Name of Work:

Two Laning of Imphal-Moreh Section of NH 39 (package-II) from Km 350.00 to Km 395.680 in the state of Manipur-

Corrigendum-III -Reg.

Corrigendum No. III

SI. No	Referenc e of RFP	Clause no.	Existing Provisions	Modified Provisions
1	IFB & RFP	Schedule of Bidding Process	BID document can be viewed/ downloaded end date: 15.11.2017 up to 1500 hours Bid submission last day Online: 15.11.2017 up to 1500 hours Physical submission end date: 17.11.2017 up to 1500 hours	22.11.2017 up to 1500 hours Bid submission last day Online: 22.11.2017 up to 1500 hours
			Technical Opening of bids: 17.11.2017 up to 1530 hours	Technical Opening of bids: 24.11.2017 up to 1530 hours.
2.	Draft Contract Agreemen t	Annex-IV Of Schedule- A	Environmental Clearances To be filled by the Environment Consultant Appointed by ADB	Environmental Clearances The Project Highway does not require the environment clearance as per MoEF circular dated 22.08.2013. In addition, the stage 1 clearance is applied online dated 12.08.2016 which is likely to be received shortly The amount will be deposited with MoEF for final approval on receipt of stage-I clearance. Temporary working permission will be ensured before appointed date. All conditions imposed by MoEF while issuing the approval in principle (AIP) and final forest clearance (FC) to be adhered during construction stage and after construction stage are to be compiled with. The muck dumping sites in forest stand identified and freezed by forest department to be abided by agency during dumping of muck.

SI. No	Referenc e of RFP	Clause no.			Existing Provi	isions					Modifi	ed Prov	isions		
3	Annex-I of Schedule B	Clause 2.2			ed: The design s enclosed in Anne					Design spe					
4	Section 2 - Bid Data Sheet	ITB 19.3	The b	oid security	shall be, in the fo	ollowing	form, va	lid up to	The to 19	bid security 9.04.2018.	shall be	e, in the	followin	g form,	valid up
5	Draft Contract Agreemen t	Article 19 Cl.19.10.4	refine BI = at [Pa prior t FO = oil a Corpo Date. FI = consu first d which LO = the [c Labou	BO = The official retail price of bitumen at the nearest refinery at [Panipat] on the Base Date. BI = The official retail price of bitumen at nearest refinery at [Panipat], on the first day of the month three months prior to the month to which the IPC relates. FO = The official retail price of high speed diesel (HSD) oil at the existing consumer pumps of Indian Oil Corporation ("IOC") in the State of [Haryana] on the Base Date. FI = The official retail price of HSD at the existing consumer pumps of IOC in the State of [Haryana] on the first day of the month three months prior to the month to which the IPC relates. LO = The consumer price index for industrial workers for the [circle **** in the State of Uttar Pradesh], published by Labour Bureau, Ministry of Labour, Government of India,					refin BI = at [I+ three FO : oil Corp Base FI = cons first whice the Labe	= The official The official Haldia, Western Messer Months pries The official the existence of the messer Me	lia, Wes retail prist Benga ior to the al retail pasting co DC") in al retail as of IOC nonth the leates. Immer price in the S Ministry	t Bengal ice of bitte al], on the month to price of h onsumer the State price of in the S ree month ce index state of of Labor	I] on the umen at the first of the ownich of the of [M] of the prior of the original of the prior of the original of the prior of the original of the original of the prior of the original origi	Base D nearest ay of the the IPC ed diese of Inc anipur] at the Manipu to the r strial wo	refinery e month relates el (HSD) dian Oil on the existing r] on the month to rkers for shed by of India,
	Draft	Clause 6.0	,	(hereinafter called "CPI") for the month of the Base Date. (hereinafter called "CPI") for the month of the Base Date. 6.0 Roadside Drainage 6.0 Roadside Drainage S. Built-up Design Side Length TCS S. Built-up Design Side Length Length						TCS					
6	Contract Agreemen t	Roadside Drainage of Schedule B	No	Town	Chainage (Km) From To		(m)	Type	N o	Town	Chaina From	ge (Km) To		th (m)	Туре
				NIL 1					1	VUP Approach	359+6 10	360+5 30	Both Side	920	8
7	Draft Contract Agreemen t Clause 2 of Schedule-D "Specification s and Clause 2 of Schedule-D "Specification s and Manual of Standards & Specification for Four Laning of Highways (IRC: SP-84-2014) referred to herein as the Manual of Standards & Specification for Four Laning of Highways (IRC: SP-84-2014) referred to herein as the Manual IRC SP 48:1998														

Page 2 of 4

SI. No	Referenc e of RFP	Clause no.		8	Existing Provisio	ons	Modified Provisions			
		Standard"								
8	Draft Contract Agreemen t	Clause 1 of Annex-I of Schedule-D "Specification s and Standard"	All n	. Specifications and Standard All materials, works and construction operation shall conform to the Manual of Standards to the satisfaction of the Authority Engineer.			The confo docu Spec	project horm to de ments: To diffications	ns and Standard nighway including Prosign requirements set wo Lane Manual (IRC) and Standards for Tw I Road Manual IRC SF	out in the following SP 73 – 2015) of O Laning published
9	Draft Contract Agreemen t	Clause 2 of Annex-I of Schedule-D "Specification s and Standard"	2. De SI. No . 1	No No.			2. De SI. No 1	Clause No. Clause 2.1	Description General: Provision of Two lane	and standards Deviation Lane configuration and width of carriageway shall be provided as per the Typical cross sections given in Schedule B
10	Draft Contract Agreemen t	Schedule -H	Sche	Schedule-H			Mod	ified Sch	edule-H (Annexure-A	A)
11	Draft Contract Agreemen t	Schedule-A	Anne	Annex-II				fied Anne ed at An r	ex-II nexure-BB)	

SI. No	Referenc e of RFP	Clause no.	Existing Provisions			Modified Provisions			
			12.1 (i) The Minimum quantity be taken as below: Type of Protection Work 1. Parapet Wall/ Toe Wall	tion Work Unit	Quantit	12.1 (i) The Minimum quantit may be taken as below: Type of Protection Protection Work 1. Parapet Wall/ Toe Wall		Quantit y	
	Draft	Clause	Breast wall with PCC Breast wall sausage type by gabioni Specialized treatment for slide protection as specified above-	Rm Rm		Breast wail with PCC Breast wall sausage type by gabioni Specialized treatment for slide protection as specified above-	Rm Rm	18830 NIL	
12	Contract Agreemen t	12.1(i) of Annex-I of Schedule B	4.Retaining Wall with PCC 5.Catch water drain 6. Vetiver Plantation, Hydro Seeding and Hydro Mulching etc. including nets	Rm Rm		4.Retaining Wall with PCC 5.Catch water drain 6. Vetiver Plantation, Hydro Seeding and Hydro Mulching etc. including nets if required	Rm Rm sq.m	317650	
			if required or similar works are to be done for slope protection and site mitigation measure upto a height of 12-15 m all along the slopes in each cutting locations except hard rock location which needs to be protected with appropriate applicable technologies, if required.			or similar works are to be done for slope protection and site mitigation measure upto a height of 12-15 m all along the slopes in each cutting locations except hard rock location which needs to be protected with appropriate applicable technologies, if required.			

Col Rajeev Sood (Retd) GM (Tech), NHIDCL

Annexure-AA

SCHEDULE - H

(See Clauses10.1.4 and 19.3)

Contract Price Weightages

- 1.1 The Contract Price for this Agreement is Rs. ******
- 1.2 Proportions of the Contract Price for different stages of Construction of the Project Highway shall be as specified below:

Item	Weightage in Percentage to the Contract Price	Stage for Payment	Percentage Weightage
1	2	3	4
Road works including Culverts, widening and	74.07	A- Widening and strengthening of existing road	
repair of culverts		(1) Earthwork up to top of the sub-grade	37.14
		(2) Sub Base Course	9.68
		(3) Non Bituminous Base Course	14.87
		(4) Bituminous Base Course	16.93
		(5) Wearing Coat	8.18
		(6) Widening and repair of culverts	0.00
		B.1- Reconstruction/New 4-	
		lane realignment/bypass (Flexible Pavement)	
		(1) Earthwork up to top of the sub-grade	0.00
		(2) Sub Base Course	0.00
		(3) Non Bituminous Base Course	0.00
		(4) Bituminous Base Course	0.00
		(5) Wearing Coat	0.00
		B.2- Reconstruction/New 4- lane realignment/ bypass (Rigid Pavement)	
		(1) Earthwork up to top of the sub-grade	0.00

			(2) Sub Base Course	0.00
			(3) Dry Lean Concrete (DLC)	0.00
			Course	
			(4) Pavement Quality Control	0.00
			(PQC) Course	
			C.1- Reconstruction/New	
			Service road (Flexible	
			Pavement)	
			(1) Forthywork ye to tan of the	0.28
			(1) Earthwork up to top of the sub-grade	0.38
			(2) Sub Base Course	0.24
			(3) Non Bituminous Base	0.35
*			Course	
			(4) Bituminous Base Course	0.19
			(5) Wearing Coat	0.12
			C.2- Reconstruction/New	
			Service road (Rigid	
			Pavement)	
			(1) Earthwork up to top of the	0.00
			sub-grade	0.00
			(2) Sub Base Course	0.00
			(3) Dry Lean Concrete (DLC)	0.00
			Course (4) Pavement Quality Control	0.00
			(PQC) Course	0.00
			D- Reconstruction and New Culverts on Existing	
	ii .		Culverts on Existing Road, Realignments,	
	760		Bypasses:	
				44.00
	Minor Bridges/	2.04	Culverts (Length < 6) A.1- Widening and Repair of	11.92
	Underpasses/	2.01	Minor Bridges (Length >	
	Overpasses		6m and < 60m	*
			Minor D. L	16.62
			Minor Bridges	16.63
			A.2- New Minor Bridges	
			(Length > 6m and < 60m	
		= 1 = 1	(1) Foundation and	0.00
	-		(1) Foundation and Substructure: On	0.00
			completion of the	
			foundation work including	
			foundations for wing and	
			foundations for wing and	

	11 1 1	
	return walls, abutments, piers up to the abutment/pier cap.	
	Superstructure: On completion of the superstructure in all respects including wearing coat, bearings, expansion joints, hand rails, crash barriers, road signs & markings, tests on completion etc., complete in all respect.	0.00
	Approaches: On completion of the approaches including Retaining walls, stone pitching, protection works complete in all respect and fit for use.	0.00
(4)	Guide Bunds and River Training Works: On completion of Guide Bunds and River Training Works complete in all respect.	0.00
B.1-	Widening and Repair of Underpasses/Overpasses	
	Underpasses/Overpasses	0.00
B.2-	New Underpasses / Overpasses	
	Foundation and Substructure: On completion of the foundation work including foundations for wing and return walls, abutments, piers up to the abutment/pier cap.	16.87
(2)	Superstructure: On completion of the superstructure in all respects including wearing	6.97

		,		
	v i		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.	
		(3)	Approaches: On completion of the approaches including Retaining walls/ Reinforced Earth walls, stone pitching, protection works complete in all respect and fit for use.	59.53
Major Bridge (Length > 60m)	0.00	A.1-	Widening and repairs of Major Bridges	
works and ROB /	-		Major Bridges	
RUB / Elevated		(1)	Foundation	0.00
Sections / Flyovers		(2)	Substructure	0.00
including viaducts, if any		(3)	Superstructure (including bearings)	0.00
		(4)	Wearing Coat including expansion joints	0.00
		(5)	Miscellaneous Items like hand rails, crash barriers, road markings etc.,	0.00
		(6)	Wing walls / return walls	0.00
		(7)	Guide Bunds, River Training Works etc.,	0.00
		(8)	Approaches (including	0.00
			Retaining Walls, stone pitching and protection works)	
		A.2-	New Major Bridges	
		(1)	Foundation	0.00
		(2)	Substructure	0.00
		(3)	Superstructure (including	0.00

(4) Wearing Coat including expansion joints (5) Miscellaneous Items like hand rails, crash barriers, road markings etc., (6) Wing walls / return walls (7) Guide Bunds, River Training Works etc., (8) Approaches (including Retaining Walls, stone pitching and protection works) B.I- Widening and repair of (a) ROB & (b) RUB (1) Foundation 0.00 (2) Substructure 0.00 (3) Superstructure (including bearings) (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 and (b) in case of RUB-Rigid pavement under RUB including drainage facility complete in all respects as specified (5) Miscellaneous Items like hand rails, crash barriers, road markings etc., (6) Wing walls / return walls (7) Approaches (including Retaining Walls, stone pitching and protection works) B.2- New ROB / RUB (a) ROB & (b) RUB (1) Foundation 0.00 (2) Substructure (including 0.00 (3) Superstructure (including 0.00					
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(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 (5) Miscellaneous Items like hand rails, crash barriers, road markings etc., (6) Wing walls / return walls (7) Approaches (including Retaining Walls, stone pitching and protection works) B.2- New ROB / RUB (a) ROB & (b) RUB (1) Foundation 0.00 (2) Substructure (including 0.00 (3) Superstructure (including 0.00					0.00
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Retaining Walls, stone pitching and protection works) B.2- New ROB / RUB (a) ROB & (b) RUB (1) Foundation 0.00 (2) Substructure 0.00 (3) Superstructure (including 0.00				1 To	
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works) B.2- New ROB / RUB (a) ROB & (b) RUB (1) Foundation 0.00 (2) Substructure 0.00 (3) Superstructure (including 0.00					
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(a) ROB & (b) RUB (1) Foundation 0.00 (2) Substructure 0.00 (3) Superstructure (including 0.00			Rγ	Now DOR / DIID	
(b) RUB (1) Foundation 0.00 (2) Substructure 0.00 (3) Superstructure (including 0.00			D.2-	New ROD / ROD	
(b) RUB (1) Foundation 0.00 (2) Substructure 0.00 (3) Superstructure (including 0.00			(2)	ROB &	
(1) Foundation 0.00 (2) Substructure 0.00 (3) Superstructure (including 0.00			0		
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(2) Substructure 0.00 (3) Superstructure (including 0.00			(1)	Foundation	0.00
(3) Superstructure (including 0.00				500000000000000000000000000000000000000	
				550 to 1000 Mark 1000 to 10	
La a min a a N			(3)		0.00
bearings)				bearings)	

	(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 (5) Miscellaneous Items like hand rolls arough harriers	0.00
	hand rails, crash barriers, road markings etc., 6) Wing walls / return walls 7) Approaches (including Retaining Walls, stone pitching and protection works)	0.00 0.00
	C.1- Widening and repair of Elevated Section/Flyover/ Grade Separators	
	 Foundation Substructure Superstructure (including bearings) 	0.00 0.00 0.00
	Wearing Coat including expansion jointsMiscellaneous Items like	0.00
	hand rails, crash barriers, road markings etc., Wing walls / return walls Approaches	0.00
	7) Approaches (including Retaining Walls, stone pitching and protection works)	0.00
	C.2- New Elevated Section/ Flyover/ Grade Separators	
	1) Foundation	0.00
	2) Substructure	0.00
	Superstructure (including bearings)Wearing Coat including	0.00
5	expansion joints	0.00

		(6) Wing walls / return walls	0.00
		(7) Approaches (including	0.00
		Retaining Walls, stone	
		pitching and protection	
		works)	
Other works	23.89	(i) Toll Plaza	0.00
		(ii) Road side drains	5.78
		(iii) Road signs, markings, km	6.05
		stones, safety devices,	
		(iv) Project facilities	
		(a) Bus Bays	1.41
		(b) Truck Lay-Byes	0.00
		(c) Rest Areas	0.00
		(d) Others	0.00
		(v) Road side plantation	0.00
		(vi) Repair of protection works	0.00
		other than approaches to	00 000 30
		the bridges, elevated	
	1.83	sections / flyovers / grade	
		separators and	
		ROBs/RUBs	
		(vii) Safety & traffic	5.27
= .		management during	
E		construction	
		(viii) Retaining wall	72.42
		(ix) Miscellaneous	9.07
100		()	2.07

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 existing road		
(1) Earthwork up to top of the sub-grade	37.14	Unit of measurement is linear length. Payment of each stage shall be made on pro rata basis on
(2) Sub-Base Course (3) Non Bituminous Base Course	9.68 14.87	completion of a stage in a length of not less than 10 (ten) percent of the total length.
(4) Bituminous Base Course (5) Wearing Coat	16.93 8.18	
(6) Widening and repair of	\$7.500 (C)	Cost of completed culverts shall

	Ι	
culverts		be determined pro rata with
		respect to the total number of
		culverts. Payment shall be made
		on the completion of atleast five
		culverts.
B.1 Reconstruction / New 4-		
lane realignment / bypass		
(Flexible Pavement)		
		Unit of measurement is linear
(1) Earthwork up to top of	0.00	length. Payment of each stage
the sub-grade		shall be made on pro rata basis on
(2) Sub Base Course	0.00	completion of a stage in full
(3) Non-Bituminous	0.00	length or 5 (five) km length which
Course	1000 Valentinia	ever less.
(4) Bituminous Base	0.00	
Course		,
(5) Wearing Coat	0.00	
B.2 Reconstruction / New 4-		
lane realignment / bypass		
(Rigid Pavement)		
(1) 7 1 1 1 1 1	0.00	Unit of measurement is linear
(1) Earthwork up to top of	0.00	length. Payment of each stage
the sub-grade	E 412	shall be made on pro rata basis on
(2) Sub Base Course	0.00	completion of a stage in full
(3) Dry Lean Concrete	0.00	length or 5 (five) km length which
(DLC) Course		ever less.
(4) Pavement Quality	0.00	
Control (PQC) Course	Y	
C.1 Reconstruction / New		
Service Road (Flexible		
Pavement)		III.
(1) F 1 1 - 1 - ()	0.20	Unit of measurement is linear
(1) Earthwork up to top of	0.38	length. Payment of each stage
the sub-grade	0.24	shall be made on pro rata basis on
(2) Sub Base Course	0.24	completion of a stage in full
(3) Non-Bituminous	0.35	length or 5 (five) km length which
Course	0.10	ever less.
(4) Bituminous Base	0.19	8
Course	0.12	
(5) Wearing Coat	0.12	
C.2 Reconstruction / New		
Service Road (Rigid		
Pavement)		Unit of management is linear
(1) Forthwork up to top of	0.00	Unit of measurement is linear
(1) Earthwork up to top of	0.00	length. Payment of each stage
the sub-grade	0.00	shall be made on pro rata basis on
(2) Sub Base Course	0.00	completion of a stage in full
(3) Dry Lean Concrete	0.00	length or 5 (five) km length which
(DLC) Course	0.00	ever less.
(4) Pavement Quality	0.00	

Control (PQC) Course		
D. Reconstruction and New		Cost of each culvert shall be
Culverts on existing road,		determined on pro rata basis with
realignments and		respect to the total number of
bypasses:		culverts. Payment shall be made
,		on the completion of five culverts.
(1) Culverts (Length < 6m)	11.92	

^{@.} 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 $km = P \times Weightage$ 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 stages (1), (2) and (4) above shall be worked out.

Note: The length of 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 Bridges and Underpasses / Overpasses shall be as stated in table 1.3.2:

Table 1.3.2

Stage of Payment	Weightage	Payment Procedure
A.1Widening and repairs of Minor Bridges (Length > 6m and < 60m)	16.63	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 completion of widening and repair works of minor bridge.
A.2New Minor Bridges (i) Foundation+Substructure: On completion of the foundation work including foundations for wing and return walls, abutment and piers up to abutment / pier cap	0.00	(i) Foundation and Substructure: 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 + substructure shall be made on pro rata basis on completion of stage i.e not less than 25% of the scope of foundation + substructure of each bridge subject to completion of

		atleast two foundations along with substructure up to abutment / pier cap level of each bridge. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
(ii) Superstructure: completion of superstructure in respects including we coat, bearings, expa joints, hand rails, barriers, road sign markings, tests completion etc., com in all respects.	erash s & on	(ii) Superstructure: Payment shall be made on pro rata basis on completion of a stage i.e completion of superstructure of atleast one span in all respects as specified in the column of "Stage Payment" in this sub clause.
(iii) Approaches: completion of appro including retaining v stone pitching, prote works complete in respects & fit for use	walls, ection a all	(iii) Approaches: Payment shall be made on pro rata basis on completion of a stage i.e completion of approaches in all respect as specified in the column of "Stage Payment" in this sub clause.
(iv)Guide Bunds and I Training Works: completion of Guide E and River Training v complete in all respects	On Bunds works	(iv) Guide Bunds and River Training Works: Payment shall be made on pro rata basis on completion of a stage i.e completion of Guide Bunds and River Training Works in all respects as specified.
B.1Widening and repair Underpasses / Overpa		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.2New Underpasses Overpasses (i) Foundation+Substruct On completion of foundation work inclu foundations for wing return walls, abutment	the uding and	(i) Foundation and Substructure: Cost of each Underpass/Overpass shall be determined on pro rata basis with respect to the total linear length (m) of the Underpass/ Overpass. Payment against foundation + substructure shall be made on pro

piers up to abutment / pier cap		rata basis on completion of stage i.e not less than 25% of the scope of foundation + substructure of each Underpass / Overpass subject to completion of atleast two foundations along with substructure up to abutment / pier cap level of each Underpass / Overpass. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
(ii) Superstructure: On completion of the superstructure in all respects including wearing coat, bearings, expansion joints, hand rails, crash barriers, road signs & markings, tests on completion etc., complete in all respects.	6.97	(ii) Superstructure: Payment shall be made on pro rata basis on completion of a stage i.e completion of superstructure of atleast one span in all respects as specified in the column of "Stage Payment" in this sub clause.
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.		
(iii) Approaches: On completion of approaches including Retaining walls/ Reinforced Earth Walls, stone pitching, protection works complete in all respects & fit for use	59.93	(iii) Approaches : Payment shall be made on pro rata basis on completion of a stage i.e completion of approaches in all respect as specified.

1.3.3 Major Bridge works and ROB/RUB and Structures

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

Stage of Payment	Weightage	Payment Procedure
A.1Widening and repairs of Major Bridges (i) Foundation	0.00	(i) Foundation: Cost of each Major Bridge shall be determined on pro rata basis with respect to the total linear length (m) of the Major Bridge. Payment against foundation shall be made on pro rata basis on completion of stage i.e not less than 25% of the scope of foundation of the Major Bridge subject to completion of atleast two foundations the major bridge.
		In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
(ii) Substructure	0.00	(ii) Substructure: Payment against Substructure shall be made on pro rata basis on completion of stage i.e not less than 25% of the scope of Substructure of the Major Bridge subject to completion of atleast two Substructures up to abutment / pier cap level of the major bridge.
(iii) Superstructure (including bearings)	0.00	(iii) Superstructure: Payment shall be made on pro rata basis on completion of a stage i.e completion of superstructure including bearings of atleast one span in all respects as specified.
(iv) Wearing Coat including Expansion Joints	0.00	(iv) Wearing Coat: Payment shall be made on completion of wearing coat including expansion joints complete in all respects as specified.
(v) Miscellaneous Items like hand rails, crash barriers, road markings etc.,	0.00	(v) Miscellaneous: Payments shall be made on completion of all miscellaneous works like hand rails, crash barriers, road markings etc., complete in all respects as specified.

(vi) Wing Walls / Return Walls	0.00	(vi) Wing Walls / Return Walls: Payments shall be made on completion of all wing walls / return walls complete in all respects as specified.
(vii) Guide Bunds, River Training Works	0.00	(vii) 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.
(viii)Approaches (including Retaining Walls, stone pitching and protection works)	0.00	(viii) Approaches: Payments shall be made on completion of both approaches including stone pitching, protection works, etc., complete in all respect as specified.
A.2New Major Bridges (i) Foundation	0.00	(i) Foundation: Cost of each Major Bridge shall be determined on pro rata basis with respect to the total linear length (m) of the Major Bridge. Payment against foundation shall be made on pro rata basis on completion of stage i.e not less than 25% of the scope of foundation of the Major Bridge subject to completion of atleast two foundations the major bridge.
		In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
(ii) Substructure	0.00	(ii) Substructure: Payment against Substructure shall be made on pro rata basis on completion of stage i.e not less than 25% of the scope of Substructure of the Major Bridge subject to completion of atleast two Substructures up to abutment / pier cap level of the major bridge.
(iii) Superstructure (including bearings)	0.00	(iii) Superstructure: Payment shall be made on pro rata basis on completion of a stage i.e

		completion of superstructure including bearings of atleast one span in all respects as specified.
(iv) Wearing Coat including Expansion Joints	0.00	(iv) Wearing Coat: Payment shall be made on completion of wearing coat including expansion joints complete in all respects as specified.
(v) Miscellaneous Items like hand rails, crash barriers, road markings etc.,	0.00	(v) Miscellaneous: Payments shall be made on completion of all miscellaneous works like hand rails, crash barriers, road markings etc., complete in all respects as specified.
(vi) Wing Walls / Return Walls	0.00	(vi) Wing Walls / Return Walls: Payments shall be made on completion of all wing walls / return walls complete in all respects as specified.
(vii) Guide Bunds, River Training Works	0.00	(vii) 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.
(viii)Approaches (including Retaining Walls, stone pitching and protection works)	0.00	(viii) Approaches: Payments shall be made on completion of both approaches including stone pitching, protection works, etc., complete in all respect as specified.
B.1 Widening and repairs of		(i) Foundation: Cost of each ROB/RUB shall be determined on
(a) ROB		pro rata basis with respect to the
(b) RUB		total linear length (m) of the ROB's/RUBs.
(i) Foundation	0.00	Payment against foundation shall be made on pro rata basis on completion of a stage i.e not less than 25% of the scope of foundation of the ROB/RUB subject to completion of atleast two foundations of the ROB/RUB.
		In case where load testing is required for foundation, the trigger

		of first payment shall include load testing also where specified.
(ii) Substructure	0.00	(ii) Substructure: Payment against Substructure shall be made on pro rata basis on completion of a stage i.e not less than 25% of the scope of Substructure of the ROB/RUB subject to completion of atleast two Substructures up to abutment / pier cap level of the ROB/RUB.
(iii) Superstructure (including bearings)	0.00	(iii) Superstructure: Payment shall be made on pro rata basis on completion of a stage i.e completion of superstructure including bearings of atleast one span in all respects as specified.
(iv) Wearing Coat including Expansion Joints in case of ROB. In case of RUB, rigid pavement under RUB including drainage facility as specified	0.00	(iv) Wearing Coat: Payment shall be made on completion of (a) in case of ROB-Wearing coat including expansion joints complete in all respects as specified and (b) in case of RUB-Rigid pavement under RUB including drainage facility complete in all respects as specified.
(v) Miscellaneous Items like hand rails, crash barriers, road markings etc.,	0.00	(v) Miscellaneous: Payments shall be made on completion of all miscellaneous works like hand rails, crash barriers, road markings etc., complete in all respects as specified.
(vi) Wing Walls / Return Walls	0.00	(vi) Wing Walls / Return Walls: Payments shall be made on completion of all wing walls / return walls complete in all respects as specified.
(vii)Approaches (including Retaining walls, stone pitching and protection works	0.00	(viii) Approaches: Payments shall be made on completion of both approaches including stone pitching, protection works, etc., complete in all respect as specified.
B.2 New		(i) Foundation: Cost of each

	Ť	Thompson i iii i i i
(a) ROB (b) RUB (i) Foundation	0.00	ROB/RUB shall be determined on pro rata basis with respect to the total linear length (m) of the ROB's/RUBs. Payment against foundation shall be made on pro rata basis on completion of stage i.e not less than 25% of the scope of foundation of the ROB/RUB subject to completion of atleast two foundations of the ROB/RUB.
,		In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
(ii) Sub-structure	0.00	(ii) Substructure: Payment against Substructure shall be made on pro rata basis on completion of stage i.e not less than 25% of the scope of Substructure of the ROB/RUB subject to completion of atleast two Substructures up to abutment / pier cap level of the ROB/RUB.
(iii) Super-structure (including bearings)	0.00	(iii) Superstructure: Payment shall be made on pro rata basis on completion of a stage i.e completion of superstructure including bearings of atleast one span in all respects as specified.
(iv) Wearing Coat including Expansion Joints in case of ROB. In case of RUB, rigid pavement under RUB including drainage facility as specified	0.00	(iv) Wearing Coat: Payment shall be made on completion of (a) in case of ROB-Wearing coat including expansion joints complete in all respects as specified and (b) in case of RUB-Rigid pavement under RUB including drainage facility complete in all respects as specified.
(v) Miscellaneous Items like hand rails, crash barriers, road markings etc.,	0.00	(v) Miscellaneous: Payments shall be made on completion of all miscellaneous works like hand rails, crash barriers, road markings etc., complete in all respects as specified.

(vi) Wing Walls / Return Walls	0.00	(vi) Wing Walls / Return Walls: Payments shall be made on completion of all wing walls / return walls complete in all respects as specified.
(vii)Approaches (including Retaining walls / Reinforced Earth walls, stone pitching and protection works)	0.00	(viii) Approaches: Payments shall be made on completion of both approaches including stone pitching, protection works, etc., complete in all respect as specified.
C.1 Widening and repairs of Elevated Section/Flyovers/ Grade Separators (i) Foundation	0.00	(i) Foundation: Cost of each structure shall be determined on pro rata basis with respect to the total linear length (m) of the structure.
(i) Foundation	0.00	Payment against foundation shall be made on pro rata basis on completion of stage i.e not less than 25% of the scope of foundation of the structure subject to completion of atleast two foundations of the structure.
		In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
(ii) Substructure	0.00	(ii) Substructure: Payment against Substructure shall be made on pro rata basis on completion of stage i.e not less than 25% of the scope of Substructure of the structure subject to completion of atleast two Substructures up to abutment / pier cap level of the structure.
(iii) Superstructure (including bearings)	0.00	(iii) Superstructure: Payment shall be made on pro rata basis on completion of a stage i.e completion of superstructure including bearings of atleast one span in all respects as specified.
(iv) Wearing Coat including Expansion Joints	0.00	(iv) Wearing Coat: Payment shall be made on completion of wearing coat including expansion joints

	T	
		complete in all respects as specified.
(v) Miscellaneous Items like hand rails, crash barriers, road markings etc.,	0.00	(v) Miscellaneous: Payments shall be made on completion of all miscellaneous works like hand rails, crash barriers, road markings etc., complete in all respects as specified.
(vi) Wing Walls / Return Walls	0.00	(vi) Wing Walls / Return Walls: Payments shall be made on completion of all wing walls / return walls complete in all respects as specified.
(vii)Approaches (including Retaining Walls / Reinforced Earth Walls, stone pitching and protection works)	0.00	(viii) Approaches: Payments shall be made on completion of both approaches including stone pitching, protection works, etc., complete in all respect as specified.
C.2New Elevated Section/		(i) Foundation: Cost of each
Flyovers/ Grade		structure shall be determined on
Separators		pro rata basis with respect to the total linear length (m) of the
(i) Foundation	0.00	structure.
		Payment against foundation shall be made on pro rata basis on completion of stage i.e not less than 25% of the scope of foundation of the structure subject to completion of atleast two foundations of the structure.
		In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
(ii) Sub-structure	0.00	(ii) Substructure: Payment against Substructure shall be made on pro rata basis on completion of stage i.e not less than 25% of the scope of Substructure of the structure subject to completion of atleast two Substructures up to abutment / pier cap level of the structure.
(iii) Super-structure	0.00	(iii) Superstructure: Payment
(including bearings)		shall be made on pro rata basis on

(iv) Wearing Coat including Expansion Joints	0.00	completion of a stage i.e completion of superstructure including bearings of atleast one span in all respects as specified. (iv) Wearing Coat: Payment shall be made on completion of wearing coat including expansion joints
		complete in all respects as specified.
(v) Miscellaneous Items like hand rails, crash barriers, road markings etc.,	0.00	(v) Miscellaneous: Payments shall be made on completion of all miscellaneous works like hand rails, crash barriers, road markings etc., complete in all respects as specified.
(vi) Wing Walls / Return Walls	0.00	(vi) Wing Walls / Return Walls: Payments shall be made on completion of all wing walls / return walls complete in all respects as specified.
(vii)Approaches (including Retaining Walls / Reinforced Earth Walls, stone pitching and protection works)	0.00	(viii) Approaches: Payments shall be made on completion of both approaches including stone pitching, protection works, etc., complete in all respect as specified.

- Note: 1. In case of innovative Major Bridges 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 DG (RD) & SS, MoRT&H.
 - 2. The Schedule for exclusive tunnel projects may be prepared as per site requirements before bidding with due approval of DG (RD) & SS, MoRT&H.

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
Stage of Fayment	Weightage	1 ayment 1 10ccuare

(i) Toll plaza	0.00	Unit of measurement is each completed toll plaza. Payment of each toll plaza shall be made on pro rata basis with respect to the total of all toll plazas.
(ii) Road side drains	5.78	Unit of measurement is linear length in km. Payment shall be
(iii) Road signs, markings, km stones, safety devices,	6.05	made on pro rata basis on completion of a stage in a length of not less than 10 % (ten per cent) of the total length.
(iv) Project Facilities		
a) Bus baysb) Truck lay-byesc) Rest areasd) Others	1.41 0.00 0.00 0.00	Payment shall be made on pro rata basis for completed facilities.
(v) Road Side plantation (vi) Repairs of protection works other than approaches to the bridges, elevated sections/flyovers / grade separators and ROBs/RUBs	0.00	Unit of measurement is linear length. Payment shall be made on pro rata basis on completion of a stage in a length of not less than 10% (ten per cent) of the total length.
(vii) Safety and traffic management during construction	5.27	Payment shall be made on pro-rata basis every six months
(viii) Retaining wall	72.42	Unit of measurement is linear length. Payment shall be made on pro rata basis on completion of a stage in a length of not less than 10% (ten per cent) of the total length.
(ix) Miscellaneous	9.07	Payment shall be made on pro rata basis for completed facilities.

Annex-II

(Schedule -A)

Dates of providing Right of Way

The dates on which the Authority shall provide Right of Way to the Contractor on different stretches of the site are stated below:

Sl. no.	From	То	Length	Total ROW Width (m)	Date of Providing ROW*
1	250+000	2521200	2300	45	At appointed date or within
1	350+000	352+300			
2	352+300	353+300	1000	41.5	90 days after the appointed
3	353+300	357+600	4300	45	date as per clause 8.2 of
4	357+600	358+100	500	41.5	DCA
5	358+100	364+600	6500	45	
6	364+600	366+400	1600	41.5	
7	366+400	373+730	7530	24	
8	373+730	374+020	290	16	
9	374+020	375+000	980	24	
10	375+000	395+680	20680	24	

^{*} The dates specified herein shall in no case be beyond 150 (one hundred and fifty) days after the Appointed Date