

राष्ट्रीय राजमार्ग एवं अवसंरचना विकास निगम लिमिटेड

सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार
तीसरी मंजिल, पीटीआई बिल्डिंग, 4-संसद मार्ग, नई दिल्ली-110 001

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सार्वजनिक क्षेत्र का उपक्रम

A PUBLIC SECTOR UNDERTAKING

CORRIGENDUM-XIII

Bid /Package No. NHIDCL/Assam/NH54(E)/Bal-Har/2017

25.08.2017

Sub: Four laning of Balachera to Harangajo section of NH-54(Ext) from km 275.000 to km 244.000 in the State of Assam on EPC mode.

S.No	Clause	Existing provision	Revised provision
1	Schedules	Schedule H	Re-Modified Schedule H (attached)

Adil Singh
GM (T)

Schedule-H
(See Clauses 10.1.4 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 for Payment	Percentage weightage
1	2	3	4
Road works including culverts, widening and repair of culverts	40.631%	B.1- Reconstruction/ New 4-lane realignment/bypass (Flexible pavement)	
		(1) Earthwork up to top of the sub-grade	19.256%
		(2) Sub-Base Course	10.964%
		(3) Non Bituminous Base Course	11.995%
		(4) Bituminous Base Course	23.810%
		(5) Wearing Coat	9.629%
		D-Re-Construction and New culverts on existing road, realignments, bypasses:	
Culverts (lengths < 6m)	24.346%		
Minor Bridges/ Underpasses/ Overpasses	15.345%	A.1- Widening and Repair of Minor bridges (length >6 m and < 60 m)	
		Minor bridges	0.045%
		A.2- New Minor bridges (length >6 m and < 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.	57.272%
		(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 in all respect.	30.292%
Major Bridge works	13.844%	(3) Approaches: On completion of approaches including Retaining walls, stone pitching, protection works complete in all respect and fit for use.	12.391%
		A.2 -New major bridges & Viaduct	
		(1) Foundation	43.671%
		(2) Sub-structure	14.491%
		(3) Super-structure (including bearings)	33.504%
		(4) Wearing Coat including expansion joints	2.527%
		(5) Miscellaneous Items like hand rails, crash barriers, road markings etc.	2.070%
		(6) Wing walls/ return walls	1.485%
		(7) Guide Bunds, River Training works etc.	0.000%
(8) Approaches (including Retaining walls, stone pitching and protection works)	2.251%		
Other works	30.180%	(i) Road side drains	9.926%
		(ii) Road signs, markings, km stones, safety devices,....	14.659%

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	(iii) Project facilities	
	(a) Bus Bays	8.476%
	(b) Truck lay-byes	0.275%
	(c) Rest areas	0.000%
	(d) others	0.000%
	(iv) Repair of Protection Works other than approaches to the bridges, elevated sections/ flyover/ grade separators and ROBs/ RUBs	65.996%%
	(v) Safety and traffic management during construction	0.668%

- The above list is illustrative and may require modification as per the scope of the work.

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 for Payment	Percentage weightage	Payment Procedure
B.1- Reconstruction/ New 4-lane realignment/bypass (Flexible pavement)		
(1) Earthwork up to top of the sub-grade	19.256%	Unit of measurement is linear length for two lane. Payment of each stage shall be made on pro rata basis on completion of a stage in full length or 5 (five) km length, whichever is less.
(2) Sub-Base Course	10.964%	
(3) Non Bituminous Base Course	11.995%	
(4) Bituminous Base Course	23.810%	
(5) Wearing Coat	9.629%	
D-Re-construction and New culverts on existing road, realignments, bypasses:		
(1) Culverts (length < 6m)	24.346%	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 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:

$$\text{Cost per km} = P \times \text{weightage for road work} \times \text{weightage for bituminous work} \times (1/L)$$

Where P = Contract Price

L = Total length in km

Similarly, the rates per km for 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 Underpasses/ Overpasses shall be as stated in table 1.3.2:

L/L

Table 1.3.2

Stage of Payment	Weightage	Payment Procedure
1	2	3
A.1- Widening and Repair of Minor bridges (length >6 m and < 60 m)	0.045%	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		
(1) Foundation + Sub- Structure: On completion of the foundation work including foundations for wing and return walls, abutments, piers upto the abutment/ pier cap.	57.272%	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 + sub-structure shall be made on pro-rata basis on completion of a stage i.e. not less than 25% of the scope of foundation + sub-structure of each bridge subject to completion of at least two foundations along with sub-structure upto 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.
(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 in all respect.	30.292%	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.
(3) Approaches: On completion of approaches including Retaining walls, stone pitching, protection works complete in all respect and fit for use.	12.391%	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.

1.3.3 Major Bridge works & Viaducts

Procedure for estimating the value of Major Bridge works & Viaducts shall be as stated in table 1.3.3:

Table 1.3.3

Stage for Payment	Percentage weightage	Payment Procedure
A-New major bridges & Viaduct		
(1) Foundation	43.671%	Cost of each major bridge/ Viaduct shall be determined on pro rata basis with respect to the total linear length (m) of the Major bridge/ Viaduct. 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/ Viaduct subject to completion of at least two foundations of the Major bridge/ Viaduct. In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
(2) Sub-structure	14.491%	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/ Viaduct subject to completion of at least two sub-structures of abutments/piers upto abutment/pier cap level of the Major bridge/ Viaduct.

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(3) Super-structure (including bearings)	33.504%	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.
(4) Wearing Coat including expansion joints	2.527%	Payment shall be made on completion of wearing coat including expansion joints complete in all respects as specified.
(5) Miscellaneous Items like hand rails, crash barriers, road markings etc.	2.070%	Payment shall be made on completion of all miscellaneous works like hand rails, crash barriers, road markings etc. complete in all respects as specified.
(6) Wing walls/ return walls	1.485%	Payment shall be made on completion of all wing walls/return walls complete in all respects as specified.
(7) Guide Bunds, River Training works etc.	0.000%	Payment 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)	2.251%	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 for Payment	Percentage weightage	Payment Procedure
(i) Road side drains	9.926%	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 10% (ten per cent) of the total length.
(ii) Road signs, markings, km stones, safety devices,....	14.659%	
(iii) Project facilities	(i) Bus byes	Payment shall be made on pro-rata basis for completed facilities.
	(ii) Truck lay bye	
	(iii) Rest areas	
	(iv) others	
(iv) Repair of Protection Works other than approaches to the bridges, elevated sections/ flyover/ grade separators and ROB/ RUBs	65.996%	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.
(v) Safety and traffic management during construction	0.668%	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 instalments in accordance with the provisions of Clause 19.7.