

## 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:

ITEM	WEIGHTAGE IN PERCENTAGE TO THE CONTRACT PRICE	STAGE FOR PAYMENT	PERCENTAGE WEIGHTAGE	PERCENTAGE WEIGHTAGE vis a vis overall Project
1	2	3	4	5
Road works including culverts, minor bridges, underpasses, overpasses, approaches to ROB/RUB/ Major Bridges/ Structures (but excluding service roads/slip roads)	62%	<b>A-Widening and Strengthening</b>		
		(1) Earthwork up to top of the sub-grade including excavation in soil, soft rock and hard rock.	0.00%	0.0000%
		(2) Granular work (sub- base, base, shoulders)	0.00%	0.0000%
		(3) Bituminous work	0.00%	0.0000%
		a) DBM	0.00%	0.0000%
		b) BC	0.00%	0.0000%
		(4) Concrete Pavement	0.00%	0.0000%
		(5) Site Clearance	0.00%	0.0000%
		(6) Widening and repair of culverts	0.00%	0.0000%
		(7) Protection of existing works	0.00%	0.0000%
		(8) Widening and repair of minor bridges	0.00%	0.0000%
		<b>B- New 2-lane alignment</b>		
		1 (a) Earthwork up to top of the sub-grade including excavation in soil, soft rock and hard rock.	55.22%	29.75%
		1(b) Rectification Work	2.97%	2.14%
		(2) Granular work (sub- base, base, shoulders)	8.19%	5.9%
		(3) Bituminous work		
		a) DBM	5.51%	3.97%
		b) BC	3.03%	2.18%
		(4) CC Pavement	0.00%	0.0000%
		(5) Protection Works	0.00%	0.0000%

ITEM	WEIGHTAGE IN PERCENTAGE TO THE CONTRACT PRICE	STAGE FOR PAYMENT	PERCENTAGE WEIGHTAGE	PERCENTAGE WEIGHTAGE vis a vis overall Project
1	2	3	4	5
		(6) RCC / Reinf. Earth ret wall in approaches of RoB	0.00%	0.0000%
		(7) Drainage Works	0.00%	0.0000%
		(8) Clearing & Grubbing	0.01%	0.0100%
		(9) Protection works	0.00%	0.0000%
		<b>C- New culverts, minor bridges, underpasses, overpasses on existing road, realignments, bypasses:</b>		
		(1) Box / Slab Culverts	25.07%	18.05%
		(2) HP Culverts	0.00%	0.0000%
		(3) Embankment Protection (New Lane)	0.00%	0.0000%
		(4) Grade Separated structures	0.00%	0.0000%
		(5) Overpasses	0.00%	0.0000%
		(6) Elephant underpass	0.00%	0.0000%
		(7) Approaches to ROB and Viaduct	0.00%	0.0000%
		(8) Minor bridges	0.00%	0.0000%
		(9) Cattles/Pedestrian Underpasses	0.00%	0.0000%
		(10) Vehicular Underpasses	0.00%	0.0000%
<b>Major Bridge works and ROB/RUB</b>	<b>23.83%</b>	<b>A- Widening and repairs of Major Bridges</b>		
		(1) Foundation	0.00%	0.0000%
		(2) Sub-structure	0.00%	0.0000%
		(3) Super-structure (including wearing coat, crash barriers etc. complete in all respect )	0.00%	0.0000%
		<b>B- Widening and repair of</b>		
		(a) ROB	0.00%	0.0000%
		(b) RUB	0.00%	0.0000%
		<b>C- New Major Bridges</b>		
		(1) Other Miscellaneous Items	0.00%	0.0000%
		(2) Guide Bund	0.00%	0.0000%
		(3) Foundation	45.00%	10.72%

ITEM	WEIGHTAGE IN PERCENTAGE TO THE CONTRACT PRICE	STAGE FOR PAYMENT	PERCENTAGE WEIGHTAGE	PERCENTAGE WEIGHTAGE vis a vis overall Project
1	2	3	4	5
		(4) Sub-structure	25.00%	5.96%
		(5) Super-structure (including wearing coat, crash barriers etc. complete in all respect )	30.00%	7.15%
		(6) Protection Works	0.00%	0.0000%
		<b>D- New rail-road</b>		
		<b>bridge including Viaduct</b>		
		(a) ROB	0.00%	0.0000%
		(b) RUB	0.00%	0.0000%
<b>Structures (elevated sections, reinforced earth)</b>	<b>0.00%</b>	<b>(1) Foundation</b>	0.00%	0.0000%
		<b>(2) Sub-structure</b>	0.00%	0.0000%
		<b>(3) Super-structure (including crash barriers etc. complete)</b>	0.00%	0.0000%
		<b>(4) Reinforced Earth</b>	0.00%	0.0000%
<b>Other Works</b>	<b>14.17%</b>	<b>Other Engineering Works</b>		
		Major Junction	0.00%	0.0000%
		Road Marking	0.00%	0.0000%
		Road Appurtenances	0.00%	0.0000%
		Road Side plantation	0.00%	0.0000%
		Protection works	0.00%	0.0000%
		Service roads/slip road	0.00%	0.0000%
		Toll Plaza	0.00%	0.0000%
		Road side drains & toe wall	4.54%	0.6433%
		Project facilities	0.09%	0.0129%
		Safety & traffic mgmt. During construction	0.00%	0.0000%
		Traffic Sign, KM Stone	0.36%	0.0510%
		Pavement marking, Painting	0.99%	0.1403%
		Crash barrier/ W metal crash barrier	4.13%	0.5852%
		Boundary stone, km stone,5th km stone, &hectometre stones	0.03%	0.0043%
		Traffic blinker LED Delineator, stud, reflective payment marker, tree	0.34%	0.0482%

ITEM	WEIGHTAGE IN PERCENTAGE TO THE CONTRACT PRICE	STAGE FOR PAYMENT	PERCENTAGE WEIGHTAGE	PERCENTAGE WEIGHTAGE vis a vis overall Project
1	2	3	4	5
		reflector		
		Traffic Island	0.00%	0.0000%
		Median Kerbs	0.00%	0.0000%
		Bus Bays & Bus shelter	0.87%	0.1233%
		Road side plantation & medium Plantatio	0.00%	0.0000%
		Protection works of guide bund including construction of flexible aprons , boulder pitching and filter media on slopes	0.00%	0.0000%
		Minor junction	1.58%	0.2239%
		Median filling shrub plantation & maintenance for 1 year	0.00%	0.0000%
		Overhead signboard	0.43%	0.0609%
		painting on kerb	0.00%	0.0000%
		Footpath & Separater	0.00%	0.0000%
		Vetiver Plantation	0.00%	0.0000%
		Interlocking concrete block payment	0.00%	0.0000%
		CC kerb	0.00%	0.0000%
		Painting	0.00%	0.0000%
		Cable duct	0.00%	0.0000%
		Solar stud & solar blinking LED	0.00%	0.0000%
		Rest area with development of site including One no Bus bay and Bus shelter, landscaping and tree plantation	0.00%	0.0000%
		For Plantation (Hydro seeding & plantation on hill slopes as slope protection measures)	6.88%	0.9749%
		Traffic control devices and road safety works (Polymer rumble strips on hazardous locations specially valley side curves)	1.38%	0.1955%

ITEM	WEIGHTAGE IN PERCENTAGE TO THE CONTRACT PRICE	STAGE FOR PAYMENT	PERCENTAGE WEIGHTAGE	PERCENTAGE WEIGHTAGE vis a vis overall Project
1	2	3	4	5
		Road furniture	0.00%	0.0000%
		Roads side drains I/C Chute drain	0.00%	0.0000%
		Repair of protections works	0.00%	0.0000%
		Traffic diversion, Safety and traffic management during construction	0.00%	0.0000%
		Retaining wall	0.00%	0.0000%
		Miscellaneous items	0.00%	0.0000%
		Breast wall and RCC retaining wall	0.00%	0.0000%
		Site Clearance	0.00%	0.0000%
		M-20 kerb with channel	0.00%	0.0000%
		Prefabricated railing over kerb in median	0.00%	0.0000%
		Safety Barrier	0.00%	0.0000%
		<b>(v) Project facilities</b>		
		(a) Truck lay-byes	0.00%	0.0000%
		(b) others	0.00%	0.0000%
		<b>(vi) Repairs to bridges/structures</b>		
		Other items (Junctions	0.00%	0.0000%
		Providing wearing coat	0.00%	0.0000%
		Replacement of bearing joints	0.00%	0.0000%
		Providing crash barriers	0.00%	0.0000%
				0.0000%
		<b>(vii) Protection works</b>		
		Breast wall	29.57%	4.1901%
		RCC Retaining wall	32.97%	4.6718%
		Gabion Wall	4.51%	0.6391%
		Parapet	6.01%	0.8516%
		Slope Protection at Land Slide locations.	5.33%	0.7553%
			300.00%	100.00%

### 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 vis a vis overall Project	PAYMENT PROCEDURE
<b>A-Widening and Strengthening</b>		
(1) Earthwork up to top of the sub-grade including excavation in soil, soft rock and hard rock.	0.00%	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 5 (five) percent of the total length.
(2) Granular work (sub- base, base, shoulders)	0.00%	
(3) Bituminous work		
a) Prime & Tack Coat	0.00%	
b) DBM	0.00%	
c) BC	0.00%	
(4) Concrete Pavement	0.00%	
(5) Site Clearance	0.00%	
(6) Widening and repair of culverts	0.00%	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 five culverts.
(7) Protection of existing works	0.00%	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 5 (five) percent of the total length.
(8) Widening and repair of minor bridges	0.00%	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>B- New 2-lane alignment</b>		
1(a) Earthwork up to top of the sub-grade including excavation in soil, soft rock and hard rock.	29.75%	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 05 (five) percent of total length.
1(b) Rectification Work	2.14%	
(2) Granular work (sub- base, base, shoulders)	5.90%	
(3) Bituminous work	0.00%	
a) Prime & Tack Coat	0.00%	
b) DBM	3.97%	
c) BC	2.18%	
(4) CC Pavement	0.00%	
(5) Protection Works	0.00%	

STAGE OF PAYMENT	PERCENTAGE WEIGHTAGE vis a vis overall Project	PAYMENT PROCEDURE
(6) RCC / Reinf. Earth ret wall in approaches of RoB	0.00%	
(7) Drainage Works	0.00%	
(8) Clearing & Grubbing	0.0100%	
(9) Protection works	0.00%	
<b>C- New culverts, minor bridges, underpasses, overpasses on existing road, realignments, bypasses:</b>		
(1) Box / Slab Culverts	18.05%	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) HP Culverts	0.00%	
(3) Embankment Protection (New Lane)	0.00%	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.
(4) Grade Separated structures	0.00%	Cost of each structure shall be determined on pro rata basis with respect to the total number of structures. Payment shall be made on the completion of each number of structures specified.
(5) Overpasses	0.00%	
(6) Elephant underpasses	0.00%	
(7) Approaches to ROB and Viaduct	0.00%	
(8) Minor bridges	0.00%	Cost of each minor bridge/Culvert shall be determined on pro rata basis with respect to the total linear length of the minor bridges/culvert. Payment shall be made on the completion of a minor bridge/culvert.
(9) Cattles/Pedestrian Underpasses	0.00%	Cost of each structure shall be determined on pro rata basis with respect to the total number of structures. Payment shall be made on the completion of each number of structures specified.
(10) Vehicular Underpasses	0.00%	

@. 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:

Cost per km = P x weightage for bituminous work x (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 Procedure of estimating the value of work done

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 at overall Project	PAYMENT PROCEDURE
<b>A- Widening and repairs of Major Bridges</b>		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.
(1) Foundation	0.00%	
(2) Sub-structure	0.00%	
(3) Super-structure (including crash barriers etc. complete)	0.00%	
<b>B- Widening and repair of</b>		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
(a) ROB	0.00%	
(b) RUB	0.00%	
<b>C- New Major Bridges</b>		Payment shall be made on pro rata basis on completion of 25 (twenty five) percent of each stage of a Major Bridge as per the weightage given in this table.
(1) Other Miscellaneous Items	0.00%	
(2) Guide Bund	0.00%	
(3) Foundation	10.72%	
(4) Sub-structure	5.96%	
(5) Super-structure (including crash barriers etc. complete)	7.1500%	
(6) Protection Works	0.00%	
<b>D- New rail-road bridge</b>		Payment shall be made on pro rata basis on completion of 25 (twenty five) percent of each stage of a ROB/RUB as per the weightage given in this table.
(a) ROB	0.00%	
(b) RUB	0.00%	



**TABLE: 1.3.3**

STAGE OF PAYMENT	PERCENTAGE WEIGHTAGE vis a vis overall Project	PAYMENT PROCEDURE
(1) Foundation: On completion of the foundation works including foundations for wing and return walls	0.00%	Cost of each structure shall be determined on pro rata basis in respect to the total linear length (m) of all 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 abutments, piers up to the abutment/pier cap	0.00%	
(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.	0.00%	
(4) Reinforced earth work	0.00%	Payment shall be made on pro rata basis on completion of 20 (twenty) 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	PERCENTAGE WEIGHTAGE vis a vis overall Project	PAYMENT PROCEDURE
<b>Other Engineering Works</b>		
Major Junction	0.00%	Payment shall be made on pro rata basis for completed facilities.
Road Marking	0.00%	
Road Appurtenances	0.00%	
Road Side plantation	0.00%	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/slip roads. Payment shall be made for completed
Protection works	0.00%	

Service roads/slip road	0.00%	service roads/slip roads in a length of not less than 20 (twenty) percent of the total length of service roads/slip roads.
Toll Plaza	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.
Road side drains & toe wall	0.6433%	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 5 (five) percent of the total length.
Project facilities	0.0129%	Payment shall be made for completed items.
Safety & traffic mgmt. During construction	0.00%	
Traffic Sign	0.0510%	
Pavement marking	0.1403%	
Crash barrier/ W matel crash barrier	0.5852%	
Boundary stone, km stone, 5th km stone, & hectometre stones	0.0043%	
Traffic blinker LED Delineator, stud, reflective payment marker,	0.0482%	

STAGE OF PAYMENT	PERCENTAGE WEIGHTAGE vis a vis overall Project	PAYMENT PROCEDURE
tree reflector		
Traffic Island	0.00%	
Median Kerbs	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) percent of the total length.
Bus Bays & Bus shelter	0.1233%	Payment shall be made for completed items.
Road side plantation & medium Plantation	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) percent of the total length.
Protection works of guide bund including construction of flexible aprons , boulder pitching and filter media on slopes	0.00%	
Minor junction	0.2239%	Payment shall be made for completed items.
Median filling shrub plantation & maintenance for 1 year	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 5 (five) percent of the total length.
Overhead signboard	0.0609%	
painting on kerb	0.00%	
Footpath & Separator	0.00%	
Vetiver Plantation	0.00%	
Interlocking concrete block payment	0.00%	
CC kerb	0.00%	
Painting	0.00%	
Cable duct	0.00%	
Solar stud & solar blinking LED	0.00%	
Rest area with development of site including One no Bus bay and Bus shelter, landscaping and tree plantation	0.00%	
For Plantation (Hydro seeding & plantation on hill slopes as slope protection measures)	0.9749%	
Traffic control devices and road safety works (Polymer rumble strips on hazardous locations specially valley side curves)	0.1955%	

STAGE OF PAYMENT	PERCENTAGE WEIGHTAGE vis a vis overall Project	PAYMENT PROCEDURE
Road furniture	0.00%	
Roads side drains I/C Chute drain	0.00%	
Repair of protections works	0.00%	
Traffic diversion, Safety and traffic management during construction	0.00%	
Retaining wall	0.00%	
Miscellaneous items	0.00%	
Breast wall and RCC retaining wall	0.00%	
Site Clearance	0.00%	
M-20 kerb with channel	0.00%	
Prefabricated railing over kerb in median	0.00%	
Safety Barrier	0.00%	
<b>(v) Project facilities</b>		
(a) Truck lay-byes	0.00%	Payment shall be made for completed items.
(b) others	0.00%	
<b>(vi) Repairs to bridges/structures</b>		
Other items (Junctions)	0.00%	Payment shall be made for completed items.
Providing wearing coat	0.00%	
Replacement of bearing joints	0.00%	
Providing crash barriers	0.00%	
<b>(vii) Protection works</b>		
Breast wall	4.1901%	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 5 (five) percent of the total length.
Retaining wall	4.6718%	
Gabion Wall	0.6391%	
Parapet	0.8516%	
Slope Protection at Land Slide locations.	0.7553%	

**1** Procedure for payment for Maintenance

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

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