | | Countermeasure classification | Member | No. | Damage | Damage classification | | Countermeasure classification | |
| | | | Classification | Judge | | | | | Classification | Judge | | |
| Upper chord | 01 | Corrosion | a | - | 5 | Stringer | 01 | Corrosion | a | - | 5 | |
| | | Cracking | a | - | 5 | | | Cracking | a | - | 5 | |
| | | Missing bolts | a | - | 5 | | | Missing bolts | a | - | 5 | |
| | | Fracture | a | - | 5 | | | Fracture | a | - | 5 | |
| | 02 | Corrosion | a | - | 5 | | 02 | Corrosion | a | - | 5 | |
| | | Cracking | a | - | 5 | | | Cracking | a | - | 5 | |
| | | Missing bolts | a | - | 5 | | | Missing bolts | a | - | 5 | |
| | | Fracture | a | - | 5 | | | Fracture | a | - | 5 | |
| | Bottom chord | 01 | Corrosion | a | - | | 5 | 03 | Corrosion | a | - | 5 |
| | | | Cracking | a | - | | 5 | | Cracking | a | - | 5 |
| | | | Missing bolts | a | - | | 5 | | Missing bolts | a | - | 5 |
| | | | Fracture | a | - | | 5 | | Fracture | a | - | 5 |
| 02 | | Corrosion | a | - | 5 | | 04 | Corrosion | a | - | 5 | |
| | | Cracking | a | - | 5 | | | Cracking | a | - | 5 | |
| | | Missing bolts | a | - | 5 | | | Missing bolts | a | - | 5 | |
| | | Fracture | a | - | 5 | | | Fracture | a | - | 5 | |
| Diagonal | 01 | Corrosion | a | - | 5 | | 05 | Corrosion | a | - | 5 | |
| | | Cracking | a | - | 5 | | | Cracking | a | - | 5 | |
| | | Missing bolts | a | - | 5 | | | Missing bolts | a | - | 5 | |
| | | Fracture | a | - | 5 | | | Fracture | a | - | 5 | |
| | 02 | Corrosion | b | - | 4 | 06 | Corrosion | a | - | 5 | | |
| | | Cracking | a | - | 5 | | Cracking | a | - | 5 | | |
| | | Missing bolts | a | - | 5 | | Missing bolts | a | - | 5 | | |
| | | Fracture | a | - | 5 | | Fracture | a | - | 5 | | |
| Vertical member | 01 | Corrosion | b | - | 4 | 07 | Corrosion | a | - | 5 | | |
| | | Cracking | a | - | 5 | | Cracking | a | - | 5 | | |
| | | Missing bolts | a | - | 5 | | Missing bolts | a | - | 5 | | |
| | | Fracture | a | - | 5 | | Fracture | a | - | 5 | | |
| | 02 | Corrosion | a | - | 5 | 08 | Corrosion | a | - | 5 | | |
| | | Cracking | a | - | 5 | | Cracking | a | - | 5 | | |
| | | Missing bolts | a | - | 5 | | Missing bolts | a | - | 5 | | |
| | | Fracture | a | - | 5 | | Fracture | a | - | 5 | | |
| Lateral bracing (Upper) | 01 | Corrosion | b | - | 4 | 09 | Corrosion | a | - | 5 | | |
| | | Cracking | a | - | 5 | | Cracking | a | - | 5 | | |
| | | Missing bolts | a | - | 5 | | Missing bolts | a | - | 5 | | |
| | | Fracture | a | - | 5 | | Fracture | a | - | 5 | | |
| Lateral bracing (Lower) | 01 | Corrosion | a | - | 5 | 10 | Corrosion | a | - | 5 | | |
| | | Cracking | a | - | 5 | | Cracking | a | - | 5 | | |
| | | Missing bolts | a | - | 5 | | Missing bolts | a | - | 5 | | |
| | | Fracture | a | - | 5 | | Fracture | a | - | 5 | | |
| Sway bracing (Upper) | 01 | Corrosion | b | - | 4 | | | | | | | |
| | | Cracking | a | - | 5 | | | | | | | |
| | | Missing bolts | a | - | 5 | | | | | | | |
| | | Fracture | a | - | 5 | | | | | | | |

| Bridge name | | 010Krung Thep | | | | Span No. | | | | 1 | |
|----------------------|-----|-----------------------------------|-----------------------|-------|-------------------------------|-------------------|-----------------------------------|-----------------------------------|-----------------------|-------|-------------------------------|
| Member | No. | Damage | Damage classification | | Countermeasure classification | Member | No. | Damage | Damage classification | | Countermeasure classification |
| | | | Classification | Judge | | | | | Classification | Judge | |
| Floor beam | 01 | Corrosion | a | - | 5 | Deck | 08 | Rebar exposure | a | - | 5 |
| | | Cracking | a | - | 5 | | | Pop-outs | a | - | 5 |
| | | Missing bolts | a | - | 5 | | | Deck cracking | a | - | 5 |
| | | Fracture | a | - | 5 | | | Damages at anchorage of PC tendon | a | - | 5 |
| | 02 | Corrosion | a | - | 5 | | 09 | Rebar exposure | a | - | 5 |
| | | Cracking | a | - | 5 | | | Pop-outs | a | - | 5 |
| | | Missing bolts | a | - | 5 | | | Deck cracking | a | - | 5 |
| | | Fracture | a | - | 5 | | | Damages at anchorage of PC tendon | a | - | 5 |
| | 03 | Corrosion | a | - | 5 | | 10 | Rebar exposure | a | - | 5 |
| | | Cracking | a | - | 5 | | | Pop-outs | a | - | 5 |
| | | Missing bolts | a | - | 5 | | | Deck cracking | a | - | 5 |
| | | Fracture | a | - | 5 | | | Damages at anchorage of PC tendon | a | - | 5 |
| Sway bracing (Lower) | 01 | Corrosion | a | - | 5 | 11 | Rebar exposure | a | - | 5 | |
| | | Cracking | a | - | 5 | | Pop-outs | a | - | 5 | |
| | | Missing bolts | a | - | 5 | | Deck cracking | a | - | 5 | |
| | | Fracture | a | - | 5 | | Damages at anchorage of PC tendon | a | - | 5 | |
| Deck | 01 | Rebar exposure | a | - | 5 | 12 | Rebar exposure | a | - | 5 | |
| | | Pop-outs | a | - | 5 | | Pop-outs | a | - | 5 | |
| | | Deck cracking | a | - | 5 | | Deck cracking | a | - | 5 | |
| | | Damages at anchorage of PC tendon | a | - | 5 | | Damages at anchorage of PC tendon | a | - | 5 | |
| | 02 | Rebar exposure | a | - | 5 | 13 | Rebar exposure | a | - | 5 | |
| | | Pop-outs | a | - | 5 | | Pop-outs | a | - | 5 | |
| | | Deck cracking | a | - | 5 | | Deck cracking | a | - | 5 | |
| | | Damages at anchorage of PC tendon | a | - | 5 | | Damages at anchorage of PC tendon | a | - | 5 | |
| | 03 | Rebar exposure | a | - | 5 | Substructure | 01 | Cracking etc. | a | - | 5 |
| | | Pop-outs | a | - | 5 | | Rebar exposure | a | - | 5 | |
| | | Deck cracking | a | - | 5 | | Damages in substructures | a | - | 5 | |
| | | Damages at anchorage of PC tendon | a | - | 5 | | Cracking etc. | a | - | 5 | |
| | 04 | Rebar exposure | a | - | 5 | 02 | Rebar exposure | a | - | 5 | |
| | | Pop-outs | a | - | 5 | | Damages in substructures | a | - | 5 | |
| | | Deck cracking | a | - | 5 | | | | | | |
| | | Damages at anchorage of PC tendon | a | - | 5 | | | | | | |
| | 05 | Rebar exposure | a | - | 5 | Bearings | 101 | Functional damage of bearings | a | - | 5 |
| | | Pop-outs | a | - | 5 | | 102 | Functional damage of bearings | a | - | 5 |
| | | Deck cracking | a | - | 5 | | 201 | Functional damage of bearings | a | - | 5 |
| | | Damages at anchorage of PC tendon | a | - | 5 | | 202 | Functional damage of bearings | a | - | 5 |
| | 06 | Rebar exposure | a | - | 5 | Road surface | 01 | Level difference of road surface | a | - | 5 |
| | | Pop-outs | a | - | 5 | | Damages in pavements | e | - | 2 | |
| | | Deck cracking | a | - | 5 | | | | | | |
| | | Damages at anchorage of PC tendon | a | - | 5 | | | | | | |
| | 07 | Rebar exposure | a | - | 5 | Barriers Railings | 01 | Damages in barriers | c | - | 2 |
| | | Pop-outs | a | - | 5 | | 02 | Damages in barriers | c | - | 2 |
| | | Deck cracking | a | - | 5 | | 03 | Damages in barriers | - | - | - |
| | | Damages at anchorage of PC tendon | a | - | 5 | | 04 | Damages in barriers | - | - | - |
| Expansion joints | 02 | Damages in expansion joints | a | - | 5 | 02 | Damages in expansion joints | a | - | 5 | |
| | | Damages in expansion joints | a | - | 5 | | Damages in expansion joints | a | - | 5 | |

Approximate repair price for countermeasures

| Bridge name | | 010Krung Thep | | | | | Span No. | | 1 | | countermeasure classification | | | | | | | |
|-------------------------|-----------------|---------------|-----------------------|-------------------------------|----------------------------|----------------------------|----------------|----------------------------|------------------------------|--|-------------------------------|--|------------------|--|---------------------------------|------------|----|---|
| Member | No. | Damage | Damage classification | Countermeasure classification | Repair method | Repair quantity | Unit | Approximate unit price (฿) | Approximate repair price (฿) | Approximate repair price for countermeasure classification 1 & 2 (฿) | Repair price (฿) | Remain g years up to countermeasure cl 2 | Repair price (฿) | Remain g years up to countermeasure cl 2 | Planned repair & reconstruction | | | |
| | | | | | | | | | | | | | | | Repair price (฿) | Life cycle | | |
| Upper chord | 01 | Corrosion | a | 5 | Repainting | 850.0 | m ² | 3,500 | 2,975,000 | - | - | 5 | - | 10 | 2,975,000 | 20 | | |
| | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - | |
| | | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | - | |
| | 02 | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - | |
| | | Corrosion | a | 5 | Repainting | 850.0 | m ² | 3,500 | 2,975,000 | - | - | 5 | - | 10 | 2,975,000 | 20 | | |
| | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - | |
| | Bottom chord | 01 | Corrosion | a | 5 | Repainting | 460.0 | m ² | 3,500 | 1,610,000 | - | - | 5 | - | 10 | 1,610,000 | 20 | |
| | | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - |
| | | | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | - |
| 02 | | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - | |
| | | Corrosion | a | 5 | Repainting | 460.0 | m ² | 3,500 | 1,610,000 | - | - | 5 | - | 10 | 1,610,000 | 20 | | |
| | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - | |
| Diagonal | | 01 | Corrosion | a | 5 | Repainting | 90.0 | m ² | 3,500 | 315,000 | - | - | 5 | - | 10 | 315,000 | 20 | |
| | | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - |
| | | | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | - |
| | 02 | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - | |
| | | Corrosion | b | 4 | Repainting | 90.0 | m ² | 3,500 | 315,000 | - | - | 5 | 315,000 | 10 | 315,000 | 20 | | |
| | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - | |
| | Vertical member | 01 | Corrosion | b | 4 | Repainting | 70.0 | m ² | 3,500 | 245,000 | - | - | 5 | 245,000 | 10 | 245,000 | 20 | |
| | | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - |
| | | | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | - |
| 02 | | Fracture | a | 5 | Reinf. for fracture | 1.0 | Pos. | 166,700 | 166,700 | - | - | - | - | - | - | - | - | |
| | | Corrosion | a | 5 | Repainting | 70.0 | m ² | 3,500 | 245,000 | - | - | 5 | - | 10 | 245,000 | 20 | | |
| | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - | |
| Lateral bracing (Upper) | | 01 | Corrosion | b | 4 | Repainting | 180.0 | m ² | 3,500 | 630,000 | - | - | 5 | 630,000 | 10 | 630,000 | 20 | |
| | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - | |
| | | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | - | |
| Lateral bracing (Lower) | 01 | Corrosion | a | 5 | Repainting | 180.0 | m ² | 3,500 | 630,000 | - | - | 5 | - | 10 | 630,000 | 20 | | |
| | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - | | |
| | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | - | | |
| Sway bracing (Upper) | 01 | Corrosion | b | 4 | Repainting | 140.0 | m ² | 3,500 | 490,000 | - | - | 5 | 490,000 | 10 | 490,000 | 20 | | |
| | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - | | |
| | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | - | | |
| Stringer | 01 | Corrosion | a | 5 | Repainting | 100.0 | m ² | 3,500 | 350,000 | - | - | 5 | - | 10 | 350,000 | 20 | | |
| | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | | |
| | | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | | |
| | 02 | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - | |
| | | Corrosion | a | 5 | Repainting | 100.0 | m ² | 3,500 | 350,000 | - | - | 5 | - | 10 | 350,000 | 20 | | |
| | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - | |
| | 03 | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | - | |
| | | Fracture | a | 5 | Reinf. for fracture | 100.0 | m ² | 3,500 | 350,000 | - | - | 5 | - | 10 | 350,000 | 20 | | |
| | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | | |
| | 04 | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | - | |
| | | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - | |
| | | Corrosion | a | 5 | Repainting | 100.0 | m ² | 3,500 | 350,000 | - | - | 5 | - | 10 | 350,000 | 20 | | |
| | 05 | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - | |
| | | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | - | |
| | | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - | |
| | | Corrosion | a | 5 | Repainting | 100.0 | m ² | 3,500 | 350,000 | - | - | 5 | - | 10 | 350,000 | 20 | | |
| | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - | |
| | | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | - | |
| Fracture | | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - | | |
| Corrosion | | a | 5 | Repainting | 100.0 | m ² | 3,500 | 350,000 | - | - | 5 | - | 10 | 350,000 | 20 | | | |
| Cracking | | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - | | |
| Missing bolts | | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | - | | |
| Fracture | | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - | | |
| Floor beam | | 01 | Corrosion | a | 5 | Repainting | 100.0 | m ² | 3,500 | 350,000 | - | - | 5 | - | 10 | 350,000 | 20 | |
| | Cracking | | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | | |
| | Missing bolts | | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | | |
| | 02 | Fracture | a | 5 | Reinf. for fracture | 450.0 | m ² | 3,500 | 1,575,000 | - | - | 5 | - | 10 | 1,575,000 | 20 | | |
| | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - | |
| | | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | - | |
| Sway bracing (Lower) | 01 | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | | |
| | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | - | | |
| | Fracture | a | 5 | Reinf. for fracture | 140.0 | m ² | 3,500 | 490,000 | - | - | 5 | - | 10 | 490,000 | 20 | | | |

| Member | No. | Damage | Damage classification | Countermeasure classification | Repair method | Repair quantity | Unit | Approximate unit price (B) | Approximate repair price (B) | Approximate repair price for countermeasure classification 1 & 2 (B) | countermeasure classification 1 | | countermeasure classification 2 | | Planned repair & reconstruction | | |
|------------------|--------------|-----------------------------------|-----------------------------------|-------------------------------|----------------------|----------------------|----------------|----------------------------|------------------------------|--|---------------------------------|---|---------------------------------|---|---------------------------------|------------|----|
| | | | | | | | | | | | Repair price (B) | Remainin g years up to counter measure el 2 | Repair price (B) | Remainin g years up to counter measure el 2 | Repair price (B) | Life cycle | |
| Deck | 01 | Rebar exposure | a | 5 | Patching | 10.3 | m ² | 17,500 | 180,300 | - | - | 7 | - | 15 | - | 30 | |
| | | Pop-outs | a | 5 | Patching & CFR | - | Pos. | 10,000 | - | - | - | - | - | - | - | - | - |
| | | Deck cracking | a | 5 | CFR | 53.4 | m ² | 22,500 | 1,201,500 | - | - | 7 | - | 15 | 1,201,500 | 30 | |
| | 02 | Damages at anchorage of PC tendon | a | 5 | CFR (upper & bottom) | - | Pos. | 45,000 | - | - | - | - | - | - | - | - | - |
| | | Rebar exposure | a | 5 | Patching | 10.3 | m ² | 17,500 | 180,300 | - | - | 7 | - | 15 | - | 30 | |
| | | Pop-outs | a | 5 | Patching & CFR | - | Pos. | 10,000 | - | - | - | - | - | - | - | - | - |
| | 03 | Deck cracking | a | 5 | CFR | 53.4 | m ² | 22,500 | 1,201,500 | - | - | 7 | - | 15 | 1,201,500 | 30 | |
| | | Damages at anchorage of PC tendon | a | 5 | CFR (upper & bottom) | - | Pos. | 45,000 | - | - | - | - | - | - | - | - | - |
| | | Rebar exposure | a | 5 | Patching | 10.3 | m ² | 17,500 | 180,300 | - | - | 7 | - | 15 | - | 30 | |
| | 04 | Pop-outs | a | 5 | Patching & CFR | - | Pos. | 10,000 | - | - | - | - | - | - | - | - | - |
| | | Deck cracking | a | 5 | CFR | 53.4 | m ² | 22,500 | 1,201,500 | - | - | 7 | - | 15 | 1,201,500 | 30 | |
| | | Damages at anchorage of PC tendon | a | 5 | CFR (upper & bottom) | - | Pos. | 45,000 | - | - | - | - | - | - | - | - | - |
| | 05 | Rebar exposure | a | 5 | Patching | 10.3 | m ² | 17,500 | 180,300 | - | - | 7 | - | 15 | - | 30 | |
| | | Pop-outs | a | 5 | Patching & CFR | - | Pos. | 10,000 | - | - | - | - | - | - | - | - | - |
| | | Deck cracking | a | 5 | CFR | 53.4 | m ² | 22,500 | 1,201,500 | - | - | 7 | - | 15 | 1,201,500 | 30 | |
| | 06 | Damages at anchorage of PC tendon | a | 5 | CFR (upper & bottom) | - | Pos. | 45,000 | - | - | - | - | - | - | - | - | - |
| | | Rebar exposure | a | 5 | Patching | 10.3 | m ² | 17,500 | 180,300 | - | - | 7 | - | 15 | - | 30 | |
| | | Pop-outs | a | 5 | Patching & CFR | - | Pos. | 10,000 | - | - | - | - | - | - | - | - | - |
| | 07 | Deck cracking | a | 5 | CFR | 53.4 | m ² | 22,500 | 1,201,500 | - | - | 7 | - | 15 | 1,201,500 | 30 | |
| | | Damages at anchorage of PC tendon | a | 5 | CFR (upper & bottom) | - | Pos. | 45,000 | - | - | - | - | - | - | - | - | - |
| | | Rebar exposure | a | 5 | Patching | 10.3 | m ² | 17,500 | 180,300 | - | - | 7 | - | 15 | - | 30 | |
| | 08 | Pop-outs | a | 5 | Patching & CFR | - | Pos. | 10,000 | - | - | - | - | - | - | - | - | - |
| | | Deck cracking | a | 5 | CFR | 53.4 | m ² | 22,500 | 1,201,500 | - | - | 7 | - | 15 | 1,201,500 | 30 | |
| | | Damages at anchorage of PC tendon | a | 5 | CFR (upper & bottom) | - | Pos. | 45,000 | - | - | - | - | - | - | - | - | - |
| | 09 | Rebar exposure | a | 5 | Patching | 10.3 | m ² | 17,500 | 180,300 | - | - | 7 | - | 15 | - | 30 | |
| | | Pop-outs | a | 5 | Patching & CFR | - | Pos. | 10,000 | - | - | - | - | - | - | - | - | - |
| | | Deck cracking | a | 5 | CFR | 53.4 | m ² | 22,500 | 1,201,500 | - | - | 7 | - | 15 | 1,201,500 | 30 | |
| | 10 | Damages at anchorage of PC tendon | a | 5 | CFR (upper & bottom) | - | Pos. | 45,000 | - | - | - | - | - | - | - | - | - |
| | | Rebar exposure | a | 5 | Patching | 10.3 | m ² | 17,500 | 180,300 | - | - | 7 | - | 15 | - | 30 | |
| | | Pop-outs | a | 5 | Patching & CFR | - | Pos. | 10,000 | - | - | - | - | - | - | - | - | - |
| | 11 | Deck cracking | a | 5 | CFR | 53.4 | m ² | 22,500 | 1,201,500 | - | - | 7 | - | 15 | 1,201,500 | 30 | |
| | | Damages at anchorage of PC tendon | a | 5 | CFR (upper & bottom) | - | Pos. | 45,000 | - | - | - | - | - | - | - | - | - |
| | | Rebar exposure | a | 5 | Patching | 10.3 | m | 17,500 | 180,300 | - | - | 7 | - | 15 | - | 30 | |
| | 12 | Pop-outs | a | 5 | Patching & CFR | - | m | 10,000 | - | - | - | - | - | - | - | - | - |
| | | Deck cracking | a | 5 | CFR | 53.4 | m | 22,500 | 1,201,500 | - | - | 7 | - | 15 | 1,201,500 | 30 | |
| | | Damages at anchorage of PC tendon | a | 5 | CFR (upper & bottom) | - | m | 45,000 | - | - | - | - | - | - | - | - | - |
| | 13 | Rebar exposure | a | 5 | Patching | 10.3 | m | 17,500 | 180,300 | - | - | 7 | - | 15 | - | 30 | |
| | | Pop-outs | a | 5 | Patching & CFR | - | m | 10,000 | - | - | - | - | - | - | - | - | - |
| | | Deck cracking | a | 5 | CFR | 53.4 | m | 22,500 | 1,201,500 | - | - | 7 | - | 15 | 1,201,500 | 30 | |
| | Substructure | 01 | Damages at anchorage of PC tendon | a | 5 | CFR (upper & bottom) | - | m | 45,000 | - | - | - | - | - | - | - | - |
| | | | Cracking etc. | a | 5 | Resin injection | 5.54 | m | 5,000 | 27,700 | - | - | 7 | - | 15 | - | 30 |
| | | | Rebar exposure | a | 5 | Patching | 2.24 | m | 17,500 | 39,200 | - | - | 7 | - | 15 | 39,200 | 30 |
| | 02 | Damages in substructures | a | 5 | Foot protection | - | m | 1,750,000 | - | - | - | - | - | - | - | - | - |
| | | Cracking etc. | a | 5 | Resin injection | 5.54 | m | 5,000 | 27,700 | - | - | 7 | - | 15 | - | 30 | |
| | | Rebar exposure | a | 5 | Patching | 2.24 | m | 17,500 | 39,200 | - | - | 7 | - | 15 | 39,200 | 30 | |
| | Bearings | 101 | Functional damage of bearing | a | 5 | Metal spraying | 1.0 | Pos. | 120,000 | 120,000 | - | - | 7 | - | 15 | 120,000 | 30 |
| | | | Functional damage of bearing | a | 5 | Metal spraying | 1.0 | Pos. | 120,000 | 120,000 | - | - | 7 | - | 15 | 120,000 | 30 |
| | | | Functional damage of bearing | a | 5 | Metal spraying | 1.0 | Pos. | 120,000 | 120,000 | - | - | 7 | - | 15 | 120,000 | 30 |
| Road surface | 01 | Level difference of road surface | a | 5 | Pavement replacement | 768.0 | m ² | 5,000 | 3,840,000 | - | - | 5 | - | 10 | - | 20 | |
| | | Damages in pavement | c | 2 | same as above | 768.0 | m ² | 5,000 | 3,840,000 | 3,840,000 | - | 5 | - | 10 | 3,840,000 | 20 | |
| | | Damages in substructure | c | 2 | Patching | 4.47 | m ² | 17,500 | 78,300 | 78,300 | - | 7 | - | 15 | 78,300 | 30 | |
| Barriers | 02 | Damages in barriers | c | 2 | Patching | 4.47 | m ² | 17,500 | 78,300 | 78,300 | - | 7 | - | 15 | 78,300 | 30 | |
| | | Damages in barriers | c | 2 | Patching | 4.47 | m ² | 17,500 | 78,300 | 78,300 | - | 7 | - | 15 | 78,300 | 30 | |
| | | - | - | - | - | - | - | - | - | - | 7 | - | 15 | 78,300 | 30 | | |
| Expansion joints | 01 | Damages in expansion joints | a | 5 | change of steel exp. | 17.5 | m | 133,400 | 2,331,900 | - | - | 7 | - | 15 | 2,331,900 | 30 | |
| | | Damages in expansion joints | a | 5 | change of steel exp. | 17.5 | m | 133,400 | 2,331,900 | - | - | 7 | - | 15 | 2,331,900 | 30 | |
| | | Damages in expansion joints | a | 5 | change of steel exp. | 17.5 | m | 133,400 | 2,331,900 | - | - | 7 | - | 15 | 2,331,900 | 30 | |

Damage classification of members

| Bridge name | | 010Krung Thep | | | | | | | | | | Span No. | | | | | 2 | |
|-------------------------|-----|--------------------------|----------|---------------|----------|------------------------------------|-----|----------------|----------|---------------|-----------------------------------|----------------------------------|-------------------------------|--------------------------|----------------------|-----------------------------|------------------|---------|
| | | Damages of steel members | | | | Damages of concrete members | | | | | | Others | | | | | | |
| | | Corrosion | Cracking | Missing bolts | Fracture | Cracking, Water leakage, Free lime | No. | Rebar exposure | Pop-outs | Deck cracking | Damages at anchorage of PC tender | Level difference of road surface | Functional damage of bearings | Damages in substructures | Damages in pavements | Damages in expansion joints | Damages in cable | Remarks |
| Upper chord member | 01 | a | a | a | a | | | | | | | | | | | | | |
| | 02 | a | a | a | a | | | | | | | | | | | | | |
| Bottom chord member | 01 | b | a | a | a | | | | | | | | | | | | | |
| | 02 | b | a | a | a | | | | | | | | | | | | | |
| Diagonal | 01 | b | a | a | a | | | | | | | | | | | | | |
| | 02 | b | a | a | a | | | | | | | | | | | | | |
| Vertical member | 01 | b | a | a | a | | | | | | | | | | | | | |
| | 02 | b | a | a | a | | | | | | | | | | | | | |
| Lateral bracing (Upper) | 01 | b | a | a | a | | | | | | | | | | | | | |
| Lateral bracing (Lower) | 01 | a | a | a | a | | | | | | | | | | | | | |
| Sway bracing (Upper) | 01 | a | a | a | a | | | | | | | | | | | | | |
| Stringer | 01 | a | a | a | a | | | | | | | | | | | | | |
| | 02 | a | a | a | a | | | | | | | | | | | | | |
| | 03 | a | a | a | a | | | | | | | | | | | | | |
| | 04 | a | a | a | a | | | | | | | | | | | | | |
| | 05 | a | a | a | a | | | | | | | | | | | | | |
| | 06 | a | a | a | a | | | | | | | | | | | | | |
| | 07 | a | a | a | a | | | | | | | | | | | | | |
| | 08 | a | a | a | a | | | | | | | | | | | | | |
| | 09 | a | a | a | a | | | | | | | | | | | | | |
| | 10 | a | a | a | a | | | | | | | | | | | | | |
| Floor beam | 01 | a | a | a | a | | | | | | | | | | | | | |
| | 02 | a | a | a | a | | | | | | | | | | | | | |
| | 03 | a | a | a | a | | | | | | | | | | | | | |
| Sway bracing (Lower) | 01 | a | a | a | a | | | | | | | | | | | | | |
| Sway bracing (Lower) | 01 | | | | | | | a | a | c | a | | | | | | | |
| | 02 | | | | | | | a | a | c | a | | | | | | | |
| | 03 | | | | | | | a | a | c | a | | | | | | | |
| | 04 | | | | | | | a | a | c | a | | | | | | | |
| | 05 | | | | | | | a | a | c | a | | | | | | | |
| | 06 | | | | | | | a | a | c | a | | | | | | | |
| | 07 | | | | | | | a | a | c | a | | | | | | | |
| | 08 | | | | | | | a | a | c | a | | | | | | | |
| | 09 | | | | | | | a | a | c | a | | | | | | | |
| | 10 | | | | | | | a | a | c | a | | | | | | | |
| | 11 | | | | | | | a | a | c | a | | | | | | | |
| | 12 | | | | | | | a | a | c | a | | | | | | | |
| | 13 | | | | | | | a | a | c | a | | | | | | | |
| Pier | 01 | | | | | a | - | a | | | | | | a | | | | |
| | 02 | | | | | a | - | a | | | | | | a | | | | |
| Bearings | 101 | | | | | | | | | | | | a | | | | | |
| | 102 | | | | | | | | | | | | a | | | | | |
| | 201 | | | | | | | | | | | | a | | | | | |
| | 202 | | | | | | | | | | | | a | | | | | |
| Road surface | | | | | | | | | | | a | | | a | | | | |
| Barriers Railings | 01 | | | | | | | | | | | | | | | c | | |
| | 02 | | | | | | | | | | | | | | | c | | |
| Expansion joints | 01 | | | | | | | | | | | | | | | | a | |

Estimation of repair quantity

| Bridge name | | 010Krungr Thep | | | Span No. | | 2 | | |
|-------------|---|----------------|-------------------------|---------------------|---------------------------|---|----------------------|---------------------------------|---------------------------|
| Subject | | Quantity | | | Remarks | | | | |
| 1 | Span length | | 64.000 m | | | Length of 1 span | | | |
| 2 | Road width for pavement | | 12.00 m | | | Width for pavement area (Vehicle lane) | | | |
| 3 | Total road width | | 17.48 m | | | Deck width | | | |
| 4 | Area of bridge surface | | 1,118.7 m ² | | | Span length x Total width | | | |
| 5 | Area of pavement | | 768.0 m ² | | | Span length x Width for pavement | | | |
| 6 | Barriers & railings | | 01 | concrete | | Type of barriers & railings | | | |
| | | | 02 | concrete | | Same as above | | | |
| | | | 03 | - | | Same as above | | | |
| | | | 04 | - | | Same as above | | | |
| 7 | Expansion joints | | 01 | steel | | Type of expansion joint | | | |
| | | | 02 | steel | | Same as above | | | |
| 8 | Painting area | | Total % | Number of members | Member % | Painting area | Remarks | | |
| | Total painting area | | 100.0% | 1 | - | 5,000.0 m ² | | | |
| | Main structure | 52.0% | Upper chord | 65.0% | 33.8% | 2 | 16.9% | 850.0 m ² | Experience value |
| | | | Bottom chord | 35.0% | 18.2% | 2 | 9.1% | 460.0 m ² | Experience value |
| | Sway bracing Lateral bracing Portal frame | 18.0% | Diagonal | 20.0% | 3.6% | 2 | 1.8% | 90.0 m ² | Experience value |
| | | | Vertical member | 15.0% | 2.7% | 2 | 1.4% | 70.0 m ² | Experience value |
| | | | Lateral bracing (Upper) | 20.0% | 3.6% | 1 | 3.6% | 180.0 m ² | Experience value |
| | | | Lateral bracing (Lower) | 15.0% | 2.7% | 1 | 2.7% | 140.0 m ² | Experience value |
| | | | Sway bracing (Upper) | 15.0% | 2.7% | 1 | 2.7% | 140.0 m ² | Experience value |
| | | | Sway bracing (Lower) | 15.0% | 2.7% | 1 | 2.7% | 140.0 m ² | Experience value |
| | Floor system | 32.0% | Stringer | 60.0% | 19.2% | 10 | 1.9% | 100.0 m ² | Experience value |
| | | | Floor beam | 40.0% | 12.8% | 15% | 1.9% | 100.0 m ² | End floor beam(15% pos.) |
| 70% | | | | | | 9.0% | 450.0 m ² | Interm. floor beam(70% for all) | |
| 9 | Repaired area of deck | | Quantity | | Remarks | | | | |
| | Divided area | | A | 86.1 m ² | 13 div. | Area of bridge surface / number of division | | | |
| | Area of rebar exposure | | | 10.3 m ² | A x | 0.120 | | | |
| | Area of deck cracking | | | 53.4 m ³ | A x | 0.620 | | | |
| 10 | Repair quantity of substructure | | Quantity | | Remarks | | | | |
| | Cracking, Water leakage, Free lime | | 5.54 m | | per substructure | | | | |
| | Rebar exposure | | 2.24 m ² | | per substructure | | | | |
| 11 | Concrete barrier | | Quantity | | Remarks | | | | |
| | Rebar exposure | | 4.47 m ² | | A of bridge surf. x 0.004 | | | | |

Countermeasure classification of members

| Bridge name | | 010Krung Thep | | | | Span No. | | | 2 | | |
|-------------------------|-----|---------------|-----------------------|-------|-------------------------------|----------|---------------|---------------|-----------------------|-------|-------------------------------|
| Member | No. | Damage | Damage classification | | Countermeasure classification | Member | No. | Damage | Damage classification | | Countermeasure classification |
| | | | Classification | Judge | | | | | Classification | Judge | |
| Upper chord | 01 | Corrosion | a | - | 5 | Stringer | 01 | Corrosion | a | - | 5 |
| | | Cracking | a | - | 5 | | | Cracking | a | - | 5 |
| | | Missing bolts | a | - | 5 | | | Missing bolts | a | - | 5 |
| | | Fracture | a | - | 5 | | | Fracture | a | - | 5 |
| | 02 | Corrosion | a | - | 5 | | 02 | Corrosion | a | - | 5 |
| | | Cracking | a | - | 5 | | | Cracking | a | - | 5 |
| | | Missing bolts | a | - | 5 | | | Missing bolts | a | - | 5 |
| | | Fracture | a | - | 5 | | | Fracture | a | - | 5 |
| Bottom chord | 01 | Corrosion | b | - | 4 | | 03 | Corrosion | a | - | 5 |
| | | Cracking | a | - | 5 | | | Cracking | a | - | 5 |
| | | Missing bolts | a | - | 5 | | | Missing bolts | a | - | 5 |
| | | Fracture | a | - | 5 | | | Fracture | a | - | 5 |
| | 02 | Corrosion | b | - | 4 | | 04 | Corrosion | a | - | 5 |
| | | Cracking | a | - | 5 | | | Cracking | a | - | 5 |
| | | Missing bolts | a | - | 5 | | | Missing bolts | a | - | 5 |
| | | Fracture | a | - | 5 | | | Fracture | a | - | 5 |
| Diagonal | 01 | Corrosion | b | - | 4 | | 05 | Corrosion | a | - | 5 |
| | | Cracking | a | - | 5 | | | Cracking | a | - | 5 |
| | | Missing bolts | a | - | 5 | | | Missing bolts | a | - | 5 |
| | | Fracture | a | - | 5 | | | Fracture | a | - | 5 |
| | 02 | Corrosion | b | - | 4 | 06 | Corrosion | a | - | 5 | |
| | | Cracking | a | - | 5 | | Cracking | a | - | 5 | |
| | | Missing bolts | a | - | 5 | | Missing bolts | a | - | 5 | |
| | | Fracture | a | - | 5 | | Fracture | a | - | 5 | |
| Vertical member | 01 | Corrosion | b | - | 4 | 07 | Corrosion | a | - | 5 | |
| | | Cracking | a | - | 5 | | Cracking | a | - | 5 | |
| | | Missing bolts | a | - | 5 | | Missing bolts | a | - | 5 | |
| | | Fracture | a | - | 5 | | Fracture | a | - | 5 | |
| | 02 | Corrosion | b | - | 4 | 08 | Corrosion | a | - | 5 | |
| | | Cracking | a | - | 5 | | Cracking | a | - | 5 | |
| | | Missing bolts | a | - | 5 | | Missing bolts | a | - | 5 | |
| | | Fracture | a | - | 5 | | Fracture | a | - | 5 | |
| Lateral bracing (Upper) | 01 | Corrosion | b | - | 4 | 09 | Corrosion | a | - | 5 | |
| | | Cracking | a | - | 5 | | Cracking | a | - | 5 | |
| | | Missing bolts | a | - | 5 | | Missing bolts | a | - | 5 | |
| | | Fracture | a | - | 5 | | Fracture | a | - | 5 | |
| Lateral bracing (Lower) | 01 | Corrosion | a | - | 5 | 10 | Corrosion | a | - | 5 | |
| | | Cracking | a | - | 5 | | Cracking | a | - | 5 | |
| | | Missing bolts | a | - | 5 | | Missing bolts | a | - | 5 | |
| | | Fracture | a | - | 5 | | Fracture | a | - | 5 | |
| Sway bracing (Upper) | 01 | Corrosion | a | - | 5 | | | | | | |
| | | Cracking | a | - | 5 | | | | | | |
| | | Missing bolts | a | - | 5 | | | | | | |
| | | Fracture | a | - | 5 | | | | | | |

| Bridge name | | 010Krung Thep | | | | Span No. | | 2 | | | | |
|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------|-------|-------------------------------|---------------------|-----------------------------------|-----------------------------------|-----------------------|-------|-------------------------------|---|
| Member | No. | Damage | Damage classification | | Countermeasure classification | Member | No. | Damage | Damage classification | | Countermeasure classification | |
| | | | Classification | Judge | | | | | Classification | Judge | | |
| Floor beam | 01 | Corrosion | a | - | 5 | Deck | 08 | Rebar exposure | a | - | 5 | |
| | | Cracking | a | - | 5 | | | Pop-outs | a | - | 5 | |
| | | Missing bolts | a | - | 5 | | | Deck cracking | c | - | 3 | |
| | | Fracture | a | - | 5 | | | Damages at anchorage of PC tendon | a | - | 5 | |
| | 02 | Corrosion | a | - | 5 | | 09 | Rebar exposure | a | - | 5 | |
| | | Cracking | a | - | 5 | | | Pop-outs | a | - | 5 | |
| | | Missing bolts | a | - | 5 | | | Deck cracking | c | - | 3 | |
| | | Fracture | a | - | 5 | | | Damages at anchorage of PC tendon | a | - | 5 | |
| | 03 | Corrosion | a | - | 5 | | 10 | Rebar exposure | a | - | 5 | |
| | | Cracking | a | - | 5 | | | Pop-outs | a | - | 5 | |
| | | Missing bolts | a | - | 5 | | | Deck cracking | c | - | 3 | |
| | | Fracture | a | - | 5 | | | Damages at anchorage of PC tendon | a | - | 5 | |
| Sway bracing (Lower) | 01 | Corrosion | a | - | 5 | 11 | Rebar exposure | a | - | 5 | | |
| | | Cracking | a | - | 5 | | Pop-outs | a | - | 5 | | |
| | | Missing bolts | a | - | 5 | | Deck cracking | c | - | 3 | | |
| | | Fracture | a | - | 5 | | Damages at anchorage of PC tendon | a | - | 5 | | |
| Deck | 01 | Rebar exposure | a | - | 5 | 12 | Rebar exposure | a | - | 5 | | |
| | | Pop-outs | a | - | 5 | | Pop-outs | a | - | 5 | | |
| | | Deck cracking | c | - | 3 | | Deck cracking | c | - | 3 | | |
| | | Damages at anchorage of PC tendon | a | - | 5 | | Damages at anchorage of PC tendon | a | - | 5 | | |
| | 02 | Rebar exposure | a | - | 5 | 13 | Rebar exposure | a | - | 5 | | |
| | | Pop-outs | a | - | 5 | | Pop-outs | a | - | 5 | | |
| | | Deck cracking | c | - | 3 | | Deck cracking | c | - | 3 | | |
| | | Damages at anchorage of PC tendon | a | - | 5 | | Damages at anchorage of PC tendon | a | - | 5 | | |
| | 03 | Rebar exposure | a | - | 5 | Substructure | 01 | Cracking etc. | a | - | 5 | |
| | | Pop-outs | a | - | 5 | | Rebar exposure | a | - | 5 | | |
| | | Deck cracking | c | - | 3 | | Damages in substructures | a | - | 5 | | |
| | | Damages at anchorage of PC tendon | a | - | 5 | | 02 | Cracking etc. | a | - | 5 | |
| | 04 | Rebar exposure | a | - | 5 | Bearings | 101 | Functional damage of bearings | a | - | 5 | |
| | | Pop-outs | a | - | 5 | | 102 | Functional damage of bearings | a | - | 5 | |
| | | Deck cracking | c | - | 3 | | 201 | Functional damage of bearings | a | - | 5 | |
| | | Damages at anchorage of PC tendon | a | - | 5 | | 202 | Functional damage of bearings | a | - | 5 | |
| | 05 | Rebar exposure | a | - | 5 | Road surface | 01 | Level difference of road surface | a | - | 5 | |
| | | Pop-outs | a | - | 5 | | Damages in pavements | a | - | 5 | | |
| | | Deck cracking | c | - | 3 | | Barriers Railings | 01 | Damages in barriers | c | - | 2 |
| | | Damages at anchorage of PC tendon | a | - | 5 | | | 02 | Damages in barriers | c | - | 2 |
| | 06 | Rebar exposure | a | - | 5 | 03 | | Damages in barriers | - | - | - | |
| Pop-outs | | a | - | 5 | 04 | Damages in barriers | | - | - | - | | |
| Deck cracking | | c | - | 3 | Expansion joints | 01 | Damages in expansion joints | a | - | 5 | | |
| Damages at anchorage of PC tendon | | a | - | 5 | | | | | | | | |
| 07 | Rebar exposure | a | - | 5 | | | | | | | | |
| | Pop-outs | a | - | 5 | | | | | | | | |
| | Deck cracking | c | - | 3 | | | | | | | | |
| | Damages at anchorage of PC tendon | a | - | 5 | | | | | | | | |

Approximate repair price for countermeasures

| Bridge name | | 010 Krung Thiep | | | | Span No. | | 2 | | | | countermeasure classification | | countermeasure classification | | Planned repair & reconstruction | |
|-------------------------|---------------|-----------------|-----------------------|-------------------------------|----------------------------|-----------------|----------------|----------------------------|------------------------------|--|------------------|---|------------------|---|------------------|---------------------------------|---|
| Member | No. | Damage | Damage classification | Countermeasure classification | Repair method | Repair quantity | Unit | Approximate unit price (฿) | Approximate repair price (฿) | Approximate repair price for countermeasure classification 1 & 2 (฿) | Repair price (฿) | Remaining years up to countermeasure cl 2 | Repair price (฿) | Remaining years up to countermeasure cl 2 | Repair price (฿) | Life cycle | |
| Upper chord | 01 | Corrosion | a | 5 | Repainging | 850.0 | m ² | 3,500 | 2,975,000 | - | - | 5 | - | 10 | 2,975,000 | 20 | |
| | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - |
| | | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | - |
| | 02 | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - |
| | | Corrosion | a | 5 | Repainging | 850.0 | m ² | 3,500 | 2,975,000 | - | - | 5 | - | 10 | 2,975,000 | 20 | |
| | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - |
| Bottom chord | 01 | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | |
| | | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | |
| | | Corrosion | b | 4 | Repainging | 460.0 | m ² | 3,500 | 1,610,000 | - | - | 5 | 1,610,000 | 10 | 1,610,000 | 20 | |
| | 02 | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - |
| | | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | - |
| | | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - |
| Diagonal | 01 | Corrosion | b | 4 | Repainging | 90.0 | m ² | 3,500 | 315,000 | - | - | 5 | 315,000 | 10 | 315,000 | 20 | |
| | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | |
| | | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | |
| | 02 | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | - |
| | | Corrosion | b | 4 | Repainging | 90.0 | m ² | 3,500 | 315,000 | - | - | 5 | 315,000 | 10 | 315,000 | 20 | |
| | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | |
| Vertical member | 01 | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | |
| | | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | |
| | | Corrosion | b | 4 | Repainging | 70.0 | m ² | 3,500 | 245,000 | - | - | 5 | 245,000 | 10 | 245,000 | 20 | |
| | 02 | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | |
| | | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | |
| | | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | |
| Lateral bracing (Upper) | 01 | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | |
| | | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | |
| | | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | - | | |
| | 02 | Corrosion | b | 4 | Repainging | 180.0 | m ² | 3,500 | 630,000 | - | - | 5 | 630,000 | 10 | 630,000 | 20 | |
| | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | |
| | | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | |
| Lateral bracing (Lower) | 01 | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | - | - | |
| | | Corrosion | a | 5 | Repainging | 180.0 | m ² | 3,500 | 630,000 | - | - | 5 | - | 10 | 630,000 | 20 | |
| | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | | |
| | 02 | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | - | |
| | | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | - | | |
| | | Corrosion | a | 5 | Repainging | 140.0 | m ² | 3,500 | 490,000 | - | - | 5 | - | 10 | 490,000 | 20 | |
| Sway bracing (Upper) | 01 | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | | |
| | | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | | |
| | | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | | | |
| | 02 | Corrosion | a | 5 | Repainging | 100.0 | m ² | 3,500 | 350,000 | - | - | 5 | - | 10 | 350,000 | 20 | |
| | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | - | | |
| | | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | | |
| Stringer | 03 | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | - | | |
| | | Corrosion | a | 5 | Repainging | 100.0 | m ² | 3,500 | 350,000 | - | - | 5 | - | 10 | 350,000 | 20 | |
| | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | | | |
| | 04 | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | - | | |
| | | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | | | |
| | | Corrosion | a | 5 | Repainging | 100.0 | m ² | 3,500 | 350,000 | - | - | 5 | - | 10 | 350,000 | 20 | |
| Stringer | 05 | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | | | |
| | | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | | | |
| | | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | | | | |
| | 06 | Corrosion | a | 5 | Repainging | 100.0 | m ² | 3,500 | 350,000 | - | - | 5 | - | 10 | 350,000 | 20 | |
| | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | | | |
| | | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | | | |
| 07 | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | | | | |
| | Corrosion | a | 5 | Repainging | 100.0 | m ² | 3,500 | 350,000 | - | - | 5 | - | 10 | 350,000 | 20 | | |
| | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | | | | |
| 08 | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | | | | |
| | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | | | | |
| | Corrosion | a | 5 | Repainging | 100.0 | m ² | 3,500 | 350,000 | - | - | 5 | - | 10 | 350,000 | 20 | | |
| 09 | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | | | | |
| | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | | | | |
| | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | | | | | |
| 10 | Corrosion | a | 5 | Repainging | 100.0 | m ² | 3,500 | 350,000 | - | - | 5 | - | 10 | 350,000 | 20 | | |
| | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | | | | |
| | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | | | | |
| Floor beam | 01 | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | | | |
| | | Corrosion | a | 5 | Repainging | 100.0 | m ² | 3,500 | 350,000 | - | - | 5 | - | 10 | 350,000 | 20 | |
| | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | | | |
| | 02 | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | | | |
| | | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | - | | | |
| | | Corrosion | a | 5 | Repainging | 450.0 | m ² | 3,500 | 1,575,000 | - | - | 5 | - | 10 | 1,575,000 | 20 | |
| 03 | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | | | | |
| | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | | | | |
| | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | | | | | |
| Sway bracing (Lower) | 01 | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | | | |
| | | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | | | |
| | | Fracture | a | 5 | Reinf. for fracture | - | Pos. | 166,700 | - | - | - | - | - | | | | |
| | 02 | Corrosion | a | 5 | Repainging | 140.0 | m ² | 3,500 | 490,000 | - | - | 5 | - | 10 | 490,000 | 20 | |
| | | Cracking | a | 5 | Reinf. with steel pt. | - | Pos. | 166,700 | - | - | - | - | - | - | | | |
| | | Missing bolts | a | 5 | Bolt change for splice pt. | - | Pos. | 133,400 | - | - | - | - | - | - | | | |

| Member | No. | Damage | Damage classification | Countermeasure classification | Repair method | Repair quantity | Unit | Approximate unit price (B) | Approximate repair price (B) | Approximate repair price for countermeasure classification 1 & 2 (B) | countermeasure classification 3 | | countermeasure classification 4 | | Planned repair & reconstruction | | |
|------------------|--------------|-----------------------------------|-----------------------------------|-------------------------------|----------------------|----------------------|----------------|----------------------------|------------------------------|--|---------------------------------|---|---------------------------------|---|---------------------------------|------------|----|
| | | | | | | | | | | | Repair price (B) | Remainin g years up to counter measure cl 2 | Repair price (B) | Remainin g years up to counter measure cl 2 | Repair price (B) | Life cycle | |
| Deck | 01 | Rebar exposure | u | 5 | Patching | 10.3 | m ² | 17,500 | 180,300 | - | - | 7 | - | 15 | - | 30 | |
| | | Pop-outs | a | 5 | Patching & CFR | - | Pos. | 10,000 | - | - | - | - | - | - | - | - | |
| | | Deck cracking | c | 3 | CFR | 53.4 | m ² | 22,500 | 1,201,500 | - | 1,201,500 | 7 | - | 15 | 1,201,500 | 30 | |
| | 02 | Damages at anchorage of PC tendon | a | 5 | CFR (upper & bottom) | - | Pos. | 45,000 | - | - | - | - | - | - | - | - | |
| | | Rebar exposure | a | 5 | Patching | 10.3 | m ² | 17,500 | 180,300 | - | - | 7 | - | 15 | - | 30 | |
| | | Pop-outs | a | 5 | Patching & CFR | - | Pos. | 10,000 | - | - | - | - | - | - | - | - | |
| | 03 | Deck cracking | c | 3 | CFR | 53.4 | m ² | 22,500 | 1,201,500 | - | 1,201,500 | 7 | - | 15 | 1,201,500 | 30 | |
| | | Damages at anchorage of PC tendon | a | 5 | CFR (upper & bottom) | - | Pos. | 45,000 | - | - | - | - | - | - | - | - | |
| | | Rebar exposure | a | 5 | Patching | 10.3 | m ² | 17,500 | 180,300 | - | - | 7 | - | 15 | - | 30 | |
| | 04 | Pop-outs | a | 5 | Patching & CFR | - | Pos. | 10,000 | - | - | - | - | - | - | - | - | |
| | | Deck cracking | c | 3 | CFR | 53.4 | m ² | 22,500 | 1,201,500 | - | 1,201,500 | 7 | - | 15 | 1,201,500 | 30 | |
| | | Damages at anchorage of PC tendon | a | 5 | CFR (upper & bottom) | - | Pos. | 45,000 | - | - | - | - | - | - | - | - | |
| | 05 | Rebar exposure | a | 5 | Patching | 10.3 | m ² | 17,500 | 180,300 | - | - | 7 | - | 15 | - | 30 | |
| | | Pop-outs | a | 5 | Patching & CFR | - | Pos. | 10,000 | - | - | - | - | - | - | - | - | |
| | | Deck cracking | c | 3 | CFR | 53.4 | m ² | 22,500 | 1,201,500 | - | 1,201,500 | 7 | - | 15 | 1,201,500 | 30 | |
| | 06 | Damages at anchorage of PC tendon | a | 5 | CFR (upper & bottom) | - | Pos. | 45,000 | - | - | - | - | - | - | - | - | |
| | | Rebar exposure | a | 5 | Patching | 10.3 | m ² | 17,500 | 180,300 | - | - | 7 | - | 15 | - | 30 | |
| | | Pop-outs | a | 5 | Patching & CFR | - | Pos. | 10,000 | - | - | - | - | - | - | - | - | |
| | 07 | Deck cracking | c | 3 | CFR | 53.4 | m ² | 22,500 | 1,201,500 | - | 1,201,500 | 7 | - | 15 | 1,201,500 | 30 | |
| | | Damages at anchorage of PC tendon | a | 5 | CFR (upper & bottom) | - | Pos. | 45,000 | - | - | - | - | - | - | - | - | |
| | | Rebar exposure | a | 5 | Patching | 10.3 | m ² | 17,500 | 180,300 | - | - | 7 | - | 15 | - | 30 | |
| | 08 | Pop-outs | a | 5 | Patching & CFR | - | Pos. | 10,000 | - | - | - | - | - | - | - | - | |
| | | Deck cracking | c | 3 | CFR | 53.4 | m ² | 22,500 | 1,201,500 | - | 1,201,500 | 7 | - | 15 | 1,201,500 | 30 | |
| | | Damages at anchorage of PC tendon | a | 5 | CFR (upper & bottom) | - | Pos. | 45,000 | - | - | - | - | - | - | - | - | |
| | 09 | Rebar exposure | a | 5 | Patching | 10.3 | m ² | 17,500 | 180,300 | - | - | 7 | - | 15 | - | 30 | |
| | | Pop-outs | a | 5 | Patching & CFR | - | Pos. | 10,000 | - | - | - | - | - | - | - | - | |
| | | Deck cracking | c | 3 | CFR | 53.4 | m ² | 22,500 | 1,201,500 | - | 1,201,500 | 7 | - | 15 | 1,201,500 | 30 | |
| | 10 | Damages at anchorage of PC tendon | a | 5 | CFR (upper & bottom) | - | Pos. | 45,000 | - | - | - | - | - | - | - | - | |
| | | Rebar exposure | a | 5 | Patching | 10.3 | m ² | 17,500 | 180,300 | - | - | 7 | - | 15 | - | 30 | |
| | | Pop-outs | a | 5 | Patching & CFR | - | Pos. | 10,000 | - | - | - | - | - | - | - | - | |
| | 11 | Deck cracking | c | 3 | CFR | 53.4 | m ² | 22,500 | 1,201,500 | - | 1,201,500 | 7 | - | 15 | 1,201,500 | 30 | |
| | | Damages at anchorage of PC tendon | a | 5 | CFR (upper & bottom) | - | Pos. | 45,000 | - | - | - | - | - | - | - | - | |
| | | Rebar exposure | a | 5 | Patching | 10.3 | m ² | 17,500 | 180,300 | - | - | 7 | - | 15 | - | 30 | |
| | 12 | Pop-outs | a | 5 | Patching & CFR | - | Pos. | 10,000 | - | - | - | - | - | - | - | - | |
| | | Deck cracking | c | 3 | CFR | 53.4 | m ² | 22,500 | 1,201,500 | - | 1,201,500 | 7 | - | 15 | 1,201,500 | 30 | |
| | | Damages at anchorage of PC tendon | a | 5 | CFR (upper & bottom) | - | Pos. | 45,000 | - | - | - | - | - | - | - | - | |
| | 13 | Rebar exposure | a | 5 | Patching | 10.3 | m ² | 17,500 | 180,300 | - | - | 7 | - | 15 | - | 30 | |
| | | Pop-outs | a | 5 | Patching & CFR | - | Pos. | 10,000 | - | - | - | - | - | - | - | - | |
| | | Deck cracking | c | 3 | CFR | 53.4 | m ² | 22,500 | 1,201,500 | - | 1,201,500 | 7 | - | 15 | 1,201,500 | 30 | |
| | Substructure | 01 | Cracking etc. | a | 5 | Resin injection | 5.54 | m | 5,000 | 27,700 | - | - | 7 | - | 15 | - | 30 |
| | | Rebar exposure | a | 5 | Patching | 2.24 | m | 17,500 | 39,200 | - | - | 7 | - | 15 | 39,200 | 30 | |
| | | Damages in substructures | a | 5 | Foot protection | - | m | 1,750,000 | - | - | - | - | - | - | - | - | |
| | 02 | Cracking etc. | a | 5 | Resin injection | 5.54 | m | 5,000 | 27,700 | - | - | 7 | - | 15 | - | 30 | |
| | | Rebar exposure | a | 5 | Patching | 2.24 | m | 17,500 | 39,200 | - | - | 7 | - | 15 | 39,200 | 30 | |
| | | Damages in substructures | a | 5 | Foot protection | - | m | 1,750,000 | - | - | - | - | - | - | - | - | |
| | Bearings | 101 | Functional damage of bearings | u | 5 | Metal spraying | 1.0 | Pos. | 120,000 | 120,000 | - | - | 7 | - | 15 | 120,000 | 30 |
| | | 102 | Functional damage of bearings | u | 5 | Metal spraying | 1.0 | Pos. | 120,000 | 120,000 | - | - | 7 | - | 15 | 120,000 | 30 |
| | Road surface | 201 | Functional damage of road surface | a | 5 | Pavement replacement | 768.0 | m ² | 5,000 | 3,840,000 | - | - | 5 | - | 10 | - | 20 |
| 202 | | Functional damage of road surface | a | 5 | same as above | 768.0 | m ² | 5,000 | 3,840,000 | - | - | 5 | - | 10 | 3,840,000 | 20 | |
| Barriers | 01 | Damages in barriers | c | 2 | Patching | 4.47 | m ² | 17,500 | 78,300 | - | 78,300 | 7 | - | 15 | 78,300 | 30 | |
| | 02 | Damages in barriers | c | 2 | Patching | 4.47 | m ² | 17,500 | 78,300 | - | 78,300 | 7 | - | 15 | 78,300 | 30 | |
| Railings | 03 | - | - | - | - | - | - | 17,500 | 78,300 | - | - | 7 | - | 15 | 78,300 | 30 | |
| | 04 | - | - | - | - | - | - | 17,500 | 78,300 | - | - | 7 | - | 15 | 78,300 | 30 | |
| Expansion joints | 01 | Damages in expansion joints | a | 5 | change of steel exp. | 17.5 | m | 133,400 | 2,331,900 | - | - | 7 | - | 15 | 2,331,900 | 30 | |

Damage classification of members

| Bridge name | | 010Krung Thep | | | | | | | | | | Span No. | | | | | 3 | |
|----------------------|-----|--------------------------|----------|---------------|----------|------------------------------------|-----|----------------|----------|---------------|-----------------------------------|----------------------------------|-------------------------------|--------------------------|----------------------|-----------------------------|---------|------------------|
| | | Damages of steel members | | | | Damages of concrete members | | | | | | Others | | | | | Remarks | |
| | | Corrosion | Cracking | Missing bolts | Fracture | Cracking, Water leakage, Free lime | No. | Rebar exposure | Pop-outs | Deck cracking | Damages at anchorage of PC tender | Level difference of road surface | Functional damage of bearings | Damages in substructures | Damages in pavements | Damages in expansion joints | | Damages in cable |
| Upper chord member | 01 | | | | | | | | | | | | | | | | | |
| | 02 | | | | | | | | | | | | | | | | | |
| Bottom chord member | 01 | | | | | | | | | | | | | | | | | |
| | 02 | | | | | | | | | | | | | | | | | |
| Diagonal | 01 | | | | | | | | | | | | | | | | | |
| | 02 | | | | | | | | | | | | | | | | | |
| Vertical member | 01 | | | | | | | | | | | | | | | | | |
| | 02 | | | | | | | | | | | | | | | | | |
| Lateral bracing | 01 | | | | | | | | | | | | | | | | | |
| Lateral bracing | 01 | | | | | | | | | | | | | | | | | |
| Sway bracing | 01 | | | | | | | | | | | | | | | | | |
| Stringer | 01 | b | a | a | a | | | | | | | | | | | | | |
| | 02 | a | a | a | a | | | | | | | | | | | | | |
| | 03 | a | a | a | a | | | | | | | | | | | | | |
| | 04 | a | a | a | a | | | | | | | | | | | | | |
| | 05 | a | a | a | a | | | | | | | | | | | | | |
| | 06 | a | a | a | a | | | | | | | | | | | | | |
| | 07 | a | a | a | a | | | | | | | | | | | | | |
| | 08 | a | a | a | a | | | | | | | | | | | | | |
| | 09 | b | a | a | a | | | | | | | | | | | | | |
| Floor beam | 01 | a | a | a | a | | | | | | | | | | | | | |
| | 02 | a | a | a | a | | | | | | | | | | | | | |
| | 03 | a | a | a | a | | | | | | | | | | | | | |
| Sway bracing | 01 | a | a | a | a | | | | | | | | | | | | | |
| Sway bracing (Lower) | 01 | a | a | a | a | | | | | | | | | | | | | |
| | 02 | a | a | a | a | | | | | | | | | | | | | |
| | 03 | a | c | a | a | | | | | | | | | | | | | |
| | 04 | a | a | a | a | | | | | | | | | | | | | |
| | 05 | a | a | a | a | | | | | | | | | | | | | |
| | 06 | a | a | a | a | | | | | | | | | | | | | |
| | 07 | a | a | a | a | | | | | | | | | | | | | |
| | 08 | a | a | a | a | | | | | | | | | | | | | |
| | 09 | a | a | a | a | | | | | | | | | | | | | |
| | 10 | a | a | a | a | | | | | | | | | | | | | |
| | 11 | a | a | a | a | | | | | | | | | | | | | |
| | 12 | a | a | a | a | | | | | | | | | | | | | |
| | 13 | a | a | a | a | | | | | | | | | | | | | |
| Pier | 01 | | | | | a | - | a | | | | | | a | | | | |
| | 02 | | | | | a | - | a | | | | | | a | | | | |
| Bearings | 101 | | | | | | | | | | | | a | | | | | |
| | 102 | | | | | | | | | | | | a | | | | | |
| | 201 | | | | | | | | | | | | a | | | | | |
| | 202 | | | | | | | | | | | | a | | | | | |
| Road surface | | | | | | | | | | | a | | | | a | | | |
| Barriers Railings | 01 | | | | | | | | | | | | | | | c | | |
| | 02 | | | | | | | | | | | | | | | c | | |
| Expansion joints | 01 | | | | | | | | | | | | | | | | c | |
| | 02 | | | | | | | | | | | | | | | | c | |