

Schedule-H
(See Clauses 10.1.4 and 19.3)
Contract Price Weightages

- 1.1 The Contract Price for this Agreement is **Rs. Crore.**
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, minor bridges, Underpasses, overpasses, approaches to ROB/RUB/ Major Bridges/ Structures (excluding service roads)	48.668%	A- Widening and strengthening of existing road	
		(1) Earthwork up to top of the sub-grade	0.000%
		(2) Granular work (sub-base, base, shoulders)	0.000%
		(3) Dense Bituminous Macadam (DBM)	0.000%
		(4) Bituminous Concrete	0.000%
		(5) Widening and repair of culverts	0.000%
		(6) Widening and repair of minor bridges	0.014%
		B- New 4-lane realignment/bypass	
		(1) Earthwork up to top of the sub-grade	16.155%
		(2) Granular work (sub-base, base, shoulders)	19.262%
		(3) Dense Bituminous Macadam (DBM)	19.53%
		(4) Bituminous Concrete	8.524%
		(5) CC Pavement	0.000%
		C-New culverts, minor bridges, underpasses, overpasses on existing road, realignments, bypasses:	
		(1) Culverts	20.426%
		(2) Minor bridges	16.090%
Major Bridge works	20.798%	A-New major bridges	
		(1) Foundation	28.348%
		(2) Sub-structure	13.088%
		(3) Super-structure (including crash barriers etc. complete)	23.281%
		(4) Approaches (excluding RE wall)	0.963%
		A-New Viaduct	
		(1) Foundation	14.611%
		(2) Sub-structure	6.746%
		(3) Super-structure (including crash barriers etc. complete)	12.000%
		(4) Approaches (excluding RE wall)	0.963%
Other works	30.534%	(i) Service roads	0.000%
		(ii) Toll Plaza	0.000%
		(iii) Road side drains	0.055%
		(iv) Road signs, markings, km stones, Boundary stones, safety devices etc.	13.858%
		(v) Project facilities	8.692%

	(vi) Protection Works	75.355%
	(vii) Safety and traffic management during construction	0.664%
	(viii) Miscellaneous items (maintenance during construction, etc)	1.377%

- The above list is illustrative and may require modification as per the scope of the work.

1.3 Procedure of estimating the value of work done.

1.3.1 Road works including approaches to minor bridges, Major Bridges and Structures (excluding service roads).

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	0.000%	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.@
(2) Granular work (sub-base, base, shoulders)	0.000%	
(3) Dense Bituminous Macadam (DBM)	0.000%	
(4) Bituminous Concrete	0.000%	
(5) Widening and repair of culverts	0.000%	Cost of ten completed culverts shall be determined pro rata with respect to the total number of culverts. Payment shall be made on the completion of ten culverts.
(6)Widening and repair of minor bridges	0.014%	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 minor bridge.
B- New 4-lane realignment/bypass		
(1) Earthwork up to top of the sub-grade	16.155%	Unit of measurement is linear length for two lane. Payment of each stage shall be made on pro rata basis on completion of a stage in full length or 5 (five) km length.
(2) Granular work (sub-base, base, shoulders)	19.262%	
(3) Dense Bituminous Macadam (DBM)	19.53%	
(4) Bituminous Concrete	8.524%	
(5) CC Pavement	0.000%	
<u>B-New culverts, minor bridges, underpasses, overpasses on existing road, realignments, bypasses:</u>		
(1) Culverts	20.426%	Cost of each culvert shall be determined on pro- rata basis with respect to the total number of culverts. Payment shall be made on the completion of five culverts.
(2) Minor bridges	16.090%	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 minor bridge.

@ 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 stages (1), (2) and (4) above shall be worked out.

1.3.2 Major Bridge works

Procedure for estimating the value of Major Bridge works shall be as stated in table 1.3.2:

Table 1.3.2

Stage for Payment	Percentage weightage	Payment Procedure
A-New major bridges		
(1) Foundation: On completion of the foundation work including foundations for wing walls and return walls.	28.348%	Cost of each structure shall be determined on pro-rata basis with respect to the total linear length (m) of the structures. Payment shall be made on completion of each stage of a structure as per the weightage given in this table.
(2) Sub-structure: On completion of abutment, piers up to the abutment/ pier cap	13.088%	
(3) Super-structure: On completion of the super structure in all respects including hand rails/crash barriers, tests on completion etc., complete in all respects.	23.281%	
(4) Approaches: On completion of approaches (excluding retaining wall if any), filter media etc. and complete in all respects & fit for use.	0.963%	

1.3.3 Structures (Viaduct):

Stage for Payment	Percentage weightage	Payment Procedure
A-Viaduct		
(1) Foundation: On completion of the foundation work including foundations for wing walls and return walls.	14.611%	Cost of each structure shall be determined on pro-rata basis with respect to the total linear length (m) of the structures. Payment shall be made on completion of each stage of a structure as per the weightage given in this table.
(2) Sub-structure: On completion of abutment, piers upto the abutment/pier cap.	6.746%	
(3) Super-structure: On completion of the Structure along with super structure, including hand rails/crash barriers, tests on completion etc., elevated structure complete in all respects and fit for use.	12.000%	
(4) Approaches: On completion of approaches (excluding Reinforced earth wall if any), filter media etc. and complete in all respects & fit for use.	0.963%	

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 for Payment		Percentage weightage	Payment Procedure
(i) Service roads		0.000%	Unit of measurement is linear length in km. Cost per km shall be determined on pro rata basis with respect to the total length of the service roads. Payment shall be made for completed service road in a length of not less than 20% (twenty percent) of the total length of service roads.
(ii) Toll Plaza		0.000%	Unit of measurement is
(iii) Road side drains		0.055%	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.
(iv) Road signs, markings, km stones, Boundary stones, safety devices etc.		13.858%	
(v) Project facilities	(i) Bus byes	8.418%	Payment shall be made on pro-rata basis on completed facilities.
	(ii) Truck lay bye	0.273%	
(vi) Protection Works		75.355%	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.
(vii) Safety and traffic management during construction		0.664%	Payment shall be made on pro-rata basis on every six months.
(viii) Miscellaneous items (maintenance during construction, etc)		1.377%	Payment shall be made on pro rata basis on completed items.

1. Procedure for payment for Maintenance

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

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