

राष्ट्रीय राजमार्ग एवं अवसंरचना विकास निगम लिमिटेड

सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार
तीसरी मंजिल, पीटीआई बिल्डिंग, 4-संसद मार्ग, नई दिल्ली-110001

National Highways & Infrastructure Development Corporation Limited

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BHARATMALA
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NHIDCL
BUILDING INFRASTRUCTURE - BUILDING THE NATION

CIN: U45400DL2014GOI269062

(भारत सरकार का उद्यम)

(A Government of India Enterprise)

NHIDCL/Manipur/NH-39/ Imp-Koh/2020/PKG-5A/1529

Dated: 04.08.2020

Name of Work: Improvement/ Up-gradation to 4-Lane Divided Highway from Kuraopokpi to Sekmai section (Pkg-5A) of Imphal Kohima Road (NH-39) (Design Chainage from Km 287+000 to Km 297+700) in the state of Manipur.

Tender ID: 2020_NHIDC_566113_1

CORRIGENDUM-I

Reference	Existing Provision	Modified Provision
Revised RFP Section 7, Clause 1, Bidding Schedule	Bid Due date: 04.08.2020	Bid Due date: 10.08.2020
(Refer Clauses 1.1.5, 1.3, 2.11.4(i), 2.12, 2.13, 2.14.2.3, 2.15.2 & 3.1.1)	Bid Opening Date: 05.08.2020	Bid Opening Date: 11.08.2020
Schedules	Schedule-H	Modified Schedule-H (Annexure-1)

04/8/2020

(K. C. Bhatt)
Dy. General Manager (Tech.)
NHIDCL

MODIFIED SCHEDULE - H

(See Clauses 10.1(iv) and 19.3)

Contract Price Weightages

- 1.1 The Contract Price for this Agreement is **Rs.Crore.**
- 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 of for Payment	Percentage Weightage
1	2	3	4
Road works including New Culverts, Widening and Repair of Culverts	72.49%	A-Widening and Strengthening of Existing Road	
		(1) Earthwork up to top of the sub-grade	
		(2) Sub Base Course	
		(3) Non Bituminous Base Course	
		(4) Bituminous Base Course	
		(5) Bituminous Concrete	
		(6) Widening and repair of culverts	0.61%
		B.1- Reconstruction/ New 4 Lane/Realignment/ Bypass (Flexible Pavement)	
		(1) Earthwork up to top of the sub-grade	15.43%
		(2) Sub Base Course (Granular work sub-base, shoulders)	13.69%

Item	Weightage in Percentage to the Contract Price	Stage of for Payment	Percentage Weightage
1	2	3	4
		(3) Non Bituminous Base Course (WMM)	15.57%
		(4) Bituminous Base Course (DBM)	19.41%
		(5) Wearing Coat (Bituminous Concrete)	9.16%
		C.1- Reconstruction/ New Service road (Flexible pavement)	
		(1) Earthwork up to top of the sub-grade	0.42%
		(2) Sub Base Course (Granular work sub-base, shoulders)	0.91%
		(3) Non Bituminous Base Course (WMM)	1. 35%
		(4) Bituminous Base Course (DBM)	0.46%
		(5) Wearing Coat (Bituminous Concrete)	0.35%
		D-Reconstruction and New Culverts on existing road, realignment and Bypasses,	
		(1) Culverts(length <6m)	22.64%
Minor Bridges/ Underpasses/ Overpasses	10.06%	A.1- Widening and Repair of Minor bridges (length>6m and <60m)	
		Minor Bridges	
		A.2-New Minor bridges (length>6m and <60m)	

Item	Weightage in Percentage to the Contract Price	Stage of for Payment	Percentage Weightage
1	2	3	4
		1. Foundation+Sub-Structure: On completion of foundation work including foundations for wing and return walls, abutments, piers up to the abutment/pier cap	57.73%
		2. Super-structure: On completion of super structure in all respects including wearing coat, bearings, expansion joints, hand rails, crash barriers, road signs and markings, tests on completion etc., complete in all respects	37.29%
		3. Approaches: On completion of approaches including Retaining walls, stone pitching, protection works, filter media. etc., complete in all respects & fit for use.	4.98%
		4. Guide Bunds and river Training Works: On completion of Guide Bund and River Training Works complete in all respects	
		B.2-New Underpass	
		1. Foundation+Sub-Structure: On completion of foundation work including foundations for wing and return walls, abutments, piers up to the abutment/pier cap	

Item	Weightage in Percentage to the Contract Price	Stage of for Payment	Percentage Weightage
1	2	3	4
		<p>1. Super-structure: On completion of super structure in all respects including wearing coat, bearings, expansion joints, hand rails, crash barriers, road signs and markings, tests on completion etc., complete in all respects</p> <p>Wearing Coat</p> <p>(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</p>	
		<p>2. Approaches: On completion of approaches including Retaining walls/Reinforced Earth walls, stone pitching, protection works, etc., complete in all respects & fit for use.</p>	
Major Bridge (length>60m) works and ROB/UB/Elevated sections/ Flyovers including viaducts, if any		A.1- Widening and Repair of Major Bridges	
		1. Foundation	
		2. Sub-structure	
		3. Super-structure (including bearings)	
		4. Wearing Coat including expansion joints	

Item	Weightage in Percentage to the Contract Price	Stage of for Payment	Percentage Weightage
1	2	3	4
		5. Miscellaneous Items like hand rails, crash barriers, road marking etc.)	
		6. Wing walls/Return walls	
		7. Guide Bunds, River Training works etc.	
		8. Approaches (Including Retaining walls, stone pitching and protection works)	
		A.2- New Major Bridges	
		1. Foundation	
		2. Sub-structure	
		3. Super-structure (including bearings)	
		4. Wearing Coat including expansion joints	
		5. Miscellaneous Items like hand rails, crash barriers, road marking etc.)	
		6. Wing walls/Return walls	
		7. Guide Bunds, River Training works etc.	
		8. Approaches (Including Retaining walls, stone pitching and protection works)	
Other Works	17.45%	(ii) . Road Side Drain	23.21%

Item	Weightage in Percentage to the Contract Price	Stage of for Payment	Percentage Weightage
1	2	3	4
		(iii).Road signs, markings, km stones, safety devices...	
		a) W beam crash barrier	11.42%
		b) Utility Duct	
		c) Misc	14.18%
		(iv).Project Facilities	
		a) Bus Shelter	8.87%
		b) Truck lay byes	
		(v) Road side Plantation	
		(vi) Protection works other than approaches to the bridges, elevated section/flyover/grade separator and ROBs/ RUBs	1.22%
		(vii) Protection works	
		a) Retaining/Breast wall/Toe Wall	41.10%
		b) Surficial protection and Erosion Control Measures (Cut Height of Side slope >25m)	-
		(viii) Safety and Traffic Management during Construction	-

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 and Strengthening of Existing Road		
(6) Widening and repair of culverts	0.61%	Cost of each culvert shall be determined on pro rata basis with respect to the total number of culverts. Payment shall be made on the completion of at least 1(one) Culvert.
B.1- Reconstruction/ New 4 Lane/Realignment/ Bypass (Flexible Pavement)		
(1) Earthwork up to top of the sub-grade	15.43%	Unit of measurement is linear length. Payment of each stage shall be made on pro rata basis on completion of a stage in full length or 0.5 km length, whichever is less.
(2) Sub Base Course (Granular work sub-base, shoulders)	13.69%	
(3) Non Bituminous Base Course (WMM)	15.57%	
(4) Bituminous Base Course (DBM)	19.41%	
(5) Wearing Coat (Bituminous Concrete)	9.16%	
C.1- Reconstruction/ New Service road (Flexible pavement)		
(1) Earthwork up to top of the sub-grade	0.42%	Unit of measurement is linear length. Payment of each stage shall be made on pro rata basis on completion of a stage in full length or 0.5 km length, whichever is less.
(2) Sub Base Course (Granular work sub-base, shoulders)	0.91%	
(3) Non Bituminous Base Course (WMM)	1. 35%	
(4) Bituminous Base Course (DBM)	0.46%	
(5) Wearing Coat (Bituminous Concrete)	0.35%	
D-Reconstruction and New Culverts on existing road, realignment and Bypasses,		

(1) Culverts(length <6m)	22.64%	Cost of each culvert shall be determined on pro rata basis with respect to the total number of culverts. Payment shall be made on the completion of at least 1(one) Culvert.
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@. 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 Bridge and Underpasses/Overpasses

Procedure for estimating the value of Minor Bridge and Underpass/overpasses shall be as stated in Table 1.3.2:

Table 1.3.2

Stage of Payment	Percentage Weightage	Payment Procedure
A.1- Widening and repairs of Minor Bridges (length >6m and <60m)	-	Cost of each Minor Bridge shall be determined on pro rata basis with respect to the total linear length of the Minor Bridge. Payment shall be made on the completion of widening and repair work of Minor Bridge.
A.2- New Minor Bridges		
1. Foundation +Sub-Structure: On completion of foundation work including foundations for wing and return walls, abutments, piers up to the abutment/pier cap	57.73%	1. Foundation +Sub-Structure: 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

Stage of Payment	Percentage Weightage	Payment Procedure
		against foundation+ substructure shall be made on pro-rata basis on completion of a stage i.e. not less than 25% of the scope of foundation + substructure of each bridge subject to completion of at least two foundations along with sub structure up to abutment/pier cap level of each bridge.
2. Super-structure: On completion of super structure in all respects including wearing coat, bearings, expansion joints, hand rails, crash barriers, road signs and markings, tests on completion etc., complete in all respects	37.29%	2. 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 respect as specified in the column of “Stage of Payment” in this sub-clause.
3. Approaches: On completion of approaches including Retaining walls, stone pitching, protection works, filter media. etc., complete in all respects & fit for use.	4.98%	3. Approaches: Payment shall be made on pro-rata basis on completion of a stage i.e. completion of approaches in all respect as specified in the column of “Stage of Payment” in this sub-clause.
4. Guide Bunds and River Training Works: On completion of Guide Bunds and River Training Works complete in all respects		4. 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.2- New Underpass/Overpasses		
1. Foundation +Sub-Structure: On completion of foundation work including foundations for wing and return walls, abutments, piers		1. Foundation +Sub-Structure: Cost of each Underpass shall be determined on pro rata basis with respect

Stage of Payment	Percentage Weightage	Payment Procedure
up to the abutment/pier cap		to the total linear length (m) of the Underpass. Payment against foundation+ substructure shall be made on pro-rata basis on completion of a stage i.e. not less than 25% of the scope of foundation + substructure of each Underpass subject to completion of at least two foundations along with sub-structure up to abutment/pier cap level of each Underpass.
<p>3. Super-structure: On completion of super structure in all respects including wearing coat, bearings, expansion joints, hand rails, crash barriers, road signs and markings, tests on completion etc., complete in all respects</p> <p>Wearing Coat</p> <p>(a) in case of Overpass-wearing coat including expansion joints complete in all respects as specified and</p> <p>(b) in case of underpass-rigid pavement including drainage facility complete in all respects as specified.</p>		<p>2. 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 respect as specified in the column of “Stage of Payment” in this sub-clause.</p>
<p>3. Approaches: On completion of approaches including Retaining walls/Reinforced Earth walls, stone pitching, protection works, etc., complete in all respects & fit for use.</p>		<p>3. Approaches: Payment shall be made on pro-rata basis on completion of a stage i.e. completion of approaches in all respect as specified.</p>

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.2- New Major Bridges and Cut & Cover Tunnel		
1. Foundation:		<p>1. Foundation: Cost of each Major Bridge shall be determined on pro rata basis with respect to the total linear length (m) of the Major Bridges. Payment against foundation shall be made on pro-rata basis on completion of a stage i.e. not less than 25% of the scope of foundation of Major bridge subject to completion of at least two foundations of the Major Bridge.</p> <p>In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.</p>
2. Sub-Structure		<p>2. 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 the major bridge subject to completion of at least two sub-structures of abutments/piers up to</p>

Stage of Payment	Percentage Weightage	Payment Procedure
		abutment/pier cap level of the major bridge.
3.Super-structure (including bearings)		3. Super-structure: Payment shall be made on pro-rata basis on completion of a stage i.e. completion of super structure including bearing of at least one span in all respect as specified.
4.Wearing coat including expansion joints		4. Wearing Coat: Payment shall be made on completion of wearing coat including expansion joints complete in all respect as specified.
5.Miscellaneous Items like hand rails, crash barriers, road marking etc.		5. Miscellaneous: Payment shall be made on completion of all miscellaneous works like hand rails, crash barrier, road marking etc. complete in all respect as specified.
6.Wing walls/ Return walls		6. Wing walls/ Return walls: Payment shall be made on completion of all wing walls/return walls complete in all respect as specified.
7.Guide bunds, River Training works etc.		7. Guide bunds, River Training works: Payment shall be made on completion of all Guide bunds/ River Training works etc. complete in all respect as specified

Stage of Payment	Percentage Weightage	Payment Procedure
8.Approaches (including Retaining walls, stone pitching and protection works)		8. Approaches: Payment shall be made on completion of both approaches including stone pitching, protection works etc. complete in all respect as specified

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
(ii) Road side drains	23.21%	Unit of measurement is linear length in km. Payment shall be made on pro rata basis on completion of a stage in a length of not less than 5 (five) percent of the total length.
(iii) Road signs, markings, km stones, safety devices...		
d) W beam crash barrier	11.42%	
e) Utility Duct		
f) Misc.	14.18%	
(iv) Project facilities		
a) Bus Shelter	8.87%	Payment shall be made on pro rata basis for completed facilities.
b) Truck lay-byes		
(v) Roadside plantation		Unit of measurement is linear length.
(vii) Protection works other than approaches to the bridges, elevated section/flyover/grade separator and ROBs/ RUBs	1.22%	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.

Stage of Payment	Percentage Weightage	Payment Procedure
(viii) Protection works a) Retaining/Breast wall/Toe wall b) Surficial protection and Erosion Control Measures (Cut Height of Side slope >25m)	41.10% -	
(ix) Safety and traffic management during construction		Payment shall be made on pro rata basis every six months.

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 installments in accordance with the provisions of Clause 19.7.