

SCHEDULE - H (Modified)
(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:

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 (but excluding service roads)	20.44%	A- Widening and strengthening of existing road (1) Earthwork up to top of the sub-grade (2) Granular work (sub-base, base, shoulders) (3) Bituminous work (4) Widening and repair of culverts (5) Widening and repair of minor bridges B- New 2-lane realignment/bypass (1) Earthwork up to top of the sub-grade	[**] [**] [**] [**] [**] 6.05% 2.84%

Item	Weightage in percentage to the Contract Price	Stage for Payment	Percentage weightage
1	2	3	4
		(2) Granular work (sub-base, base, shoulders) (3) Bituminous work (4) CC Pavement C- New / Reconstruction of culverts, minor bridges, underpasses, overpasses on existing road, realignments, bypasses: (1) Culverts (2) Minor bridges (3) Cattle/Pedestrian underpasses (4) Pedestrian overpasses (5) Grade separated structures (a) Underpasses (b) Overpass	1.78% [**] 9.77% [**] [**] [**] [**] [**]
Major Bridge works and ROB/RUB	62.37%	A- Widening and repairs of Major Bridges (1) Foundation (2) Sub-structure (3) Super-structure (including crash barriers etc. complete) B- Widening and repair of (a) ROB (b) RUB C- New Major Bridges (1) Foundation (2) Sub-structure (3) Super-structure (including crash barriers etc. complete) D- New rail-road bridges (a) ROB (b) RUB	[**] [**] [**] [**] [**] 22.02% 10.11% 30.24% [**] [**]
Structures	[*****]	(1) Foundation	[**]

Item	Weightage in percentage to the Contract Price	Stage for Payment	Percentage weightage
1	2	3	4
(elevated sections, reinforced earth)		(2) Sub-structure (3) Super-structure (including crash barriers etc. complete) (4) Reinforced Earth	[**] [**] [**]
Other works	17.19%	(i) Service roads (ii) Toll Plaza (iii) Road side drains (iv) Road signs, markings, km stones, safety devices, fencing (v) Project facilities (vi) Repairs to bridges/structures a) Providing wearing coat b) Replacement of bearings, joints c) Providing crash barriers d) Other Items (vii) Road side plantation (viii) Retaining wall , Protection and road side furniture Works (ix) Safety and traffic management during construction	[**] [**] 1.15% 1.15% [**] [**] [**] [**] [**] [**] 0.68% 0.04% 13.44% 0.73%

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 of Payment	Percentage - weightage	Payment Procedure
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Stage of Payment	Percentage - weightage	Payment Procedure
A-Widening and strengthening		
(1) Earthwork up to top of the sub-grade	[**]	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)	[**]	
(3) Bituminous work	[**]	
(4) Widening and repair of culverts	[**]	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.
(5) Widening and repair of minor bridges	[**]	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 2-lane realignment, bypass		
(1)Earthwork up to top of the sub-grade	6.05%	Unit of measurement is linear length. Payment of each stage shall be made on pro rata basis on completion of a stage 10% of total length.
(2) Granular work (sub-base, base, shoulders)	2.84%	
(3) Bituminous work	1.78%	
(4) CC Pavement	[**]	
C- New / Reconstruction of culverts, minor bridges, underpasses, overpasses on existing road, realignments,		

Stage of Payment	Percentage - weightage	Payment Procedure
bypasses:		
(1) Culverts	9.77%	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 each culverts.
(2) Minor bridges	[**]	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
(3) Cattle/Pedestrian underpasses	[**]	Cost of each cattle/pedestrian underpass shall be determined on pro rata basis with respect to the total number of cattle/pedestrian underpasses. Payment shall be made on the completion of the number of cattle/pedestrian underpasses specified below: Total no. Stage for Payment: (i) 1 to 5 - on completion of all, (ii) 6 or more - on completion of five
(4) Pedestrian Overpasses	[**]	Same as for (3) above
(5) Grade separated structures	[**]	Same as for (3) above
(a) Underpasses	[**]	Same as for (3) above

Stage of Payment	Percentage - weightage	Payment Procedure
(b) Overpasses	[**]	

@. 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 and ROB/RUB.

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

Table 1.3.2

Stage of Payment	Weightage	Payment Procedure
A- Widening and repairs of Major Bridges		
Foundation: On completion of the foundation work including foundations for wing and return walls	[**]	Cost of each Major Bridge (widening and repairs) shall be determined on pro rata basis with respect to the total linear length (m) of the Major Bridges (widening and repairs). Payment shall be made on completion of each stage of a Major Bridge as per the weightage given in this table.
Sub-structure: On completion of abutments, piers up to the	[**]	

Stage of Payment	Weightage	Payment Procedure
abutment/pier cap		<p>Cost of each ROB/RUB (widening and repairs) shall be determined on pro rata basis with respect to the total linear length (m) of the ROB/RUB (widening and repairs). Payment shall be made on completion of an ROB/RUB</p> <p>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 shall be made on completion of each stage of a Major Bridge as per the weightage given in table 1.3.3 here in under.</p>
Super-structure: On completion of the super structure in all respects including hand rails/crash barriers, wing walls, return walls, guide bunds, if any, tests on completion etc., bridge complete in all respects and fit for use.	[**]	
B- Widening and repairs of	[**]	
(a) ROB	[**]	
(b) RUB		
B- New Major Bridges		
(1) Foundation: On completion of the foundation work including foundations for wing and return walls	22.02%	
(2) Sub-structure: On completion of abutments, piers up to the abutment/pier cap	10.11%	
(3) Super-structure: On completion of the super structure in all respects including hand rails/crash barriers, wing walls, return walls, guide bunds, if	30.24%	

Stage of Payment	Weightage	Payment Procedure
<p>any, tests on completion etc., complete in all respects and fit for use</p> <p>C- New Rail-road bridges</p> <p>(a) ROB</p> <p>(b) RUB</p>	<p>[**]</p> <p>[**]</p>	<p>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 shall be made on completion of an ROB/RUB</p>

1.3.3 Structures

Procedure for estimating the value of structure work shall be as stated in table 1.3.3:

Table 1.3.3

Stage of payment	Weightage	Payment procedure
<p>(1) Foundation: On completion of the foundation works including foundations for wing and return walls</p>	<p>22.02%</p>	<p>Payment shall be made to the contractor on prorated basis for intermediate stage of completion for individual components. For example, if the overall percentage allotted for foundation for a particular bridge is 5% & if the contractor has completed 3 out of 5 foundations, he should be paid for 3 foundations i.e. 3% in IPC.</p>

Stage of payment	Weightage	Payment procedure
(2) Sub-structure: On completion of abutments, piers up to the abutment/pier cap	10.11%	In substructure, if the overall percentage allotted to Sub structure (pier/Abutment) of a particular bridge is 10%, the percentage for Pier/Abutment and Pier/Abutment cap should be split up in 70:30 ratio i.e. if the contractor has completed 3 piers out of 5 piers and 2 pier caps out of 5 then he should be paid $(7\% \times 3/5)$ 42% for piers and $(3\% \times 2/5)$ 1.2% for pier caps.
(3) Super-structure: On completion of the Structure along with super structure, including hand rails/crash barriers, wing walls, return walls, tests on completion etc., elevated structure complete in all respects and fit for use.	30.24%	Similarly, in case of super structure, he should get paid prorata for nos. of girders casted and no. of span completed.
(4) Reinforced earth work	[**]	Payment shall be made on pro rata basis on completion of 25 (twenty five) percent of total area.

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
(i) Service roads	[**]	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	[**]	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.
(iii) Road side drains	1.15%	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, safety devices, fencing etc.	1.15%	
(v) Project Facilities		Payment shall be made on pro rata basis for completed facilities.
a) Bus bays	[**]	
b) Truck lay-byes	[**]	
c) Rest areas	[**]	
d) others	[**]	
(vi) Repairs to existing bridges/structures		Payment shall be made for completed items.
a) Providing wearing coat	[**]	
b) Replacement of		

Stage of Payment	Weightage	Payment Procedure
bearing, joints	[**]	
c) Providing crash barriers	[**]	
(d) Other Items	0.68%	
(vii) Roadside plantation	0.04%	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.
(viii) Retaining wall, Protection and Road side furniture works	13.44%	
(ix) Safety and traffic management during construction	0.73%	Payment shall be made on prorata basis every six months.

2. 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.

