

To,

All the prospective bidders

Subject: Two-Laning of Existing Hayuliang – Hawait Road on EPC basis from design Km. 17.000 (Khupa) to Km. 34.000 [Existing Km 16.950 to Km 34.310 (Hayuliang – Hawait Road)] in the state of Arunachal Pradesh under SARDP-NE -Corrigendum in Schedules

Sir,

Wherever applicable, the **IRC: SP: 73:2007** may be read as **IRC: SP: 73:2015**

2. Further, the following modifications have been made:

	As Existing	As Modified																																																																																
Para 3 of Annexure-I of Schedule B	INTERSECTION AND GRADE SEPERATOR	INTERSECTION/MINOR JUNCTION AND GRADE SEPERATOR																																																																																
Para 8.2 of Schedule B	The Tentative quantity of Traffic Signages and Pavement markings are as tabulated below. <table><tr><th colspan="4">Traffic Signages, Road Marking and other appurtenances</th></tr><tr><td>1</td><td>Road Marking: - Lane, Centre Line, Pedestrian crossing</td><td></td><td></td></tr><tr><td></td><td>Centre line on straight portion</td><td>Sqm</td><td>673</td></tr><tr><td></td><td>Centre line on curve portion</td><td>Sqm</td><td>255</td></tr><tr><td></td><td>Edge Line at Paved Shoulder</td><td>Sqm</td><td>3400</td></tr><tr><td></td><td>Add 15% for Misc. including Pedestrian X-ings etc</td><td>Sqm</td><td>649</td></tr><tr><td></td><td>Total</td><td>Sqm</td><td>4978</td></tr><tr><td>2</td><td>Directional Arrows, letter marking etc.</td><td>Nos.</td><td>55</td></tr><tr><td>3</td><td>Advance Direction signs size 1800X1200 mm</td><td>Nos.</td><td>30</td></tr><tr><td>4</td><td>Village name boards size 600X900 mm</td><td>Sqm</td><td>9.72</td></tr></table>	Traffic Signages, Road Marking and other appurtenances				1	Road Marking: - Lane, Centre Line, Pedestrian crossing				Centre line on straight portion	Sqm	673		Centre line on curve portion	Sqm	255		Edge Line at Paved Shoulder	Sqm	3400		Add 15% for Misc. including Pedestrian X-ings etc	Sqm	649		Total	Sqm	4978	2	Directional Arrows, letter marking etc.	Nos.	55	3	Advance Direction signs size 1800X1200 mm	Nos.	30	4	Village name boards size 600X900 mm	Sqm	9.72	The Tentative quantity of Traffic Signages and Pavement markings are as tabulated below. <table><tr><th colspan="4">Traffic Signages, Road Marking and other appurtenances</th></tr><tr><td>1</td><td>Road Marking: - Lane, Centre Line, Pedestrian crossing</td><td></td><td></td></tr><tr><td></td><td>Centre line on straight portion</td><td>Sqm</td><td>673</td></tr><tr><td></td><td>Centre line on curve portion</td><td>Sqm</td><td>255</td></tr><tr><td></td><td>Edge Line at Paved Shoulder</td><td>Sqm</td><td>3400</td></tr><tr><td></td><td>Add 15% for Misc. including Pedestrian X-ings etc</td><td>Sqm</td><td>649</td></tr><tr><td></td><td>Total</td><td>Sqm</td><td>4978</td></tr><tr><td>2</td><td>Directional Arrows, letter marking etc.</td><td>Nos.</td><td>55</td></tr><tr><td>3</td><td>Advance Direction signs size 1800X1200 mm</td><td>Nos.</td><td>30</td></tr><tr><td>4</td><td>Village name boards size 600X900 mm</td><td>Sqm</td><td>9.72</td></tr></table>	Traffic Signages, Road Marking and other appurtenances				1	Road Marking: - Lane, Centre Line, Pedestrian crossing				Centre line on straight portion	Sqm	673		Centre line on curve portion	Sqm	255		Edge Line at Paved Shoulder	Sqm	3400		Add 15% for Misc. including Pedestrian X-ings etc	Sqm	649		Total	Sqm	4978	2	Directional Arrows, letter marking etc.	Nos.	55	3	Advance Direction signs size 1800X1200 mm	Nos.	30	4	Village name boards size 600X900 mm	Sqm	9.72
Traffic Signages, Road Marking and other appurtenances																																																																																		
1	Road Marking: - Lane, Centre Line, Pedestrian crossing																																																																																	
	Centre line on straight portion	Sqm	673																																																																															
	Centre line on curve portion	Sqm	255																																																																															
	Edge Line at Paved Shoulder	Sqm	3400																																																																															
	Add 15% for Misc. including Pedestrian X-ings etc	Sqm	649																																																																															
	Total	Sqm	4978																																																																															
2	Directional Arrows, letter marking etc.	Nos.	55																																																																															
3	Advance Direction signs size 1800X1200 mm	Nos.	30																																																																															
4	Village name boards size 600X900 mm	Sqm	9.72																																																																															
Traffic Signages, Road Marking and other appurtenances																																																																																		
1	Road Marking: - Lane, Centre Line, Pedestrian crossing																																																																																	
	Centre line on straight portion	Sqm	673																																																																															
	Centre line on curve portion	Sqm	255																																																																															
	Edge Line at Paved Shoulder	Sqm	3400																																																																															
	Add 15% for Misc. including Pedestrian X-ings etc	Sqm	649																																																																															
	Total	Sqm	4978																																																																															
2	Directional Arrows, letter marking etc.	Nos.	55																																																																															
3	Advance Direction signs size 1800X1200 mm	Nos.	30																																																																															
4	Village name boards size 600X900 mm	Sqm	9.72																																																																															

	5	Place Identification signs size 1200X900 mm	Sqm	3.84		5	Place Identification signs size 1200X900 mm	Sqm	3.84
	6	90 cm Triangle	Nos.	15		6	90 cm Triangle	Nos.	15
	7	90 cm Octagon	Nos.	15		7	90 cm Octagon	Nos.	15
	8	Hazard plate 300X900 mm	Sqm	252.45		8	Hazard plate 300X900 mm	Sqm	252.45
	9	800 x 600 mm Size	Nos.	20		9	800 x 600 mm Size	Nos.	20
	10	60 Cm circular	Nos.	20		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		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		12	Over Head Sign Truss	MT	5.5
	13	Boundary Stone (taken 10% of Qty)	Nos.	9		13	Road side Boundary Stone (taken 10% of Qty)	Nos.	As per the IRC SP: 73:2015
	14	5th Km Stone -New	Nos.	2		14	5th Km Stone -New	Nos.	As per the IRC SP: 73:2015
	15	Ordinary Km Stone	Nos.	15		15	Ordinary Km Stone	Nos.	As per the IRC SP: 73:2015
	16	Hectometer Stone	Nos.	68		16	Hectometer Stone	Nos.	As per the IRC SP: 73:2015
	17	Delineator	Nos.	80		17	Delineator	Nos.	80
	18	Bollards	Nos.	80		18	Bollards	Nos.	80
	19	RCC Guard Post	Nos.	80		19	RCC Guard Post	Nos.	80
	20	Enamel Paint	Sqm	40		20	Enamel Paint	Sqm	40

New clause may be added after Para 14 of Annexure-I of Schedule B

15.0 Slope Protection Measures

15.1.1 Breast Wall and Retaining Wall

Following measures shall be adopted:

Slope protection along hill slope side shall be with breast walls with PCC minimum M15 grade concrete. However, at the zones prone to sliding breast walls will be of sausage type (by stone-mesh gabions). Retaining wall has been considered at valley sides. The height of breast walls is varying from 1.5 m to 3m as per site requirement and to be finalized by consultation with Authority Engineers. The breast wall of height 3m has been considered if the height of hill cut is more than 9m and in this circumstances 3m berm with catch water drain is required to be provided. The maximum cut slope at hill side is 55° (0.7H to 1V).

	15.1.1.2 Embankment less than 3m in height shall be turfed as per MoRTH Specifications. 15.1.1.3 Vetiver Plantation, Hydro Seeding and Hydro Mulching etc or similar works is 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.	
--	--	--


 Y.C Srivastava
 GM(T)