Dated:10.01.2020

Corrigendum-I

Name of Work: Widening to 2 (Two) Lane with Hard shoulder of Churachandpur to Tuivai section of NH 102B from Km 32.835 to Km 48.587 (Package-2A) in the State of Manipur on Engineering, Procurement & Construction (EPC) mode.

Package 2A: from Km 32.835 to Km 48.587

Tender ID: 2019_NHIDC_531246_1

Sr. No	Reference	Existing provision	Amended provisions under corrigendum-l
1	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	63.23 %	A- Widening and strengthening of existing road	
Culverts, widening and		(1) Earthwork up to top of the sub- grade	[Nil]
repair of culverts		(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.1-Reconstruction/New 2-Lane Realignment	
		/Bypass(Flexible Pavement)	
		(1) Earthwork up to top of the sub- grade	20.87%
		(2) Sub-base Course	26.61%
		(3) Non bituminous Base course	16.33%
		(4) Bituminous Basecourse	12.79%
		(5) Wearing Coat	7.33%
		B.2-Reconstruction/New 8-Lane Realignment/	100-00000000-94000
		Bypass(Rigid Pavement)	
		(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]
		C.1-Reconstruction/ New Service Road (Flexible	
		Pavement)	
		(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]
		C.2- Reconstruction/New Service road (Rigid	LJ
		Pavement)	
		(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]
		D- Reconstruction & New Culverts on existing	16.07%
		road, realignments, bypasses Culverts (length <6m)	
Minor bridge/	5.64 %	A.1-widening and repairing of Minor Bridges	

Item Weightage in % of CP		Stage for Payment	Percentage
Underpasses/ Overpasses		(length >6 m&<60m)	
20		Minor Bridges	[Nil]
		A.2- New Minor bridges (length >6 mand<60m)	
		(1)Foundation + Sub-Structure: On completion	60.33%
		of the	
		foundation work including foundations for	
		wing and return walls, abutments, piers	
		upto the abutment/pier cap.	
		(2)Super-structure:On completion of the super-	36.31%
		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.	
		(3)Approaches: On completion of approaches	[Nil]
		including Retaining walls, stone pitching,	
		protection works complete in all and fit for use	
		(4) Guide Bunds and River Training Works:On	3.36%
		completion of Guide Bunds and river training	
		works complete in all respects	
		B.1- Widening and repairs of	
		underpasses/overpasses	
		Underpasses/ Overpasses	[Nil]
		B.2-NewUnderpasses/Overpasses	
		(1)Foundation + Sub-Structure: On completion	[Nil]
		of the	
		foundation work including foundations for	
		wing and return walls, abutments, piers	
		upto the abutment/pier cap.	Fa 1117
		(2)Super-structure:On completion of the super-	[Nil]
		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 Overnous wearing	
		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.	
		(3) Approaches: On completion of	[Nil]
		approaches including Retaining walls/	[1411]
		Reinforced Earth walls, stone pitching,	
		protection works complete in all	
		respect and fit for use.	
Major bridge(length>60	0.000 %	A.1- Wideningand repairs of Major Bridges	
m)worksand		(1)Foundation	[Nil]
ROB/RUB/elevatedsectio		(2)Sub-structure	[Nil]
ns/flyovers including		(3)Super-structure(including bearings)	[Nil]
viaducts,ifany		(4)Wearing Coat including expansion joints	[Nil]
7A		(5) Miscellaneous Items like handrails, crash	[Nil]

Item	Weightage in % of CP	Stage for Payment	Percentag
		barrier, road markings etc.	
		(6) Wing walls/return walls	[Nil]
		(7) Guidebunds, River Trainingworks etc.	[Nil]
		(8)Approaches(including Retaining walls, stone	[Nil]
		pitchingandprotection works)	• 100 11000
		A.2-NewMajorBridges	
		(1)Foundation	[Nil]
		(2)Sub-structure	[Nil]
		(3)Super-structure(including bearings)	[Nil]
		(4)WearingCoatincludingexpansion joints	[Nil]
		(5) Miscellaneous Items like handrails, crash	[Nil]
		barrier, road markings etc.	[1411]
		(6) Wing walls/return walls	[Nil]
		(7)Guidebunds,RiverTrainingworks etc.	
		(8)Approaches(including Retaining walls, stone	[Nil]
			[Nil]
		pitchingand protection works)	
		B.1-Wideningandrepairsof (a) ROB (b) RUB	
		(1) Foundations	[Nil]
		(2) Sub-Structure	[Nil]
		(3) Super-Structure (Including bearings)	[Nil]
		(4)Wearing Coat(a)in case of ROB- wearing coat	[Nil]
		including expansion joints complete in all	
		respectsas specified and (b) incase of RUB-rigid	
		pavement under RUB including drainagefacility	
		completein all respects as specified	
		(5) Miscellaneous Items like handrails, crash	[Nil]
		barrier, road markings etc.	
		(6) Wing walls/Return walls	[Nil]
		(7) Approaches (Including Retaining walls, Stone	[Nil]
		Pitching and protection works)	4450000
		B.2-NewROB/RUB	
		(1)Foundations	[Nil]
		(2) Sub-Structure	[Nil]
		(3) Super-Structure (Including bearings)	[Nil]
		(4)Wearing Coat (a) in case of ROB- wearing coat	[Nil]
		including expansion joints complete in all	[IAII]
		respectsas specified and (b) incase of RUB-rigid	
		pavement under RUB including drainage facility	
		complete in all respects as specified	
		(5) Miscellaneous Items like handrails, crash	[NI:I]
		barrier, road markings etc.	[Nil]
			[NI:I]
	=	(6) Wing walls/Return walls	[Nil]
		(7)Approaches (including Retaining	[Nil]
		walls/Reinforced Earth wall, stone pitching and	
		protection works)	
		C.1- Widening and repair of Elevated	
		Section/Flyovers/Grade Separators	
		(1) Foundations	[Nil]
		(2) Sub-Structure	[Nil]
		(3)Super-Structure(Including bearings)	[Nil]
		(4)WearingCoatincludingexpansion joints	[Nil]

Item	Weightage in % of CP	Stage for Payment	Percentage
		(5) Miscellaneous Items like handrails, crash barrier, road markings etc.	[Nil]
		(6) Wing walls/Return walls	[Nil]
		(7)Approaches (including Retaining	[Nil]
		walls/Reinforced Earth wall, stone pitching and	
		protection works)	
		C.2- New Elevated	
		Section/Flyovers/GradeSeparators	
		(1) Foundations	[Nil]
		(2) Sub-Structure	[Nil]
		(3)Super-Structure(Including bearings)	[Nil]
		(4)WearingCoatincludingexpansion joints	[Nil]
		(5) Miscellaneous Items like handrails, crash	[Nil]
		barrier, road markings etc.	
		(6) Wing walls/Return walls	[Nil]
		(7)Approaches (including Retaining	[Nil]
		walls/Reinforced Earth wall, stone pitching and	
		protection works)	
Other Works	31.13 %	(i) Toll Plaza	[Nil]
		(ii) Road side drains	10.91%
		(iii) Road signs,markings,km stones,safety devices	6.13%
		etc	
		(iv) Project facilities	
		a) Bus Bays	0.7%
		b) Truck Lay-byes	[Nil]
		c) Passenger Shelter	0.09%
		d) Rest Area	[Nil]
		(v) Road side Plantation	[Nil]
		(viRepair of Protection Works other than	[Nil]
		approaches to the bridges, elevated	
		sections/flyover/grade separators and ROBs/	
		RUBs	
		(vii) Safety &Traffic Management during const.	[Nil]
		(viii) Breast Wall	57.97%
		(ix) Toe Wall	1.98%
		(x) Retaining Wall	16.49%
		(xi) Boundarywall	[Nil]
		(xii) Site Clearance & Dismanteling	1.33%
		(xiii) Other works (Turfing & Hydro seeding etc.)	4.4%

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 & Strengthening of road		
(1) Earthwork up to top of the sub-grade	[Nil]	Unit of measurement is linear length.Payment of
(2) Sub-base Course	[Nil]	each stage shall be made on pro rata basis on
(3) Non bituminous Base course	[Nil]	completion of a stage in a length of not less than
(4) Bituminous Base course	[Nil]	10(ten)percent of the total length.
(5) Wearing Coat	[Nil]	
(6) Widening and repair of culverts	[Nil]	Cost of ten completed culverts shall be determined on pro rata basis with respect to the total number of culverts.
B.1- Reconstruction/New2-Lane		
Realignment/Bypass (Flexible Pavement)		
(1)Earthwork up to top of the sub-grade	20.87%	Unit of measurement is linear length. Payment of
(3) Sub-base Course	26.61%	each stage shall be made on prorata basis on
(4) Non bituminous Base course	16.33%	completion of a stage in full length or 5 (five) km
(5) Bituminous Base course	12.79%	length, whichever is less.
(6) Wearing Coat	7.33%	
(7) Widening and repair of culverts		
B.2- Reconstruction/New 8-Lane		
Realignment/Bypass (Rigid Pavement)		
(1)Earthwork up to top of the sub-grade	[Nil]	Unit of measurement is linear length. Payment of
(2) Sub-base Course	[Nil]	each stage shall be made on pro rata basis on
(3) DryLean Concrete (DLC) Course	[Nil]	completion of a stage in full length or 5 (five) km
(4) Pavement Quality Control		length, whichever is less.
(PQC) Course	[Nil]	
C.1- Reconstruction/New Service Road/ Slip Road (Flexible Pavement)		
(1)Earthwork up to top of the sub-grade	[Nil]	Unit of measurement is linear length. Payment of
(2) Sub-base Course	[Nil]	each stage shall be made on pro rata basis on
(3) Non bituminous Base course	[Nil]	completion of a stage in full length or 5 (five) km
(4) Bituminous Basecourse	[Nil]	length, whichever is less.
(5) Wearing Coat	[Nil]	
C.2- Reconstruction/New Service road		
(Rigid Pavement)		
(1)Earthwork up to top of the sub-grade	[Nil]	Unit of measurement is linear length. Payment of
(2) Sub-base Course	[Nil]	each stage shall be made on pro rata basis on
(3) Dry Lean Concrete (DLC)Course	[Nil]	completion of a stage in full length or 5 (five) km
(4) Pavement Quality Control		length, whichever is less.
(PQC) Course	[Nil]	
D- Reconstruction & New Culverts on		Cost of each culverts shall be determined on pro
existing road, realignments, bypasses		rata basis with respect to the total number of
Culverts (length <6m)	16.07%	culverts. Payment shall be made on the completion of at least five culverts

@ 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		
A.1-Widening and repairs of Minor Bridges (length > 6 m & < 60 m)	[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		
A.2- New Minor Bridges (length > 6 m & < 60 m)				
(1)Foundation + Sub-Structure: On completion of the foundation work including foundations for wing and return walls, abutments, piers upto the abutment/pier cap.	60.33%	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 lessthan 25% of the scope of foundation of each bridge. 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.	36.31%	Super-structure:Payment shall be made on pro-rata basis on completion of a stage i.e.completion of super structure of at leastone span in all respects as specified in the column of "Stageof Payment" in this sub-clause. Incase 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	[Nil]	Approaches: Payment shall be made on pro-rata basis on completion of a stage i.e. completion of approaches in all		

Stage of Payment	Percentage weightage	Payment Procedure
walls, stone pitching, protection works complete in all and fit for use		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 works complete in all respects	3.36%	Guide Bunds and River Training Works: 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.1- Widening and repairs of under passes/overpasses	[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.2-		
NewUnderpasses/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.	[Nil]	Foundation:Cost of eachUnderpass/ 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	[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
respects as specified and (b) in case of underpass- rigid pavement including drainage facility complete in all respects as specified. (3) Approaches: On completion of approaches including Retaining walls/ Reinforced	[Nil]	Payment shall be made on pro-rata basis on completion of a stage in all respects as specified
Earth walls, stone pitching, protection works complete in all respect and fit for use.		

1.3.3 Major Bridge works, ROB/RUB and Structures.

Procedure for estimating the value of Major Bridge works, ROB/RUB and Structures shall be as stated in table 1.3.3:

Table 1.3.3

Stage of Payment	Percentage weightage	Payment Procedure
A.1- Widening and repairs of Major Bridges		
(1)Foundation	[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 prorata basis on completion of a stage i.e. not less than 25% of the scope of foundation of the major Bridge. Incase 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 stagei.e. not less than 25% of the scope of substructure of majorbridge.
(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 atleast one span inall respects asspecified. 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
(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.	l i	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]	Wingwalls/return walls: Payments shall be made on completion of all wing walls/return walls complete in all respects as specified.
(7)Guide bunds, River Training works etc.	[Nil]	Guide Bunds, River Trainingworks: Payments shall be made on completion ofall guide bunds/river training works etc. complete in all respects as specified.
(8)Approaches(including Retaining walls, stone pitchingandprotection works)	[Nil]	Approaches: Payments shallbe made on pro rata basis on completion of 10% of the scope of each stage.
A.2-NewMajorBridges	Fa. 127	
(1)Foundation	[Nil]	Foundation:Cost of each Major Bridge shall be

(2)Sub-structure (3)Super-structure(including bearings)	[Nil]	determined on pro ratabasis with respect to the total linear length (m) of the Major Bridge. Payment against foundation shall be made on proratabasison completion of a stage i.e. not lessthan 25% of the scope of foundation of the major Bridge. Incase where load testing is required for foundation, the trigger of first payment shall include load testing also where specified. 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. Super-structure: Payment shall be made on pro-rata basis on completion of a stage i.e. completion of super- structure including bearings of atleast one
	[Nil]	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
(4)WearingCoatincludingexpansion joints	[Nil]	WearingCoat: Payment shall be made on completion of wearing coat including expansion joints complete in all respects asspecified.
(5) Miscellaneous Items like handrails, crash barrier, road markings etc.	[Nil]	Miscellaneous: Payments shall be made on completion of all miscellaneous works like handrails, crashbarriers,road markingsetc. completein all respects as specified.
(6) Wing walls/return walls	[Nil]	Wingwalls/return walls:Payments shall bemade on completion of all wing walls/returnwalls complete in all respects as specified.
(7)Guidebunds,RiverTrainingworks etc.	[Nil]	Guide Bunds, River Training works: Payments shall be made on completion ofall guide bunds/river training works etc. complete in all respects as specified.
(8)Approaches(including Retaining walls, stone pitchingand protection works)	[Nil]	Approaches: Payments shall be made on pro ratabasison completion of 10% of the scope of each stage.
B.1- Widening and repairs of (a)ROB (b)RUB		
(1) Foundations	[Nil]	Foundation: Cost of each ROB/RUB shall be determined on pro rata basis with respect to the total linear length (m)of theROB/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.
(2) Sub-Structure	[Nil]	Sub-structure:Payment against sub- structure shallbe made on pro-rata basis on completion of a

		stage i.e.not lessthan 25% of the scope of substructure of ROB/RUB.
(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 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.
(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]	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 completein 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, crashbarriers, road markingsetc. complete in all respects as specified.
(6) Wing walls/Return walls	[Nil]	Wingwalls/return walls:Payments shall be made on completion of all wing walls/returnwalls completeinall respects as specified.
(7) Approaches (Including Retaining walls,Stone Pitching and protection works)	[Nil]	Payments shall be made on prorata basis on completion of 20% of the total area.
B.2-NewROB/RUB		
(1) Foundation	[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.
(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 ROB/RUB.
(3)Super-structure (including bearing)	[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

(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	[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 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
C.1-Wideningandrepairs of ElevatedSection/ Flyovers/Grade Separators		
(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. Incase where load testing is required for foundation, the trigger of first payment shall include load testing
(2) Sub-Structure	[Nil]	also where specified. 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)WearingCoatincludingexpansion joints	[Nil]	WearingCoat: Payment shall be made on completion of wearingcoat including expansion joints complete in all respects as specified.
(5) Miscellaneous Items like	[Nil]	Miscellaneous: Payments shall be made on

handrails, crash barrier, road markings etc.		completion of all miscellaneous works like handrails, crashbarriers, road markingsetc. Complete in all respects as specified.
(6) Wing walls/Return walls	[Nil]	Wingwalls/return walls:Payments shall be made on completion of all wing walls/returnwalls 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
C.2- New Elevated Section/ Flyovers/Grade Separators		
(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 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
(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]	Wingwalls/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]	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 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	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	10.91%	Unit of measurement is linear length.	
(3) Road signs, markings, km stones, safety devices etc	6.13%	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.	
(4) Project Facilities			
a) Bus Bays	0.7%	Payment shall be made on pro rata basis for completed facilities.	
b) Truck Lay-byes	[Nil]		
c) Passenger Shelter	0.09%		
d) Rest Area	[Nil]		
(5) Road side 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 ROBs/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.	
(a) Retaining Wall	16.49%	Payment shall be made on pro rata basis on	
(b) Breast Wall	57.97%	completion of a stage in a length of not less	
(c) Toe Wall	1.98%	than 5% (five percent) of the total length.	
(9) Site Clearance & Dismantling	1.33%	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 (Turfing & Hydro seeding etc.)	4.4%	Unit of measurement is square metre.	

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.

