

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

The Contract Price for this Agreement is Rs. *****

Proportions of the Contract price for different stages of Construction of the Project Highway shall be 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, Widening and repair Of culverts.	61.64%	A	Widening and strengthening of Existing road		
		1	Earthwork up to top of the sub-grade including excavation in soil, soft rock and hard rock, removal of unserviceable soil etc.	30.12%	18.57%
		2	Sub-Basecourse	14.10%	8.69%
		3	Non-Bituminous Base Course	8.68%	5.35%
		4	Bituminous Base Course	4.97%	3.06%
		5	Wearing Coat	9.11%	5.61%
		B. 1	Reconstruction/ New 2-Lane realignment/ bypass (Flexible pavement)		
		1	Earthwork up to top of the sub-grade including excavation in soil, soft rock and hard rock, removal of unserviceable soil etc.	9.49%	5.85%
		2	Sub-Basecourse	5.43%	3.35%
		3	Non Bituminous Base Course	3.56%	2.20%
		4	Bituminous Base Course	2.18%	1.35%
		5	Wearing Coat	3.97%	2.45%
		a	Pipe culvert	1.88%	1.16%
		b	RCC Box Culvert	6.51%	4.01%
Minor Bridges/underpasses/Overpasses	6.27%	A1	Widening and Repair of Minor bridges (length < 6m and < 60m)		
			Minor bridges		
		A2	New Minor bridges (length < 6m and > 60m.)		

		1	Foundation: on completion of foundation work including foundation for wing and return wall	27.10%	1.70%
		2	Sub-structure: on completion of abutments, piers upto the abutment/pier cap.	40.66%	2.55%
		3	Super-Structure: On completion of the super-structure in all respects including wearing coat, bearings, expansion joints, handrails, crash barriers, road signs & markings, tests on completion etc. complete in all respect.	32.24%	2.02%
		4	Approaches (including Retaining walls, stone pitching and protection works)	0.00%	0.00%
		5	Guide Bunds, River Training work etc.	0.00%	0.00%
		B1	Widening and repair of	0.00%	0.00%
			(a) ROB	0.00%	0.00%
			(b) RUB	0.00%	0.00%
		1	Foundation		
		2	Sub-structure	0.000%	0.000%
		3	Super-Structure (including bearings)	0.000%	0.000%
		4	Wearing Coat:	0.000%	0.000%
			(a) In case of ROB - wearing coat including expansion joints complete in all respects as specified and (b) in case of RUB - rigid pavement under RUB including drainage facility complete in all respects as specified.	0.000%	0.000%
		5	Miscellaneous items like hand rails, crash barriers, road markings etc)	0.000%	0.000%
		6	Wing walls/return walls	0.000%	0.000%
		7	Approaches (including Retaining walls, stone pitching and protection works)	0.000%	0.000%
		B2	New ROB/RUB		
			(a) ROB		

			(b)RUB				
		1	Foundation	0.000%	0.000%		
		2	Sub-structure	0.000%	0.000%		
		3	Super-Structure(includingbearings)	0.000%	0.000%		
		4	WearingCoat:	0.000%	0.000%		
			(a)In caseof ROB-wearingcoatincludingexpansionjointscompleteinallrespectsas specifiedand (b) incaseofRUB-rigidpavementunderRUB including drainagefacilitycompleteinallresp ectsasspecified.	0.000%	0.000%		
		5	Miscellaneous items like hand rails, crash barriers, road markings etc)	0.000%	0.000%		
		6	Wingwalls/returnwalls	0.000%	0.000%		
		7	Approaches(includingRetainin gwalls,stonepitchingandpr otectionworks)	0.000%	0.000%		
		C 1	Widening and repair of Elevated Section/Flyovers/GradeSep arators				
		1	Foundation	0.000%	0.000%		
		2	Sub-structure	0.000%	0.000%		
		3	Super-Structure(includingbearings)	0.000%	0.000%		
		4	WearingCoatincludingexpansionjoi nts	0.000%	0.000%		
		5	Miscellaneousitemslikehand rails,crashbarriers,roadmark ingsetc.)	0.000%	0.000%		
		6	Wingwalls/returnwalls	0.000%	0.000%		
		7	Approaches(includingRetainin gwalls,stonepitchingandpr otectionworks)	0.000%	0.000%		
		Other works	32.09%	(i)	Tollplaza	0.0%	0.0%
				(ii)	Roadsidedrains	8.76%	2.81%
				(iii)	Road signs markings, km stones, safety devices,...		
		a	TrafficSign	0.29%	0.09%		
		b	Pavementmarking	1.67%	0.54%		

		c	Crash barrier/"W/Thrie" Metal Beam Crash Barrier	1.77%	0.57%
		d	Boundary stone, km stone, 5 th km stone, & hectometre stones	0.05%	0.02%
		e	Traffic blinker LED Delineator, stud, reflective pavement marker, traffic reflector	0.05%	0.02%
		f	Direction and Place Identification signs upto 0.9sqm size board	0.05%	0.02%
		g	Minor junction	6.03%	1.94%
		h	Major Junction	6.90%	2.21%
		j	Road furniture	0.29%	0.09%
		k	Dismantling of Structures	0.18%	0.06%
		l	Dismantling of Flexible Pavements	0.87%	0.28%
		m	Site Clearance	0.15%	0.05%
		n	Chute drain	0.72%	0.23%
		o	Land Slide Clearance	1.78%	0.57%
		(iv)	Project Facilities		
		(a)	Busbays	0.50%	0.16%
		(b)	Truck lay-bys	0	0
		(c)	Rest areas	0.19%	0.06%
		(d)	other		
		(v)	Roadside plantation		
		a	Roadside plantation & medium Plantation.	0.47%	0.15%

		(viii)	Protection works		
		a	Breastwall	31.91%	10.24%
		b	Retainingwall	2.32%	0.74%
		c	CutSlopeWall	8.87%	2.85%
		d	Gabionwall	5.53%	1.76%
		e	Toewall	5.94%	1.91%
		f	SeedingandMulching(SoilCutSlope)	1.72%	0.55%
		g	VegetationMat(SteepSlope)	0.39%	0.12%
		h	CribWork(F300)	0.39%	0.12%
		i	CribWork(F500)	0.89%	0.29%
		j	GroundwaterDrainageWork	6.64%	2.13%
		k	AnchorWork	1.45%	0.46%
		l	Rock-boltWork	0.06%	0.02%
		(ix)	Rectification/Maintenance/Re-Construction works		
		a	Rectification of executed works upto Top of subgrade including Sub base course and BaseCourse (in existing alignment)	0.83%	0.27%
		b	Rectification of executed works upto Top of subgrade including Sub base course and Base Course(in Realignment)	0.81%	0.26%
		c	Rectification/ Reconstruction of Pipe Culverts	0.15%	0.05%
		d	Rectification/ reconstruction of Box Culverts	0.12%	0.04%
		e	Rectification/ reconstruction of Road Side Drains	0.02%	0.01%
		f	Breast Wall	0.39%	0.12%
		g	Retaining Wall	0.85%	0.27%

Note: The above list is illustrative and may require modification as per the scope of the work. Procedure of estimating the value of work done.

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

Table 1.3.1

S.N	Stage of Payment	Percentage-weightage	Payment Procedure
A	Widening and strengthening of existing road		
1	Earthwork up to top of the sub-grade including excavation in soil, soft rock and hard rock, removal of unserviceable soil etc.	30.12%	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 500m. In case of Hill Cutting, the payment procedure will be as under: <u>Hill Cutting</u> : 40% of weightage of A (1) <u>Preparation of Sub-Grade</u> : 60% of weightage of A (1)
2	Sub-Base Course	14.10%	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 500 m.
3	Non Bituminous Base Course	8.68%	
4	Bituminous Base Course	4.97%	
5	Wearing Coat	9.11%	
6	Widening and repair of culverts	0.00%	Cost of completed culverts shall be determined on pro rata basis with respect to the total no. of culverts. The payment shall be made on the completion of at least five culverts.
B.1	Reconstruction/ New 2-lane realignment/ bypass (Flexible pavement)		

1	Earthwork up to top of the sub-grade including excavation in soil, soft rock and hard rock, removal of unserviceable soil etc.	9.49%	<p>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 500 m.</p> <p>In case of Hill Cutting, the payment procedure will be as under:</p> <p><u>Hill Cutting</u>: 40% of weightage of B.1 (1)</p> <p><u>Preparation of Sub-Grade</u>: 60% of weightage of B.1 (1)</p>
2	Sub-Base Course	5.43%	<p>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 500 m.</p>
3	Non Bituminous Base Course	3.56%	
4	Bituminous Base Course	2.18%	
5	Wearing Coat	3.97%	
B.2	Reconstruction/ New 2-lane realignment/bypass (Rigid pavement)		
1	Earthwork up to top of the sub-grade including excavation in soil, soft rock and hard rock, removal of unserviceable soil etc.	0.00%	<p>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 500 m.</p> <p>In case of Hill Cutting, the payment procedure will be as under:</p> <p><u>Hill Cutting</u>: 40% of weightage of B.2 (1)</p> <p><u>Preparation of Sub-Grade</u>: 60% of weightage of B.2 (1)</p>
2	Earthwork in shoulders	0.00%	<p>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 500 m.</p>
3	Sub Base Course	0.00%	
4	Dry Lean Concrete (DLC) Course	0.00%	
6	Pavement Quality Control (PQC) Course	0.00%	

C.1	C 1- Reconstruction / New Service road/ Slip Road (Flexible pavement)		
1	Earthwork up to top of the sub-grade including excavation in soil, soft rock and hard rock, removal of unserviceable soil etc.	0.00%	<p>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 500 m.</p> <p>In case of Hill Cutting, the payment procedure will be as under:</p> <p>Hill Cutting : 40% of weightage of C.1 (1)</p> <p>Preparation of Sub-Grade: 60% of weightage of C.1 (1)</p>
3	Sub Base Course	0.00%	<p>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 500 m.</p>
4	Non Bituminous Base Course	0.00%	
5	Bituminous Base Course	0.00%	
C.2	Reconstruction/New service Road (Rigid pavement)		
1	Earthwork up to top of the sub-grade including excavation in soil, soft rock and hard rock, removal of unserviceable soil etc.	0.00%	<p>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 500 m.</p> <p>In case of Hill Cutting, the payment procedure will be as under:</p> <p><u>Hill Cutting</u> : 40% of weightage of C.2 (1)</p> <p><u>Preparation of Sub-Grade</u>: 60% of weightage of C.2 (1)</p>
3	Sub Base Course	0.00%	<p>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 500 m.</p>
4	Non Bituminous Base Course	0.00%	
5	Bituminous Base Course	0.00%	
D	Re-Construction and New culverts on existing road, realignments, bypasses,:		<p>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 at least 01 (one) culverts.</p>
	(1) Culverts (length,6m)		
	(a)Pipe Culvert	1.88%	
	(b)RCC Box culvert	6.51%	

@. 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 = $P \times \text{weightage for road work} \times \text{weightage for bituminous work} \times (1/L)$

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.

Minor Bridges and Underpasses/Overpasses.

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

Table 1.3.2

S.N	Stage of Payment	Percentage-weightage	Payment Procedure
	1	2	3
A.1	Widening and repair of minor bridges (length < 6m and > 60m)	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 completion of widening and repair works of a minor bridge.
A.2	New minor bridges		Cost of each structure shall be determined on pro rata basis in respect to the total linear length (m) of all the structures.
(i)	1) Foundation: on completion of foundation work including foundation for wing and return wall	27.10%	(1) Foundation: Payment against Foundation shall be made on pro rata basis on completion of at least two foundations. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
(ii)	Sub-structure: on completion of abutments, piers up to the abutment/ pier cap.	40.66%	(2) Sub Structure: Payment against Sub Structure shall be made on pro rata basis on completion of at least two sub structures up to abutment / pier cap level of each bridge.

(iii)	Super structure: on completion of super-structure in all respects including wearing coat, bearings, expansion joints, hand rails, crash barriers, road signs & markings, tests on completion etc. complete in all respect.	32.24%	(3) 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 respect as specified in the column of " Stage of Payment" in this Sub-clause.
(iv)	Approaches: on completion of approaches including Retaining walls, stone pitching, protection works complete in all respect and fit for use.	0.00%	(4) Approaches: Payment shall be made on pro rata basis on completion of a stage ie. Completion of approaches in all respect as specified in the column of "Stage of Payment" in this Sub-clause.
(v)	Guide bunds and river training works: on completion of guide bunds and repair training works complete in all respects.	0.00%	(5) Guide bunds and river training works: Payment shall be made on pro rata basis on completion of a stage ie. Completion of guide bunds and river training works in all respect as specified.
B.1	Widening and repair of under passes/overpasses	0.00%	Cost of each underpass / overpass shall be determined on pro rata basis with respect to the total linear length of the underpass / overpass. Payment shall be made on completion of widening and repair works of a underpass / overpass.
B.2	New Underpasses/overpasses:		
(i)	1) Foundation : on completion of foundation work including foundation for wing and return wall	0.00%	Foundation: Payment against Foundation shall be made on pro rata basis on completion of atleast two foundations. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
(ii)	Sub-structure: on completion of abutments, piers upto the abutment/pier cap.	0.00%	Sub Structure: Payment against Sub Structure shall be made on pro rata basis on completion of atleast two sub structures upto abutment / pier cap level of each underpass / overpass.
(iii)	Super structure: on completion of super-structure in all respects including wearing coat, bearings, expansion joints, hand rails, crash barriers, road signs & markings, tests on completion etc. complete in all respect.	0.00%	Super structure: Payment shall be made on pro rata basis on completion of a stage ie. Completion of super structure of atleast one span in all respect as specified in the column of "Stage of Payment" in this Sub-clause.
(iv)	Approaches: on completion of approaches including Retaining walls, stone pitching, protection works complete in all respect and fit for use.	0.00%	Approaches: Payment shall be made on pro rata basis on completion of a stage ie. Completion of approaches in all respect as specified in the column of "Stage of Payment" in this Sub-clause.

1.3.3 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	Percentage-weightage	Payment Procedure
	1	2	3
A.1	Widening and repairs of major Bridges		
(i)	Foundation	0.00%	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 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 were specified.
(ii)	Sub-structure	0.00%	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 atleast two sub structures of abutment / pier cap level of the major bridge..
(iii)	Super-structure (including 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 respects as specified.
(iv)	Wearing Coat including expansion joints	0.00%	Wearing Coat: Payment shall be made on completion of wearing coat including expansion joints complete in all respects as specified
(v)	Miscellaneous Items like hand rails, crash barrier, road markings etc.	0.00%	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.
(vi)	Wing walls/return walls upto top	0.00%	Wing walls/return walls: Payments shall be made on completion of all wing walls/return walls complete in all respects as specified.
(vii)	Guide bunds, River Training works etc.	0.00%	Guide Bonds, River Training works: Payments shall be made on completion of all guide bunds/river training works etc. complete in all respects as specified.
(viii)	Approaches (including Retaining walls, stone pitching and protection works)	0.00%	Approaches: Payment shall be made on completion of both approaches including stone pitching, protection works, etc. complete in all respects as specified.
A.2	New major Bridges		Cost of each structure shall be determined on pro rata basis in respect to the total liner length (m) of all the structures. Payments shall be made on completion of each stage of structures as per weightage given in this table.
(i)	Foundation: Foundation for abutment, piers	0.00%	Foundation: 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 a bridge as per weightage given in this table, subject to completion of at least two foundations in all respect. In case load testing is required for foundation, the trigger for first payment shall include load testing also where specified.
(ii)	Sub-Structure: Sub-Structure for abutment, piers up to abutment/pier	0.00%	(2) 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 a bridge as per weightage given in this table, subject to completion of atleast two sub-structure upto

	cap level		abutment/pier cap level of a bridge.
(iii)	Super-structure: including girder, deck slab, bearings (excluding wearing coat and expansion joints)	0.00%	
	(a) Super Structure : casting of girder/fabrication of girders (Steel)	0.00%	a) Super – structure (casting of girder) : Unit of measurement is numbers. Payment against casting of girders shall be made on pro rata basis with respect to total numbers of girders required in the structure on completion of a stage i.e. not less than completion of casting of at least five girders of the structure.
	(b) Super structure : Casting of segments	0.00%	b) Super structure (Casting of segments): Unit measurement is numbers. Payment against casting of segments shall be made on pro rata basis with respect of total numbers of segments required in the structure on completion of a stage i.e. not less than completion of casting at least 10 (ten) segments of the structure.
	(c) Super structure : erection of girders, deck slab and bearings	0.00%	(c) Super structure (Erection of girders, deck slab and bearing) : Payment shall be made on pro rata basis on completion of a stage i.e. completion of supers structure including bearings of at least one span in all respects as specified.
(iv)	Other Ancillary works: wearing coat, expansion joints hand rails, crash barriers, tests on completion etc. completion in all respect.	0.00%	Payment shall be made on pro-rata basis on completion of the stage in all respect as specified, for each structure.
(v)	Miscellaneous Works : stone pitching, protection works, excluding retaining walls/reinforced earth walls etc.	0.00%	Payment shall be made on pro-rata basis on completion of the stage in all respect as specified, for each structure
(vi)	Wing/Return wall up to full height	0.00%	Wing/Return wall up to full height: Payment shall be made on completion of all wing wall/return walls for a bridges as per weightage given in this table, completion in all respect as specified.
(vii)	Guide bunds, River Trainings works etc.	0.00%	Payment shall be made on pro rata basis on completion of the stage in all respect as specified, for each structure.
(viii)	Retaining walls/Reinforced earth walls etc.		
	(a) Panel Casting	0.00%	Panel Casting : Unit of measurement is area in Sqm. Payment against casting of panels shall be made on pro rata basis with respect to total area panels required for the structure on completion of a stage i.e. not less than completion of casting of 25% of scope of the RE wall panel of each bridge.
	b) Erection of panel / construction of retaining wall	0.00%	Erection of Panel / Construction of Retaining wall : Unit of measurement is area in Sqm. Payment shall be made on pro rata basis on completion of stage i.e. completion of erection of panels/ Construction of retaining wall complete in all respect for atleast 25% scope of work for each structure.

B.1	Widening and repairs of (a) ROB (b) RUB		
(i)	Foundation	0.00%	<p>Foundation: 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 the RoB / RuB subject to completion of atleast two foundations of the RuB/ROB.</p> <p>In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.</p>
(ii)	Sub Structure	0.00%	<p>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 RoB / RuB subject to completion of atleast two sub structure of abutments / pier cap level of the RuB/ROB.</p>
(iii)	Super Structure (Including bearings)	0.00%	<p>Super-structure: 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.</p>
(iv)	Wearing coat (a) in case of RoB - wearing coat including expansion joints complete in all respect as specified and (b) in case of RuB - rigid pavement under RuB including drainage facility complete in all respect as specified	0.00%	<p>Wearing Coat: Payment shall be made on completion of (a) in case of ROB- wearing coat including expansion joints complete in all respects as specified and (b) in case of RUB-rigid pavement under RUB including drainage facility complete in all respects as specified.</p>
(v)	miscellaneous items like hand rails, crash barrier, road markings etc	0.00%	<p>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.</p>
(vi)	wing walls / return walls	0.00%	<p>Wing walls/return walls: Payments shall be made on completion of all wing walls/return walls complete in all respects as specified.</p>
(vii)	Approaches (including Retaining walls, stone pitching and protection works)	0.00%	<p>Approaches: Payment shall be made on completion of both approaches including stone pitching, protection works, etc. complete in all respects as specified.</p>
B.2	New (a) ROB (b) RUB		
(i)	Foundation: Foundation for abutment, piers	0.00%	<p>Foundation: 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 a ROB/RUB as per weightage given in this table, subject to completion of at least two foundations in all respect.</p> <p>In case load testing is required for foundation, the trigger for first payment shall include load testing also where specified.</p>
(ii)	Sub-Structure: Sub-Structure for abutment, piers up to abutment/pier	0.00%	<p>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 a ROB/RUB as per weightage given in this table, subject to completion of atleast two sub-structure</p>

	cap level		uptoabutment/pier cap level of a ROB/RUB.
(iii)	Super-structure: including girder, deck slab, bearings (excluding wearing coat and expansion joints)		
	a) Super Structure : casting of girder/fabrication of girders (Steel)	0.00%	Super – structure (casting of girder): Unit of measurement is numbers. Payment against casting of girders shall be made on pro rata basis with respect to total numbers of girders required in the structure on completion of a stage i.e. not less than completion of casting of at least five girders of the structure.
	(b) Super structure : Casting of segments	0.00%	Super structure (Casting of segments): Unit measurement is numbers. Payment against casting of segments shall be made on pro rata basis with respect of total numbers of segments required in the structure on completion of a stage i.e. not less than completion of casting at least 10 (ten) segments of the structure.
	(c) Super structure : erection of girders, deck slab and bearings	0.00%	Super structure (Erection of girders, deck slab and bearing): Payment shall be made on pro rata basis on completion of a stage i.e. completion of supers structure including bearings of at least one span in all respects as specified.
(iv)	Other Ancillary works : wearing coat, expansion joints hand rails, crash barriers, tests on completion etc. completion in all respect.	0.00%	Payment shall be made on pro-rata basis on completion of the stage in all respect as specified, for each structure.
(v)	Miscellaneous Works : stone pitching, protection works, excluding retaining walls/reinforced earth walls etc.	0.00%	Payment shall be made on pro-rata basis on completion of the stage in all respect as specified, for each structure.
(vi)	Wing/Return wall up to full height	0.00%	Wing/Return wall up to full height: Payment shall be made on completion of all wing wall/return walls for each ROB/RUB as per weightage given in this table, completion in all respect as specified.
(viii)	Retaining walls/Reinforced earth walls etc.	0.00%	
	(a)Panel Casting	0.00%	Panel Casting : Unit of measurement is area in Sqm. Payment against casting of panels shall be made on pro rata basis with respect to total area panels required for the structure on completion of a stage i.e. not less than completion of casting of 25% of scope of the RE wall panel of each ROB/RUB.
	b) Erection of panel / construction of retaining wall	0.00%	Erection of Panel / Construction of Retaining wall : Payment shall be made on pro rata basis on completion of stage i.e. completion of erection of panels/ Construction of retaining wall complete in all respect for atleast 25% scope of work for each ROB/RUB.
C.1	Widening and repairs of Elevated Section/Flyovers/G rade separators		

(i)	Foundation	0.00%	<p>Foundation: Cost of each structure shall be determined on pro rata basis with respect to the total linear length (m) of the structure. 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 structure subject to completion of atleast two foundations of the structure.</p> <p>In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.</p>
(ii)	Sub-structure	0.00%	<p>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 atleast two sub structure of abutments / pier cap level of the structure.</p>
(iii)	Super-structure (including bearings)	0.00%	<p>Super-structure: 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.</p>
(iv)	Wearing Coat including expansion joints	0.00%	<p>Wearing Coat: Payment shall be made on completion of wearing coat including expansion joints complete in all respects as specified.</p>
(v)	Miscellaneous items like hand rails, crash barriers, road markings etc.	0.00%	<p>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.</p>
(vi)	Wing walls/return walls	0.00%	<p>Wing walls/return walls: Payments shall be made on completion of all wing walls / return walls complete in all respects as specified.</p>
(vii)	Approaches (including Retaining walls/Reinforced Earth wall, stone pitching and protection works)	0.00%	<p>Approaches: Payment shall be made on completion of both approaches including stone pitching, protection works, etc. complete in all respects as specified.</p>
C.2	New Elevated Section/Flyovers/Grade Separators		<p>Cost of each structure shall be determined on pro rata basis in respect to the total liner length (m) of all the structures. Payments shall be made on completion of each stage of a structures as per weightage given in this table.</p>
(i)	Foundation: Foundation for abutment, piers	0.00%	<p>Foundation: 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 each structure as per weightage given in this table, subject to completion of at least two foundations in all respect.</p> <p>In case load testing is required for foundation, the trigger for first payment shall include load testing also where specified.</p>
(ii)	Sub-Structure	0.00%	<p>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 each structure as per weightage given in this table, subject to completion of atleast two sub-structure upto abutment/pier cap level of each structure.</p>
		0.00%	<p>Super – structure (casting of girder): Unit of measurement is numbers. Payment against casting of girders shall be made on pro rata basis with respect to total numbers of girders required in the structure on completion of a stage i.e. not less than completion of casting of at least five girders of the structure.</p>

(iii)	Super-Structure (including bearings)		
	(a) Super Structure : casting of girder/fabrication of girders (Steel)	0.00%	Super – structure (casting of girder) : Unit of measurement is numbers. Payment against casting of girders shall be made on pro rata basis with respect to total numbers of girders required in the structure on completion of a stage i.e. not less than completion of casting of at least five girders of the structure.
	(b) Super structure : Casting of segments	0.00%	Super structure (Casting of segments): Unit measurement is numbers. Payment against casting of segments shall be made on pro rata basis with respect of total numbers of segments required in the structure on completion of a stage i.e. not less than completion of casting at least 10 (ten) segments of the structure.
	(c) Super structure : erection of girders, deck slab and bearings	0.00%	Super structure (Erection of girders, deck slab and bearing) : Payment shall be made on pro rata basis on completion of a stage i.e. completion of supers structure including bearings of at least one span in all respects as specified.
(iv)	Other Ancillary works : wearing coat, expansion joints hand rails, crash barriers, tests on completion etc. completion in all respect.	0.00%	Payment shall be made on pro-rata basis on completion of the stage in all respect as specified, for each structure
(v)	Miscellaneous Works : stone pitching, protection works, excluding retaining walls/reinforced earth walls etc.	0.00%	Payment shall be made on pro-rata basis on completion of the stage in all respect as specified, for each structure.
(vi)	Wing/Return wall up to full height	0.00%	Wing/Return wall up to full height: Payment shall be made on completion of all wing wall/return walls for each structure as per weightage given in this table, completion in all respect as specified
(vii)	Retaining walls/Reinforced earth walls etc.	0.00%	
	(a) Panel Casting	0.00%	a) Panel Casting : Unit of measurement is area in Sqm. Payment against casting of panels shall be made on pro rata basis with respect to total area panels required for the structure on completion of a stage i.e. not less than completion of casting of 25% of scope of the RE wall panel of each structure.
	b) Erection of panel / construction of retaining wall	0.00%	Erection of Panel / Construction of Retaining wall : Unit of measurement is area in Sqm. Payment shall be made on pro rata basis on completion of stage i.e. completion of erection of panels/ Construction of retaining wall complete in all respect for atleast 25% scope of work for each structure.

1.3.4 Otherworks.

1.3 Procedure of estimating the value of work done shall be as stated in table 1.3.4

Table 1.3.4			
	Stage of Payment	weightage	Payment Procedure
(i)	Toll plaza	0.00%	Payment of Toll Plaza shall be made on Pro rata basis as per following completed stages:
			i) Rigid pavement upto DLC (LHS) -12.5 %
			ii) Rigid pavement upto DLC (RHS)- 12.5 %
			iii) PQC (LHS)-25 %
			iv) PQC (RHS)-25 %
			(v) Admin Building, Maintenance Building & Misc. Works-10% %
			(vi) Canopy, Toll Booth, Safety Items & Miscellaneous Works-12.5 %
			(vii) Toll Plaza Tunnel-2.5 %
(ii)	Road side drains	8.76%	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 05% (five percent) of the total length.
(iii)	Road signs markings, km stones, safety devices,...		Unit of measurement is linear in km. Payment shall be made on prorata basis on completion of a stage in a length on not less than 5% (five percent) of the total length.
a	Traffic Sign	0.29%	
b	Pavement marking	1.67%	
c	Crash barrier/"Thrie" Metal Beam Crash Barrier	1.77%	
d	Boundary stone, kmstone, 5 th km stone ,& hectometer stones	0.05%	
e	Traffic blinker LED Delineator, stud, reflective payment marker, tree reflector	0.05%	
f	Direction and Place Identification signs upto 0.9sqm size board	0.05%	
g	Minor junction	6.03%	
h	Major Junction	6.90%	
i	Traffic diversion, Safety and traffic management during construction	0.00%	
j	Road furniture	0.29%	
k	Dismantling of Structures	0.18%	
l	Dismantling of Flexible Pavements	0.87%	
m	Site Clearance	0.15%	
n	Chute drain	0.72%	
o	Landslide Clearance	1.78%	
(iv)	Project Facilities		Payment shall be made on pro rata basis for completed facilities.
(a)	Bus bays	0.50%	
(b)	Truck lay-byes	0.00%	
(c)	Rest areas	0.19%	
(d)	Other		
(v)	Road side Plantation	0.47%	

(vi)	Protection works other than approaches to the bridges, elevated sections / flyovers / grade separators and RoBs/RuBs	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 05 % (five percent) of the total length.
(vii)	Safety and traffic management during construction	0.00%	Payment shall be made on pro-rata basis every six months
(viii)	Protection works		
a	Breast wall	31.91%	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.
b	Retaining wall	2.32%	
c	Cut Slope Wall	8.87%	
d	Gabion wall	5.53%	
e	Toe wall	5.94%	
f	Seeding and Mulching(Soil Cut Slope)	1.72%	
g	Vegetation Mat(Steep Slope)	0.39%	
h	Crib Work(F300)	0.39%	
i	Crib Work(F500)	0.89%	
j	Ground water Drainage Work	6.64%	
k	Anchor Work	1.45%	
l	Rock-bolt Work	0.06%	
(ix)	Rectification/Maintenance/Re-Construction works		
a	Rectification of executed works upto Top of subgrade including Sub base course and Base Course (in existing alignment)	0.83%	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.
b	Rectification of executed works upto Top of subgrade including Sub base course and Base Course(in Realignment)	0.81%	
c	Rectification/ Reconstruction of Pipe Culverts	0.15%	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 at least one culverts.
d	Rectification/ reconstruction of Box Culverts	0.12%	
e	Rectification/ reconstruction of Road Side Drains	0.02%	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.
f	Breast Wall	0.39%	
g	Retaining Wall	0.85%	

Table 1.3.5

(i) EHT line	0%	Unit of measurement is an per completed activities shall be determined on pro-rate basis as per its weightage with reference to total cost of EHT line. Payment shall be made for completed activity. (The average weightage of major activities (only for payment purpose) in shifting work is (i) Erection of Poles-20%, (ii) Conductor stringing including laying of cable-30%, (iii) DTR erection (if involved)-15% and (iv) Charging of line including dismantling and site clearance-35% (with DTR) and 50% without DTR)
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(ii) EHT Crossings	0%	Cost of each crossing shall be determined on pro-rata basis with reference to total no. of crossings. Payment shall be made for not less than 25% of the crossing subject to a minimum of 4 crossings.
(iii) HT/LT Line (including transformers if any)	0%	Unit of measurement is as per completed activities. Cost per activity shall be determined on pro-rata basis as per its weightage with reference to total cost of LT/HT line. Payment shall be made for completed activity. (The average weightage of major activities only for payment purpose) in shifting work is (i) Erection of poles-20% (ii) Conductor stringing including laying of cable-30% (iii) DTR erection (if involved-10% and (iv) Charging of line including dismantling and site clearance -40% (with DTR and 50% without DTR)
(iv) HT/LT Crossing	0%	Cost of each crossing shall be determined on pro-rata basis with reference to total no. of crossings. Payment shall be made for not less than 25% of the crossings subject to a minimum of 10 crossings.
(v) Water pipeline	0%	Unit of measurement is as per completed activities. Cost per activities shall be determined on pro-rata basis as per its weightage with reference to total cost of pipe line. Payment shall be made for completed activity. (The average weightage of major activities (only for payment purpose) in shifting work is laying of pipe-50%, Charging of line including all miscellaneous work and dismantling and site clearance-50%)
(vi) Water pipeline crossings	0%	Cost of each crossing shall be determined on pro-rata basis with reference to total no of crossings. Payment shall be made for not less than 25% of the crossing subject to a minimum of 8 crossings.
(vii) Sewage lines	0%	Unit of measurement is as per completed activities cost per activity shall be determined on pro-rata basis as per its weightage with reference to total cost of pipeline. Payment shall be made for completed activity. (The average weightage of major activities (only for payment purpose) in shifting work is laying of pipe-50% Charging of line including all miscellaneous work and dismantling and site clearance-50%)
(viii) Sewage line crossings	0%	Cost of each crossing shall be determined on pro-rata basis with reference to total no. of crossings. Payment shall be made for completed activity. (The average wightage of major activities in shifting work is laying pipe-50%, Charging of line including all miscellaneous works and dismantling and site clearance-50%)

Note: 1-The weightage for the superstructure stage may be considered as under:

- a) Casting of girders-40%
- b) Erection of girders -60%
- c) Casting of segments-40%
- d) Erection of segments - 60%

Note: 2- The weightage for the stage of Retaining walls/Reinforced Earth Wall maybe considered as under:

- a) Casting of Panels-40%
- b) Erection of Panels - 60 %

2. Procedure for payment for Maintenance

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.