

राष्ट्रीय राजमार्ग एवं अवसंरचना विकास निगम लिमिटेड

सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार

तीसरी मंजिल, पीटीआई बिल्डिंग, 4-संसद मार्ग, नई दिल्ली-110001

National Highways & Infrastructure Development Corporation Limited

Ministry of Road Transport & Highways, Govt. of India

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(भारत सरकार का उद्यम)



BHARATMALA  
ROAD TO PROSPERITY



BUILDING INFRASTRUCTURE - BUILDING THE NATION

CIN: U45400DL2014GOI269062

(A Government of India Enterprise)

## Corrigendum No. II

NHIDCL/Megh./R-M-B/Package-II(N-M)/2021

2098

01.09.2021

To,

All prospective Bidders,

Sub: Improvement/widening to Two-laning with earthen shoulder of Nongjri (Design Ch. 30.00km) to Maheshkola (Design Ch. 55.525km) [R-M-B Package-II] on SH-4 section of Ranikor-Maheshkhola-Baghmara Project in the state of Meghalaya on EPC basis- **Modification in tender documents- reg.**

Ref: RFP dated 23.07.2021

Tender ID: -2021\_NHIDC\_640079\_1

Sir/Madam,

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

Sl. No.	Tender Details	Existing Detail	Modified Detail
1	Estimated Cost (Excl. GST)	₹ 176.16 Cr.	₹ 168.36 Cr.
2	Threshold Technical Capacity In the RFP Cl. 2.2.2.2(i) and Cl. 4 in Data Sheet under Section-7	₹ 88.08 Cr.	₹ 84.18 Cr.
3	Data/Details for similar work (Technical Capacity) In the RFP Cl. 2.2.2.2 and Cl. 5 in Data Sheet under Section-7	₹ 26.42 Cr.	₹ 25.25 Cr.
4	Clause 12 of Schedule B		Modified as Annexure-I of this document
5	Schedules-H	-	Modified schedule-H as per Annexure-II of this document
6	BID Due Date	02.09.2021 (1500 hrs)	09.09.2021 (1500 hrs)
7	NIT, RFP 2.11.1 (f), 2.11.2, 2.12, 2.13, 2.15.2, 3.1.6 (b) and Datasheet of Section-7	Documents shall be submitted physically by Bidder on or before 02.09.2021 (1500 hrs)	Documents shall be submitted physically by Bidder on or before 09.09.2021 (1500 hrs)
8	Opening of Technical BIDs at NHIDCL HQ	03.09.2021 (1630 hrs)	10.09.2021 (1630 hrs)

(Vivekanand Jaiswal)  
Dy. General Manager (T)

**12. Special requirements for hillroads**

The Breast wall shall be constructed as per table given below but not limited to.

Height (m)	Length (m)
3	100
4	400
5	50
6	600
<b>Total</b>	<b>1150</b>

The retaining wall shall be constructed as per table given below but not limited to

Height (m)	Length (m)
1.5	440
2.5	240
3	80
4	140
6	620
<b>Total</b>	<b>1520</b>

## 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.	62.25%	<b>A- Widening and strengthening of existing road</b>	
		(1) Earthwork up to top of the sub-grade	18.14%
		(2) Sub-base Course	6.41%
		(3) Non Bituminous Base Course	3.94%
		(4) Bituminous Base Course	0.83%
		(5) Wearing Coat	3.41%
		(6) Widening and repair of culvert	0.00%
		<b>B1- Reconstruction/ New 2-Lane realignment/bypass (Flexible Pavement)</b>	
		(1) Earthwork up to top of the sub-grade	33.69%
		(2) Sub-base Course	9.61%
		(3) Non Bituminous Base Course	5.91%
		(4) Bituminous Base Course	1.01%
		(5) Wearing Coat	4.17%

		<b>B2- Reconstruction/ New 2-Lane realignment/bypass (Rigid Pavement)</b>	
		(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%
		<b>C1- Reconstruction/ New Service Road (Flexible Pavement)</b>	
		(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%
		<b>C2- Reconstruction/ New Service Road (Rigid Pavement)</b>	
		(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%

		<b>D - Re-Construction and new culverts on existing road, realignments on existing road, realignments, bypasses:</b>	
		Culverts(Length<6m)	12.90%
Minor Bridges/Underpasses/Overpasses	11.18%	<b><u>A1-Widening and Repairs of Minor Bridges (Length&gt;6m and &lt;60m)</u></b>	
		Minor bridges	0.00%
		<b><u>A2-New Minor Bridges (Length&gt;6m and &lt;60m)</u></b>	
		<b>(1) Foundation+Sub Structure:</b>	
		On completion of the foundation work including foundations for wing and return walls ,abutments,piers upto the abutment/pier cap	62.00%
		<b>(2) Super Structure:</b>	
		On completion of the super structure in all respect includong wearing coat, bearings, expansion joints, hand rails, crash barriers,road sign & markings, tests on completion etc. complete in all respect,	33.00%
		<b>(3) Approaches:</b>	
		On completion of approaches including Retaining walls, stone pitching, protection works complete in all respect and fit for use	5.00%

		<b>(4) Guide Bund and River Training Works:</b>	
		On completion of Guide Bund and River Training Works complete in all respect.	0.00%
		<b>B.1- Widening and repair of Underpasses/overpasses</b>	
		Underpasses/Overpasses	0.00%
		<b>B.2- New Underpasses/overpasses</b>	
		<b>(1) Foundation+Sub Structure:</b>	
		On completion of the foundation work including foundations for wing and return walls ,abutments,piers upto the abutment/pier cap	0.00%
		<b>(2) Super Structure:</b>	
		On completion of the super structure in all respect 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 joint complete in all respect as specified and (b) in case of underpass rigid pavement including drainage facility complete in all respects as specified.	

		<b>(3) Approaches:</b>	
		On completion of approaches including Retaining Walls, stone pitching, protection works complete in all respect and fit for use	0.00%
Major Bridge (length>60m) works and RUB/ROB/elevated sections/flyovers including viaducts, if any	2.95%	<b><u>A.1 -Widening and repairs of Major Bridges</u></b>	
		(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%
		<b><u>A.2 -New Major Bridges</u></b>	
		(1) Foundation	40.00%
		(2) Sub-structure	17.00%
		(3) Super-structure (including bearings)	33.00%
		(4) Wearing Coat including expansion joints	5.00%

	(5) Miscellaneous items like hand rails, crash barriers, road markings etc.	5.00%
	(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%
	<b><u>B.1-Widening and repair of</u></b>	
	<b>(a) ROB</b>	
	<b>(b) RUB</b>	
	(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 joint complete in all respect 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><u>B.2-New ROB/RUB</u></b>	
	<b>(a) ROB</b>	
	<b>(b) RUB</b>	



		(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 joint complete in all respect 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>C.1- Widening and repair of Elevated Sections/Flyovers/Grade Separators</b>	
		(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) Approaches (including retaining walls, stone pitching and protection works)	0.00%
		<b>C.2- New Elevated Sections/Flyovers/Grade Separators</b>	

		(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) Approaches (including retaining walls, stone pitching and protection works)	0.00%
Other works	22.78%	(i) Toll Plaza	0.00%
		(ii) Road side drains	12.78%
		(iii) Road signs, markings, km stones, safety devices, ...	17.45%
		(iv) Project facilities	0.00%
		a) Bus bays	1.27%
		b) Truck lay bye	0.00%
		c) Rest Areas	0.00%
		d) Others( Junction and Site Clearance)	5.45%
		(v) Road side plantation	0.00%
		(vi) Repair of protection works other than approaches to the bridges, elevated sections/ flyovers/grade separators and ROB/RUBs	0.00%
		(vii) Safety and traffic management during construction	0.00%
		(viii) Protection works (Includes retaining wall and breast wall )	63.04%
Utilty Shifting	0.85%	PHED	64.75%

		Electric Shifting	35.23%
		Others	

### 1.3 Procedure of estimating the value of workdone.

#### 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
<b>A- Widening and strengthening of existing road</b>		Unit of measurement is linear length. Payment of each stage shall be made on pro rata basis on completion of a stage in a length of not less than 5 (five) percent of the total length.
(1) Earthwork up to top of the sub-grade	18.14%	
(2) Sub-base Course	6.41%	
(3) Non Bituminous Base Course	3.94%	
(4) Bituminous Base Course	0.83%	
(5) Wearing Coat	3.41%	
(6) Widening and repair of culvert	0.00%	Cost of ten completed culverts shall be determined pro rate with respect to the total number of culverts. Payment shall be made on the completion of atleast one culverts.
<b>B1- Reconstruction/ New 2-Lane realignment/bypass (Flexible Pavement)</b>		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.
(1) Earthwork up to top of the sub-grade	33.69%	

(2) Sub-base Course	9.61%	
(3) Non Bituminous Base Course	5.91%	
(4) Bituminous Base Course	1.01%	
(5) Wearing Coat	4.17%	
<b>B2- Reconstruction/ New 2-Lane realignment/bypass (Flexible Pavement)</b>		
(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%	
<b>C1- Reconstruction/ New Service Road (Flexible Pavement)</b>		
(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>C2- Reconstruction/ New Service Road (Rigid Pavement)</b>		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.
(1) Earthwork up to top of the sub-grade	0.00%	

(2) Sub-base Course	0.00%	Cost of ten completed culverts shall be determined pro rate with respect to the total number of culverts. Payment shall be made on the completion of atleast one culverts.
(3) Dry Lean Concrete (DLC) Course	0.00%	
(4) Pavement Quality Control (PQC) Course	0.00%	
<b>D - Re-Construction and new culverts on existing road, realignments on existing road, realignments, bypasses:</b>		
Culverts(Length<6m)	12.90%	

@ For calculation of payment stage for main carriageway the project length shall be converted into equivalent 2 lane length . For example, if the total length of 4 lane main carriageway is 100km , then the equivalent length for calculation of payment stage will be 2x100km. Now, if the total length of bituminous work to be done is 100km, 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 equivalent 2-Lane length in km as defined above.

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 including the length not handed over to contractor under clause 8.3 of this Contract Agreement due to which the contractor is unable to execute the work, may be deducted from the total project length for payment purpose. The total length calculated here is only for payment purpose and will not affect and referred in other clauses of the contract agreement.

### 1.3.2 Minor Bridge and Underpasses/Overpasses

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

Table 1.3.2

Stage of Payment	Percentage - weightage	Payment Procedure
1	2	3
<b><u>A1-Widening and Repairs of Minor Bridges (Length&gt;6m and &lt;60m)</u></b>	0.00%	Cost of each minor bridge shall be determined on pro rata basis with respect to the total linear length of the minor bridges. Payment shall be made on the completion of widening and repair works of a minor bridge.
<b><u>A2-New Minor Bridges</u></b>  <b>(i) Foundation+Sub Structure:</b>  On completion of the foundation work including foundations for wing and return walls ,abutments,piers upto the abutment/pier cap	62.00%	<b>(i) Foundation+Sub Structure:</b> Cost of each minor bridge shall be determined on pro rata basis with respect to the total linear length (m) of the minor bridges. 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 bridge subject to completion of atleast two foundations along with sub structure upto abutment/pier cap level of

		each bridge.
<p><b>(ii) Super Structure:</b></p> <p>On completion of the super structure in all respect including wearing coat, bearings, expansion joints, hand rails, crash barriers, road sign &amp; markings, tests on completion etc. complete in all respect,</p> <p><b>(iii) Approaches:</b></p> <p>On completion of approaches including Retaining walls, stone pitching, protection works complete in all respect and fit for use</p> <p><b>(iv) Guide Bund and River Training Works:</b></p> <p>On completion of Guide Bund and River Training Works complete in all respect.</p>	<p>33.00%</p> <p>5.00%</p> <p>0.00%</p>	<p>In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.</p> <p><b>(ii) Super Structure:</b></p> <p>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.</p> <p><b>(iii) Approaches:</b></p> <p>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.</p> <p><b>(iv) Guide Bund and River Training Works:</b></p> <p>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.</p>
<b>B.1- Widening and repair of Underpasses/overpasses</b>	0.00%	<p>Cost of each overpass/underpass shall be determined on pro rata basis with respect to the total linear length of the underpass/overpass.</p> <p>Payment shall be made on the completion of widening &amp; repair works of a underpass/overpass.</p>

<p><b>B.2- New Underpasses/overpasses</b></p>		
<p><b>(i) Foundation+Sub Structure:</b></p> <p>On completion of the foundation work including foundations for wing and return walls ,abutments,piers upto the abutment/pier cap</p>	<p>0.00%</p>	<p><b>(i) Foundation+Sub Structure:</b> Cost of each Underpass/Overpass shall be determined on pro rata basis with respect to the total linear length (m) of the Underpass/Overpass. Payment against foundation+sub structure shall be made on pro rata basis on copletion of a stage i.e. not less than 25% 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.</p> <p>In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.</p>
<p><b>(ii) Super Structure:</b></p> <p>On completion of the super structure in all respect including wearing coat, bearings, expansion joints, hand rails, crash barriers,road sign &amp; markings, tests on completion etc. complete in all respect.</p> <p>Wearing Coat (a) in case of Overpass- wearing coat including expansion joint complete in all respect as specified and (b) in case of underpass rigid pavement including drainage facility complete in all respects as specified.</p>	<p>0.00%</p>	<p><b>(ii) Super Structure:</b></p> <p>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.</p>



<p><b>(iii) Approaches:</b></p> <p>On completion of approaches including Retaining Walls, stone pitching, protection works complete in all respect and fit for use</p>	<p>0.00%</p>	<p><b>(iii) Approaches:</b></p> <p>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.</p>
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### Major Bridge Works, ROB/RUB and Structures

Stage of Payment	Percentage - weightage	Payment Procedure
1	2	3
<b>A1-Widening and Repairs of Major Bridges</b>		
<b>(i) Foundation:</b>	0.00%	<p><b>(i) Foundation:</b> Cost of each Major bridge shall be determined on pro rata basis with respect to the total linear length (m) of the Major bridges. 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 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 where specified.</p>
<b>(ii) Sub Structure:</b>	0.00%	<p><b>(ii) Sub Structure:</b></p> <p>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 Major Bridge subject to completion of atleast two sub structure of</p>

		the abutment/pier upto abutment/pier cap level of the major bridge.
<b>(iii) Super Structure (including bearings)</b>	0.00%	<b>(iii) Super Structure:</b>  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 respect as specified.
<b>(iv) Wearing Coat including expansion joints.</b>	0.00%	<b>Wearing Coat</b>  Payment shall be made on completion of wearing coat including expansion joints complete in all respect as specified.
<b>(v) Miscellaneous items like hand rails, crash barriers, road markings etc.</b>	0.00%	<b>(v) Miscellaneous</b>  Payment shall be made on completion of all Miscellaneous works like hand rails, crash barriers, road markings etc.complete in all respect as specified.
<b>(vi) Wing walls/Return Walls</b>	0.00%	<b>(vi) Wing walls/Return Walls</b>  Payment shall be made on completion of all Wing walls/Return Walls complete in all respect as specified.
<b>(vii) Guide bunds, River Training Works etc</b>	0.00%	<b>(vii) Guide bunds, River Training Works etc</b>  Payment shall be made on completion of all Guide bunds/River Training Works etc. complete in all respect as specified.
<b>(viii) Approaches (including retaining walls, stone</b>		<b>(viii) Approaches:</b>

pitching and protection works)	0.00%	Payment shall be made on completion of both approaches including stone pitching, protection works,etc. complete in all respects as specified.
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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 work shall be as stated in table 1.3.3:

Table 1.3.3

Stage of Payment	Percentage weightage	Payment Procedure
1	2	3
(i) Foundation:	40.00%	<p><b>(i) Foundation:</b> Cost of each Major bridge shall be determined on pro rata basis with respect to the total linear length (m) of the Major bridges. 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 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 where specified.</p>
(ii) Sub Structure:	17.00%	<p><b>(ii) Sub Structure:</b></p> <p>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 Major Bridge subject to completion of atleast two sub structure of the abutment/pier upto abutment/pier cap level of the major bridge.</p>
(iii) Super Structure		<p><b>(iii) Super Structure:</b></p>

(including bearings)			
	33.00%	Payment shall be made on pro rata basis on completion of a stage i.e. completion of super structure including bearings of atleast one span in all respect as specified.	
(iv) Wearing Coat including expansion joints.		<b>Wearing Coat</b>	
	5.00%	Payment shall be made on completion of wearing coat including expansion joints complete in all respect as specified.	
(v) Miscellaneous items like hand rails, crash barriers, road markings etc.		<b>(v) Miscellaneous</b>	
	5.00%	Payment shall be made on completion of all Miscellaneous works like hand rails, crash barriers, road markings etc.complete in all respect as specified.	
(vi) Wing walls/Return Walls		<b>(vi) Wing walls/Return Walls</b>	
	0.00%	Payment shall be made on completion of all Wing walls/Return Walls complete in all respect as specified.	
(vii) Guide bunds, River Training Works etc		<b>(vii) Guide bunds, River Training Works etc</b>	
	0.00%	Payment shall be made on completion of all Guide bunds/River Training Works etc. complete in all respect as specified.	
(viii) Approaches (including retaining walls, stone pitching and protection works)		<b>(viii) Approaches:</b>	

	0.00%	Payment shall be made on completion of both approaches including stone pitching, protection works, etc. complete in all respects as specified.
<b>B1 - Widening and repairs of</b>  <b>(a) ROB</b>  <b>(b) RUB</b>		
<b>(i) Foundation:</b>	0.00%	<b>(i) Foundation:</b> Cost of each ROB/RUB shall be determined on pro rata basis with respect to the total linear length (m) of the ROB/RUB. Payment against foundation shall be made on pro rata basis on completion of a stage i.e. not less than 25% of the scope of foundation of ROB/RUB subject to completion of atleast 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.
<b>(ii) Sub Structure:</b>	0.00%	<b>(ii) Sub Structure:</b>  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 ROB/RUB subject to completion of atleast two sub structure of the abutment/pier upto abutment/pier cap level of the ROB/RUB.
<b>(iii) Super Structure (including bearings)</b>	0.00%	<b>(iii) Super Structure:</b>  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 respect 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.		(iv) Wearing Coat:
	0.00%	Payment shall be made on completion of (a) in case of ROB - wearing coat including expansion joint complete in all respect as specified and (b) in case of RUB rigid pavement under RUB including drainage facility complete in all respects as specified.
(v) Miscellaneous items like hand rails, crash barriers, road markings etc.	0.00%	(v) Miscellaneous
	0.00%	Payment shall be made on completion of all Miscellaneous works like hand rails, crash barriers, road markings etc.complete in all respect as specified.
(vi) Wing walls/Return Walls	0.00%	(vi) Wing walls/Return Walls
	0.00%	Payment shall be made on completion of all Wing walls/Return Walls complete in all respect as specified.
(vii) Approaches (including retaining walls, stone pitching and protection works)	0.00%	(viii) Approaches:
	0.00%	Payment shall be made on completion of both approaches including stone pitching, protection works,etc. complete in all respects as specified.
B2 - New  (a) ROB  (b) RUB		

<p><b>(i) Foundation:</b></p>	<p>0.00%</p>	<p><b>(i) Foundation:</b> Cost of each ROB/RUB shall be determined on pro rata basis with respect to the total linear length (m) of the ROB/RUB. Payment against foundation shall be made on pro rata basis on completion of a stage i.e. not less than 25% of the scope of foundation of ROB/RUB subject to completion of atleast two foundations of the ROB/RUB.</p> <p>In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.</p>
<p><b>(ii) Sub Structure:</b></p>	<p>0.00%</p>	<p><b>(ii) Sub Structure:</b></p> <p>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 ROB/RUB subject to completion of atleast two sub structure of the abutment/pier upto abutment/pier cap level of the ROB/RUB.</p>
<p><b>(iii) Super Structure (including bearings)</b></p>	<p>0.00%</p>	<p><b>(iii) Super Structure:</b></p> <p>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 respect as specified.</p>
<p><b>(iv) Wearing Coat including expansion joints in case of ROB. In case of RUB, rigid pavement under RUB including drainage facility as specified.</b></p>	<p>0.00%</p>	<p><b>(iv) Wearing Coat:</b></p> <p>Payment shall be made on completion of (a) in case of ROB - wearing coat including expansion joint complete in all respect as specified and (b) in case of RUB rigid pavement under RUB including drainage facility complete in all respects as</p>

<p>(v) Miscellaneous items like hand rails, crash barriers, road markings etc.</p> <p>(vi) Wing walls/Return Walls</p> <p>(vii) Approaches (including retaining walls, stone pitching and protection works)</p>	<p>0.00%</p> <p>0.00%</p> <p>0.00%</p>	<p>specified.</p> <p>(v) Miscellaneous</p> <p>Payment shall be made on completion of all Miscellaneous works like hand rails, crash barriers, road markings etc.complete in all respect as specified.</p> <p>(vi) Wing walls/Return Walls</p> <p>Payment shall be made on completion of all Wing walls/Return Walls complete in all respect as specified.</p> <p>(viii) Approaches:</p> <p>Payment shall be made on completion of both approaches including stone pitching, protection works,etc. complete in all respects as specified.</p>
<p><b>C1 - Widening and repairs of Elevated Section/Flyovers/ Grade Separators</b></p> <p>(i) Foundation:</p>	<p>0.00%</p>	<p>(i) Foundation: Cost of each Structure shall be determined on pro rata basis with respect to the total linear length (m) of the structures. 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 structures subject to completion of atleast two foundations of the</p>



(ii) Sub Structure:	0.00%	<p>structures.</p> <p>In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.</p>
(iii) Super Structure (including bearings)	0.00%	<p><b>(ii) Sub Structure:</b></p> <p>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 structures subject to completion of atleast two sub structure of the abutment/pier upto abutment/pier cap level of the structures.</p> <p><b>(iii) Super Structure:</b></p> <p>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 respect as specified.</p>
(iv) Wearing Coat including expansion joints.	0.00%	<p><b>Wearing Coat</b></p> <p>Payment shall be made on completion of wearing coat including expansion joints complete in all respect as specified.</p>
(v) Miscellaneous items like hand rails, crash barriers, road markings etc.	0.00%	<p><b>(v) Miscellaneous</b></p> <p>Payment shall be made on completion of all Miscellaneous works like hand rails, crash barriers, road markings etc. complete in all respect as specified.</p>
(vi) Wing walls/Return Walls	0.00%	<p><b>(vi) Wing walls/Return Walls</b></p> <p>Payment shall be made on completion of all Wing walls/Return Walls complete in all respect as</p>

<p>(vii) Approaches (including retaining walls, stone pitching and protection works)</p>	<p>0.00%</p>	<p>specified.</p> <p>(viii) Approaches:</p> <p>Payment shall be made on completion of both approaches including stone pitching, protection works,etc. complete in all respects as specified.</p>
<p><b>C2 - New Elevated Section/Flyovers/ Grade Separators</b></p> <p>(i) Foundation:</p> <p>(ii) Sub Structure:</p> <p>(iii) Super Structure (including bearings)</p>	<p>0.00%</p> <p>0.00%</p>	<p>(i) Foundation: Cost of each Structure shall be determined on pro rata basis with respect to the total linear length (m) of the structures. 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 structures subject to completion of atleast two foundations of the structures.</p> <p>In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.</p> <p>(ii) Sub Structure:</p> <p>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 structures subject to completion of atleast two sub structure of the abutment/pier upto abutment/pier cap level of the structures.</p> <p>(iii) Super Structure:</p>

(iv) Wearing Coat including expansion joints.	0.00%	<p>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 respect as specified.</p> <p><b>Wearing Coat</b></p>
(v) Miscellaneous items like hand rails, crash barriers, road markings etc.	0.00%	<p>Payment shall be made on completion of wearing coat including expansion joints complete in all respect as specified.</p> <p><b>(v) Miscellaneous</b></p>
(vi) Wing walls/Return Walls	0.00%	<p>Payment shall be made on completion of all Miscellaneous works like hand rails, crash barriers, road markings etc.complete in all respect as specified.</p> <p><b>(vi) Wing walls/Return Walls</b></p>
(vii) Approaches (including retaining walls, stone pitching and protection works)	0.00%	<p>Payment shall be made on completion of all Wing walls/Return Walls complete in all respect as specified.</p> <p><b>(viii) Approaches:</b></p>
	0.00%	<p>Payment shall be made on completion of both approaches including stone pitching, protection works,etc. complete in all respects as specified.</p>

**Note:** (1) In case of innovative major bridge projects like cable suspension/cable stayed/Extra dozed and exceptionally long span bridges , the schedule may be modified as per site requirement before bidding with due approval of DG(RD)&SS,MoRT&H.

(2)The Schedule for exclusive tunnel projects may be prepared as per site requirement before bidding with due approval of DG(RD)&SS,MoRT&H.

#### 1.3.4 Otherworks.

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	12.78%	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 05% (five per cent) of the total length.
(iii) Road signs, markings, km stones, safety devices, etc.	17.45%	
(iv) Project facilities	0.00%	Payment shall be made on pro rata basis for completed facilities.
a) Bus Bays	1.27%	
b) Truck Lay Bye	0.00%	
c) Rest Areas	0.00%	
d) Others(Junctions and site clearance )	5.45%	
(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 05% (five per cent) of the total length.
(vi) Repair of Protection works other than approaches to the bridges, elevated sections/ flyovers/ grade separators and ROB/RUBs.	0.00%	
(vii) Safety and traffic management during	0.00%	Payment shall be made on prorated basis every six month.

construction		
(viii)Protection works(Includes retaining wall, breast wall and gabion structure for muck disposal)	63.04%	Unit of measurement is linear length. Payment shall be made on pro rata basis on completion of a stage in a length of not less than 5% (five per cent) of the total length.

### 1.3.5 Utility Shifting

Procedure for estimating the value of Utility shifting works done shall be as stated in table 1.3.5:

Stage of Payment	Weightage	Payment Procedure
<b>PHED</b>	64.75%	Payment is divided in following activities and Payment of each activity shall be made on pro rata basis on completion of 5km of linear project length.
		Removal of existing utility 30%
		Erection/Laying 30%
		Commissioning 40%
<b>Electric Utility Shifting</b>	35.25%	Dismantling will include proper listing and stocking of usable and non-usable items.
<b>Water resource shifting</b>	0.00%	Commissioning will be completed on furnishing the commissioning certificate from concerned utility owning department.

## 2. Procedure for payment for Maintenance

2.1 The cost for maintenance shall be as stated in Clause 14.1(v).

2.2 Payment for Maintenance shall be made in Monthly basis in accordance with the provisions of Clause 19.6 & 19.7 of the Contract Agreement.