

Schedule-H
(See Clauses 10.1.4 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:

Table 1.2

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	61.55%	A- Widening and Strengthening of existing road	
		(1) Earthwork up to top of the sub-grade	10.76%
		(2) Sub-base Course	13.10%
		(3) Non Bituminous Base Course (WMM)	15.67%
		(4) Bituminous Base Course (DBM)	22.32%
		(5) Wearing Coat (BC)	9.23%
		(6) Widening & repair of culverts	3.59%
		(B) Reconstruction/ New 2-lane realignment/ bypass	
		(1) Earthwork up to top of the sub-grade	3.50%
		(2) Sub-base Course	3.12%
		(3) Non Bituminous Base Course	3.87%
		(4) Bituminous Base Course	7.16%
		(5) Wearing Coat	2.75%
		(C) Reconstruction/ New Service Road	
		(1) Earthwork up to top of the sub-grade	0.74%
		(2) Sub-base Course	0.83%
		(3) Non Bituminous Base Course (WMM)	1.06%
		(4) Bituminous Base Course (DBM)	1.12%
		(5) Wearing Coat (BC)	0.77%
		(D) Reconstruction and New culverts on existing road, realignments, bypasses:	
		Culverts (Length<6 m)	0.41%
Minor Bridges/ Underpasses/ Overpasses	4.47%	A.1- Widening and Repair of Minor Bridges (length>6m and <60 m)	
		Minor bridges	3.88%
		A.2- New Minor Bridges (length>6m and <60 m)	
		(1) Foundation + Sub- Structure: On completion of the foundation work including foundation for wing and return walls, abutments, piers upto abutment/pier cap.	15.20%
		(2) Super-structure: On completion of the super-structure in all respects including wearing coat, bearings, expansion joints, hand rails, crash barriers, road signs and markings, tests on completion etc. complete in all respects	7.11%
		(3) Approaches: On completion of approaches including Retaining Wall, Stone Pitching, Protection Works complete in all respects and fit for use	3.04%
		(4) Guide Bunds and River Training Works: On completion of Guide Bunds and River Training Works complete in all respects	0.00%

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		B- New Underpass/Overpass	
		(1) Foundation + Sub- Structure: On completion of the foundation work including foundation for wing and return walls, abutments, piers upto abutment/pier cap.	4.50%
		(2) Super-structure: On completion of the super-structure in all respects including wearing coat, bearings, expansion joints, hand rails, crash barriers, road signs and markings, tests on completion etc. complete in all respects Wearing Coat (a) in case of Overpass- wearing coat including expansion joints complete in all respects and (b) in case of Underpass- rigid pavement including drainage facility complete in all respects.	2.70%
		(3) Approaches: On completion of approaches including Retaining Wall/ Reinforced Earth Walls, Stone Pitching, Protection Works complete in all respects and fit for use	63.57%
Major Bridge (length > 60 m) works and ROB/RUB/elevated sections/flyovers including viaducts, if any	19.17%	A- Widening and repair of Major Bridges	
		(1) Foundation	1.04%
		(2) Substructure	0.52%
		(3) Superstructure (including bearings)	0.89%
		(4) Wearing Coat including expansion joints	0.95%
		(5) Miscellaneous items like hand rails, crash barriers, road markings etc.	0.07%
		(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- New Major Bridges	
		(1) Foundation	24.77%
		(2) Substructure	12.38%
		(3) Superstructure (including bearings)	33.91%
		(4) Wearing Coat including expansion joints	2.04%
		(5) Miscellaneous items like hand rails, crash barriers, road markings etc.	2.04%
		(6) Wing Walls/ return walls	2.04%
		(7) Guide bunds, River Training Works etc.	2.37%
		(8) Approaches (including Retaining Walls, stone pitching and protection works)	3.00%
		C- New Elevated Section/ Flyovers/ Grade Separators	
		(1) Foundation	0.28%
		(2) Substructure	0.39%
		(3) Superstructure (including bearings)	0.66%
		(4) Wearing Coat including expansion joints	0.88%
		(5) Miscellaneous items like hand rails, crash barriers, road markings etc.	0.90%
		(6) Wing Walls/ return walls	0.00%
		(7) Approaches (including Retaining Walls/Reinforced Earth Wall, stone pitching and protection works)	10.87%
Other works	14.81%	(i) Toll Plaza including CC Pavement	30.51%
		(ii) Road side Drains	21.01%
		(iii) Road signs, markings km stones, safety devices,	9.61%
		(iv) Project facilities	

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	a) Bus Bays	1.60%
	b) Truck Lay Bays	1.16%
	c) Rest Areas	0.00%
	d) Others (Junctions)	4.62%
	(v) Road side plantation	1.35%
	(vi) Repair of protection works other than approaches to the bridges, elevated sections/flyovers/grade separators and ROB/RUBs	6.28%
	(vii) Safety and traffic management during construction	1.69%
	(viii) Retaining wall	0.00%
	(ix) Repairs to bridges/structures	0.00%
	a) Providing wearing coat	0.72%
	b) Replacements of bearings, joints	1.07%
	c) Providing crash barriers	9.69%
	d) Other items (Junctions)	10.69%

1.3 Procedure for 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 for Payment	Percentage weightage	Payment Procedure
A- Widening and Strengthening of existing road		
(1) Earthwork up to top of the sub-grade	10.76%	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 not less than 10 (ten) percent of the total length.
(2) Sub-base Course	13.10%	
(3) Non Bituminous Base Course (WMM)	15.67%	
(4) Bituminous Base Course (DBM)	22.32%	
(5) Wearing Coat (BC)	9.23%	
(5) Widening & repair of culverts	3.59%	Cost of completed culverts shall be determined on pro rata with respect to the total number of culverts. The payment shall be made on the completion of at least five culverts
(B) Reconstruction/ New 2-lane realignment/ bypass		
(1) Earthwork up to top of the sub-grade	3.50%	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.
(2) Sub-base Course	3.12%	
(3) Non Bituminous Base Course (WMM)	3.87%	
(4) Bituminous Base Course (DBM)	7.16%	
(5) Wearing Coat (BC)	2.75%	
(C) Reconstruction/ New Service Road		
(1) Earthwork up to top of the sub-grade	0.74%	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.
(2) Sub-base Course	0.83%	
(3) Non Bituminous Base Course	1.06%	
(4) Bituminous Base Course	1.12%	
(5) Wearing Coat	0.77%	
(D) Reconstruction and New culverts on existing road, realignments, bypasses:		
Culverts (Length<6 m)	0.41%	Cost of each culvert shall be determined on

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		pro- rata basis with respect to the total number of culverts. Payment shall be made on the completion of at least five culverts.
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@ For example, 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:

$$\text{Cost per km} = P \times \text{weightage for road work} \times \text{weightage for bituminous work} \times (1/L)$$

Where P = Contract Price

L = Total length in km

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 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 Bridges and Underpasses/ Overpasses

Procedure for estimating the value of Minor bridge and Underpasses/ Overpasses shall be as stated in table 1.3.2:

Table 1.3.2

Stage for Payment	Weightage	Payment Procedure
A.1- Widening and Repair of Minor Bridges (length>6m and <60 m)	3.88%	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 a widening & repair works of a minor bridge.
A.2- New Minor Bridges		
(1) Foundation + Sub- Structure: On completion of the foundation work including foundation for wing and return walls, abutments, piers upto abutment/pier cap.	15.20%	(i) Foundation + Sub-Structure: Cost of each minor bridge shall be determined on pro rata basis with respect to the total linear length 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 + Sub-structure of each bridge subject to completion of at least two foundations along with sub-structure upto abutment/ pier cap level of each bridge. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
(2) Super-structure: On completion of the super-structure in all respects including wearing coat, bearings, expansion joints, hand rails, crash barriers, road signs and markings, tests on completion etc. complete in all respects	7.11%	(ii) Superstructure: 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.

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(3) Approaches: On completion of approaches including Retaining Wall, Stone Pitching, Protection Works complete in all respects and fit for use	3.04%	(iii) Approaches: 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.
(4) Guide Bunds and River Training Works: On completion of Guide Bunds and River Training Works complete in all respects	0.00%	(iv) Guide Bunds and River Training Works: 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 respects as specified.
B- New Underpass/Overpass		
(1) Foundation + Sub- Structure: On completion of the foundation work including foundation for wing and return walls, abutments, piers upto abutment/pier cap.	4.50%	(i) Foundation + Sub-Structure: Cost of each Underpass/Overpass shall be determined on pro rata basis with respect to the total linear length (m) of the Underpasses/Overpasses. 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 + Sub-structure of each Underpass/Overpass subject to completion of at least two foundations along with sub-structure upto abutment/ pier cap level of each Underpass/Overpass. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
(2) Super-structure: On completion of the super-structure in all respects including wearing coat, bearings, expansion joints, hand rails, crash barriers, road signs and markings, tests on completion etc. complete in all respects Wearing Coat (a) in case of Overpass- wearing coat including expansion joints complete in all respects and (b) in case of Underpass- rigid pavement including drainage facility complete in all respects.	2.70%	(ii) Superstructure: 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.
(3) Approaches: On completion of approaches including Retaining Wall/ Reinforced Earth Walls, Stone Pitching, Protection Works complete in all respects and fit for use	63.57%	(iii) Approaches: 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.

1.3.2 Major Bridge Works, ROB/RUB and Structures.

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

Table 1.3.3

Stage of payment	Weightage	Payment procedure
A- Widening and repair of Major Bridges		
(1) Foundation	1.04%	(i) Foundation: Cost of each Major Bridge shall be determined on pro rata basis with respect to the total linear length (m) of the

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		<p>Major Bridge. 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 the Major Bridge subject to completion of at least two foundations of the Major Bridge.</p> <p>In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.</p>
(2) Substructure	0.52%	(ii) Sub-structure: 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 the Major Bridge subject to completion of at least two sub-structure upto abutment/ pier cap level of the Major Bridge.
(3) Superstructure (including bearings)	0.89%	(iii) Superstructure: 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 respects as specified.
(4) Wearing Coat including expansion joints	0.95%	(iv) Wearing Coat: Payment shall be made on completion of wearing coat including expansion joints complete in all respects as specified
(5) Miscellaneous items like hand rails, crash barriers, road markings etc.	0.07%	(v) Miscellaneous: Payments shall be made on completion of all miscellaneous works like hand rails, crash barriers, road markings etc. complete in all respects as specified.
(6) Wing Walls/ return walls	0.00%	(vi) Wing Walls/ return walls: Payments shall be made on completion of all wing walls/ return walls complete in all respects as specified.
(7) Guide bunds, River Training Works etc.	0.00%	(vii) Guide bunds, River Training Works: Payments shall be made on completion of all guide bunds/river training works etc. complete in all respects as specified.
(8) Approaches (including Retaining Walls, stone pitching and protection works)	0.00%	(viii) Approaches: Payment shall be made on pro-rata basis on completion of both approaches including stone pitching, protection works etc. complete in all respect as specified.
B- New Major Bridges		
(1) Foundation	24.77%	<p>(i) Foundation: Cost of each Major Bridge shall be determined on pro rata basis with respect to the total linear length (m) of the Major Bridge. 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 the Major Bridge subject to completion of at least two foundations of the Major Bridge.</p> <p>In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.</p>

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(2) Substructure	12.38%	(ii) Sub-structure: 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 the Major Bridge subject to completion of at least two sub-structure upto abutments/ pier cap level of the Major Bridge.
(3) Superstructure (including bearings)	33.91%	(iii) Superstructure: 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 respects as specified.
(4) Wearing Coat including expansion joints	2.04%	(iv) Wearing Coat: Payment shall be made on completion of wearing coat including expansion joints complete in all respects as specified
(5) Miscellaneous items like hand rails, crash barriers, road markings etc.	2.04%	(v) Miscellaneous: Payments shall be made on completion of all miscellaneous works like hand rails, crash barriers, road markings etc. complete in all respects as specified.
(6) Wing Walls/ return walls	2.04%	(vi) Wing Walls/ return walls: Payments shall be made on completion of all wing walls/ return walls complete in all respects as specified.
(7) Guide bunds, River Training Works etc.	2.37%	(vii) Guide bunds, River Training Works: Payments shall be made on completion of all guide bunds/river training works etc. complete in all respects as specified.
(8) Approaches (including Retaining Walls, stone pitching and protection works)	3.00%	(viii) Approaches: Payment shall be made on pro-rata basis on completion of both approaches including stone pitching, protection works etc. complete in all respect as specified.
C- New Elevated Section/ Flyovers/ Grade Separators		
(1) Foundation	0.28%	(i) Foundation: 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 the Major Bridge subject to completion of at least two foundations of the structure. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
(2) Substructure	0.39%	(ii) Sub-structure: 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 the Structure subject to completion of at least two sub-structure upto abutments/ pier cap level of the Structure.
(3) Superstructure (including bearings)	0.66%	(iii) Superstructure: 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 respects as

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		specified.
(4) Wearing Coat including expansion joints	0.88%	(iv) Wearing Coat: Payment shall be made on completion of wearing coat including expansion joints complete in all respects as specified
(5) Miscellaneous items like hand rails, crash barriers, road markings etc.	0.90%	(v) Miscellaneous: Payments shall be made on completion of all miscellaneous works like hand rails, crash barriers, road markings etc. complete in all respects as specified.
(6) Wing Walls/ return walls	0.00%	(vi) Wing Walls/ return walls: Payments shall be made on completion of all wing walls/ return walls complete in all respects as specified.
(7) Approaches (including Retaining Walls/Reinforced Earth Wall, stone pitching and protection works)	10.87%	(vii) Approaches: Payment shall be made on pro-rata basis on completion of both approaches including stone pitching, protection works etc. complete in all respect as specified.

1.34 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
(i) Toll Plaza including CC Pavement	30.51%	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.
(ii) Road side Drains	21.01%	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.
(iii) Road signs, markings km stones, safety devices,	9.61%	
(iv) Project facilities		Payment shall be made on pro rata basis for completed facilities.
a) Bus Bays	1.60%	Payment shall be made for completed items
b) Truck Lay Bays	1.16%	
c) Rest Areas	0.00%	
d) Others (Junctions)	4.62%	
(v) Road side plantation	1.35%	
(vi) Repair of protection works other than approaches to the bridges, elevated sections/flyovers/grade separators and ROB/RUBs	6.28%	
(vii) Safety and traffic management during construction	1.69%	
(viii) Retaining wall	0.00%	
(ix) Repairs to bridges/structures	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.
a) Providing wearing coat	0.72%	Payment shall be made on pro rata basis every six months.
b) Replacements of bearings, joints	1.07%	
c) Providing crash barriers	9.69%	
d) Other items (Junctions)	10.69%	

2. Procedure for payment for Maintenance

2.1 The cost for maintenance shall be as stated in Clause 14.1.1.

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2.2 Payment for Maintenance shall be made in quarterly installments in accordance with the provisions of Clause 19.7.