

## Schedule-H

(See Clause 10.1 (iv) and 19.3)

### Contract Price Weightages

1.1 The Contract Price for this Agreement is Rs -----

1.2 Proportions of the Contract Price for different stages of Construction of the Project Highway shall be as specified below:

Item	Weightage in percentage to the Contract Price	Stage for Payment	Percentage weightage
1	2	3	4
Road works including culverts, widening and repair of culverts.	20.57%	<b>A- Widening and strengthening of existing road</b>	
		(1) Earthwork up to top of the sub-grade	19.42%
		(2) Sub-base Course	8.49%
		(3) Non Bituminous Base Course	13.65%
		(4) Bituminous Base Course	5.20%
		(5) Wearing Coat	1.80%
		(6) Widening and repair of culvert	0.00%
		<b>B1- Reconstruction/ New 2-Lane realignment/bypass (Flexible Pavement)</b>	
		(1) Earthwork up to top of the sub-grade	18.95%
		(2) Sub-base Course	7.62%
		(3) Non Bituminous Base Course	5.89%
		(4) Bituminous Base Course	3.26%
		(5) Wearing Coat	1.40%
		<b>B2- Reconstruction/ New 2-Lane realignment/bypass (Rigid Pavement)</b>	
		(1) Earthwork up to top of the sub-grade	0.00%
		(2) Sub-base Course	0.00%
		(3) Dry Lean Concrete (DLC) Course	0.00%
		(4) Pavement Quality Control (PQC) Course	0.00%
		<b>C1- Reconstruction/ New Service Road (Flexible Pavement)</b>	
		(1) Earthwork up to top of the sub-grade	0.00%
		(2) Sub-base Course	0.00%
		(3) Non Bituminous Base Course	0.00%
		(4) Bituminous Base Course	0.00%
(5) Wearing Coat	0.00%		
<b>C2- Reconstruction/ New Service Road (Rigid Pavement)</b>			
(1) Earthwork up to top of the sub-grade	0.00%		
(2) Sub-base Course	0.00%		
(3) Dry Lean Concrete (DLC) Course	0.00%		

Item	Weightage in percentage to the Contract Price	Stage for Payment	Percentage weightage
		(4) Pavement Quality Control (PQC) Course	0.00%
		<b>D - Re-Construction and new culverts on existing road, realignments on existing road, realignments, bypasses:</b>	
		Culverts(Length<6m)	14.32%
Minor Bridges/Underpasses/ Overpasses	1.50%	<b><u>A1-Widening and Repairs of Minor Bridges (Length&gt;6m and &lt;60m)</u></b>	
		Minor bridges	0.0%
		<b><u>A2-New Minor Bridges (Length&gt;6m and &lt;60m)</u></b>	
		<b>(1) Foundation</b>	
		On completion of the foundation work including foundations for wing and return walls ,abutments, piers.	23.58%
		<b>(2) Sub-structure:</b>	
		On completion of abutments, piers upto the abutment/ pier cap including wing/ return/ retaining wall upto top	31.84%
		<b>(3) Super Structure:</b>	
		On completion of the super-structure in all respects including Girder, Deck slab, bearings	35.58%
		<b>(4) Approaches:</b>	
		On completion of approaches including Retaining walls, stone pitching, protection works complete in all respect and fit for use	9.00%
		<b>(5) Guide Bund and River Training Works:</b>	
		On completion of Guide Bund and River Training Works complete in all respect.	0.00%
<b>(6) Other Ancilliary Works:</b>			
On completion of wearing coat, expansion joints, hand rails, crash barriers, road signs & markings, tests on completion in all respect.	0.00%		
<b>B.1- Widening and repair of Underpasses/overpasses</b>			
Underpasses/Overpasses	0.00%		
<b>B.2- New Underpasses/overpasses</b>			

Item	Weightage in percentage to the Contract Price	Stage for Payment	Percentage weightage
		<b>(1) Foundation</b>	
		On completion of the foundation work including foundations for wing and return walls ,abutments, piers.	0.00%
		<b>(2) Sub-structure</b>	
		On completion of abutments, piers upto the abutment/ pier cap including wing/ return/ retaining wall upto top	0.00%
		<b>(3) Super Structure:</b>	
		On completion of the super-structure in all respects including Girder, Deck slab, bearings	0.00%
		Wearing Coat (a) in case of Overpass-wearing coat including expansion joint complete in all respect as specified and (b) in case of underpass rigid pavement including drainage facility complete in all respects as specified.	
		<b>(4) On completion of Retaining / Reinforced earth walls, complete in all respect and fit for use</b>	0.00%
		<b>(5) Approaches and other Ancillary Works:</b>	
On completion of wearing coat, expansion joints, hand rails, crash barriers, stone pitching, protection works, road signs & markings, tests on completion in all respect. Wearing Coat (a) in case of Overpass wearing coat including expansion joints complete in all respect as specified and (b) in case of underpass-rigid pavement including drainage facility complete in all respects as specified	0.00%		
Major Bridge (length>60m) works and RUB/ROB/elevated sections/flyovers including viaducts, if any	55.13%	<b><u>A.1 -Widening and repairs of Major Bridges</u></b>	
		(1) Foundation: on completion of the foundation work including foundations for return walls, abutments, piers	0.00%
		(2) Sub-structure: on completion abutments, piers upto the abutment/Pier	0.00%

Item	Weightage in percentage to the Contract Price	Stage for Payment	Percentage weightage
		cap	
		(3) Super-structure: On completion of the super-structure in all respects including girder,deck slab, bearings	0.00%
		(4) Wearing coat including expansion joints	0.00%
		(5) Miscellaneous items like hand rails, crash barriers, road markings etc.	0.00%
		(6) Wing walls/Return Walls	0.00%
		(7) Guide bunds, River Training Works etc	0.00%
		(8) Approaches (including retaining walls, stone pitching and protection works)	0.00%
		<b>A.2 -New Major Bridges</b>	
		(1) Foundation: on completion of the foundation work including foundations for return walls, abutments, piers	0.00%
		(2) Sub-structure: on completion abutments, piers upto the abutment/Pier cap	0.00%
		(3) Super-structure: On completion of the super-structure in all respects including girder,deck slab, bearings	0.00%
		(4) Wearing Coat including expansion joints	0.00%
		(5) Miscellaneous items like hand rails, crash barriers, road markings etc.	0.00%
		(6) Wing walls/Return Walls	0.00%
		(7) Guide bunds, River Training Works etc	0.00%
		(8) Approaches (including retaining walls, stone pitching and protection works)	0.00%
		<b>B.1-Widening and repair of</b>	
		<b>(a) ROB</b>	
		<b>(b) RUB</b>	
		(1) Foundation	0.00%
		(2) Sub-structure	0.00%
		(3) Super-structure (including bearings)	0.00%
		(4) Wearing Coat (a) in case of ROB - wearing coat including expansion joint complete in all respect as specified and (b) in case of RUB rigid pavement under RUB including drainage facility complete in all respects as specified.	0.00%
		(5) Miscellaneous items like hand rails, crash barriers, road markings etc.	0.00%
		(6) Wing walls/Return Walls	0.00%
		(7) Retaining/Reinforced earth walls	0.00%

Item	Weightage in percentage to the Contract Price	Stage for Payment	Percentage weightage		
		(8) Approaches and ancillary works (wearing coat, expansion joints, hand rails, crash barriers, road signs & markings, stone pitching, protection works etc.))	0.00%		
		<b>B.2-New ROB/RUB</b>			
		<b>(a) ROB</b>			
		<b>(b) RUB</b>			
		(1) Foundation		4.10%	
		(2) Sub-structure		0.92%	
		(3) Super-structure (including bearings)		4.64%	
			(4) Wearing Coat (a) in case of ROB - wearing coat including expansion joint complete in all respect as specified and (b) in case of RUB rigid pavement under RUB including drainage facility complete in all respects as specified.	0.20%	
			(5) Miscellaneous items like hand rails, crash barriers, road markings etc.	0.39%	
			(6) Wing walls/Return Walls	0.00%	
			(7) Retaining/Reinforced earth walls	0.00%	
			(8) Approaches and ancillary works (wearing coat, expansion joints, hand rails, crash barriers, road signs & markings, stone pitching, protection works etc.))	0.00%	
			<b>C.1- Widening and repair of Elevated Sections/Flyovers/Grade Separators</b>		
			(1) Foundation		0.00%
			(2) Sub-structure		0.00%
			(3) Super-structure (including bearings)		0.00%
			(4) Wearing Coat including expansion joints.		0.00%
			(5) Miscellaneous items like hand rails, crash barriers, road markings etc.		0.00%
			(6) Wing walls/Return Walls		0.00%
			(7) Retaining/Reinforced earth walls		0.00%
			(8) Approaches and ancillary works (wearing coat, expansion joints, hand rails, crash barriers, road signs & markings, stone pitching, protection works etc.))		0.00%
			<b>C.2.New Elevated Sections / Flyovers / Grade Separators</b>		
			(1) Foundation: On completion of the foundation work including foundations for wing and return walls, abutments, piers.		27.04%
			(2) Sub-structure: On completion of		30.25%

Item	Weightage in percentage to the Contract Price	Stage for Payment	Percentage weightage
		abutments, piers upto the abutment/pier cap including wing/return/retaining wall upto top	
		(3) Super-structure: On completion of the super structure in all respects including girder,deck slab,bearings	23.46%
		(4) Wearing Coat including expansion joints.	2.80%
		(5) Miscellaneous items like hand rails, crash barriers, road markings etc.	5.77%
		(6) Wing walls/Return Walls	0.00%
		(7) Retaining/Reinforced earth walls	0.00%
		(8) Approaches and ancillary works (wearing coat, expansion joints, hand rails, crash barriers, road signs & markings, stone pitching, protection works etc.))	0.44%
Other works	22.80%	(i) Toll Plaza	0.00%
		(ii)Road side drains	
		Lined Drain	5.63%
		Unlined Drain	0.21%
		(iii)Road signs, markings, km stones, safety devices, ...	1.41%
		(iv) Road Studs	1.00%
		(v) Project facilities	0.00%
		a) Bus bays	0.50%
		b) Truck lay bye	0.00%
		c) Rest Areas	0.00%
		d) Others (Includes junction and Site Clearance)	4.50%
		(vi) Retaining Wall	34.69%
		(vii) Breast Wall	17.87%
		(viii) RE Wall	30.62%
		(ix) Street Lighting	0.00%
		(x) Utility ducts	0.00%
		(xi) Boundary walls	0.00%
		(xii) ATMS	0.00%
		(xiii) Rain water harvesting	0.00%
		(xiv) Road side plantation including horticulture in wayside amenities	0.00%
		(xv) Repair of protection works other than approaches to the bridges, elevated sections/ flyovers/grade separators and ROBs/RUBs	0.00%
		(xvi)Safety and traffic management during construction	0.00%
		(xvii)Protection works like pitching on side slopes, chutes, crash barrier	3.57%

1.3 Procedure of estimating the value of work done.

1.3.1 Road works

Procedure for estimating the value of road work done shall be as follows:

**Table 1.3.1**

Stage of Payment	Percentage - weightage	Payment Procedure
<b>A- Widening and strengthening of existing road</b>		Unit of measurement is linear length. Payment of each stage shall be made on pro rata basis on completion of a stage in a length of not less than 10 (ten) percent of the total length.
(1) Earthwork up to top of the sub-grade	19.42%	
(2) Sub-base Course	8.49%	
(3) Non Bituminous Base Course	13.65%	
(4) Bituminous Base Course	5.20%	
(5) Wearing Coat	1.80%	
(6) Widening and repair of culvert	0.00%	Cost of completed culverts shall be determined pro rate with respect to the total number of culverts. Payment shall be made on the completion of atleast five culverts.
<b>B1- Reconstruction / New 2-Lane realignment / bypass (Flexible Pavement)</b>		Unit of measurement is linear length. Payment of each stage shall be made on pro rata basis on completion of a stage in full length or 5 (five) km length whichever is less.
(1) Earthwork up to top of the sub-grade	18.95%	
(2) Sub-base Course	7.62%	
(3) Non Bituminous Base Course	5.89%	
(4) Bituminous Base Course	3.26%	
(5) Wearing Coat	1.40%	
<b>B2- Reconstruction/ New 2-Lane realignment/bypass (Flexible Pavement)</b>		Unit of measurement is linear length. Payment of each stage shall be made on pro rata basis on completion of a stage in full length or 5 (five) km length whichever is less.
(1) Earthwork up to top of the sub-grade	0.00%	
(2) Sub-base Course	0.00%	
(3) Dry Lean Concrete (DLC) Course	0.00%	
(4) Pavement Quality Control (PQC) Course	0.00%	
<b>C1- Reconstruction/ New Service Road (Flexible Pavement)</b>		Unit of measurement is linear length. Payment of each stage shall be made on pro rata basis on completion of a stage in full length or 5 (five) km length whichever is less.
(1) Earthwork up to top of the sub-grade	0.00%	
(2) Sub-base Course	0.00%	
(3) Non Bituminous Base Course	0.00%	
(4) Bituminous Base Course	0.00%	
(5) Wearing Coat	0.00%	

Stage of Payment	Percentage - weightage	Payment Procedure
<b>C2- Reconstruction/ New Service Road (Rigid Pavement)</b>		Unit of measurement is linear length. Payment of each stage shall be made on pro rata basis on completion of a stage in full length or 5 (five) km length whichever is less.
(1) Earthwork up to top of the sub-grade	0.00%	
(2) Sub-base Course	0.00%	
(3) Dry Lean Concrete (DLC) Course	0.00%	
(4) Pavement Quality Control (PQC) Course	0.00%	
<b>D - Re-Construction and new culverts on existing road, realignments on existing road, realignments, bypasses:</b>		Cost of completed culverts shall be determined pro rate with respect to the total number of culverts. Payment shall be made on the completion of atleast five culverts.
Culverts(Length<6m)	14.32%	

@ For calculation of payment stage for main-carriageway the project length shall be converted into equivalent 2 lane length. For example, if the total length of 4 lane main carriageway is 100 km, then the equivalent length for calculation of payment stage will be 2 x 100 km. Now, if the total length of bituminous work to be done is 100 km, the cost per km of bituminous work shall be determined as follows:

Cost per km = P x weightage for road work x weightage for bituminous work x (1/L)

Where

P = Contract Price

L = Total equivalent 2-Lane length in km as defined above

Similarly, the rates per km for other stages shall be worked out accordingly

**Note: The length affected due to law and order problems or litigation during execution including the length not handed over to the Contractor under clause 8.3 of this Contract Agreement due to which the Contractor is unable to execute the work, may be deducted from the total project length for payment purposes. The total length calculated here is only for payment purposes and will not affect and referred in other clauses of the Contract Agreement.**

### 1.3.2 Minor Bridge and Underpasses/Overpasses

Procedure for estimating the value of Minor Bridge works and Underpasses/Overpasses shall be stated in table 1.3.2

**Table 1.3.2**

Stage of Payment	Percentage - weightage	Payment Procedure
<b>1</b>	<b>2</b>	<b>3</b>
<b><u>A1-Widening and Repairs of Minor Bridges (Length&gt;6m and &lt;60m)</u></b>	0.0%	Cost of each minor bridge shall be determined on pro rata basis with respect to the total linear length of the minor bridges. Payment shall be made on the completion of widening and repair works of a minor bridge.
<b><u>A2-New Minor Bridges</u></b>		

Stage of Payment	Percentage - weightage	Payment Procedure
<b>(i) Foundation:</b>		<b>(i) Foundation:</b> Cost of each minor bridge shall be determined on pro rata basis with respect to the total linear length (m) of the minor bridges. Payment against foundation+sub structure shall be made on pro rata basis on completion of a stage i.e. not less than 25% of the scope of foundation each bridge. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified
On completion of the foundation work including foundations for wing and return walls ,abutments, piers.	23.58%	
<b>(ii) Sub-structure:</b>		
On completion of abutments, piers upto the abutment/pier cap including wing/return/retaining wall upto top	31.84%	Sub-structure: Cost of each minor bridge shall be determined on pro- rata basis with respect to the total linear length (m) of the minor bridges. Payment against sub- structure shall be made on pro-rata basis on completion of a stage i.e. not less than 25% of the scope of sub-structure of each bridge.
<b>(iii) Super Structure:</b>		<b>(ii) Super Structure:</b>
On completion of the super structure in all respects including girder,deck slab,bearings	35.58%	Super-structure: Payment shall be made on pro-rata basis on completion of a stage i.e. completion of super structure of atleast one span in all respects as specified in the column of "Stage of Payment" in this sub- clause. In case of structures where pre-cast girders have been proposed by the Contractor, 50% of the stage payment shall be due and payable on casting of girders for each span and balance 50% of the stage payment shall be made on completion of stage specified as above
<b>(iv) Approaches:</b>		<b>(iii) Approaches:</b>
On completion of approaches including Retaining walls, stone pitching, protection works complete in all respect and fit for use	9.00%	Payment shall be made on pro rata basis on completion of a stage i.e. completion of approaches in all respect as specified in the column of " Stage of Payment" in this sub clause.
<b>(v) Guide Bund and River Training Works:</b>		<b>(iv) Guide Bund and River Training Works:</b>
On completion of Guide Bund and River Training Works complete in all respect.	0.00%	Payment shall be made on pro rata basis on completion of a stage i.e. completion of Guide Bunds and River Training Works in all respect as specified.
<b>(6) Other Ancillary Works:</b> On Completion of wearing coat,expansion joints, hand rails, crash barriers, road signs markings, tests on completion in all respect.	0.00%	Other Ancillary Works: Payment shall be made on pro-rata basis on completion of a stage in all respects as specified
<b>B.1- Widening and repair of Underpasses/overpasses</b>	0.00%	Cost of each overpass/underpass shall be determined on pro rata basis with respect to the total linear length of the underpass/overpass. Payment shall be made on the completion of

Stage of Payment	Percentage - weightage	Payment Procedure
		wiening & repair works of a underpass/overpass.
<b>B.2- New Underpasses/overpasses</b>		
<b>(i) Foundation:</b>		<b>(i) Foundation:</b> Cost of each minor bridge shall be determined on pro rata basis with respect to the total linear length (m) of the minor bridges. Payment against foundation+sub structure shall be made on pro rata basis on copletion of a stage i.e. not less than 25% of the scope of foundation each bridge. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified
On completion of the foundation work including foundations for wing and return walls ,abutments, piers.	0.00%	
<b>(ii) Sub-structure:</b>		
On completion of abutments, piers upto the abutment/pier cap including wing/return/retaining wall upto top	0.00%	Sub-structure: Cost of each minor bridge shall be determined on pro- rata basis with respect to the total linear length (m) of the minor bridges. Payment against sub- structure shall be made on pro-rata basis on completion of a stage i.e. not less than 25% of the scope of sub-structure of each bridge.
<b>(iii) Super Structure:</b>		<b>(ii) Super Structure:</b>
On completion of the super structure in all respects including girder,deck slab,bearings	0.00%	Super-structure: Payment shall be made on pro-rata basis on completion of a stage i.e. completion of super structure of atleast one span in all respects as specified in the column of "Stage of Payment" in this sub- clause. In case of structures where pre-cast girders have been proposed by the Contractor, 50% of the stage payment shall be due and payable on casting of girders for each span and balance 50% of the stage payment shall be made on completion of stage specified as above
<b>(iv) On completion of Retaining /Reinforced earth walls complete in all respect and fit for use</b>	0.00%	Payments shall be made on pro rata basis on completion of 20% of the total area.
<b>(iii) Approaches:</b>		<b>(iii) Approaches:</b>
On completion of approaches including Retaining Walls, stone pitching, protection works complete in all respect and fit for use	0.00%	Payment shall be made on pro rata basis on completion of a stage in all respect as specified

### 1.3.3 Major Bridge Works, ROB/RUB and Structures.

Procedure for estimating the value of Major Bridge Works, ROB/RUB and Structures work shall be as stated in table 1.3.3:

**Table 1.3.3**

<b>Stage of Payment</b>	<b>Percentage - weightage</b>	<b>Payment Procedure</b>
<b>1</b>	<b>2</b>	<b>3</b>
<b>A1-Widening and Repairs of Major Bridges</b>		
<b>(i) Foundation:</b> On completion of the foundation work including foundations for wing and return walls ,abutments,piers upto the abutment/pier cap	0.00%	<b>(i) Foundation:</b> Cost of each Major bridge shall be determined on pro rata basis with respect to the total linear length (m) of the Major bridges. Payment against foundation shall be made on pro rata basis on completion of a stage i.e. not less than 25% of the scope of foundation of Major Bridge subject to completion of atleast two foundations of the Major Bridge. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
<b>(ii) Sub Structure:</b> On completion of abutments, piers upto the abutment/pier cap including wing/ return/retaining wall upto top	0.00%	<b>(ii) Sub Structure:</b> Payment against sub structure shall be made on pro rata basis on completion of a stage i.e. not less than 25% of the scope of sub structure of Major Bridge subject to completion of atleast two sub structure of the abutment/pier upto abutment/pier cap level of the major bridge.
<b>(iii) Super Structure</b> On completion of the super structure in all respect including wearing coat, bearings, expansion joints, hand rails, crash barriers,road sign & markings, tests on completion etc. complete in all respect,	0.00%	<b>(iii) Super Structure:</b> Payment shall be made on pro rata basis on completion of a stage i.e. completion of super structure including bearings of atleast one span in all respect as specified.
<b>(iv) Wearing Coat including expansion joints.</b>		<b>Wearing Coat</b>
	0.00%	Payment shall be made on completion of wearing coat including expansion joints complete in all respect as specified.
<b>(v) Miscellaneous items like hand rails, crash barriers, road markings etc.</b>		<b>(v) Miscellaneous</b>
	0.00%	Payment shall be made on completion of all Miscellaneous works like hand rails, crash barriers, road markings etc.complete in all respect as specified.
<b>(vi) Wing walls/Return Walls</b>		<b>(vi) Wing walls/Return Walls</b>
	0.00%	Payment shall be made on completion of all Wing walls/Return Walls complete in all respect as specified.
<b>(vii) Guide bunds, River Training Works etc</b>		<b>(vii) Guide bunds, River Training Works etc</b>

Stage of Payment	Percentage - weightage	Payment Procedure
	0.00%	Payment shall be made on completion of all Guide bunds/River Training Works etc. complete in all respect as specified.
<b>(viii) Approaches (including retaining walls, stone pitching and protection works)</b>		<b>(viii) Approaches:</b>
	0.00%	Payment shall be made on completion of both approaches including stone pitching, protection works, etc. complete in all respects as specified.
<b>A2-New Major Bridges</b>		
<b>(i) Foundation:</b>		<b>(i) Foundation:</b> Cost of each Major bridge shall be determined on pro rata basis with respect to the total linear length (m) of the Major bridges. Payment against foundation shall be made on pro rata basis on completion of a stage i.e. not less than 25% of the scope of foundation of Major Bridge subject to completion of atleast two foundations of the Major Bridge. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
On completion of the foundation work including foundations for wing and return walls ,abutments, piers.	0.00%	
<b>(ii) Sub Structure:</b>		<b>(ii) Sub Structure:</b>
On completion of abutments, piers upto the abutment/pier cap including wing/return/retaining wall upto top	0.00%	Payment against sub structure shall be made on pro rata basis on completion of a stage i.e. not less than 25% of the scope of sub structure of Major Bridge subject to completion of atleast two sub structure of the abutment/pier upto abutment/pier cap level of the major bridge.
<b>(iii) Super Structure</b>		<b>(iii) Super Structure:</b>
On completion of the super structure in all respects including girder,deck slab,bearings	0.00%	Payment shall be made on pro rata basis on completion of a stage i.e. completion of super structure including bearings of atleast one span in all respect as specified.
<b>(iv) Wearing Coat including expansion joints.</b>		<b>Wearing Coat</b>
	0.00%	Payment shall be made on completion of wearing coat including expansion joints complete in all respect as specified.
<b>(v) Miscellaneous items like hand rails, crash barriers, road markings etc.</b>		<b>(v) Miscellaneous</b>
	0.00%	Payment shall be made on completion of all Miscellaneous works like hand rails, crash barriers, road markings etc. complete in all respect as specified.
<b>(vi) Wing walls/Return Walls</b>		<b>(vi) Wing walls/Return Walls</b>
	0.00%	Payment shall be made on completion of all Wing walls/Return Walls complete in all respect as specified.

Stage of Payment	Percentage - weightage	Payment Procedure
<b>(vii) Guide bunds, River Training Works etc</b>		<b>(vii) Guide bunds, River Training Works etc</b>
	0.00%	Payment shall be made on completion of all Guide bunds/River Training Works etc. complete in all respect as specified.
<b>(viii) Approaches (including retaining walls, stone pitching and protection works)</b>		<b>(viii) Approaches:</b>
	0.00%	Payment shall be made on completion of both approaches including stone pitching, protection works, etc. complete in all respects as specified.
<b>B1 - Widening and repairs of</b>		
<b>(a) ROB</b>		
<b>(b) RUB</b>		
<b>(i) Foundation:</b>	0.00%	<b>(i) Foundation:</b> Cost of each ROB/RUB shall be determined on pro rata basis with respect to the total linear length (m) of the ROB/RUB. Payment against foundation shall be made on pro rata basis on completion of a stage i.e. not less than 25% of the scope of foundation of ROB/RUB subject to completion of atleast two foundations of the ROB/RUB. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
On completion of the foundation work including foundations for wing and return walls ,abutments,piers upto the abutment/pier cap		
<b>(ii) Sub Structure:</b>		<b>(ii) Sub Structure:</b>
On completion of abutments, piers upto the abutment/pier cap including wing/ return/retaining wall upto top	0.00%	Payment against sub structure shall be made on pro rata basis on completion of a stage i.e. not less than 25% of the scope of sub structure of ROB/RUB subject to completion of atleast two sub structure of the abutment/pier upto abutment/pier cap level of the ROB/RUB.
<b>(iii) Super Structure</b>		<b>(iii) Super Structure:</b>
On completion of the super structure in all respect including wearing coat, bearings, expansion joints, hand rails, crash barriers,road sign & markings, tests on completion etc. complete in all respect,	0.00%	Payment shall be made on pro rata basis on completion of a stage i.e. completion of super structure including bearings of atleast one span in all respect as specified.
<b>(iv) Wearing Coat including expansion joints in case of ROB. In case of RUB, rigid pavement under RUB including drainage facility as specified.</b>		<b>(iv) Wearing Coat:</b>
	0.00%	Payment shall be made on completion of (a) in case of ROB - wearing coat including expansion joint complete in all respect as specified and (b) in case of RUB rigid pavement under RUB including drainage facility complete in all respects as specified.

Stage of Payment	Percentage - weightage	Payment Procedure
<b>(v) Miscellaneous items like hand rails, crash barriers, road markings etc.</b>		<b>(v) Miscellaneous</b>
	0.00%	Payment shall be made on completion of all Miscellaneous works like hand rails, crash barriers, road markings etc. complete in all respect as specified.
<b>(vi) Wing walls/Return Walls</b>		<b>(vi) Wing walls/Return Walls</b>
	0.00%	Payment shall be made on completion of all Wing walls/Return Walls complete in all respect as specified.
<b>(vii) Approaches (including retaining walls, stone pitching and protection works)</b>		<b>(viii) Approaches:</b>
	0.00%	Payment shall be made on completion of both approaches including stone pitching, protection works, etc. complete in all respects as specified.
<b>B2 - New</b>		
<b>(a) ROB</b>		
<b>(b) RUB</b>		
<b>(i) Foundation:</b>		<b>(i) Foundation:</b> Cost of each ROB/RUB shall be determined on pro rata basis with respect to the total linear length (m) of the ROB/RUB. Payment against foundation shall be made on pro rata basis on completion of a stage i.e. not less than 25% of the scope of foundation of ROB/RUB subject to completion of atleast two foundations of the ROB/RUB. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
On completion of the foundation work including foundations for wing and return walls ,abutments, piers.	4.10%	
<b>(ii) Sub Structure:</b>		<b>(ii) Sub Structure:</b>
On completion of abutments, piers upto the abutment/pier cap including wing/return/retaining wall upto top	0.92%	Payment against sub structure shall be made on pro rata basis on completion of a stage i.e. not less than 25% of the scope of sub structure of ROB/RUB subject to completion of atleast two sub structure of the abutment/pier upto abutment/pier cap level of the ROB/RUB.
<b>(iii) Super Structure</b>		<b>(iii) Super Structure:</b>
On completion of the super structure in all respects including girder,deck slab,bearings	4.64%	Payment shall be made on pro rata basis on completion of a stage i.e. completion of super structure including bearings of atleast one span in all respect as specified.
<b>(iv) Wearing Coat including expansion joints in case of ROB. In case of RUB, rigid pavement under RUB including drainage facility as specified.</b>		<b>(iv) Wearing Coat:</b>

Stage of Payment	Percentage - weightage	Payment Procedure
	0.2%	Payment shall be made on completion of (a) in case of ROB - wearing coat including expansion joint complete in all respect as specified and (b) in case of RUB rigid pavement under RUB including drainage facility complete in all respects as specified.
<b>(v) Miscellaneous items like hand rails, crash barriers, road markings etc.</b>		<b>(v) Miscellaneous</b>
	0.39%	Payment shall be made on completion of all Miscellaneous works like hand rails, crash barriers, road markings etc. complete in all respect as specified.
<b>(vi) Wing walls/Return Walls</b>		<b>(vi) Wing walls/Return Walls</b>
	0.00%	Payment shall be made on completion of all Wing walls/Return Walls complete in all respect as specified.
<b>(vii) Approaches (including retaining walls, stone pitching and protection works)</b>		<b>(viii) Approaches:</b>
	0.00%	Payment shall be made on completion of both approaches including stone pitching, protection works, etc. complete in all respects as specified.
<b>C1 - Widening and repairs of Elevated Section/Flyovers/ Grade Separators</b>		
<b>(i) Foundation:</b>	0.00%	<b>(i) Foundation:</b> Cost of each Structure shall be determined on pro rata basis with respect to the total linear length (m) of the structures. Payment against foundation shall be made on pro rata basis on completion of a stage i.e. not less than 25% of the scope of foundation of structures subject to completion of atleast two foundations of the structures. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
On completion of the foundation work including foundations for wing and return walls ,abutments,piers upto the abutment/pier cap		
<b>(ii) Sub Structure:</b>		<b>(ii) Sub Structure:</b>
On completion of abutments, piers upto the abutment/pier cap including wing/ return/retaining wall upto top	0.00%	Payment against sub structure shall be made on pro rata basis on completion of a stage i.e. not less than 25% of the scope of sub structure of structures subject to completion of atleast two sub structure of the abutment/pier upto abutment/pier cap level of the structures.
<b>(iii) Super Structure</b>		<b>(iii) Super Structure:</b>
On completion of the super structure in all respect including wearing coat, bearings, expansion joints, hand rails, crash barriers,road sign & markings, tests	0.00%	Payment shall be made on pro rata basis on completion of a stage i.e. completion of super structure including bearings of atleast one span in all respect as specified.

Stage of Payment	Percentage - weightage	Payment Procedure
on completion etc. complete in all respect.		
<b>(iv) Wearing Coat including expansion joints.</b>		<b>Wearing Coat</b>
	0.00%	Payment shall be made on completion of wearing coat including expansion joints complete in all respect as specified.
<b>(v) Miscellaneous items like hand rails, crash barriers, road markings etc.</b>		<b>(v) Miscellaneous</b>
	0.00%	Payment shall be made on completion of all Miscellaneous works like hand rails, crash barriers, road markings etc. complete in all respect as specified.
<b>(vi) Wing walls/Return Walls</b>		<b>(vi) Wing walls/Return Walls</b>
	0.00%	Payment shall be made on completion of all Wing walls/Return Walls complete in all respect as specified.
<b>(vii) Approaches (including retaining walls, stone pitching and protection works)</b>		<b>(viii) Approaches:</b>
	0.00%	Payment shall be made on completion of both approaches including stone pitching, protection works, etc. complete in all respects as specified.
<b>C2 - New Elevated Section/Flyovers/ Grade Separators</b>		
<b>(i) Foundation:</b>		<b>(i) Foundation:</b> Cost of each Structure shall be determined on pro rata basis with respect to the total linear length (m) of the structures. Payment against foundation shall be made on pro rata basis on completion of a stage i.e. not less than 25% of the scope of foundation of structures subject to completion of atleast two foundations of the structures. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
On completion of the foundation work including foundations for wing and return walls ,abutments, piers.	27.04%	
<b>(ii) Sub Structure:</b>		<b>(ii) Sub Structure:</b>
On completion of abutments, piers upto the abutment/pier cap including wing/return/retaining wall upto top	30.25%	Payment against sub structure shall be made on pro rata basis on completion of a stage i.e. not less than 25% of the scope of sub structure of structures subject to completion of atleast two sub structure of the abutment/pier upto abutment/pier cap level of the structures.
<b>(iii) Super Structure</b>		<b>(iii) Super Structure:</b>
On completion of the super structure in all respects including girder, deck slab, bearings	23.46%	Payment shall be made on pro rata basis on completion of a stage i.e. completion of super structure including bearings of atleast one span in all respect as specified.
<b>(iv) Wearing Coat including</b>		<b>Wearing Coat</b>

Stage of Payment	Percentage - weightage	Payment Procedure
expansion joints.		
	2.80%	Payment shall be made on completion of wearing coat including expansion joints complete in all respect as specified.
<b>(v) Miscellaneous items like hand rails, crash barriers, road markings etc.</b>		<b>(v) Miscellaneous</b>
	5.77%	Payment shall be made on completion of all Miscellaneous works like hand rails, crash barriers, road markings etc. complete in all respect as specified.
<b>(vi) Wing walls/Return Walls</b>		<b>(vi) Wing walls/Return Walls</b>
	0.00%	Payment shall be made on completion of all Wing walls/Return Walls complete in all respect as specified.
<b>(vii) Approaches (including retaining walls, stone pitching and protection works)</b>		<b>(viii) Approaches:</b>
	0.44%	Payment shall be made on completion of both approaches including stone pitching, protection works, etc. complete in all respects as specified.

#### 1.3.4 Other works.

Procedure for estimating the value of other works done shall be as stated in table 1.3.4:

**Table 1.3.4**

Stage of Payment	Weightage	Payment Procedure
<b>(i) Toll Plaza</b>	0.00%	Unit of measurement is each completed toll plaza. Payment of each toll plaza shall be made on pro rata basis with respect to the total of all toll plazas.
<b>(ii) Road side drains</b>		Unit of measurement is linear length in km. Payment shall be made on pro rata basis on completion of a stage in a length of not less than 10% (ten per cent) of the total length.
<b>Lined Drain</b>	5.63%	
<b>Unlined Drain</b>	0.21%	
<b>(iii) Road signs, markings, km stones, safety devices, etc.</b>	1.41%	
<b>(iv) Road Studs</b>	1.00%	
<b>(v) Project facilities</b>	0.00%	Payment shall be made on pro rata basis for completed facilities.
<b>a) Bus Bays</b>	0.50%	
<b>b) Truck Lay Bye</b>	0.00%	
<b>c) Rest Areas</b>	0.00%	
<b>d) Others</b>	4.5%	
<b>(vi) Retaining Wall / Breast wall</b>	34.69%/17.87%	Unit of measurement is linear length. Payment shall be made on pro-rata basis on completion of a stage in a length of not less than 10% (ten per cent) of the total length.
<b>(vii) RE Wall</b>	30.62%	Unit of measurement is linear length. Payment shall be made on pro-rata basis on completion of a stage in a length of not less than 10% (ten

<b>Stage of Payment</b>	<b>Weightage</b>	<b>Payment Procedure</b>
		per cent) of the total length.
<b>(viii) Street Lighting</b>	0.00%	Unit of measurement is linear length. Payment shall be made on pro rata basis on completion of a stage in a length of not less than 10% (ten per cent) of the total length.
<b>(ix) Utility ducts</b>	0.00%	
<b>(x) Boundary walls</b>	0.00%	
<b>(xi) ATMS</b>	0.00%	
<b>(xii) Rain water harvesting</b>	0.00%	
<b>(xiii) Road side plantation</b>	0.00%	
<b>(xiv) Repair of Protection works other than approaches to the bridges, elevated sections/ flyovers/ grade separators and ROBs/RUBs.</b>	0.00%	
<b>(xv) Safety and traffic management during construction</b>	0.00%	Payment shall be made on prorated basis every six months.
<b>(xvi) Protection works like pitching on side slopes, chutes, crash barrier</b>	3.57%	Unit of measurement is linear length. Payment shall be made on pro rata basis on completion of a stage in a length of not less than 10% (ten per cent) of the total length.

## **2. Procedure for payment for Maintenance**

2.1 The cost for maintenance shall be as stated in Clause 14.1(v).

2.2 Payment for Maintenance shall be made in quarterly installments in accordance with the provisions of Article 14 and Article 19.



