

Corrigendum No: 16

NHIDCL/Civil work/Hayuliang-Hawai (0-17)/Ar.Pr./2016

Date: 06.02.2017

To,

All the prospective bidders

Subject:-"Two-Laning of Existing Khupa - Hayuliang – Hawai Road on EPC basis from design Km. 0.000 (Khupa) to Km. 17.000 [Existing Km 95.800 of (Khupa – Hayuliang Road) to Km 8.970 (Hayuliang – Hawai Road)] in the state of Arunachal Pradesh under SARDP-NE, Project Highway-Corrigendum in Schedules

Sir,

Vide corrigendum dated 25.01.2017, modified RFP, DCA & Schedule A to P with two enclosed corrigendum's dated 13.10.2016 & 05.01.2017 were uploaded corresponding to model documents issued by Ministry vide letter dated 16.01.2017 & 17.01.2017. **Corrigendum issued vides dated 13.10.2016 and 05.01.2017 for Schedules stands cancelled and are not part of Schedules.** Further corrigendum specific to Schedules are tabulated below.

	As Existing		As modified		
Clause 11 of Schedule B	HAZARDOUS LOCATIONS				
	The safety barriers, Protective works shall also be provided at the following hazardous locations / lengths:				
	Sl. No.	Type of Protection works	Minimum Length (m)	Height (range in m)	Remarks
	1	Parapet Wall on Valley side	7064		As per IRC SP:48-1998
	2	W-Beam Crash Barrier	4155		
	3	Breast Wall	4239	2-6 m	
	4	Retaining Wall	4946	2-4 m	
5	Gabion Wall	990	2-4 m		
Hazardous Locations					
The safety barrier (i.e W-Beam Crash Barrier) of minimum 4155 m shall be provided in the entire length.					

Clause 12 of
Para I of
Schedule B

SPECIAL REQUIREMENTS FOR HILL ROADS

All special features shall be provided as per Two Lane Manual (IRC : SP 73 -2007).
The side slope shall be protected by using suitable slope protection measures all along the highway on Hill side and Valley side. The details of the protection work are listed in "Annex B" and the typical sections for the protection works are given in "Annex A".

SPECIAL REQUIREMENT FOR HILL ROADS

In accordance with section 13 of the manual (IRC: SP:73-2015), IRC:SP:48-1998 and recommended practices for treatment of Embankment and Roadside slopes for erosion control (First Revision) IRC:56-2011 and relevant IRC codes.

12.1 Slope Protection

As the project involves cutting of existing hill slopes, it's imperative that slopes are stabilized for ensuring longevity of the slope and the road. Slope stability, erosion control and landslide correction shall be accomplished in accordance with IRC:SP:48-1998. Reference may be drawn from IRC: 56-2011

The minimum quantity of protection works is as per table below.

Sl No	Type of protection work	Minimum Length (m)
1	Parapet wall on valley side	7064
2.	Breast Wall	4239
3.	Retaining Wall	4946
4	Gabion wall	990
5.	Vetiver Plantation. Hydro Seeding and Hydro Mulching etc including nets 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 road on barren slopes except hard rock location which needs to be protected with appropriate applicable technologies, if required.	

However, the Contractor would be responsible for accurate assessment of the actual requirement as per site situation & prepare designs for slope protection & stabilization as per the specifications & standards stipulated in schedule 'D' and submit the same to the AE for review through the proof consultant and implement it accordingly thereafter.

Any increase in quantity over and above the tentative quantity as mentioned in the above table or through change in specifications will not be considered for payment as change of scope. Therefore contractor shall make thorough investigation of the site and assess the requirement of slope protection and slide prone zones and other safety features on his own before submission of bid.

Clause 14 of Schedule B	Change of Scope The length of Structures and bridges specified here in above shall be treated as an approximate assessment. The actual lengths as required on the basis of detailed investigations shall be determined by the Contractor in accordance with the Specifications and Standards. Any variations in the lengths specified in this Schedule B shall not constitute a Change of Scope, save and except any variations in the length arising out of a change of scope expressly undertaken in accordance with the provisions of Article 13.				
Annex-I Schedule D(Addendum)	CHANGE OF SCOPE The length of Structures, bridges and slope protection works whatsoever in terms of retaining wall, breast wall, and gabion wall or under special requirement of hill slope specified hereinabove shall be treated as an approximate assessment The actual lengths as required on the basis of detailed investigations shall be determined by the Contractor in accordance with the Specifications and Standards. Any variations in the lengths and specifications specified in this Schedule-B shall not constitute a Change of Scope.				
Annexure -II Schedule A	Specifications and Standards for Construction 1. Specification and Standards All materials, works and construction operations shall conform to the Two Lane Manual (IRC: SP (73 - 2015) of Specifications and Standards for Two Lining (IRC: SP: 73 - 2015), referred as the Two Lane Manual (IRC: SP: 73 - 2015), and MORTH Specifications for Road and Bridge Works, IRC:SP:48-1998 and IRC 56-2011. Where the specification for a work is not given, Good Industry Practice shall be adopted to the satisfaction of the Authority's Engineer. 2. Deviations from the Specifications and Standards The terms 'Concessionaire', 'Independent Engineer' and 'Concession Agreement' used in the Two Lane Manual (IRC: SP 73- 2015) shall be deemed to be substituted by the terms 'Contractor', 'Authority's Engineer' and 'Agreement' respectively.				
	Sl. No	Design Chainage	Length	Width (m)	Date of Providing ROW
	(i) Full Right of way (full width)	From 0.00 To 15.000	15.000	18-24 (as shown in Schedule B, clause 2.4)	At Appointed date
	(ii) Balance Right of way (width)	15.000	17.000	2.000	Within 90 days after the appointed Date
	Sl. No	Design Chainage	Length	Width (m)	Date of Providing ROW
	(i) Full Right of way (full width)	From 0.000 To 17.000	17.00	18-24 (as shown in Schedule B, clause 2.4)	90 % at appointed date
	(ii) Balance Right of way (width)	-	-	-	Within 90 days after the appointed Date as per clause 8.2 of DCA

Annexure IV Schedule A	Environmental Clearances The project Highway does not required Environment Clearance as per MoEF corrigendum dated 22.08.2013	Environmental Clearances The project Highway does not required Environment Clearance as per MoEF corrigendum dated 22.08.2013. In addition, the AIP for the project has been received. The Final approval is yet to be received through temporary working provision 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 complied with. The muck dumping sites in forest area stand identified and freezed by Forest department to be abided by agency during dumping of muck as stated in Schedule 'F'																																																																																																												
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Para 8.2 of Schedule B	<p>The Tentative quantity of Traffic signages and pavement marking are as tabulated below -</p> <p>Traffic Signages, Road Marking and other appurtenances</p> <table><tr><td>1</td><td>Road Marking: - Lane, Centre Line, Pedestrian crossing</td><td>Sqm</td><td>673</td></tr><tr><td></td><td>Centre line on straight portion</td><td>Sqm</td><td>255</td></tr><tr><td></td><td>Centre line on curve portion</td><td>Sqm</td><td>3400</td></tr><tr><td></td><td>Edge Line at Paved Shoulder</td><td>Sqm</td><td>649</td></tr><tr><td></td><td>Add 15% for Misc. including Pedestrian X-ings etc</td><td>Sqm</td><td>4978</td></tr><tr><td></td><td>Total</td><td>Sqm</td><td>55</td></tr><tr><td>2</td><td>Directional Arrows, letter marking etc.</td><td>Nos.</td><td>30</td></tr><tr><td>3</td><td>Advance Direction signs size 1800X1200 mm</td><td>Nos.</td><td>9.72</td></tr><tr><td>4</td><td>Village name boards size 600X900 mm</td><td>Sqm</td><td>3.84</td></tr><tr><td>5</td><td>Place Identification signs size 1200X900 mm</td><td>Sqm</td><td>15</td></tr><tr><td>6</td><td>90 cm Triangle</td><td>Nos.</td><td>15</td></tr><tr><td>7</td><td>90 cm Octagon</td><td>Nos.</td><td>252.45</td></tr><tr><td>8</td><td>Hazard plate 300X900 mm</td><td>Sqm</td><td>20</td></tr></table>	1	Road Marking: - Lane, Centre Line, Pedestrian crossing	Sqm	673		Centre line on straight portion	Sqm	255		Centre line on curve portion	Sqm	3400		Edge Line at Paved Shoulder	Sqm	649		Add 15% for Misc. including Pedestrian X-ings etc	Sqm	4978		Total	Sqm	55	2	Directional Arrows, letter marking etc.	Nos.	30	3	Advance Direction signs size 1800X1200 mm	Nos.	9.72	4	Village name boards size 600X900 mm	Sqm	3.84	5	Place Identification signs size 1200X900 mm	Sqm	15	6	90 cm Triangle	Nos.	15	7	90 cm Octagon	Nos.	252.45	8	Hazard plate 300X900 mm	Sqm	20	<p>The Tentative quantity of Traffic signages and pavement marking are as tabulated below -</p> <p>Traffic Signages, Road Marking and other appurtenances</p> <table><tr><td>1</td><td>Road Marking: - Lane, Centre Line, Pedestrian crossing</td><td>Sqm</td><td>673</td></tr><tr><td></td><td>Centre line on straight portion</td><td>Sqm</td><td>255</td></tr><tr><td></td><td>Centre line on curve portion</td><td>Sqm</td><td>3400</td></tr><tr><td></td><td>Edge Line at Paved Shoulder</td><td>Sqm</td><td>649</td></tr><tr><td></td><td>Add 15% for Misc. including Pedestrian X-ings etc</td><td>Sqm</td><td>4978</td></tr><tr><td></td><td>Total</td><td>Sqm</td><td>55</td></tr><tr><td>2</td><td>Directional Arrows, letter marking etc.</td><td>Nos.</td><td>30</td></tr><tr><td>3</td><td>Advance Direction signs size 1800X1200 mm</td><td>Nos.</td><td>9.72</td></tr><tr><td>4</td><td>Village name boards size 600X900 mm</td><td>Sqm</td><td>3.84</td></tr><tr><td>5</td><td>Place Identification signs size 1200X900 mm</td><td>Sqm</td><td>15</td></tr><tr><td>6</td><td>90 cm Triangle</td><td>Nos.</td><td>15</td></tr><tr><td>7</td><td>90 cm Octagon</td><td>Nos.</td><td>252.45</td></tr><tr><td>8</td><td>Hazard plate 300X900 mm</td><td>Sqm</td><td>20</td></tr><tr><td>9</td><td>800 x 600 mm Size</td><td>Nos.</td><td>20</td></tr></table>	1	Road Marking: - Lane, Centre Line, Pedestrian crossing	Sqm	673		Centre line on straight portion	Sqm	255		Centre line on curve portion	Sqm	3400		Edge Line at Paved Shoulder	Sqm	649		Add 15% for Misc. including Pedestrian X-ings etc	Sqm	4978		Total	Sqm	55	2	Directional Arrows, letter marking etc.	Nos.	30	3	Advance Direction signs size 1800X1200 mm	Nos.	9.72	4	Village name boards size 600X900 mm	Sqm	3.84	5	Place Identification signs size 1200X900 mm	Sqm	15	6	90 cm Triangle	Nos.	15	7	90 cm Octagon	Nos.	252.45	8	Hazard plate 300X900 mm	Sqm	20	9	800 x 600 mm Size	Nos.	20
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10	60 Cm circular	Nos.	20		
11	Supply and fixing of Micro Prismatic type Retro- Reflective sign plate which is to be fixed on Overhead/ Cantilever structures with the help of G.I. nut bolts	Sqm	51.36		
12	Over Head Sign Truss	MT	5.5		
13	Boundary Stone (taken 10% of Qty)	Nos.	9		As per the IRC SP: 73-2015
14	5th Km Stone -New	Nos.	2		73-2015
15	Ordinary Km Stone	Nos.	15		
16	Hectometer Stone	Nos.	68		
17	Delineator	Nos.	80		80
18	Bollards	Nos.	80		
19	RCC Guard Post	Nos.	80		As per the IRC SP: 73-2015
20	Enamel Paint	Sqm	40		

10	60 Cm circular	Nos.	20		
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19	RCC Guard Post	Nos.			As per the IRC SP: 73-2015
20	Enamel Paint	Sqm			

- The Clause 13.0 (i.e Utilities) of Schedule B stands deleted.
- Wherever applicable, the IRC: SP:73-2007 may be read as IRC:SP:73-2015.
- All other corrigendum's issued in respect of Schedule A to P, RFP, DCA if any shall be treated superseded by the corrigendum dated 25.01.2017 and the instant corrigendum.
- The above corrigendum shall be part of Schedules unless specifically stated otherwise.
- Further, the bidding schedule is modified as below.

As Existing		As modified	
Document Download / Sale End Date	09-Feb-2017 04:00 PM	Document Download / Sale End Date	14-Feb-2017 05:00 PM
Bid Submission End Date	09-Feb-2017 04:00 PM	Bid Submission End Date (online & hard copy)	15-Feb-2017 11:00 PM
Bid Opening Date	09-Feb-2017 05:00 PM	Bid Opening Date	16-Feb-2017 02:00 PM

Y.C Srivastava
GM (T)