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 0.000 to Km 13.747 (Package 1A) in the State of Manipur on Engineering, Procurement & Construction (EPC) mode.

Package 1A: from Km 0.000 to Km 13.747

Tender ID: 2019_NHIDC_531234_1

Sr. No	Reference	Existing provision				Amended provisions under corrigendum-l			
			d) Metal Beam Crash Barrier			d) Metal Beam Crash Barrier			
		d) Met				Chainage			Net
		Chair	iage	100 M	Net	From (m)	To (m)	Side	Length (m)
		From (m)	To (m)	Side	Length	5760	5820	One	53
		, ,			(m)	6070	6420	One	345
	Schedule B,	5760	5820	One	53	8420	8520	One	97
	20	6070	6420	One	345	9570	9585	One	15
	11.	8420	8520	One	97	9585	9670	One	82
1	Hazardous	9570	9585	One	15	10520	10620	One	100
	Locations	9585	9670	One	82	10770	10820	One	47
		10520	10620	One	100	11520	11620	One	97
		10770	10820	One	47	13230	13270	One	37
		11520	11620	One	97		Total Ler		875
		13230	13270	One	37			.9	
			Total Le	ngth =	875	For Bridge	Approach	es = 42	20 m
						(Taking 30 m		2010	
						Total length	of crash	barrier	=1295m
2	Schedules	Schedule H			Modified	Schedule	e H (atta	ached)	

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	63.15 %	A- Widening and strengthening of existing road	
including Culverts,		(1) Earthwork up to top of the sub- grade	[Nil]
widening and		(2) Sub-base Course	[Nil]
repair of culverts		(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	8.92%
		(2) Sub-base Course	27.59%
		(3) Non bituminous Base course	17.56%
		(4) Bituminous Basecourse	15.44%
		(5) Wearing Coat	8.87%
		B.2-Reconstruction/New 8-Lane Realignment/	
		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	
		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	21.62%
		road, realignments, bypasses Culverts (length	
		<6m)	
Minor bridge/	15.49 %	A.1-widening and repairing of Minor Bridges	
Underpasses/		(length >6 m&<60m)	
Overpasses		Minor Bridges	0.83%



Item Weighta		Stage for Payment	Percentage
		A.2- New Minor bridges (length >6 mand<60m)	
		(1) Foundation + Sub-Structure: On completion of	61.57%
		the	
		foundation work including foundations for wing and	
		return walls, abutments, piers up to the	
		abutment/pier cap.	
		(2) Super-structure: On completion of the super-	37.6%
		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.	Fa.:13
		(3) Approaches: On completion of approaches	[Nil]
		including Retaining walls, stone pitching, protection	
		works complete in all and fit for use	Fa.:17
		(4) Guide Bunds and River Training Works: On	[Nil]
		completion of Guide Bunds and river training works	
		complete in all respects	
		B.1- Widening and repairs of underpasses/overpasses	
			[NI:I]
		Underpasses/ Overpasses B.2-NewUnderpasses/Overpasses	[Nil]
		(1)Foundation + Sub-Structure: On completion of	[Nil]
		the	[ואוו]
		foundation work including foundations for wing	
		and return walls, abutments, piers upto the	
		abutment/pier cap.	
		(2)Super-structure: On completion of the super-	[Nil]
		structure in all respects including wearing coat,	[IVII]
		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.	
13		(3) Approaches: On completion of approaches	[Nil]
		including Retaining walls/ Reinforced Earth walls,	
		stone pitching, protection works complete in all	
		respect and fit for use.	
Major	0.000 %	A.1- Wideningand repairs of Major Bridges	
ridge(length>60		(1)Foundation	[Nil]
m) works and		(2)Sub-structure	[Nil]
OB/RUB/elevated		(3)Super-structure(including bearings)	[Nil]
ections/flyovers		(4)Wearing Coat including expansion joints	[Nil]
including		(5) Miscellaneous Items like handrails, crash barrier,	[Nil]
viaducts,if any		road markings etc.	► 13 Sept. 4
	ŀ	(6) Wing walls/return walls	[Nil]
		(7)Guide Bunds,River Training works etc.	[Nil]
		(8)Approaches(including Retaining walls, stone	[Nil]

Item	Weightage in % of CP	Stage for Payment	Percentage
		pitching and protection works)	
		A.2-NewMajorBridges	
		(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)Guide Bunds, River Training works etc.	[Nil]
		(8)Approaches(including Retaining walls, stone	[Nil]
		pitching and protection works)	10,4-17
		B.1-Wideningandrepairsof (a) ROB (b) RUB	FA 1113
		(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 respects as specified and (b) In case 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, Stone Pitching and protection works)	[Nil]
		B.2-NewROB/RUB	[Nil]
		(1) Foundations	[Nil]
		(2) Sub-Structure	
		(3) Super-Structure (Including bearings)	[Nil]
		(4) Wearing Coat (a) in case of ROB- wearing coat including expansion joints complete in all respects as specified and (b) in case of RUB-rigid pavement under RUB including drainage facility complete in all respects as specified	[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	[Nil]
		c.1- Widening and repair of Elevated	
		Section/Flyovers/Grade Separators	[N1:17
		(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,	[Nil]
		road markings etc.	F
		(6) Wing walls/Return walls	[Nil]
		(7)Approaches (including Retaining	[Nil]
		walls/Reinforced Earth wall, stone pitching and	

Item	Weightage in % of CP	Stage for Payment	Percentage
		protection works)	
		C.2- New Elevated Section/Flyovers/Grade	
		Separators	
	(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]
Other Works	21.36 %	(i) Toll Plaza	[Nil]
		(ii) Road side drains	66.03%
		(iii) Road signs, markings, km stones, safety devices	10.5%
		etc	
		(iv) Project facilities	
		a) Bus Bays	8.57%
		b) Truck Lay-byes	[Nil]
		c) Passenger Shelter	0.92%
		d) Rest Area	[Nil]
		(v) Road side Plantation	[Nil]
		(vi) Repair 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	3.46%
		(ix) Toe Wall	1.88%
		(x) Retaining Wall	5.21%
		(xi) Boundary wall	[Nil]
		(xii) Site Clearance & Dismantling	3.04%
		(xiii) Other works (Turfing & Hydro seeding etc.)	0.39%

le

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]	3 %
(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	8.92%	Unit of measurement is linear length. Payment of
(3) Sub-base Course	27.59%	each stage shall be made on pro-rata basis on
(4) Non bituminous Base course	17.56%	completion of a stage in full length or 5(five) km
(5) Bituminous Base course	15.44%	length, whichever is less.
(6) Wearing Coat	8.87%	
(7) Widening and repair of culverts		
B.2- Reconstruction/New 8-Lane		
Realignment/Bypass (Rigid Pavement)		Link of the Common of the Paramatan December 1
(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	[61:1]	length, whichever is less.
(PQC) Course	[Nil]	
C.1- Reconstruction/New Service Road/ Slip		
Road (Flexible Pavement)		Unit of measurement is linear length. Payment of
(1)Earthwork up to top of the sub-grade	[Nil]	each stage shall be made on pro-rata basis on
(2) Sub-base Course	[Nil]	completion of a stage in full length or 5(five) km
(3) Non bituminous Base course	[Nil]	length, whichever is less.
(4) Bituminous Basecourse	[Nil]	
(5) Wearing Coat	[Nil]	
C.2- Reconstruction/New Service road		
(Rigid Pavement)		Unit of measurement is linear length. Payment of
(1)Earthwork up to top of the sub-grade	[Nil]	each stage shall be made on pro-rata basis on
(2) Sub-base Course	[Nil]	completion of a stage in full length or 5(five) km
(3) Dry Lean Concrete (DLC)Course	[Nil]	length, whichever is less.
(4) Pavement Quality Control	[Nil]	2 au 0 au 7 au 11 au 12 au
(PQC) Course	[, 4,,,]	
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)	21.62%	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	Weightage	Payment Procedure
1	2	3
A.1-Widening and repairs of Minor Bridges(length>6m&<60m)	0.83%	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 > 6m & < 60m)		
(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.	61.57%	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.	37.6%	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,	[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

Stage of Payment	Weightage	Payment Procedure
protection works complete in all		this sub-clause.
and fit for use		
(4) Guide Bunds and River	[Nil]	Guide Bunds and River Training
Training Works: On completion		Works:
of Guide Bunds and river		Payment shall be made on pro-rata basis on completion of
training works complete in all		a stage i.e. completion of Guide Bund sand River training
respects	F81:13	Works in all respects as specified
B.1- Widening and repairs of	[Nil]	Cost of each underpass/overpass shall be determined on pro-rata basis with respect to the total linear length of the
underpasses/overpasses		underpasses/ overpasses. Payment shall be made on the
		completion of widening & repair works of a
		underpass/overpass.
B.2- New		,
Underpasses/Overpasses		
(1)Foundation + Sub-Structure:	[Nil]	Foundation: Cost of each Underpass/ Overpass shall be
On completion of the		determined on pro- rata basis with respect to the total
foundation work including		linear length (m) of the Underpasses/Overpasses. Payment
foundations for wing and return		against foundation shall be made on pro-rata basis on
walls, abutments, piers up to the		completion of a stage i.e. Not less than 25% of the scope of foundation of each Underpasses/ Overpasses.
abutment/pier cap.		Toundation of each officerpasses/ Overpasses.
		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	[Nil]	Super-structure: Payment shall be made on pro-rata basis
completion of the super-		on completion of a stage i.e. completion of super- structure
structure in all respects		of at least one span in all respects as specified in the
including wearing coat,		column of "Stage of Payment" in this sub-clause. In case of
bearings, expansion joints, hand		structures where pre-cast girders have been proposed by
rails, crash barriers, road signs &		the Contractor,50% of the stage payment shall be due and payable on casting of girders for each span and balance
markings, tests on completion etc. complete in all respect.		50% of the stage payment shall be made on completion of
etc. complete in an respect.		stage specified as above
Wearing Coat (a) in case of		stage specified to the re
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.	[Vi:IJ	Payment shall be made on pro-rata basis on completion of
(3) Approaches: On completion of approaches including	[Nil]	a stage in all respects as specified
Retaining walls/ Reinforced		a stage in an 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	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 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.
(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 major bridge.
(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 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)Guide Bunds, River Training works etc.	[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.
(8)Approaches(including Retaining walls, stone pitching and protection works)	[Nil]	Approaches: Payments shall be made on pro-rata basis on completion of 10% of the scope of each stage.
A.2-NewMajorBridges (1)Foundation		Foundation: Cost of each Major Bridge shall be determined
(1)i odildation	[Nil]	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



Stage of Payment	Weightage	Payment Procedure
		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 lessthan25% of the scope of sub- structure of major bridge.
(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 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. 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 Training works: Payments shall be made on completion of all guide bunds/river training works etc. complete in all respects as specified.
(8)Approaches(including Retaining walls, stone pitching and protection works)	[Nil]	Approaches: Payments shall be made on pro-rata basis on 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 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
(2) Culs Characture		trigger of first payment shall include load testing also where specified. Sub-structure: Payment against sub- structure shall be made
(2) Sub-Structure	[Nil]	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 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	[Nil]	Wearing Coat: Payment shall be made on completion



Stage of Payment	Weightage	Payment Procedure
joints complete in all respects as		(a) in case of ROB-wearing coat including expansion joints
specified and (b) in case of RUB-		complete in all respects as specified
rigid pavement under RUB		
including drainage facility		and
complete in all respects as		(h) in some of DLID visid recomment under DLID including
specified		(b) in case of RUB-rigid pavement under RUB including drainage facility complete in all respects as specified.
(5) Miscellaneous Items like		Miscellaneous: Payments shall be made on completion of all
handrails, crash barrier, road	[Nil]	miscellaneous works like handrails, crash barriers, road
markings etc.	[14.11]	markings etc. complete in all respects as specified.
(6) Wing walls/Return walls		Wingwalls/return walls: Payments shall be made on
(0)	[Nil]	completion of all wing walls/return walls complete in all
		respects as specified.
(7) Approaches (Including		Payments shall be made on pro-rata basis on completion of
Retaining walls, Stone Pitching and	[Nil]	20% of the total area.
protection works)		
B.2-NewROB/RUB		
(1) Foundation		Foundation: Cost of each ROB/RUB shall be determined on
		pro-rata basis with respect to the total linear length (m)of
	[Nil]	the ROB/RUB. Payment against foundation shall be made on
		pro-rata basis on completion of a stage i.e. not less than 25%
(2) Sub-atmostume		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
	[INII]	25% of the scope of sub- structure of ROB/RUB.
(3) Super-structure		Super-structure: Payment shall be made on pro-rata basis on
(including bearing)		completion of a stage i.e. completion of super- structure
,		including bearings of at least one span in all respects as
	[NI:17	specified. In case of structures where pre-cast girders have
	[Nil]	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		Wearing Coat: Payment shall be made on completion
ROB- wearing coat including		/ At a second popular and a second se
expansion joints complete in all		(a) in case of ROB-wearing coat including expansion joints
respects as specified and (b) in case of RUB-rigid pavement under	[Nil]	complete in all respects as specified
RUB including drainage facility	[INII]	and
complete in all respects as		and
specified		(b) In case of RUB-rigid pavement under RUB including
speeeu		drainage facility complete in all respects as specified.
(5) Miscellaneous Items like		Miscellaneous: Payments shall be made on completion of all
handrails, crash barrier, road	[Nil]	miscellaneous works like handrails, crash barriers, road
markings etc.		markings etc. Complete in all respects as specified.
(6) Wing walls/Return walls		Wingwalls/return walls: Payments shall be made on
	[Nil]	completion of all wing walls/return walls complete in all
		respects as specified.
(7)Approaches (including Retaining		Payment shall be made on pro-rata basis on completion of a
walls/Reinforced Earth wall, stone	[Nil]	stage in all respects as specified
pitching and protection works)		



Stage of Payment	Weightage	Payment Procedure
C.1-Wideningandrepairs of		
Elevated Section/ Flyovers/Grade		
Separators (1) Foundations		Foundation: Cost of each structure shall be determined on
(1) Foundations	[Nil]	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 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]	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]	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	[Nil]	Super-structure: Payment shall be made on pro-rata basis on

Stage of Payment	Weightage	Payment Procedure
bearings)		completion of a stage i.e. completion of super- structure
Contract of		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		Wearing Coat: Payment shall be made on completion of
expansion joints	[Nil]	wearing coat including expansion joints complete in all
		respects as specified.
(5) Miscellaneous Items like		Miscellaneous: Payments shall be made on completion of all
handrails, crash barrier, road	[Nil]	miscellaneous works like handrails, crash barriers, road
markings etc.		markings etc. complete in all respects as specified.
(6) Wing walls/Return walls		Wingwalls/return walls: Payments shall be made on
	[Nil]	completion of all wing walls/return walls complete in all
		respects as specified.
(7)Approaches (including Retaining		Payments shall be made on pro-rata basis on completion of
walls/Reinforced Earth wall, stone	[Nil]	20% of the total area.
pitching and protection works)		

Note: (1) In case of innovate Major Bridge projects like cable suspension/cable stayed/ Extra Dozed and exceptionally long span bridges, the schedule may be modified as per site requirements before bidding with due approval of Competent Authority.

(2) The Schedule for exclusive tunnel projects may be prepared as per site requirements before bidding with due approval of Competent Authority.

1.3.4 Other works.

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

Table 1.3.4

Stage of Payment	Weightage	Payment Procedure
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) Roadside drains	66.03%	Unit of measurement is linear length. Payment
(3) Road signs, markings, km stones, safety devices etc.	10.5%	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	8.57%	Payment shall be made on pro-rata basis for completed facilities.
b) Truck Lay-byes	[Nil]	
c) Passenger Shelter	0.92%	
d) Rest Area	[Nil]	
(5) Road side Plantation including Horticulture in	[Nil]	Unit of measurement is linear length

Stage of Payment	Weightage	Payment Procedure
Wayside Amenities		
(6) Repair of Protection Works other than approaches to the bridges, elevated sections/flyover/grade separators and ROBs/ RUBs (7) Safety and traffic	[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. Payment shall be made on prorate basis every six months.
management during construction	[Nil]	Unit of measurement is linear length. Payment
(8) Protection Works (a) Retaining Wall	5.21%	shall be made on pro-rata basis on completion of
(b) Breast Wall (c) Toe Wall	3.46%	a stage in a length of not less than 5% (five percent) of the total length.
(9) Site Clearance & Dismantling	3.04%	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 percent) of the total length.
(10) Other works (Turfing & Hydro seeding etc.)	0.39%	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.

