

## Detailed Format

### Condition Details - Superstructure

Stone Slab / RC Multicell Box / RC Solid Slab / RC Voided Slab / PSC Voided Slab / RC Girder / RC Box Girder / PSC Girder / PSC Box Girder / Bow String Arch / Steel Truss / Steel Girder / Cable Stayed, Others

**The Number of Spans Displayed should be equal to "Total No.of Spans" as in "General Information sheet"**

S1	S2	S3	S4	S5	S----	S---	S---
----	----	----	----	----	-------	------	------

### Deck Slab

#### Deck Surface

Number of Locations where ponding of water occurs over deck slab

--	--	--	--	--	--	--	--

Integer

No. and Locations of the spots where the concrete has been discoloured

--	--	--	--	--	--	--	--

Text

Condition of Joint between Deck Slab and Girders both Longitudinal and Transverse

--	--	--	--	--	--	--	--

Good/Fair/poor/Bad

Existence of Proper drip course at the edge of the slab

--	--	--	--	--	--	--	--

Yes / No

### Soundness

- Hit the Slab by hammer at a rate of 10 blow in 1sqm area. Hear the sound carefully

Metallic sound appears in a span

--	--	--	--	--	--	--	--

Text

Hollow Sound Appears

--	--	--	--	--	--	--	--

Text

(Note down the number of locations, sound where the hollow sound appears in a span)

### Spalling / Dampness

Spalling of Concrete

--	--	--	--	--	--	--	--

Yes / No

Number of Spalls

--	--	--	--	--	--	--	--

Integer

Area of each spalling in sqm

--	--	--	--	--	--	--	--

Integer

Depth of each spalling in mm

--	--	--	--	--	--	--	--

Integer

Number of Locations in a span effected

--	--	--	--	--	--	--	--

Integer

**Cracking**

Cracking

--	--	--	--	--	--	--	--

Yes / No

Nature of Crack

--	--	--	--	--	--	--	--

Text

Length of the Cracks (m)

--	--	--	--	--	--	--	--

Integer

Width of the Cracks (mm)

--	--	--	--	--	--	--	--

Integer

Total Area of the Surface where  
the Crack appear in %age

--	--	--	--	--	--	--	--

Integer

Section of super-structure where  
the crack appeared  
(i.e. at side, at bottom etc.)

--	--	--	--	--	--	--	--

Text

**Corrosion of Exposed Reinforcement**

Reinf Exposed and Corroded

--	--	--	--	--	--	--	--

Yes / No

Number of Location where the  
Reinf. is exposed

--	--	--	--	--	--	--	--

Integer

Location of the Corroded Reinf.

--	--	--	--	--	--	--	--

Text

Percentage of Corrosion Measured  
with respect to bar dia

--	--	--	--	--	--	--	--

Integer

Pit Corrosion

--	--	--	--	--	--	--	--

Yes / No

**Deflection**

No. Deflection Visible

--	--	--	--	--	--	--	--

Yes / No

Moderate Deflection (in mm)

--	--	--	--	--	--	--	--

Decimal

Excessive Deflection (in mm)

--	--	--	--	--	--	--	--

Decimal

**Addl. Details for PSC Slabs****Anchorage**

Anchorage Portion for Pre-stressing Damaged

--	--	--	--	--	--	--	--

Yes / No

Number of Damaged Anchor in a Span

--	--	--	--	--	--	--	--

Integer

Description of Damage

--	--	--	--	--	--	--	--

Text

Degree of Corrosion of the Anchorage end

--	--	--	--	--	--	--	--

Text

Description of Damage of Ducts

--	--	--	--	--	--	--	--

Text

Degree of corrosion in Pre-stressing wires

--	--	--	--	--	--	--	--

Text

Element inspected but not measured

--	--	--	--	--	--	--	--

Condition Rating

--	--	--	--	--	--	--	--

**Overall Remarks**

--

## Detailed Format

### Condition Details - Superstructure

In RC Girder, PSC Girder, RC Box Girder, PSC Box Girder, Balanced Cantilever, Others

**The Number of Spans Displayed should be equal to "Total No.of Spans" as in "General Information sheet"**

S1	S2	S3	S4	S5	S----	S---	S---
----	----	----	----	----	-------	------	------

### Main Girders

#### Soundness

- Hit the Slab by hammer at a rate of 10 blow in 1sqm area. Hear the sound carefully

Metallic sound appears in a span

--	--	--	--	--	--	--	--

Text

Hollow Sound Appears

--	--	--	--	--	--	--	--

Text

(Note down the number of locations, sound where the hollow sound appears in a span)

#### Spalling / Dampness

Spalling of Concrete

--	--	--	--	--	--	--	--

Yes / No

Number of Spalls

--	--	--	--	--	--	--	--

Integer

Area of each spalling in sqm

--	--	--	--	--	--	--	--

Integer

Depth of each spalling in mm

--	--	--	--	--	--	--	--

Integer

Number of Locations in a span effected

--	--	--	--	--	--	--	--

Integer

#### Cracking

Cracking

--	--	--	--	--	--	--	--

Yes / No

Nature of Crack

--	--	--	--	--	--	--	--

Text

Length of the Cracks (m)

--	--	--	--	--	--	--	--

Integer

Width of the Cracks (mm)

--	--	--	--	--	--	--	--

Integer

Total Area of the Surface where the Crack appear in %age

--	--	--	--	--	--	--	--

Integer

Section of super-structure where the crack appeared

--	--	--	--	--	--	--	--

Text

(i.e. at side, at bottom etc.)

**Corrosion of Exposed Reinforcement**

Reinf Exposed and Corroded

--	--	--	--	--	--	--	--

Yes / No

Number of Location where the  
Reinf. is exposed

--	--	--	--	--	--	--	--

Integer

Location of the Corroded Reinf.

--	--	--	--	--	--	--	--

Text

Percentage of Corrosion Measured  
with respect to bar dia

--	--	--	--	--	--	--	--

Integer

Pit Corrosion

--	--	--	--	--	--	--	--

Yes / No

**Deflection**

No. Deflection Visible

--	--	--	--	--	--	--	--

Yes / No

Moderate Deflection (in mm)

--	--	--	--	--	--	--	--

Decimal

Excessive Deflection (in mm)

--	--	--	--	--	--	--	--

Decimal

**Addl. Details for PSC I Girders, PSC Box Girders****Anchorage**Anchorage Portion for Pre-  
stressing Damaged

--	--	--	--	--	--	--	--

Yes / No

Number of Damaged Anchor in a  
Span

--	--	--	--	--	--	--	--

Integer

Description of Damage

--	--	--	--	--	--	--	--

Text

Degree of Corrosion of the  
Anchorage end

--	--	--	--	--	--	--	--

Text

Description of Damage of Ducts

--	--	--	--	--	--	--	--

Text

Degree of corrosion in Pre-  
stressing wires

--	--	--	--	--	--	--	--

Text

Element inspected but not  
measured

--	--	--	--	--	--	--	--

Condition Rating

--	--	--	--	--	--	--	--

**Overall Remarks**

--	--	--	--	--	--	--	--

## Detailed Format

### Condition Details - Superstructure

In RC Girder, PSC Girder, RC Box Girder, PSC Box Girder, Balanced Cantilever, Others

**The Number of Spans Displayed should be equal to "Total No.of Spans" as in "General Information sheet"**

S1	S2	S3	S4	S5	S----	S---	S---
----	----	----	----	----	-------	------	------

### Cross Girders

### Soundness

- Hit the Slab by hammer at a rate of 10 blow in 1sqm area. Hear the sound carefully

Metallic sound appears in a span

--	--	--	--	--	--	--	--

Text

Hollow Sound Appears

--	--	--	--	--	--	--	--

Text

(Note down the number of locations, sound where the hollow sound appears in a span)

### Spalling / Dampness

Spalling of Concrete

--	--	--	--	--	--	--	--

Yes / No

Number of Spalls

--	--	--	--	--	--	--	--

Integer

Area of each spalling in sqm

--	--	--	--	--	--	--	--

Integer

Depth of each spalling in mm

--	--	--	--	--	--	--	--

Integer

Number of Locations in a span effected

--	--	--	--	--	--	--	--

Integer

### Cracking

Cracking

--	--	--	--	--	--	--	--

Yes / No

Nature of Crack

--	--	--	--	--	--	--	--

Text

Length of the Cracks (m)

--	--	--	--	--	--	--	--

Integer

Width of the Cracks (mm)

--	--	--	--	--	--	--	--

Integer

Total Area of the Surface where the Crack appear in %age

--	--	--	--	--	--	--	--

Integer

Section of super-structure where the crack appeared

--	--	--	--	--	--	--	--

Text

(i.e. at side, at bottom etc.)

**Corrosion of Exposed Reinforcement**

Reinf Exposed and Corroded

--	--	--	--	--	--	--	--

Yes / No

Number of Location where the  
Reinf. is exposed

--	--	--	--	--	--	--	--

Integer

Location of the Corroded Reinf.

--	--	--	--	--	--	--	--

Text

Percentage of Corrosion Measured  
with respect to bar dia

--	--	--	--	--	--	--	--

Integer

Pit Corrosion

--	--	--	--	--	--	--	--

Yes / No

**Deflection**

No. Deflection Visible

--	--	--	--	--	--	--	--

Yes / No

Moderate Deflection (in mm)

--	--	--	--	--	--	--	--

Decimal

Excessive Deflection (in mm)

--	--	--	--	--	--	--	--

Decimal

Element inspected but not  
measured

--	--	--	--	--	--	--	--

Condition Rating

--	--	--	--	--	--	--	--

**Overall Remarks**

--	--	--	--	--	--	--	--

## Detailed Format

### Condition Details - Superstructure

#### For Steel Structures - Bow String Arch, Steel Girder, Steel Truss, Others

*The Number of Spans Displayed should be equal to "Total No.of Spans" as in "General Information sheet"*

	S1	S2	S3	S4	S5	S----	S---	S---	
Type of Connection - Bolt / Rivet / Welding									Bolt / Rivet / Welding
Condition of Connection									Good/Fair/poor/Bad
Condn. of Steel Members									Good/Fair/poor/Bad
Condition of Paint									Good/Fair/poor/Bad
Dimension of Steel Member (L x B x Thick) (m)									Decial
Corrosion									Good/Fair/poor/Bad

### Corrosion of Exposed Reinforcement

Reinf Exposed and Corroded									Yes / No
Number of Location where the Reinf. is exposed									Integer
Location of the Corroded Reinf.									Text
Percentage of Corrosion Measured with respect to bar dia									Integer
Pit Corrosion									Yes / No

### Deflection

No. Deflection Visible									Yes / No
Moderate Deflection (in mm)									Decimal
Excessive Deflection (in mm)									Decimal

Element inspected but not measured								
Condition Rating								



**For Masonry Arch**

Number &amp; location of loose joints

--	--	--	--	--	--	--	--

Integer

Number of joints where loss of joint material identified

--	--	--	--	--	--	--	--

Integer

Number &amp; location of loose or shifted stones or bricks

--	--	--	--	--	--	--	--

Integer

Condition of plaster over masonry Abutment

--	--	--	--	--	--	--	--

Good/Fair/poor/Bad

Location &amp; number of splitting, cracking &amp; damaged stone or brick masonry

--	--	--	--	--	--	--	--

Text

Detail of vegetation growth at joints

--	--	--	--	--	--	--	--

Yes / No

Element inspected but not measured

--	--	--	--	--	--	--	--

Condition Rating

--	--	--	--	--	--	--	--

**Overall Remarks**

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### Detailed Format

### Condition Details - Bearings and Pedestals

**The Number of Piers Displayed should be Less than 1 to "Total No.of Spans" as in "General Information sheet", ex if the "Total No.of Spans" is shown as 9 then the Number of piers displayed should be 8**

[illegible]

**Bearing Pedestals**

Cracks in any component of bearing pedestal

--	--	--	--	--	--	--	--

Yes / No

Nature of Crack

--	--	--	--	--	--	--	--

Text

Width of the Cracks (mm)

--	--	--	--	--	--	--	--

Integer

Number of Cracks

--	--	--	--	--	--	--	--

Integer

Element inspected but not measured

--	--	--	--	--	--	--	--

Condition Rating

--	--	--	--	--	--	--	--

**Seismic Restrainer****Concrete Restrainer**

Cracks in the seismic restrainer

--	--	--	--	--	--	--	--

Yes / No

Spalling, delamination of concrete

--	--	--	--	--	--	--	--

Yes / No

Exposed, corroded reinforcement

--	--	--	--	--	--	--	--

Yes / No

Any part is broken

--	--	--	--	--	--	--	--

Yes / No

**Steel Restrainer**

Sign of dislodgement, movement, local buckling

--	--	--	--	--	--	--	--

Yes / No

Paint damage

--	--	--	--	--	--	--	--

Yes / No

Loose nuts, bolts, cracked weld etc.

--	--	--	--	--	--	--	--

Yes / No

Element inspected but not measured

--	--	--	--	--	--	--	--

Condition Rating

--	--	--	--	--	--	--	--

**Overall Remarks**

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**Detailed Format**

Condition Details - Foundation and Substructure: Abutment			
	A1	A2	
<b>Dirtwall / Abut. Cap</b>			
Deformation in Dirtwall / Abut. Cap			Yes / No
Cracks in Dirtwall / Abut. Cap			Yes / No
Radial Cracking in the bulges			Yes / No
Excessive Shear deformation			Yes / No
Element inspected but not measured			
Condition Rating			
<b>Substructure</b>			
Cracking			Yes / No
Location of cracks			Text
Nature of cracks			Text
Length of the Cracks (m)			Integer
Width of the Cracks (mm)			Integer
Percentage of visual surface cracked			Integer
Blockage of Weep Holes			Yes / No
<b>For Concrete Abutment</b>			
<b>Spalling</b>			
Spalling of Concrete			Yes / No
Number of spalls Location			Integer
Total Area of spalling (sqm)			Integer

**Reinforcement**

Reinf. Exposed and Corroded

Yes / No

Details of deterioration and corrosion of exposed reinforcement

Text

**For Masonry Abutment**

Number &amp; location of loose joints

Integer

Number of joints where loss of joint material identified

Integer

No.&amp; location of loose or shifted stones / bricks

Integer

Condition of plaster over masonry Abutment

Good/Fair/poor/Bad

Location &amp; number of splitting, cracking &amp; damaged stone or brick masonry

Text

Detail of vegetation growth at joints

Yes / No

Element inspected but not measured

Condition Rating

**Foundation and Settlement**

Foundation Scour

Yes / No

Settlement of Foundation

Yes / No

Observed settlement

Integer

*(i.e. overall or differential) dimension and nature of settlement at foundation location (cm)*

Observed dislodgement and damage of river bed protection work at foundation location

Yes / No

Impact of Floating Bodies on the abutment)

Yes / No

Element inspected but not measured

Condition Rating

**Overall Remarks**

## Detailed Format

### Condition Details - Foundation and Substructure: Pier

*The Number of Piers Displayed should be Less than 1 to "Total No.of Spans" as in "General Information sheet", ex if the "Total No.of Spans" is shown as 9 then the Number of piers displayed should be 8*

P1	P2	P3	P---	P---	P---	P---
----	----	----	------	------	------	------

#### Pier Cap

##### Cracking

Cracking

--	--	--	--	--	--	--

Yes / No

Width of Crack (mm)

--	--	--	--	--	--	--

Integer

Total Length of Crack (mm)

--	--	--	--	--	--	--

Integer

Percentage of visual surface cracked

--	--	--	--	--	--	--

Integer

##### Spalling

Spalling of Concrete

--	--	--	--	--	--	--

Yes / No

Total area of spalling (sqm)

--	--	--	--	--	--	--

Integer

Average depth of spalling (mm)

--	--	--	--	--	--	--

Integer

##### Reinforcement

Reinf Exposed and Corroded

--	--	--	--	--	--	--

Yes / No

Element inspected but not measured

--	--	--	--	--	--	--

Condition Rating

--	--	--	--	--	--	--



**Foundation and Settlement**

Foundation Scour

--	--	--	--	--	--	--

Yes / No

Settlement of Foundation

--	--	--	--	--	--	--

Yes / No

Observed settlement

--	--	--	--	--	--	--

Integer

*(i.e. overall or differential) dimension and nature of settlement at foundation location (cm)*Observed dislodgement and  
damage of river bed protection  
work at foundation location

--	--	--	--	--	--	--

Yes / No

Impact of Floating Bodies on the  
abutment)

--	--	--	--	--	--	--

Yes / No

Element inspected but not  
measured

--	--	--	--	--	--	--

Condition Rating

--	--	--	--	--	--	--

**Overall Remarks**

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**Detailed Format****Condition Details - Foundation and Substructure: Returnwall / Wingwall**

	At - A1	At - A2	
<b>Substructure</b>			
Partial Collapse of Return / Wing Wall			Yes / No
Cracking			Yes / No
Location of cracks			Text
Nature of cracks			Text
Length of the Cracks (m)			Integer
Width of the Cracks (mm)			Integer
Percentage of visual surface cracked			Integer
<b>For Concrete Returnwall / Wingwall</b>			
<b>Spalling</b>			
Spalling of Concrete			Yes / No
Number of spalls Location			Integer
Total Area of spalling (sqm)			Integer
<b>Reinforcement</b>			
Reinf. Exposed and Corroded			Yes / No
Details of deterioration and corrosion of exposed reinforcement			Text

**For Masonry Returnwall / Wingwall**

Number & location of loose joints	<input type="text"/>	<input type="text"/>	Integer
Number of joints where loss of joint material identified	<input type="text"/>	<input type="text"/>	Integer
No.& location of loose or shifted stones / bricks	<input type="text"/>	<input type="text"/>	Text
Condition of plaster over masonry Wing Wall / Returns	<input type="text"/>	<input type="text"/>	Good/Fair/poor/Bad
Location & number of splitting, cracking & damaged stone or brick masonry	<input type="text"/>	<input type="text"/>	Text
Detail of vegetation growth at joints	<input type="text"/>	<input type="text"/>	Text
Element inspected but not measured	<input type="text"/>	<input type="text"/>	
Condition Rating	<input type="text"/>	<input type="text"/>	

**Foundation and Settlement**

Foundation Scour	<input type="text"/>	<input type="text"/>	Yes / No
Settlement of Foundation	<input type="text"/>	<input type="text"/>	Yes / No
Observed settlement	<input type="text"/>	<input type="text"/>	Integer
<i>(i.e. overall or differential) dimension and nature of settlement at foundation location (cm)</i>			
Impact of Floating Bodies on the Returnwall	<input type="text"/>	<input type="text"/>	Yes / No

**Partial Collapse of Returnwall / Wing Wall**

Element inspected but not measured	<input type="text"/>	<input type="text"/>
Condition Rating	<input type="text"/>	<input type="text"/>

**Overall Remarks**

## Detailed Format

### Condition Details - Deck Surface

*The Number of Piers Displayed should be Less than 1 to "Total No.of Spans" as in "General Information sheet", ex if the "Total No.of Spans" is shown as 9 then the Number of piers displayed should be 8*

A1	P1	P2	P3	P---	P---	P---	A2
----	----	----	----	------	------	------	----

Expansion Joint - Damaged

--	--	--	--	--	--	--	--

Yes / No

Condition Rating

--	--	--	--	--	--	--	--

Approach Slab - Damaged

--	--	--	--	--	--	--	--

Yes / No

Condition Rating

--	--	--	--	--	--	--	--

*The Number of Spans Displayed should be equal to "Total No.of Spans" as in "General Information sheet"*

S1	S2	S3	S4	S5	S----	S---	S---
----	----	----	----	----	-------	------	------

Drainage Spouts

--	--	--	--	--	--	--	--

Integer

Condition Rating

--	--	--	--	--	--	--	--

Footpath

--	--	--	--	--	--	--	--

Integer

Condition Rating

--	--	--	--	--	--	--	--

Railing / Crash Barrier /  
Parapet - Len. Damaged (m)

--	--	--	--	--	--	--	--

Integer

Condition Rating

--	--	--	--	--	--	--	--

Wearing Coat

Cracking (sqm)

--	--	--	--	--	--	--	--

Integer

Depression (sqm)

--	--	--	--	--	--	--	--

Integer

Pot Holes (sqm)

--	--	--	--	--	--	--	--

Integer

Condition Rating

--	--	--	--	--	--	--	--

Service Lines - Damage to  
Structure

--	--	--	--	--	--	--	--

Integer

Condition Rating

--	--	--	--	--	--	--	--

**Overall Remarks**

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## Detailed Format

### Condition Details - Pipe Structure

#### For Pipes

Condition of Pipes

Good/Fair/poor/Bad

Condition Rating

#### ***For Headwall***

Partial Collapse of Headwall

Yes / No

#### ***For Concrete Headwall***

#### Spalling

Spalling of Concrete

Yes / No

Number of spalls Location

Integer

Total Area of spalling (sqm)

Integer

#### Reinforcement

Reinf. Exposed and Corroded

Yes / No

Details of deterioration and corrosion of exposed reinforcement

Text

#### ***For Masonry Headwall***

Number & location of loose joints

Integer

Number of joints where loss of joint material identified

Integer

No.& location of loose or shifted stones / bricks

Text

Condition of plaster over masonry Headwall

Good/Fair/poor/Bad

Location & number of splitting, cracking & damaged stone or brick masonry

Text

Detail of vegetation growth at joints

Text

Element inspected but not measured

Condition Rating

#### Overall Remarks

**Detailed Format**

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**Condition Details - Protection Works**

*Condition Rating*

Side Slope Pitching

Good/Fair/poor/Bad

Floor Protection

Good/Fair/poor/Bad

Blockages in Waterway

Good/Fair/poor/Bad

**Overall Remarks**