

Corrigendum No. III

NHIDCL/Tripura/ Churaibari-Agt/NH-08/2019

26.02.2020

To,

All prospective Bidders,

Sub: Strengthening of Churabari-Agartala section with paved shoulder of NH-08 (74.856km) in the State of Tripura on Engineering, Procurement & Construction (EPC) mode - **Modification in Tender Details reg.**

Ref: RFP dated 11.01.2020

Sir/Madam,

Please find enclosed herewith, corrigendum I pertaining to the modification in the Tender details. The modified tender details are as follow:

Sl. No.	Tender Details	Existing Detail	Modified Detail
1	RFP Clause 1.2.4	The Bidders shall also submit a Demand Draft of Rs 20,000	The Bidders shall also submit a Demand Draft of Rs 30,000
2	RFP - Notice Inviting Bid	Estimated cost 198.98 Cr	Estimated cost 200.36 Cr
3	RFP - Section 1 Instruction to Bidders	Estimated Project Cost (In Rs. cr.) 198.98	Estimated Project Cost (In Rs. cr.) 200.36
4	2.2.2.2 (i)as further adjusted in accordance with clause 2.2.2.5 (i) & (ii), is more than Rs. 298.47 crore (Rupees two hundred ninety eight crore fourty seven lakh only) (the "Threshold Technical Capacity")as further adjusted in accordance with clause 2.2.2.5 (i) & (ii), is more than Rs. 300.54 crore (Rupees three hundred crore fifty four lakh only) (the "Threshold Technical Capacity")
5	2.2.2.2 (ii)	Provided that at least one similar work of 25% of Estimated Project Cost Rs. 49.74 crore (Rupees fourty nine crore seventy four lakh only)	Provided that at least one similar work of 25% of Estimated Project Cost Rs. 50.09 crore (Rupees fifty crore nine lakh only)
6	2.2.2.3 (i)	The Bidder shall have a minimum Net Worth (the "Financial Capacity") of Rs. 9.95 Crore (Rupees nine crore ninety five lakh only)	The Bidder shall have a minimum Net Worth (the "Financial Capacity") of Rs. 10.02 Crore (Rupees ten crore two lakh only)
7	2.2.2.3 (ii)	The Bidder shall have a minimum Average Annual Turnover (updated to the price level of the year based on factors indicated in table below) of Rs 39.80 Crore	The Bidder shall have a minimum Average Annual Turnover (updated to the price level of the year based on factors indicated in table below)

		(Rupees thirty nine crore eighty lakh only)	of Rs 40.07 Crore (Rupees forty crore seven lakh only)
8	2.2.2.6 (ii)	However, receipts of or work executed amount less than Rs. 19.90 Crore (Rupees nineteen crore ninety lakh only)	However, receipts of or work executed amount less than Rs. 20.04 Crore (Rupees twenty crore four lakh only)
9	RFP- Clause 2.11.2 (e)	Copy of Demand Draft towards cost of Bid document of Rs 20,000 (Rupees twenty thousands)	Copy of Demand Draft towards cost of Bid document of Rs 30,000 (Rupees thirty thousands)
10	3.16.1 (h)	Copy of Demand Draft towards cost of Bid document of Rs 20,000 (Rupees twenty thousands)	Copy of Demand Draft towards cost of Bid document of Rs 30,000 (Rupees thirty thousands)
11	Schedule-H	As per Existing	Modified as Per Annexure-I


(K K Agarwal)

Dy. General Manager (T)

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:

ITEM	WEIGHTAGE IN PERCENTAGE TO THE CONTRACT PRICE	STAGE FOR PAYMENT	PERCENTAGE WEIGHTAGE
1	2	3	4
Road works including culverts, widening and repair of culverts.	99.31%	A-Widening and Strengthening of existing road	
		(1) Earthwork for Earthen Shoulder	1.17%
		(2) Sub Base courses (GSB)	16.23%
		(3) Non Bituminous Base Course (WMM)	18.09%
		(4) Dense Bituminous Macadam (DBM)	45.62%
		(5) Wearing coat (BC)	18.89%
		(6) Widening and repair of culverts	0.00%
		B 1- Reconstruction / New two lane alignment / bypass (Flexible pavement)	
		(1) Earthwork up to top of the sub-grade	0.00%
		(2) Sub Base Course	0.00%

ITEM	WEIGHTAGE IN PERCENTAGE TO THE CONTRACT PRICE	STAGE FOR PAYMENT	PERCENTAGE WEIGHTAGE
1	2	3	4
		(3) Non Bituminous Base Course	0.00%
		(4) Bituminous Base Course	0.00%
		(5) Wearing coat	0.00%
		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	0.00%
		(2) Sub Base Course	0.00%
		(3) Non Bituminous Base Course	0.00%
		(4) Bituminous Base Course	0.00%
		(5) Wearing coat	0.00%
		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%

ITEM	WEIGHTAGE IN PERCENTAGE TO THE CONTRACT PRICE	STAGE FOR PAYMENT	PERCENTAGE WEIGHTAGE
1	2	3	4
		(4) Pavement Quality Control (PQC) course	0.00%
		D - Reconstruction and New culverts on existing road, Realignments, bypasses:	
		Culverts (Length <6m)	
		a - Pipe Culverts	0.00%
		b - Box Culverts	0.00%
Minor Bridges / underpasses / over passes	0.69%	A 1- Widening and repairs of Minor Bridges (length >6m and <60m)	
		Minor Bridges	100.00%
		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.	0.00%
		(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.	0.00%
		(3) Approaches: on completion of approaches including Retaining walls, stone pitching, protection works complete in all respect, test on completion in all respects and fit for use.	0.00%

ITEM	WEIGHTAGE IN PERCENTAGE TO THE CONTRACT PRICE	STAGE FOR PAYMENT	PERCENTAGE WEIGHTAGE
1	2	3	4
		(4) Guide bunds and river training works: on completion of guide bunds and repair training works complete in all respects.	0.00%
		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.	0.00%
		(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.	0.00%
		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.	0.00%
		(3) Approaches : On completion of approaches including Retaining walls/ Reinforced earth walls, stone pitching, protection works complete in all respect and fit for use.	0.00%

ITEM	WEIGHTAGE IN PERCENTAGE TO THE CONTRACT PRICE	STAGE FOR PAYMENT	PERCENTAGE WEIGHTAGE
1	2	3	4
Major bridge (length > 60m) works and RoB / RUB / Elevated sections / Flyovers including viaducts, if any	0.00%	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	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 upto top	0.00%
		(7) Guide bunds, River Training works etc.	0.00%
		(8) Approaches (including Retaining walls, stone pitching and protection works)	0.00%
		B 1 - Widening and repair of	

ITEM	WEIGHTAGE IN PERCENTAGE TO THE CONTRACT PRICE	STAGE FOR PAYMENT	PERCENTAGE WEIGHTAGE
1	2	3	4
		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%

ITEM	WEIGHTAGE IN PERCENTAGE TO THE CONTRACT PRICE	STAGE FOR PAYMENT	PERCENTAGE WEIGHTAGE
1	2	3	4
		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%
		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)	0.00%
		C 2 - New Elevated sections / Fly overs / Grade Separators	
		1) Foundation	0.00%
		2) Sub Structure	0.00%

ITEM	WEIGHTAGE IN PERCENTAGE TO THE CONTRACT PRICE	STAGE FOR PAYMENT	PERCENTAGE WEIGHTAGE
1	2	3	4
		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	0.00%	(i) Toll Plaza	0.00%
		(ii) Road side drains	
		Lined Drain	0.00%
		Unlined Drain	0.00%
		(iii) Road Signs, markings, km stones, safety devices,Road furnitures etc	0.00%
		(iv) Project facilities	
		(a) Bus Bays	0.00%
		(b) Truck lay byes	0.00%
		© Rest Areas	0.00%
		(d) Others	
		a) Clearing n Grubbing & Dismantling works	0.00%
		b) improvement of Junctions	0.00%
		c) Sand Filling in embankment in Pond Locations	0.00%
		d) Turfing and hydroseeding	0.00%

ITEM	WEIGHTAGE IN PERCENTAGE TO THE CONTRACT PRICE	STAGE FOR PAYMENT	PERCENTAGE WEIGHTAGE
1	2	3	4
		e) Traffic Aid Post	0.00%
		f) Lighting in Built-up areas	0.00%
		(v) Road side Plantation	0.00%
		(vi) Repair of Protection works other than approaches to the bridges, elevated sections / flyovers / grade separators and RoBs/RuBs	
		(a) Crash Barrier	0.00%
		(b) Parapet wall	0.00%
		© Retaining wall	0.00%
		(d) Breast Wall	0.00%
		(e) Gabion	0.00%
		f) River Training works /Pitching on Slopes	0.00%
		(vii) Safety and traffic management during construction	
		*	

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 for Earthen Shoulder	1.17%	Unit of measurement is linear length. Payment of each stage shall be made on pro rata basis on completion of a stage in a length of not less than 10 (ten) percent of the total length.
(2) Sub Base courses (GSB)	16.23%	
(3) Non Bituminous Base Course (WMM)	18.09%	
(4) Dense Bituminous Macadam (DBM)	45.62%	
(5) Wearing coat (BC)	18.89%	
(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 atleast <u>one culvert</u> .
B 1- Reconstruction / New two lane alignment / bypass (Flexible 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 full length or 0.5 (Zero Point Five) km. length, whichever is less.
(2) Sub Base Course	0.00%	
(3) Non Bituminous Base Course	0.00%	
(4) Bituminous Base Course	0.00%	
(5) Wearing coat	0.00%	
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.

STAGE FOR PAYMENT	PERCENTAGE WEIGHTAGE	PAYMENT PROCEDURE
(2) Earthwork in shoulders	0.00%	Payment of each stage shall be made on pro rata basis on completion of a stage in full length or 0.5 (Zero Point Five) km. length, whichever is less.
(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	0.00%	Unit of measurement is linear length. Payment of each stage shall be made on pro rata basis on completion of a stage in full length or 0.5 (Zero Point Five) km. length, whichever is less.
(2) Sub Base Course	0.00%	
(3) Non Bituminous Base Course	0.00%	
(4) Bituminous Base Course	0.00%	
(5) Wearing coat	0.00%	
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 full length or 0.5 (Zero Point Five) km. length, whichever is less.
(2) Sub Base Course	0.00%	
(3) Dry Lean Concrete (DLC) Course	0.00%	
(4) Pavement Quality Control (PQC) course	0.00%	
D - Reconstruction and New culverts on existing road, Realignment, bypasses:		
Culverts (Length <6m)		Cost of each 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 atleast <u>one culvert</u> .
a - Pipe Culverts	0.00%	
b - Box Culverts	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 = $P \times \text{weightage for road work} \times \text{weightage for bituminous work} \times (1/L)$

Where,

P = Contract Price

L = Total length in km

Similarly, the rates per km for 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	100.00%	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.	0.00%	(1) Foundation + Sub Structure: Cost of each minor bridge shall be determined on pro rata basis with respect to the total linear length of the minor bridges. Payment against Foundation + Sub Structure shall be made on pro rata basis on completion of a stage ie. not less than 10% of the scope of Foundation + Sub Structure of each bridge subject to completion of atleast two foundations along with sub structure upto abutment/pier cap level of each bridge. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.

STAGE of PAYMENT	PERCENTAGE WEIGHTAGE	Payment Procedure
(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.	0.00%	(2) 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.
(3) Approaches: on completion of approaches including Retaining walls, stone pitching, protection works complete in all respect and fit for use.	0.00%	(3) 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.
(4) Guide bunds and river training works: on completion of guide bunds and repair training works complete in all respects.	0.00%	(4) 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 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		

STAGE of PAYMENT	PERCENTAGE WEIGHTAGE	Payment Procedure
(1) Foundation + Sub-structure: on completion of foundation work including foundation for wing and return wall, abutments, piers upto the abutment/pier cap.	0.00%	(1) Foundation + Sub Structure: Cost of each underpass / overpass shall be determined on pro rata basis with respect to the total linear length of the underpass / overpass. Payment against Foundation + Sub Structure shall be made on pro rata basis on completion of a stage ie. not less than 10% of the scope of Foundation + Sub Structure of each underpass / overpass subject to completion of atleast two foundations along with sub structure upto abutment/pier cap level of each underpass / overpass. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
(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.	0.00%	(2) 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.
(3) Approaches: on completion of approaches including Retaining walls, stone pitching, protection works complete in all respect and fit for use.	0.00%	(3) 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
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 10% 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 against Sub-structure shall be made on pro-rata basis on completion of a stage i.e. not less than 10% 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..</p>
(3) Super-structure (including bearings)	0.00%	<p>(iii) 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>
(4) Wearing Coat including expansion joints	0.00%	<p>(iv) Wearing Coat: Payment shall be made on completion of wearing coat including expansion joints complete in all respects as specified.</p>

STAGE of PAYMENT	PERCENTAGE WEIGHTAGE	Payment Procedure
(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 Bunds, 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		
(1) Foundation	0.00%	(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 10% 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	0.00%	(ii) Sub-Structure: Payment against Sub-structure shall be made on pro-rata basis on completion of a stage i.e. not less than 10% 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..
(3) Super-structure (including bearings)	0.00%	(iii) 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.

STAGE of PAYMENT	PERCENTAGE WEIGHTAGE	Payment Procedure
(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 Bunds, 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.
B 1 - Widening and repair of		
a) RoB		
b) RuB		
1) Foundation	0.00%	(i) 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 10% of the scope of foundation of the RoB / RuB subject to completion of at least two foundations of the RuB/ROB. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.

STAGE of PAYMENT	PERCENTAGE WEIGHTAGE	Payment Procedure
2) Sub Structure	0.00%	(ii) Sub-Structure: Payment against Sub-structure shall be made on pro-rata basis on completion of a stage i.e. not less than 10% 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.
3) Super Structure (Including bearings)	0.00%	(iii) 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		

STAGE of PAYMENT	PERCENTAGE WEIGHTAGE	Payment Procedure
1) Foundation	0.00%	<p>(i) 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 10% 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>
2) Sub Structure	0.00%	<p>(ii) Sub-Structure: Payment against Sub-structure shall be made on pro-rata basis on completion of a stage i.e. not less than 10% 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>
3) Super Structure (Including bearings)	0.00%	<p>(iii) 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>
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%	<p>(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.</p>
5) miscellaneous items like hand rails, crash barrier, road markings etc	0.00%	<p>(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.</p>
6) wing walls / return walls	0.00%	<p>(vi) Wing walls/return walls: Payments shall be made on completion of all wing walls/return walls complete in all respects as specified.</p>

STAGE of PAYMENT	PERCENTAGE WEIGHTAGE	Payment Procedure
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.
C 1 - Widening and repair of Elevated sections / Fly overs / Grade Separators		
1) Foundation	0.00%	(i) Foundation: Cost of each RoB / RuB 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 10% of the scope of foundation of the structure subject to completion of atleast two foundations of the structure. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
2) Sub Structure	0.00%	(ii) Sub-Structure: Payment against Sub-structure shall be made on pro-rata basis on completion of a stage i.e.not less than 10% 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.
3) Super Structure (Including bearings)	0.00%	(iii) 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	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.

STAGE of PAYMENT	PERCENTAGE WEIGHTAGE	Payment Procedure
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.
C 2 - New Elevated sections / Fly overs / Grade Separators		
1) Foundation	0.00%	(i) Foundation: Cost of each RoB / RuB 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 10% of the scope of foundation of the structure subject to completion of atleast two foundations of the structure. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
2) Sub Structure	0.00%	(ii) Sub-Structure: Payment against Sub-structure shall be made on pro-rata basis on completion of a stage i.e.not less than 10% 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.
3) Super Structure (Including bearings)	0.00%	(iii) 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	0.00%	(vi) Wing walls/return walls: Payments shall be made on completion of all wing walls / return walls

STAGE of PAYMENT	PERCENTAGE WEIGHTAGE	Payment Procedure
		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.

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.

1.3.4 Other works.

Procedure for estimating the value of other works done shall be as stated in table 1.3.4.

Table 1.3.4

STAGE FOR PAYMENT	PERCENTAGE WEIGHTAGE	PAYMENT PROCEDURE
Other Works		
(i) 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 Plaza.
(ii) Road side drains		
Lined Drain	0.00%	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.
Unlined Drain	0.00%	
(iii) Road Signs, markings, km stones, safety devices, Road furnitures etc	0.00%	
(iv) Project facilities		
(a) Bus Bays	0.00%	Payment shall be made on pro rata basis for completed facilities.
(b) Truck lay byes	0.00%	
© Rest Areas	0.00%	
(d) Others	0.00%	
a) Clearing n Grubbing & Dismantling works	0.00%	
b) improvement of Junctions	0.00%	
c) Sand Filling in embankment in Pond Locations	0.00%	
d) Turfing and hydroseeding	0.00%	
e) Traffic Aid Post	0.00%	

STAGE FOR PAYMENT	PERCENTAGE WEIGHTAGE	PAYMENT PROCEDURE
f) Lighting in Built-up areas	0.00%	
(v) Road side 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.
(vi) Repair of Protection works other than approaches to the bridges, elevated sections / flyovers / grade separators and RoBs/RuBs		
(a) Crash Barrier	0.00%	
(b) Parapet wall	0.00%	
© Retaining wall	0.00%	
(d) Breast Wall	0.00%	
(e) Gabion	0.00%	
f) River Training works /Pitching on Slopes	0.00%	
(vii) Safety and traffic management during construction	0.00%	Payment shall be made on pro rata basis every six months.

2. Procedure for payment for Maintenance

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

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

