

राष्ट्रीय राजमार्ग एवं अवसंरचना विकास निगम लिमिटेड

National Highways & Infrastructure Development Corporation Limited

NHIDCL/Assam/NH-29/Section 4/2020/ 187141/398

Date 14.08.2020

Corrigendum V

RFP for “Widening/Improvement to 4 (Four) Lane with Paved Shoulder from km 81+000 to km 95+400 (Design Chainage 80+930 to 96+400) of Loring Thepi – Ganapath Gaur Gaon Section - (Package-4) of NH-29 in the state of Assam under Bharatmala Pariyojana on EPC mode”

CPP Tender ID : 2020_NHIDC_558087_1

A)

Sl. No.	Ref. RFP Section	Cl. No	Existing RFP Provision	Revised / Amended Provision
1	Schedule A Annex-I	3	Carriageway The present carriageway of the Project Highway is double Lane with paved shoulder. Average width of the carriageway is 9.0 m to 10.0 m. The type of the existing pavement is flexible.	Carriageway The present carriageway of the Project Highway is two with paved shoulder and earthen shoulder on both side. Average width of the carriageway is 9.0 m to 10.0 m. The type of the existing pavement is flexible.
2	Schedule B Annex-I	3 (i)	At-grade intersections	The following note is added: Note: In case any additional junction is identified during construction period, the same shall be improved as per manual and will not qualify for Change of Scope
3	Schedule B Annex-I	6	Roadside Drainage	The following note is added: Note: The EPC Contractor shall ensure proper functioning of road side drain by designing them as per site condition and considering the outfall location.
4	Schedule B Annex-I	7 (ii) a-d	Culverts	The following note is added: Note: The span and opening of these culverts as specified are indicative. The design of waterway has to be done as per site requirement, considering the site requirements. Change in this configuration <u>shall not attract provisions of Article of this Agreement</u>

Sl. No.	Ref. RFP Section	Cl. No	Existing RFP Provision	Revised / Amended Provision
5	Schedule B Annex-I	7 (iii) a-b	Bridges	The following note is added: Note: The span and opening of these bridges as specified are indicative. The design of waterway has to be done as per site requirement, considering the site requirements. Change in this configuration <u>shall not attract provisions of Article of this Agreement</u>
6	Schedule B-1		Shifting of Utilities	The following note is added: Note: The quantity given above is indicative, the contractor has to finalize the actual requirement of shifting various utilities in due consultation with Authority's Engineer and Authority, duly verified by the concerned utility authorities and approved by Authority.
7	Schedule C	2 (C)	Street Lighting	The following note is added: The EPC Contractor will obtain all permissions / load sanctions / power supply, etc. from the Electricity Authorities. The Contractor shall be solely responsible for submission of application along with all necessary documents to supply authority. Further the Contractor shall be responsible for follow up of the application and getting the release of the supply to lighting. All statutory approvals / permissions have to be obtained by the Contractor for energizing / operating the lights.
8	Schedule M	2(ii)	The amount to be deducted from monthly lump-sum payment for non-compliance of particular item shall be calculated as under: $R = \frac{P}{100} \times (M1 \text{ or } M2) \times \frac{L1}{L}$ Where, P=Percentage of particular item/Defect/deficiency for deduction M1= Monthly lump-sum payment in accordance para 1.2 above of this Schedule M2= Monthly lump-sum payment in accordance para 1.2 above of this Schedule L1= Non-complying length L = Total length of the road, R= Reduction (the amount to be deducted for non-compliance for a particular item/Defect/deficiency The total amount of reduction shall be arrived at by summation of reductions for such items/Defects/deficiency or non-compliance. For any Defect in a part of one kilometer, the non-conforming	The amount to be deducted from monthly lump-sum payment for non-compliance of particular item shall be calculated as under: $R = \frac{P}{100} \times M \times \frac{L1}{L}$ Where, P=Percentage of particular item/Defect/deficiency for deduction M=Monthly lump-sum payment in accordance with the Bid L1=Non-complying length L = Total length of the road, R=Reduction (the amount to be deducted for non-compliance for a particular item/Defect/deficiency) The total amount of reduction shall be arrived at by summation of reductions for such items / Defects / deficiency or non-compliance. For any Defect in a part of one kilometer, the non-conforming length shall be taken as one kilometer.

le

Sl. No.	Ref. RFP Section	Cl. No	Existing RFP Provision	Revised / Amended Provision
			length shall be taken as one kilometer.	
9	Schedule P	3(i)	<p>Insurance against injury to persons and damage to property</p> <p>The Contractor shall insure against its liability for any loss, damage, death or bodily injury, or damage to any property (except things insured under Paragraphs 1 and 2 of this Schedule or to any person (except persons insured under Clause 20.9), which may arise out of the Contractor's performance of this Agreement. This insurance shall be for a limit per occurrence of not less than the amount stated below with no limit on the number of occurrences.</p> <p>The insurance cover shall be not less than: Rs. [*****]</p>	<p>Insurance against injury to persons and damage to property</p> <p>The Contractor shall insure against its liability for any loss, damage, death or bodily injury, or damage to any property (except things insured under Paragraphs 1 and 2 of this Schedule or to any person (except persons insured under Clause 20.9), which may arise out of the Contractor's performance of this Agreement. This insurance shall be for a limit per occurrence of not less than the amount stated below with no limit on the number of occurrences.</p> <p>The insurance cover shall be not less than: Rs. 1.5 Crore (Rupees One Crore Fifty Lakhs)</p>

k

B) The Existing Schedule H has been modified and now may be read as under:

Revised / Amended Provision

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 of Payment	Percentage Weightage
1	2	3	4
Road works including culverts, widening and repair of culverts.	66.23%	A- Widening and strengthening of existing road	
		(1)) Earthwork up to top of sub-grade	7.19%
		(2) Sub Base Course	7.39%
		(3) Non Bituminous Base Course	8.13%
		(4) Bituminous Base Course	15.07%
		(5) Wearing Coat	6.18%
		(6) Widening and repair of culvert	0.90%
		B.1- Reconstruction / New 2-Lane realignment/ bypass (Flexible Pavement)	
		(1)) Earthwork up to top of sub-grade	7.92%
		(2) Sub Base Course	9.08%
		(3) Non Bituminous Base Course	9.33%
		(4) Bituminous Base Course	14.33%
		(5) Wearing Coat	5.62%
		B.2- Reconstruction / New 2-Lane realignment/ bypass (Rigid Pavement)	0.00%
		(1)) Earthwork up to top of 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 (Flexible Pavement)	0.00%
		(1)) Earthwork up to top of sub-grade	0.80%

Item	Weightage in percentage to the Contract Price	Stage of Payment	Percentage Weightage
1	2	3	4
		(2) Sub Base Course	1.20%
		(3) Non Bituminous Base Course	1.58%
		(4) Bituminous Base Course	1.69%
		(5) Wearing Coat	0.98%
		C.2- Reconstruction / New Service road (Rigid Pavement)	0.00%
		(1)) Earthwork up to top of 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- Re-Construction and New culverts on existing road, realignments, bypasses:	0.00%
		Culverts (Length <6 m)	2.61%
Minor Bridges / Underpasses / Overpasses	7.60%	A.1- Widening and repairs of Minor Bridges (length>6m and <60m)	
		Minor Bridges	24.02%
		A.2- New Minor Bridges (length>6m and <60m)	0.00%
		(1) Foundation	22.48%
		(2) Sub-structure	14.79%
		(2) Super-Structure: On completion of the 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.	25.75%
		(3) Approaches: On completion of approaches including retaining walls, stone pitching, protection works complete in all respect and fit for use.	4.78%
		(4) Guide Bunds and River Training works :	
		On completion of Guide Bunds and river Training works complete in all respects	8.18%
		B.1- Widening and Repair of underpasses/overpasses	
		Underpasses/ Overpasses	0.00%
		B.2- New underpasses/ overpasses	
(1) Foundation +Sub-Structure: On completion of the foundation work including foundations for wing and return walls, abutments, piers upto the abutment/pier cap.	0.00%		
(2) Super-structure: On completion of the super-structure in	0.00%		

ke

Item	Weightage in percentage to the Contract Price	Stage of Payment	Percentage Weightage
1	2	3	4
		all respects including wearing coat, bearings, expansion joints, hand rails, crash barriers, road signs & makings, tests on completion etc. complete in all respect.	
		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%
			0.00%
Major Bridges (Length >60m) works and ROB/RUB/elevated section/flyover including viaducts if any.	12.27%	A.1 - Widening and repairs 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 barriers, 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	0.00%
		(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 barriers, 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%		

le

Item	Weightage in percentage to the Contract Price	Stage of Payment	Percentage Weightage
1	2	3	4
		B.1- Widening and Repair of underpasses/overpasses	0.00%
		(a) ROB	0.00%
		(b) RUB	0.00%
		(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 respects as specified and (b) in case of RUB- rigid pavement under RUB including drainage facility complete in all respects as specified.	0.00%
		(5) Miscellaneous Items like hand rails, crash barriers, 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	0.00%
		(a) ROB	0.00%
		(b) RUB	0.00%
		(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 respects as specified and (b) in case of RUB- rigid pavement under RUB including drainage facility complete in all respects as specified.	0.00%
		(5) Miscellaneous Items like hand rails, crash barriers, 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 Section/Flyovers/Grade Separators	0.00%
		(1) Foundation	0.00%

k

Item	Weightage in percentage to the Contract Price	Stage of Payment	Percentage Weightage
1	2	3	4
		(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 barriers, road markings etc.)	0.00%
		(6) Wing walls/return walls	0.00%
		(7) Approaches (including Retaining walls/ Reinforced Earth wall, stone pitching and protection works)	0.00%
		C.2- New Elevated Section/Flyovers/Grade Separators	0.00%
		(1) Foundation	9.57%
		(2) Sub-structure	11.15%
		(3) Super-structure (including bearings)	7.32%
		(4) Wearing Coat including expansion joints.	0.99%
		(5) Miscellaneous Items like hand rails, crash barriers, road markings etc.)	0.69%
		(6) Wing walls/return walls	0.00%
		(7) Approaches (including Retaining walls/ Reinforced Earth wall, stone pitching and protection works)	70.28%
Other works	13.90%	(i) Toll Plaza	0.00%
		(ii) Road side drains	28.74%
		(iii) Road signs, markings, km stones, safety devices,	29.51%
		(iv) Project facilities	0.00%
		(a) Bus Bays & Bus Shelter	1.68%
		(b) Truck lay-byes	0.00%
		(c) Rest areas	0.00%
		(d) Electrical Works	3.33%
		(e) Junctions	17.32%
		(f) others	0.00%
		(v) Road side plantation	6.51%
		(vi) Protection works other than elevated sections/ flyovers/grade separators and ROBs/RUBs.	0.00%
		(vii) Safety and traffic management during construction	0.00%
(vii) Maintainance of Existing road	10.78%		

h

Item	Weightage in percentage to the Contract Price	Stage of Payment	Percentage Weightage
1	2	3	4
		(ix) Median & Island Filling	2.13%
Total	100.00%	Total %	400.00%

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 of Payment	Percentage - weightage	Payment Procedure
A-Widening and Strengthening of existing road		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 5% (five per cent) of the total length.
(1) Earthwork up to top of the sub-grade	7.19%	
(2) Sub-Base Course	7.39%	
(3) Non Bituminous Base Course	8.13%	
(4) Bituminous Base Course	15.07%	
(5) Wearing Coat	6.18%	
(6) Widening and repair of culverts	0.90%	Cost of completed culverts shall be determined pro rata with respect to the total number of culverts. Payment shall be made on the completion of at least one culvert.
B.1- Reconstruction/New 2-lane realignment/bypass (Flexible pavement)		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 1 (one) km. length whichever is less.
(1) Earthwork up to top of the sub-grade	7.92%	
(2) Sub-Base Course	9.08%	
(3) Non Bituminous Base Course	9.33%	
(4) Bituminous Base Course	14.33%	
(5) Wearing Coat	5.62%	
B.2- Reconstruction / New 2-Lane realignment/ bypass (Rigid Pavement)		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 1(one) km. length whichever is less.
(1)) Earthwork up to top of sub-grade	0.00%	
(2) Sub Base Course	0.00%	

Stage of Payment	Percentage - weightage	Payment Procedure
(3) Dry Lean Concrete (DLC) Course	0.00%	
(4) Pavement Quality Control (PQC) Course	0.00%	
C.1- Reconstruction / New Service road (Flexible Pavement)		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 1(one) km. length whichever is less.
(1)) Earthwork up to top of sub-grade	0.80%	
(2) Sub Base Course	1.20%	
(3) Non Bituminous Base Course	1.58%	
(4) Bituminous Base Course	1.69%	
(5) Wearing Coat	0.98%	
C.2- Reconstruction / New Service road (Rigid Pavement)		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 1(one) km. length whichever is less.
(1)) Earthwork up to top of 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- Re-Construction and New culverts on existing road, realignments, bypass:		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 culvert.
(1) Culverts (Length <6 m)	2.61%	

@. 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 table1.3.2:

Table 1.3.2

Stage of Payment	Weightage	Payment Procedure
A.1- Widening and repair of minor bridges	24.02%	Cost of each minor bridge shall be determined on pro rata basis with respect to the

Stage of Payment	Weightage	Payment Procedure
(length > 6m and <60m)		total linear length of the minor bridges. Payment shall be made on completion of widening & repair works of a minor bridge.
A.2- New minor bridges		
(i) Foundation	22.48%	(i) Foundation: Cost of each Minor Bridge shall be determined on pro rata basis with respect to the total linear length (m) of the Minor 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 minor Bridge subject to completion of atleast two foundations of the minor Bridge. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
(ii) Sub-structure	14.79%	(ii) 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 minor bridge subject to completion of at least two sub-structures of abutments/piers up to abutment/pier cap level of the minor bridge.
(ii) Super-structure: On completion of the 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.	25.75%	(ii) 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.
(iii) Approaches: On completion of approaches including Retaining walls, stone pitching, protection works complete in all respect and fit for use.	4.78%	(iii) 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.
(iv) Guide Bunds and River Training Works: On completion of Guide Bunds and river Training Works complete in all respects	8.18%	(iv) 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 respects as specified.
B.1- Widening and repair of 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 underpasses/overpasses. Payment shall be made on the completion of widening & repair works of a underpass/overpass.
B.2- New Underpasses/Overpasses:	0.00%	
(i) Foundation +Sub-Structure: On completion of the foundation work including foundations for wing and return walls, abutments, piers up to the abutment/pier cap.	0.00%	(i) foundation +Sub-Structure: cost of each Underpass/Overpass shall be determined on pro rata basis with respect to the total linear length (m) of the Underpasses/Overpasses. Payment against foundation + sub-structure shall be made on pro-rata basis on completion of a stage i.e. not less than 25% of the scope of foundation +sub-structure of each Underpasses/Overpasses subject to completion of at least two

Stage of Payment	Weightage	Payment Procedure
		foundations along with sub-structure up to abutment/pier cap each underpass/overpass. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
(ii) Super-structure: On completion of the 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. 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%	(ii)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.
(iii) 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%	(iii) Approaches: Payment shall be made on pro-rata basis on completion of a stage i.e. completion of approaches in all respect as specified.

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	Weightage	Payment Procedure
A.1- Widening and repairs of Major Bridges		
(i) Foundation	0.00%	(i) 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 where specified.

h

Stage of Payment	Weightage	Payment Procedure
(ii) 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 25% of the scope of sub-structure of the major bridge subject to completion of atleast two sub-structures of abutments/piers upto abutment/pier cap level of the major bridge.
(iii) 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-structures including bearings of at least one span in all respects as specified.
(iv) 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.
(v) Miscellaneous Items like hand rails, crash barriers, road markings etc.	0.00%	(v) Miscellaneous : Payment 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	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.
(vii) Guide Bunds, River Training works etc.	0.00%	(vii) Guide Bunds, River Training works : Payment 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%	(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		
(i) Foundation	0.00%	(i) 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 at least 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 where specified.
(ii) 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 25% of the scope of sub-structure of the major bridge subject to completion of at least two sub-structures of abutments/piers upto abutment/pier cap level of the major bridge.
(iii) 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-structures including bearings of at least one span in all respects as specified.
(iv) 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.
(v) Miscellaneous Items like hand rails, crash barriers, road markings etc.	0.00%	(v) Miscellaneous : Payment 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	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	Weightage	Payment Procedure
(vii) Guide Bunds, River Training works etc.	0.00%	(vii) Guide Bunds, River Training works : Payment 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%	(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 repairs of		
(a) ROB		
(b) RUB		
(i) 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/RUBs. 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 at least two foundations of the ROB/RUB. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
(ii) 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 25% of the scope of sub-structure of the ROB/RUB subject to completion of at least two sub-structures of abutments/piers upto abutment/pier cap level of the ROB/RUB.
(iii) 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-structures including bearings of at least one span in all respects as specified.
(iv) Wearing Coat including expansion joints in case of ROB. In case of RUB, rigid pavement under RUB including drainage facility 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 as specified.
(v) Miscellaneous Items like hand rails, crash barriers, road markings etc.	0.00%	(v) Miscellaneous : Payment 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	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.
(vii) 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	0.00%	
(a) ROB	0.00%	
(b) RUB	0.00%	
(i) Foundation	0.00%	(i) Foundation: Cost of each ROB/RUB shall be determined on pro rata basis with respect to the total

k

Stage of Payment	Weightage	Payment Procedure
		linear length (m) of the ROBs/RUBs. 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 at least two foundations of the ROB/RUB. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
(ii) 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 25% of the scope of sub-structure of the ROB/RUB subject to completion of atleast two sub-structures of abutments/piers upto abutment/pier cap level of the ROB/RUB.
(iii) 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-structures including bearings of at least one span in all respects as specified.
(iv) Wearing Coat including expansion joints in case of ROB. In case of RUB, rigid pavement under RUB including drainage facility 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 as specified.
(v) Miscellaneous Items like hand rails, crash barriers, road markings etc.	0.00%	(v) Miscellaneous : Payment 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	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.
(vii) 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 repairs of Elevated Section/Flyovers/ Grade Separators	0.00%	
(i) Foundation	0.00%	(i) 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 at least 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 where specified.
(ii) 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 25% of the scope of sub-structure of the major bridge subject to completion of at least two sub-structures of abutments/piers upto abutment/pier cap level of the major bridge.

h

Stage of Payment	Weightage	Payment Procedure
(iii) 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-structures including bearings of at least one span in all respects as specified.
(iv) 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.
(v) Miscellaneous Items like hand rails, crash barriers, road markings etc.	0.00%	(v) Miscellaneous : Payment 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	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.
(vii) 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 Section/Flyovers/ Grade Separators	0.00%	
(i) Foundation	9.57%	(i) 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 at least 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 where specified.
(ii) Sub-structure	11.15%	(ii) 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 at least two sub-structures of abutments/piers upto abutment/pier cap level of the major bridge.
(iii) Super-structure (including bearings)	7.32%	(iii) Super-structure : Payment shall be made on pro-rata basis on completion of a stage i.e. completion of super-structures including bearings of at least one span in all respects as specified.
(iv) Wearing Coat including expansion joints	0.99%	(iv) 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 barriers, road markings etc.	0.69%	(v) Miscellaneous : Payment 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	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.
(vii) Approaches (including	70.28%	(vii) Approaches : Payment shall be made on completion of both approaches including stone pitching,

Stage of Payment	Weightage	Payment Procedure
Retaining walls/Reinforced Earth wall, stone pitching and protection works)		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 of Payment	Weightage	Payment Procedure
(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 plazas.
(ii) Road side drains	28.74%	Unit of measurement is linear length in km. Payment shall be made on pro rata basis on completion of a stage in a length of not less than 10% (ten per cent) of the total length.
(iii) Road signs, Markings, KM stones, Safety devices, ...	29.51%	
(iv) Project facilities	0.00%	Payment shall be made on pro rata basis for completed facilities.
a) Bus bays	1.68%	
b) Truck lay-byes	0.00%	
c) Rest areas	0.00%	
d) Electrical Works	3.33%	
e) Junctions	17.32%	
f) others	0.00%	
(v) Roadside plantation	6.51%	Unit of measurement is linear length. Payment shall be made on pro rata basis on completion of a stage in a length of not less than 10% (ten per cent) of the total length.
(vi) Repair of protection works other than elevated sections/flyovers/grade separators and ROBs/RUBs	0.00%	
(vii) Safety and traffic management during	0.00%	Payment shall be made on prorata basis every six months.

62

Stage of Payment	Weightage	Payment Procedure
construction		
(viii) Median & island Filling	2.13%	Unit of measurement is linear length in km. Payment shall be made on pro rata basis on completion of a stage in a length of not less than 10% (ten per cent) of the total length.
(ix) Maintenance of Existing road	10.78%	Unit of measurement is linear length in km. Payment shall be made on pro rata basis on completion of a stage in a length of not less than 10% (ten per cent) of the total length.



14/8/2020
(K. C. Bhatt)

Dy. General Manager(T)