

SCHEDULE - H

See Clauses 10.1 (iv) 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:

Section I			
ITEM	WEIGHTAGE IN PERCENTAGE TO THE CONTRACT PRICE	STAGE FOR PAYMENT	PERCENTAGE WEIGHTAGE vis a vis overall Project
1	2	3	5
Road works including culverts, widening and repair of culverts.	61.30%	A-Widening and Strengthening of existing road	
		(1) Earthwork up to top of the sub-grade	0.00%
		(2) Sub Base courses	0.00%
		(3) Non Bituminous Base Course	0.00%
		(4) Bituminous Base Course	0.00%
		(5) Wearing coat	0.00%
		(6) Widening and repair of culverts	0.00%
		B 1- Reconstruction / New four lane alignment / bypass (Flexible pavement)	
		(1) Earthwork up to top of the sub-grade	10.13%
		(2) Sub Base Course	29.16%
		(3) Non Bituminous Base Course	15.16%
		(4) Bituminous Base Course	15.24%
		(5) Wearing coat	9.50%
		B 2- Reconstruction / New two lane alignment / bypass (Rigid pavement)	
		(1) Earthwork up to top of the sub-grade	0.00%
		(2) Sub Base Course	0.00%
		(3) Dry Lean Concrete (DLC) Course	0.00%
		(4) Pavement Quality Control (PQC) course	0.00%

		C 1- Reconstruction / New Service road/ Slip Road (Flexible pavement)	
		(1) Earthwork up to top of the sub-grade	0.57%
		(2) Sub Base Course	3.80%
		(3) Non Bituminous Base Course	3.82%
		(4) Bituminous Base Course	3.80%
		(5) Wearing coat	3.82%
		C 2- Reconstruction / New Service road (Rigid pavement)	
		(1) Earthwork up to top of the sub-grade	0.00%
		(2) Sub Base Course	0.00%
		(3) Dry Lean Concrete (DLC) Course	0.00%
		(4) Pavement Quality Control (PQC) course	0.00%
		D - Reconstruction, widening and New culverts on existing road, Realignment, bypasses:	
		Culverts (Length <6m)	
		a - Pipe Culverts	0.27%
		b - Box Culverts	4.16%
		c - Widening of Culverts	0.57%
Minor Bridges / underpasses / over passes	5.35%	A 1- Widening and repairs of Minor Bridges (length >6m and <60m)	
		Minor Bridges	0.00%
		A 2- New Minor Bridges (length >6m and <60m)	
		(1) Foundation + Sub-structure: on completion of foundation work including foundation for wing and return wall, abutments, piers upto the abutment/pier cap.	22.25%
		(2) Superstructure : on completion of super-structure in all respects including wearing coat, bearings, expansion joints, hand rails, crash barriers, road sign & markings, tests on completion etc. complete in all respect.	22.25%
		(3) Approaches: on completion of approaches including Retaining walls (excluding RE wall), stone pitching, protection works complete in all respect, test on completion in all respects and fit for use.	22.25%

		(4) Guide bunds and river training works: on completion of guide bunds and repair training works complete in all respects.	7.42%
		B 1 - Widening and repair of underpasses / overpasses	
		Underpasses / Overpasses	0.00%
		B 2 - New Underpasses / Overpasses	
		(1) Foundation + Sub-structure: on completion of foundation work including foundation for wing and return wall, abutments, piers upto the abutment/pier cap.	7.75%
		(2) Superstructure : on completion of super-structure in all respects including wearing coat, bearings, expansion joints, hand rails, crash barriers, road sign & markings, tests on completion etc. complete in all respect.	7.75%
		Wearing coat (a) in case of overpass-wearing coat including expansion joints complete in all respects as specified and (b) in case of underpass - rigid pavement including drainage facility complete in all respects as specified.	7.75%
		(3) Approaches : On completion of approaches including Retaining walls (excluding Reinforced earth walls), stone pitching, protection works complete in all respect and fit for use.	2.58%
Major bridge (length > 60m) works and RoB / RUB / Elevated sections / Flyovers including viaducts, if any	14.62%	A 1 - Widening and repair of major bridges	
		(1) Foundation	0.00%
		(2) Sub-structure	0.00%
		(3) Super-structure (including bearings)	0.00%
		(4) Wearing Coat including expansion joints	0.00%
		(5) Miscellaneous Items like hand rails, crash barrier, road markings etc.	0.00%
		(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%

		A 2 - New Major bridges	
		(1) Foundation	33.00%
		(2) Sub-structure	20.00%
		(3) Super-structure (including bearings)	25.00%
		(4) Wearing Coat including expansion joints	3.00%
		(5) Miscellaneous Items like hand rails, crash barrier, road markings etc.	5.00%
		(6) Wing walls/return walls upto top	6.00%
		(7) Guide bunds, River Training works etc.	3.00%
		(8) Approaches (including Retaining walls, RE WALL, stone pitching and protection works)	5.00%
		B 1 - Widening and repair of	
		a) RoB	
		b) RuB	
		1) Foundation	0.00%
		2) Sub Structure	0.00%
		3) Super Structure (Including bearings)	0.00%
		4) 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%
		5) miscellaneous items like hand rails, crash barrier, road markings etc	0.00%
		6) wing walls / return walls	0.00%
		7) Approaches (including Retaining walls, stone pitching and protection works)	0.00%
		B 2 - New RoB / RuB	
		a) RoB	
		b) RuB	
		1) Foundation	0.00%
		2) Sub Structure	0.00%
		3) Super Structure (Including bearings)	0.00%

		4) 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%
		5) miscellaneous items like hand rails, crash barrier, road markings etc	0.00%
		6) wing walls / return walls	0.00%
		7) Approaches (including Retaining walls, RE WALL, stone pitching and protection works)	0.00%
		C 1 - Widening and repair of Elevated sections / Fly overs / Grade Separators	
		1) Foundation	0.00%
		2) Sub Structure	0.00%
		3) Super Structure (Including bearings)	0.00%
		4) Wearing coat including expansion joints	0.00%
		5) miscellaneous items like hand rails, crash barrier, road markings etc	0.00%
		6) wing walls / return walls	0.00%
		7) Approaches (including Retaining walls, stone pitching and protection works)	
		C 2 - New Elevated sections / Fly overs / Grade Separators	
		1) Foundation	0.00%
		2) Sub Structure	0.00%
		3) Super Structure (Including bearings)	0.00%
		4) Wearing coat including expansion joints	0.00%
		5) miscellaneous items like hand rails, crash barrier, road markings etc	0.00%
		6) wing walls / return walls	0.00%
		7) Approaches (including Retaining walls, stone pitching and protection works)	0.00%
Other Works	16.80%	(i) Toll Plaza	7.57%
		(ii) Road side drains	
		a) RCC Drain	6.57%
		b) PCC Drain	0.15%
		c) Unlined drain	0.13%

		(iii) Road Signs, markings, km stones, safety devices, Road furnitures, Metal beam crash barrier, ATMS etc.	1.82%
		(iv) Project facilities	
		(a) Bus Bay with Shelters	0.55%
		(b) Rain water harvesting	0.15%
		(d) Others	
		a) Clearing n Grubbing & Dismantling works	1.25%
		b) improvement of Junctions	8.74%
		c) Turfing and hydroseeding	0.74%
		d) Lighting works	2.18%
		(v) Road side Plantation	1.32%
		(vi) Protection works other than approaches to the bridges, elevated sections / flyovers / grade separators and RoBs/RuBs	
		(a) Thrie Beam Crash Barrier	6.20%
		(b) RE wall with Friction Slab	30.17%
		(c) RCC Crash Barrier	0.61%
		(d) New Jersey Crash Barrier	0.32%
		e) Retaining wall	18.30%
		(f) Pitching work on Emb slope	6.19%
		g) PCC Kerb at median/Footpath etc	7.04%
Electrical utilites and public Health Utilities (water pipe lines and sewage lines)	1.93%	(i) EHT Lines	11.92%
		(ii) EHT Crossings	2.24%
		(iii) HT/LT line	23.73%
		(iv) HT/LT crossings	29.00%
		(v) Transformer	0.75%
		(vi) Water pipeline	30.74%
		(vii) Water pipeline crossings	1.62%
		(viii) BSNL	0.00%

1.3 Procedure of 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	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 2 lane carriageway length of not less than 500m.
(2) Sub Base courses	0.00%	
(3) Non Bituminous Base Course	0.00%	
(4) Bituminous Base Course	0.00%	
(5) Wearing coat	0.00%	
(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 two lane alignment / bypass (Flexible pavement)		
(1) Earthwork up to top of the sub-grade	10.13%	Unit of measurement is linear length. Payment of each stage shall be made on pro-rata basis on completion of a stage in a 2 lane carriageway length of not less than 500m.
(2) Sub Base Course	29.16%	
(3) Non Bituminous Base Course	15.16%	
(4) Bituminous Base Course	15.24%	
(5) Wearing coat	9.50%	
B 2- Reconstruction / New two lane alignment / bypass (Rigid pavement)		
(1) Earthwork up to top of the sub-grade	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 2 lane carriageway length of not less than 500m.
(2) Earthwork in shoulders	0.00%	
(3) Sub Base Course	0.00%	
(4) Dry Lean Concrete (DLC) Course	0.00%	
(5) Pavement Quality Control (PQC) course	0.00%	
C 1- Reconstruction / New Service road/ Slip Road (Flexible pavement)		
(1) Earthwork up to top of the sub-grade including shoulder	0.57%	Unit of measurement is linear length. Payment of each stage shall be made on pro-rata basis on

(2) Sub Base Course	3.80%	completion of a stage in a 2 lane carriageway length of not less than 500m.
(3) Non Bituminous Base Course	3.82%	
(4) Bituminous Base Course	3.80%	
(5) Wearing coat	3.82%	
C 2- Reconstruction / New Service road (Rigid pavement)		
(1) Earthwork up to top of the sub-grade	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 2 lane carriageway length of not less than 500m.
(2) Sub Base Course	0.00%	
(3) Dry Lean Concrete (DLC) Course	0.00%	
(4) Pavement Quality Control (PQC) course	0.00%	
D - Reconstruction, widening and New culverts on existing road, Realignments, bypasses:		
Culverts (Length <6m)		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.
a - Pipe Culverts	0.27%	
b - Box Culverts	4.16%	
c - Widening of Culverts	0.57%	

@. 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 road work x weightage for bituminous work x (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 of PAYMENT	PERCENTAGE WEIGHTAGE	Payment Procedure

A 1- Widening and repairs of Minor Bridges (length >6m and <60m)		
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 completion of widening and repair works of a minor bridge.
A 2- New Minor Bridges (length >6m and <60m)		
(1) Foundation + Sub-structure: on completion of foundation work including foundation for wing and return wall, abutments, piers upto the abutment/pier cap.	22.25%	(i) 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) Substructure: Payment sub structure shall be made on pro-rata basis on completion of at least two substructure upto abutment / pier cap level of each bridge.
(2) Superstructure : 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.	22.25%	(iii) 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.
(3) Approaches: on completion of approaches including Retaining walls (excluding RE Walls), stone pitching, protection works complete in all respect and fit for use.	22.25%	(3) 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 repair training works complete in all respects.	7.42%	(4) 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 respect as specified.
B 1 - Widening and repair of underpasses / overpasses		

Underpasses / 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		
(1) Foundation + Sub-structure: on completion of foundation work including foundation for wing and return wall, abutments, piers upto the abutment/pier cap.	7.75%	(i) 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) Substructure: Payment sub structure shall be made on pro-rata basis on completion of at least two substructure upto abutment / pier cap level of each bridge.
(2) Superstructure : 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.	7.75%	(2) Super structure: Payment shall be made on pro-rata basis on completion of a stage i.e., completion of super-structure of at least one span in all respects as specified in the column of "Stage of Payment" In this sub-clause excluding any payment made in pursuance to here in under : - If precast girders / segments are used, on casting of all such girders and segments for atleast one span and on submission of Indemnity Bond by the Contractor, 40%of the actual cost of such precast girders / segments determined based on SoR prevalent on the Base date within 30 days of submission of the bill therefor. In case the Contract Price is lower / higher than the Estimated Project Cost as per RFP, then the SOR rates shall be reduced / increased in the same proportion accordingly. Balance payment shall be after erection of /launching of these elements as per stage payment stipulations.
Wearing coat (a) in case of overpass-wearing coat including expansion joints complete in all respects as specified and (b) in case of underpass - rigid pavement including drainage facility complete in all respects as specified.	7.75%	(iv)Wearing Coat: Payment shall be made on completion of wearing coat including expansion joints complete in all respects as specified.

<p>(3) Approaches: on completion of approaches including Retaining walls (excluding Reinforced Earth walls), stone pitching, protection works complete in all respect and fit for use.</p>	<p>2.58%</p>	<p>(3) Approaches: Payment shall be made on pro rata basis on completion of a stage ie. completion of approaches in all respect as specified excluding any payment made in pursuance to here in under: If Reinforced earthwall is used with facia panels/blocks, on casting of all the facia Panels/Blocks of all approaches and on submission of Indemnity Bond by the Contractor, 40% of the actual cost of such precast girders/segments determined based on SoR prevalent on the base date within 30 days of submission of the bill therefor. In case the Contract Price is lower/higher than the Estimated Project Cost as per RFP, then the SoR rates shall be reduced / increased in the same proportion accordingly. Balance payment shall be after erection of / launching of these elements as per stage payment stipulations.</p>
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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
A 1 - Widening and repair of major bridges		
(1) Foundation	0.00%	<p>(i) Foundation: Cost of each Major Bridge shall be determined on prorata 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.</p> <p>In case where load testing is required for foundation, the trigger of first payment shall include load testing also were specified.</p>
(2) Sub-structure	0.00%	<p>(ii) Sub-Structure: Payment sub structure shall be made on pro-rata basis on completion of at least two substructure upto abutment / pier cap level of each bridge.</p>

(3) Super-structure (including bearings)	0.00%	(2) 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
(4) Wearing Coat including expansion joints	0.00%	(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 barrier, road markings etc.	0.00%	(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 upto top	0.00%	(vi) Wing walls/return walls: Payments shall be made on completion of all wing walls/returnwalls complete in all respects as specified.
(7) Guide bunds, River Training works etc.	0.00%	(vii) 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.
(8) Approaches (including Retaining walls, stone pitching and protection works)	0.00%	(viii) 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.
(1) Foundation	33.00%	(i)Foundation: Cost of each Major Bridge shall be determined on prorata 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.
(2) Sub-structure	20.00%	(ii) Sub-Structure: Payment sub structure shall be made on pro-rata basis on completion of at least two substructure upto abutment / pier cap level of each bridge.

(3) Super-structure: including girder, deck slab, bearings (excluding wearing coat and expansion joints)	25.00%	(2) (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): 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. 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.-Payment shall be made on pro-rata basis on completion of the stage in all respect as specified, for each structure.
(4) Wearing Coat including expansion joints	3.00%	(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 barrier, road markings etc.	5.00%	(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 upto top	6.00%	(vi) Wing walls/return walls: Payments shall be made on completion of all wing walls/returnwalls complete in all respects as specified.
(7) Guide bunds, River Training works etc.	3.00%	(vii) 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.
(8) Approaches (including Retaining walls, stone pitching and protection works)	5.00%	(viii) Approaches: Payment shall be made on completion of both approaches including stone pitching, protection works, etc. complete in all respects as specified.
B 1 - Widening and repair of		
a) RoB		
b) RuB		

1) Foundation	0.00%	(i) Foundation: Cost of each foundation shall be determined from cost of all foundations divided by nos. of all foundations in a Bridge.Payment against foundations shall be made on pro-rata basis on completion of a stage i.e. completion of at least two foundations of the bridge.In case where load testing is required for foundation, the trigger of first payment shall include load testing also were specified..
2) Sub Structure	0.00%	(ii) Sub-Structure: Payment sub structure shall be made on pro-rata basis on completion of at least two substructure upto abutment / pier cap level of each bridge.
3) Super Structure (Including bearings)	0.00%	(2) 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.
4) 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%	(iv) 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.
5) miscellaneous items like hand rails, crash barrier, road markings etc	0.00%	(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, stone pitching and protection works)	0.00%	(vii) Approaches: Payment shall be made on completion of both approaches including stone pitching, protection works, etc. complete in all respects as specified.
B 2 - New RoB / RuB		
1) Foundation	0.00%	(i) Foundation: Cost of each foundation shall be determined from cost of all foundations divided by nos. of all foundations in a Bridge.Payment against foundations shall be made on pro-rata basis on completion of a stage i.e. completion of at least two foundations of the bridge.In case where load testing is required for foundation, the trigger of first payment shall include load testing also were specified..

2) Sub Structure	0.00%	(ii) Sub-Structure: Payment sub structure shall be made on pro-rata basis on completion of at least two substructure upto abutment / pier cap level of each bridge.
3) Super Structure (Including bearings)	0.00%	(2) 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.
4) 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%	(iv) 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.
5) miscellaneous items like hand rails, crash barrier, road markings etc	0.00%	(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)	0.00%	(vii) Approaches: Payment shall be made on completion of both approaches including stone pitching, protection works, etc. complete in all respects as specified.
C 1 - Widening and repair of Elevated sections / Fly overs / Grade Separators		Cost of each structure shall be determined on pro rata basis with respect to the total linear length (m) of the structure
1) Foundation	0.00%	(i) Foundation: Cost of each foundation shall be determined from cost of all foundations divided by nos. of all foundations in a Bridge. Payment against foundations shall be made on pro-rata basis on completion of a stage i.e. 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 were specified.
2) Sub Structure	0.00%	(ii) Sub-Structure: Payment sub structure shall be made on pro-rata basis on completion of at least two substructure upto abutment / pier cap level of each bridge.

3) Super Structure (Including bearings)	0.00%	(2) 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.
4) Wearing coat including expansion joints	0.00%	(iv) 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.
5) miscellaneous items like hand rails, crash barrier, road markings etc	0.00%	(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)	0.00%	(vii) Approaches: Payment shall be made on completion of both approaches including stone pitching, protection works, etc. complete in all respects as specified.
C 2 - New Elevated sections / Fly overs / Grade Separators		
1) Foundation	0.00%	(i) Foundation: Cost of each foundation shall be determined from cost of all foundations divided by nos. of all foundations in a Bridge. Payment against foundations shall be made on pro-rata basis on completion of a stage i.e. 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 were specified.
2) Sub Structure	0.00%	(ii) Sub-Structure: Payment sub structure shall be made on pro-rata basis on completion of at least two substructure upto abutment / pier cap level of each bridge.
3) Super Structure (Including bearings)	0.00%	(2) 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.

4) Wearing coat including expansion joints	0.00%	(iv) 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.
5) miscellaneous items like hand rails, crash barrier, road markings etc	0.00%	(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)	0.00%	(vii) Approaches: Payment shall be made on completion of both approaches including stone pitching, protection works, etc. complete in all respects as specified.

Note: (1) In case of innovate Major Bridge projects like cable suspension/cable stayed/ Extra Dozed and exceptionally long span bridges, the schedule may be modified as per site requirements before bidding with due approval of Competent Authority.

(2) The Schedule for exclusive tunnel projects may be prepared as per site requirements before bidding with due approval of Competent Authority.

1.3.3 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
Other Works		
(i) Toll Plaza	7.57%	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		

Lined Drain (RCC)	6.57%	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 percent) of the total length.
Lined Drain (PCC)	0.15%	
Unlined Drain	0.13%	
(iii) Road Signs, markings, km stones, safety devices, Road furnitures etc	1.82%	
(iv) Project facilities		
(a) Bus Shelter	0.55%	Payment shall be made on pro rata basis for completed facilities.
(b) Rain water harvesting	0.15%	
(d) Others		
a) Clearing n Grubbing & Dismantling works	1.25%	
b) improvement of Junctions	8.74%	
c) Turfing and hydroseeding	0.74%	
d) Lighting works	2.18%	
(v) Road side Plantation	1.32%	
(vi) Protection works other than approaches to the bridges, elevated sections / flyovers / grade separators and RoBs/RuBs		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.
(a) Thrie Beam Crash Barrier	6.20%	
(b) RE wall with Friction Slab	30.17%	
(c) RCC Crash Barrier	0.61%	
(d) New Jersey Crash Barrier	0.32%	
e) Retaining wall	18.30%	
(f) Pitching work on Emb slope	6.19%	
g) PCC Kerb at median/Footpath etc	7.04%	

1.3.5 Electrical utilities and public Health Utilities (water pipe lines and sewage lines).

Procedure for estimating the value of Electrical utilities and public Health Utilities (water pipe lines and sewage lines) done shall be as stated in table 1.3.5

Table 1.3.5		
STAGE FOR PAYMENT	PERCENTAGE WEIGHTAGE	PAYMENT PROCEDURE

Electrical utilities and public Health Utilities (water pipe lines and sewage lines)

(i) EHT Lines	11.92%	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 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.
(ii) EHT crossings	2.24%	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 4 crossings
(iii) HT/LT Lines	23.73%	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 Crossings	29.00%	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) Transformer	0.75%	Cost of each transformer shall be determined on pro rata basis with reference to total no. of transformers. Payment shall be made for completion of each unit shifting.
(v) Water pipelines	30.74%	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 pipe line. Payment shall be made for completed activity. (The average weightage of major activities (Only for payment purpose) in shifting work is laying pipe - 50%, charging of line including all miscellaneous works and dismantling and site clearance -50%)

(vi) Water pipeline crossings	1.62%	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 8 crossings.
(viii) BSNL	0.00%	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 pipe line. Payment shall be made for completed activity. (The average weightage of major activities (Only for payment purpose) in shifting work is laying pipe - 50%, charging of line including all miscellaneous works and dismantling and site clearance -50%)

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 instalments in accordance with the provisions of Clause 19.7.