

Corrigendum-I

**Name of Work:** Widening to 2 (Two) Lane with Hard shoulder of Churachandpur to Tuivai section of NH 102B from Km 118+850 to Km 130+000 (Package-4A) in the State of Manipur on Engineering, Procurement & Construction (EPC) mode.

**Package 4A:** from Km 118+850 to Km 130+000

**Tender ID:** 2019\_NHIDC\_531265\_1

Sr. No	Reference	Existing provision	Amended provisions under corrigendum-I																																									
			Chainage		Side	Net Length (M)																																						
		From (M)	To (M)																																									
1	Schedule B, 11. Hazardous Locations (b) Retaining Wall	<table border="1"> <thead> <tr> <th colspan="2">Chainage</th> <th rowspan="2">Side</th> <th rowspan="2">Net Length (m)</th> </tr> <tr> <th>From (m)</th> <th>To (m)</th> </tr> </thead> <tbody> <tr> <td>51670</td> <td>51720</td> <td>One</td> <td>50</td> </tr> <tr> <td>52920</td> <td>52970</td> <td>One</td> <td>47</td> </tr> <tr> <td>53620</td> <td>53820</td> <td>One</td> <td>197</td> </tr> <tr> <td>67520</td> <td>68120</td> <td>One</td> <td>595</td> </tr> <tr> <td>68220</td> <td>68570</td> <td>One</td> <td>342</td> </tr> <tr> <td>69020</td> <td>69070</td> <td>One</td> <td>50</td> </tr> <tr> <td>69370</td> <td>69420</td> <td>One</td> <td>50</td> </tr> <tr> <td colspan="3">Total Length =</td> <td><b>1332</b></td> </tr> </tbody> </table>	Chainage		Side	Net Length (m)	From (m)	To (m)	51670	51720	One	50	52920	52970	One	47	53620	53820	One	197	67520	68120	One	595	68220	68570	One	342	69020	69070	One	50	69370	69420	One	50	Total Length =			<b>1332</b>	<b>Package-IV A</b>			
			Chainage				Side	Net Length (m)																																				
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			51670	51720	One	50																																						
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					118850	118920	One	70																																				
					119020	119070	One	50																																				
					119070	119120	both	95																																				
					119470	120070	One	587																																				
					120220	120620	One	392																																				
					122070	122120	One	47																																				
		122220	122620	One	397																																							
		122620	123320	One	687																																							
		123720	124020	One	295																																							
		124320	124370	One	47																																							
		124970	125070	One	100																																							
		125170	125220	One	50																																							
		125370	125410	One	37																																							
		125410	125470	One	60																																							
		125570	126020	One	442																																							
		126220	126270	One	50																																							
		126370	126520	One	147																																							
		126570	126620	One	47																																							
		126770	126920	One	147																																							
		127120	127220	One	100																																							
		127220	128070	One	832																																							
		128670	128770	One	97																																							
		129670	129770	One	100																																							
		129970	130000	One	27																																							
		<b>Total Length =</b>			<b>4906</b>																																							
2	Schedules	Schedule H	Modified Schedule H (attached)																																									

**Note:** All other Terms and conditions will be remained unchanged.



(KC Bhatt)  
Dy. General Manager (Tech)



**Modified  
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 % of CP	Stage for Payment	Percentage
1	2	3	4
Road Works including Culverts, widening and repair of culverts	58.12 %	<b>A- Widening and strengthening of existing road</b>	
		(1) Earthwork up to top of the sub- grade	[Nil]
		(2) Sub-base Course	[Nil]
		(3) Non bituminous Base course	[Nil]
		(4) Bituminous Basecourse	[Nil]
		(5) Wearing Coat	[Nil]
		(6) Widening and repair of culverts	[Nil]
		<b>B.1-Reconstruction/New 2-Lane Realignment /Bypass(Flexible Pavement)</b>	
		(1) Earthwork up to top of the sub- grade	45.71%
		(2) Sub-base Course	16.53%
		(3) Non bituminous Base course	9.79%
		(4) Bituminous Basecourse	9.81%
		(5) Wearing Coat	5.64%
		<b>B.2-Reconstruction/New 8-Lane Realignment/ Bypass(Rigid Pavement)</b>	
		(1) Earthwork up to top of the sub- grade	[Nil]
		(2) Sub-base Course	[Nil]
		(3) Dry Lean Concrete (DLC) Course	[Nil]
		(4) Pavement Quality Control (PQC) Course	[Nil]
		<b>C.1-Reconstruction/ New Service Road (Flexible Pavement)</b>	
		(1) Earthwork up to top of the sub- grade	[Nil]
		(2) Sub-base Course	[Nil]
		(3) Non bituminous Base course	[Nil]
		(4) Bituminous Basecourse	[Nil]
(5) Wearing Coat	[Nil]		
<b>C.2- Reconstruction/New Service road (Rigid Pavement)</b>			
(1) Earthwork up to top of the sub- grade	[Nil]		
(2) Sub-base Course	[Nil]		
(3) Dry Lean Concrete (DLC) Course	[Nil]		
(4) Pavement Quality Control (PQC) Course	[Nil]		
<b>D- Reconstruction &amp; New Culverts on existing road, realignments, bypasses Culverts (length &lt;6m)</b>	12.52%		
Minor bridge/ Underpasses/ Overpasses	0.00 %	<b>A.1-widening and repairing of Minor Bridges (length &gt;6 m&lt;60m)</b>	
		Minor Bridges	[Nil]
		<b>A.2- New Minor bridges (length &gt;6 mand&lt;60m)</b>	

Item	Weightage in % of CP	Stage for Payment	Percentage
		(1)Foundation + Sub-Structure: On completion of the foundation work including foundations for wing and return walls, abutments, piers upto the abutment/pier cap.	[Nil]
		(2)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.	[Nil]
		(3)Approaches: On completion of approaches including Retaining walls, stone pitching, protection works complete in all and fit for use	[Nil]
		(4) Guide Bunds and River Training Works:On completion of Guide Bunds and river training works complete in all respects	[Nil]
		<b>B.1- Widening and repairs of underpasses/overpasses</b>	
		Underpasses/ Overpasses	[Nil]
		<b>B.2-NewUnderpasses/Overpasses</b>	
		(1)Foundation + Sub-Structure: On completion of the foundation work including foundations for wing and return walls, abutments, piers upto the abutment/pier cap.	[Nil]
		(2)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.	[Nil]
		(3) Approaches: On completion of approaches including Retaining walls/ Reinforced Earth walls, stone pitching, protection works complete in all respect and fit for use.	[Nil]
<b>Major bridge(length&gt;60 m)worksand ROB/RUB/elevatedsections/flyovers including viaducts,ifany</b>	7.36 %	<b>A.1- Wideningand repairs of Major Bridges</b>	
		(1)Foundation	[Nil]
		(2)Sub-structure	[Nil]
		(3)Super-structure(including bearings)	[Nil]
		(4)Wearing Coat including expansion joints	[Nil]
		(5) Miscellaneous Items like handrails, crash barrier, road markings etc.	[Nil]
		(6) Wing walls/return walls	[Nil]
		(7)Guidebunds,RiverTrainingworks etc.	[Nil]
		(8)Approaches(including Retaining walls, stone pitchingandprotection works)	[Nil]

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Item	Weightage in % of CP	Stage for Payment	Percentage
		<b>A.2-NewMajorBridges</b>	
		(1)Foundation	33.72%
		(2)Sub-structure	34.84%
		(3)Super-structure(including bearings)	29.54%
		(4)WearingCoatincludingexpansion joints	[Nil]
		(5) Miscellaneous Items like handrails, crash barrier, road markings etc.	1.28%
		(6) Wing walls/return walls	[Nil]
		(7)Guidebunds,RiverTrainingworks etc.	0.62%
		(8)Approaches(including Retaining walls, stone pitchingand protection works)	[Nil]
		<b>B.1-Wideningandrepairsof (a) ROB (b) RUB</b>	
		(1) Foundations	[Nil]
		(2) Sub-Structure	[Nil]
		(3) Super-Structure (Including bearings)	[Nil]
		(4)Wearing Coat(a)in case of ROB- wearing coat including expansion joints complete in all respectsas specified and (b) incase of RUB-rigid pavement under RUB including drainagefacility completein all respects as specified	[Nil]
		(5) Miscellaneous Items like handrails, crash barrier, road markings etc.	[Nil]
		(6) Wing walls/Return walls	[Nil]
		(7) Approaches (Including Retaining walls,Stone Pitching and protection works)	[Nil]
		<b>B.2-NewROB/RUB</b>	
		(1)Foundations	[Nil]
		(2) Sub-Structure	[Nil]
		(3) Super-Structure (Including bearings)	[Nil]
		(4)Wearing Coat (a) in case of ROB- wearing coat including expansion joints complete in all respectsas specified and (b) incase of RUB-rigid pavement under RUB including drainage facility complete in all respects as specified	[Nil]
		(5) Miscellaneous Items like handrails, crash barrier, road markings etc.	[Nil]
		(6) Wing walls/Return walls	[Nil]
		(7)Approaches (including Retaining walls/Reinforced Earth wall, stone pitching and protection works)	[Nil]
		<b>C.1- Widening and repair of Elevated Section/Flyovers/Grade Separators</b>	
		(1) Foundations	[Nil]
		(2) Sub-Structure	[Nil]
		(3)Super-Structure(Including bearings)	[Nil]
		(4)WearingCoatincludingexpansion joints	[Nil]
		(5) Miscellaneous Items like handrails, crash barrier, road markings etc.	[Nil]
		(6) Wing walls/Return walls	[Nil]
		(7)Approaches (including Retaining walls/Reinforced Earth wall, stone pitching and protection works)	[Nil]
		<b>C.2- New Elevated Section/Flyovers/GradeSeparators</b>	

Item	Weightage in % of CP	Stage for Payment	Percentage
		(1) Foundations	[Nil]
		(2) Sub-Structure	[Nil]
		(3) Super-Structure (Including bearings)	[Nil]
		(4) Wearing Coat including expansion joints	[Nil]
		(5) Miscellaneous Items like handrails, crash barrier, road markings etc.	[Nil]
		(6) Wing walls/Return walls	[Nil]
		(7) Approaches (including Retaining walls/Reinforced Earth wall, stone pitching and protection works)	[Nil]
<b>Other Works</b>	34.52 %	(i) Toll Plaza	[Nil]
		(ii) Road side drains	2%
		(iii) Road signs, markings, km stones, safety devices etc	7.09%
		(iv) Project facilities	
		a) Bus Bays	1.75%
		b) Truck Lay-byes	[Nil]
		c) Passenger Shelter	0.27%
		d) Rest Area	[Nil]
		(v) Road side Plantation	[Nil]
		(vi) Repair of Protection Works other than approaches to the bridges, elevated sections/flyover/grade separators and ROBs/RUBs	[Nil]
		(vii) Safety & Traffic Management during const.	[Nil]
		(viii) Breast Wall	32.57%
		(ix) Toe Wall	2.16%
		(x) Retaining Wall	50.4%
		(xi) Boundary wall	[Nil]
		(xii) Site Clearance & Dismantling	0.61%
		(xiii) Other works (Turfig & Hydro seeding etc.)	3.15%

### 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
<b>A- Widening &amp; Strengthening of road</b>		
(1) Earthwork up to top of the sub-grade	[Nil]	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 Course	[Nil]	
(3) Non bituminous Base course	[Nil]	
(4) Bituminous Base course	[Nil]	
(5) Wearing Coat	[Nil]	
(6) Widening and repair of culverts	[Nil]	
<b>B.1- Reconstruction/New 2-Lane Realignment/Bypass (Flexible Pavement)</b>		
(1)Earthwork up to top of the sub-grade	45.71%	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 5 (five) km length, whichever is less.
(3) Sub-base Course	16.53%	
(4) Non bituminous Base course	9.79%	
(5) Bituminous Base course	9.81%	
(6) Wearing Coat	5.64%	
(7) Widening and repair of culverts		
<b>B.2- Reconstruction/New 8-Lane Realignment/Bypass (Rigid Pavement)</b>		
(1)Earthwork up to top of the sub-grade	[Nil]	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 5 (five) km length, whichever is less.
(2) Sub-base Course	[Nil]	
(3) DryLean Concrete (DLC) Course	[Nil]	
(4) Pavement Quality Control (PQC) Course	[Nil]	
<b>C.1- Reconstruction/New Service Road/ Slip Road (Flexible Pavement)</b>		
(1)Earthwork up to top of the sub-grade	[Nil]	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 5 (five) km length, whichever is less.
(2) Sub-base Course	[Nil]	
(3) Non bituminous Base course	[Nil]	
(4) Bituminous Basecourse	[Nil]	
(5) Wearing Coat	[Nil]	
<b>C.2- Reconstruction/New Service road (Rigid Pavement)</b>		
(1)Earthwork up to top of the sub-grade	[Nil]	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 5 (five) km length, whichever is less.
(2) Sub-base Course	[Nil]	
(3) Dry Lean Concrete (DLC)Course	[Nil]	
(4) Pavement Quality Control (PQC) Course	[Nil]	
<b>D- Reconstruction &amp; New Culverts on existing road, realignments, bypasses</b>		
Culverts (length <6m)	12.52%	Cost of each culverts 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 five culverts

*le* @ For example, if the total length of bituminous work to be done is 100 km, the cost per km of bituminous work shall be determined as follows:

Cost per km = P x weightage for road work x weightage for bituminous work x (1/L)

Where,

P = Contract Price

L = Total length in km

Similarly, the rates per km for other stages shall be worked out accordingly.

**Note: The length affected due to law and order problems or litigation during execution due to which the Contractor is unable to execute the work, may be deducted from the total project length for payment purposes. The total length calculated here is only for payment purposes and will not affect and referred in other clauses of the Contract Agreement.**

### 1.3.2 Minor Bridges and Underpasses/Overpasses.

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

Table 1.3.2

Stage of Payment	Percentage weightage	Payment Procedure
1	2	3
<b>A.1-Widening and repairs of Minor Bridges (length &gt; 6 m &amp; &lt; 60 m)</b>	[Nil]	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 & repair works of a minor bridge
<b>A.2- New Minor Bridges (length &gt; 6 m &amp; &lt; 60 m)</b>		
(1) Foundation + Sub-Structure: On completion of the foundation work including foundations for wing and return walls, abutments, piers up to the abutment/pier cap.	[Nil]	Foundation: 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 shall be made on pro-rata basis on completion of a stage i.e. Not less than 25% of the scope of foundation of each bridge.  In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
(2)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.	[Nil]	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. In case of structures where pre-cast girders have been proposed by the Contractor, 50% of the stage payment shall be due and payable on casting of girders for each span and balance 50% of the stage payment shall be made on completion of stage specified as above
(3)Approaches:On completion of approaches including Retaining walls, stone pitching, protection works complete in all and fit for use	[Nil]	Approaches: Payment shall be made on pro-rata basis on completion of a stage i.e. completion of approaches in all respect as specified in the column of "Stage of Payment" in this sub-clause.
(4) Guide Bund sand River Training Works: On completion of Guide Bunds and river training	[Nil]	Guide Bunds and River Training Works:

Stage of Payment	Percentage weightage	Payment Procedure
works complete in all respects		Payment shall be made on pro-rata basis on completion of a stage i.e. completion of Guide Bund sand River training Works in all respects as specified
<b>B.1- Widening and repairs of under passes/overpasses</b>	[Nil]	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>B.2- New Underpasses/Overpasses</b>		
(1) Foundation + Sub-Structure: On completion of the foundation work including foundations for wing and return walls, abutments, piers upto the abutment/pier cap.	[Nil]	Foundation: 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 shall be made on pro-rata basis on completion of a stage i.e. Not less than 25% of the scope of foundation of each Underpasses/ Overpasses.  Incase where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
(2) 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.	[Nil]	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. In case of structures where pre-cast girders have been proposed by the Contractor, 50% of the stage payment shall be due and payable on casting of girders for each span and balance 50% of the stage payment shall be made on completion of stage specified as above
(3) Approaches: On completion of approaches including Retaining walls/ Reinforced Earth walls, stone pitching, protection works complete in all respect and fit for use.	[Nil]	Payment shall be made on pro-rata basis on completion of a stage 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 shall be as stated in table 1.3.3:

Table 1.3.3

Stage of Payment	Percentage weightage	Payment Procedure
<b>A.1- Widening and repairs of Major Bridges</b>		
<b>(1)Foundation</b>	[Nil]	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. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
<b>(2)Sub-structure</b>	[Nil]	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 major bridge.
<b>(3)Super-structure(including bearings)</b>	[Nil]	Super-structure: Payment shall be made on pro-rata basis on completion of a stage i.e. completion of super-structure including bearings of at least one span in all respects as specified. In case of structures where pre-cast girders have been proposed by the Contractor, 50% of the stage payment shall be due and payable on casting of girders for each span and balance 50% of the stage payment shall be made on completion of stage specified as above
<b>(4)Wearing Coat including expansion joints</b>	[Nil]	Wearing Coat: Payment shall be made on completion of wearing coat including expansion joints complete in all respects as specified.
<b>(5) Miscellaneous Items like handrails, crash barrier, road markings etc.</b>	[Nil]	Miscellaneous: Payments shall be made on completion of all miscellaneous works like handrails, crash barriers, road markings etc. complete in all respects as specified.
<b>(6) Wing walls/return walls</b>	[Nil]	Wing walls/return walls : Payments shall be made on completion of all wing walls/return walls complete in all respects as specified.
<b>(7)Guide bunds, River Training works etc.</b>	[Nil]	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.
<b>(8)Approaches(including Retaining walls, stone pitching and protection works)</b>	[Nil]	Approaches: Payments shall be made on pro rata basis on completion of 10% of the scope of each stage.
<b>A.2-New Major Bridges</b>		
<b>(1)Foundation</b>	33.72%	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. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
<b>(2) Sub-structure</b>	34.84%	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 major bridge.
<b>(3) Super-structure (including bearings)</b>	29.54%	Super-structure: Payment shall be made on pro-rata basis on completion of a stage i.e. completion of super-structure including bearings of at least one span in all respects as specified. In case of structures where pre-cast girders have been proposed by the Contractor, 50% of the stage payment shall be due and payable on casting of girders for each span and balance 50% of the stage payment shall be made on completion of stage specified as above
<b>(4) Wearing Coat including expansion joints</b>	[Nil]	Wearing Coat: Payment shall be made on completion of wearing coat including expansion joints complete in all respects as specified.
<b>(5) Miscellaneous Items like handrails, crash barrier, road markings etc.</b>	1.28%	Miscellaneous: Payments shall be made on completion of all miscellaneous works like handrails, crash barriers, road marking etc. complete in all respects as specified.
<b>(6) Wing walls/return walls</b>	[Nil]	Wing walls/return walls: Payments shall be made on completion of all wing walls/return walls complete in all respects as specified.
<b>(7) Guide bunds, River Training works etc.</b>	0.62%	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.
<b>(8) Approaches (including Retaining walls, stone pitching and protection works)</b>	[Nil]	Approaches: Payments shall be made on pro-rata basis on completion of 10% of the scope of each stage.
<b>B.1- Widening and repairs of (a) ROB (b) RUB</b>		
<b>(1) Foundations</b>	[Nil]	Foundation: Cost of each ROB/RUB shall be determined on pro-rata basis with respect to the total linear length (m) of the ROB/RUB. Payment against foundation shall be made on pro-rata basis on completion of a stage i.e. not less than 25% of the scope of foundation of the ROB/RUB.  In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
<b>(2) Sub-Structure</b>	[Nil]	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 ROB/RUB.
<b>(3) Super-Structure (Including bearings)</b>	[Nil]	Super-structure: Payment shall be made on pro-rata basis on completion of a stage i.e. completion of

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		super- structure including bearings of at least one span in all respects as specified. In case of structures where pre-cast girders have been proposed by the Contractor, 50% of the stage payment shall be due and payable on casting of girders for each span and balance 50% of the stage payment shall be made on completion of stage specified as above.
<b>(4)Wearing Coat(a)in case of ROB-wearing coat including expansion joints complete in all respects as specified and (b) incase of RUB-rigid pavement under RUB including drainage facility complete in all respects as specified</b>	[Nil]	WearingCoat: Payment shall be made on completion  (a) in case of ROB-wearing coat including expansion joints complete in all respects as specified  and  (b) in case of RUB-rigid pavement underRUB including drainage facility complete in all respects as specified.
<b>(5) Miscellaneous Items like handrails, crash barrier, road markings etc.</b>	[Nil]	Miscellaneous: Payments shall be made on completion of all miscellaneous works like handrails, crashbarriers,road markingsetc. complete in all respects as specified.
<b>(6) Wing walls/Return walls</b>	[Nil]	Wingwalls/return walls:Payments shall be made on completion of all wing walls/returnwalls complete in all respects as specified.
<b>(7) Approaches (Including Retaining walls,Stone Pitching and protection works)</b>	[Nil]	Payments shall be made on prorata basis on completion of 20% of the total area.
<b>B.2-NewROB/RUB</b>		
<b>(1) Foundation</b>	[Nil]	Foundation: Cost of each ROB/RUB shall be determined on pro rata basis with respect to the total linear length (m)of the ROB/RUB. Payment against foundation shall be made on pro-rata basis on completion of a stage i.e. not less than 25% of the scope of foundation of the ROB/RUB.
<b>(2) Sub-structure</b>	[Nil]	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 ROB/RUB.
<b>(3)Super-structure (including bearing)</b>	[Nil]	Super-structure: Payment shall be made on pro-rata basis on completion of a stage i.e. Completion of super- structure including bearings of at least one span in all respects as specified. In case of structures where pre-cast girders have been proposed by the Contractor,50% of the stage payment shall be due and payable on casting of girders for each span and balance 50% of the stage payment shall be made on completion of stage specified as above
<b>(4)Wearing Coat (a) in case of ROB-wearing coat including expansion joints complete in all respects as specified and (b) incase of RUB-rigid pavement under RUB including drainage facility complete in all</b>	[Nil]	Wearing Coat: Payment shall be made on completion  (a) in case of ROB-wearing coat including expansion joints complete in all respects as specified

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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 handrails, crash barrier, road markings etc.	[Nil]	Miscellaneous: Payments shall be made on completion of all miscellaneous works like handrails, crash barriers, road markings etc. complete in all respects as specified.
(6) Wing walls/Return walls	[Nil]	Wing walls/return walls: Payments shall be made on completion of all wing walls/return walls complete in all respects as specified.
(7) Approaches (including Retaining walls/Reinforced Earth wall, stone pitching and protection works)	[Nil]	Payment shall be made on pro-rata basis on completion of a stage in all respects as specified
<b>C.1-Widening and repairs of Elevated Section/ Flyovers/Grade Separators</b>		
(1) Foundations	[Nil]	Foundation: Cost of each structure shall be determined on pro rata basis with respect to the total linear length (m) of the structure. Payment against foundation shall be made on pro-rata basis on completion of a stage i.e. Not less than 25% of the scope of foundation of the structure.  In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
(2) Sub-Structure	[Nil]	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 structure.
(3) Super-Structure (Including bearings)	[Nil]	Super-structure: Payment shall be made on pro-rata basis on completion of a stage i.e. Completion of super-structure including bearings of at least one span in all respects a specified case of structures where pre-cast girders have been proposed by the Contractor, 50% of the stage payment shall be due and payable on casting of girders for each span and balance 50% of the stage payment shall be made on completion of stage specified as above
(4) Wearing Coat including expansion joints	[Nil]	Wearing Coat: Payment shall be made on completion of wearing coat including expansion joints complete in all respects as specified.
(5) Miscellaneous Items like handrails, crash barrier, road markings etc.	[Nil]	Miscellaneous: Payments shall be made on completion of all miscellaneous works like handrails, crash barriers, road markings etc. Complete in all respects as specified.
(6) Wing walls/Return walls	[Nil]	Wing walls/return walls: Payments shall be made on completion of all wing walls/return walls complete in all respects as specified.
(7) Approaches (including Retaining walls/Reinforced Earth wall, stone	[Nil]	Payment shall be made on pro-rata basis on completion of a stage in all respects as specified

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pitching and protection works)		
<b>C.2- New Elevated Section/ Flyovers/Grade Separators</b>		
<b>(1) Foundations</b>	[Nil]	Foundation: Cost of each structure shall be determined on pro rata basis with respect to the total linear length (m)of the structure. Payment against foundation shall be made on pro-rata basis on completion of a stage i.e. not less than 25% of the scope of foundation of the structure.  In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
<b>(2) Sub-Structure</b>	[Nil]	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 structure.
<b>(3)Super-Structure(Including bearings)</b>	[Nil]	Super-structure: Payment shall be made on pro-rata basis on completion of a stage i.e. completion of super- structure including bearings of at least one span in all respects as specified. In case of structures where pre-cast girders have been proposed by the Contractor, 50% of the stage payment shall be due and payable on casting of girders foreach span and balance 50% of the stage payment shall be made on completion of stage specified as above
<b>(4)Wearing Coat including expansion joints</b>	[Nil]	Wearing Coat: Payment shall be made on completion of wearing coat including expansion joints complete in all respects as specified.
<b>(5) Miscellaneous Items like handrails, crash barrier, road markings etc.</b>	[Nil]	Miscellaneous: Payments shall be made on completion of all miscellaneous works like handrails, crash barriers, road markings etc. complete in all respects as specified.
<b>(6) Wing walls/Return walls</b>	[Nil]	Wingwalls/return walls: Payments shall be made on completion of all wing walls/return walls complete in all respects as specified.
<b>(7) Approaches (including Retaining walls/Reinforced Earth wall, stone pitching and protection works)</b>	[Nil]	Payments shall be made on pro rata basis on completion of 20% of the total area.

- 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 S c h e d u l e 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	Percentage weightage	Payment Procedure
1	2	3
(1) Toll Plaza	[Nil]	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.
(2) Road side drains	2%	Unit of measurement is linear length. Payment shall be made on pro rata basis on completion of a stage in a length of not less than 5% (five percent) of the total length.
(3) Road signs, markings, km stones, safety devices, etc.	7.09%	
(4) Project Facilities		Payment shall be made on pro rata basis for completed facilities.
a) Bus Bays	1.75%	
b) Truck Lay-byes	[Nil]	
c) Passenger Shelter	0.27%	
d) Rest Area	[Nil]	
(5) Roadside Plantation including Horticulture in Wayside Amenities	[Nil]	Unit of measurement is linear length
(6) Repair of Protection Works other than approaches to the bridges, elevated sections/flyover/grade separators and ROB/RUBs	[Nil]	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.
(7) Safety and traffic management during construction	[Nil]	Payment shall be made on pro rata basis every six months.
(8) Protection Works		Unit of measurement is linear length. Payment shall be made on pro rata basis on completion of a stage in a length of not less than 5% (five percent) of the total length.
(a) Retaining Wall	50.4%	
(b) Breast Wall	32.57%	
(c) Toe Wall	2.16%	
(9) Site Clearance & Dismantling	0.61%	Unit of measurement is linear length. Payment shall be made on pro rata basis on completion of a stage in a length of not less than 5% (five percent) of the total length.
(10) Other works (Turfig & Hydro seeding etc.)	3.15%	Unit of measurement is square meter.

## 2. Procedure for payment for Maintenance

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

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

