

37.2008

Memo No.7130 / Contracts-1 / 2008 / Dated 5 .06.2008

Sub: Highways - Rates of Road furnitures for the
year 2008-2009 - Approved - Communicated -
Regarding.

The Board of Engineers during the 104th meeting held on
27.05.2008 have discussed the rates for road furnitures for the year
2008-09 and accorded approval for the following road furnitures at the
rates noted against each.

Sl.No.	Item of work	Approved Rates (Rs.)
i.	Providing and fixing of retro reflectorised cautionary mandatory and informatory sign as per IRC 67 -20Q1 made of High intensity grade sheeting vide clause 801.3 fixed over Aluminum sheeting 1.5 mm. thick supported on a mild steel angle iron post 75 mm. x 75 mm. x 6mm. firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45x45x60 Cm. 60 Cm. below G.L. etc. complete (as per MORT & H specification No.801)	
	a) 90 Cm equilateral triangle	2900 / Each
	b) 60 Cm. equilateral triangle	1974 / Each
	c) 60 Cm. Circular	2577 / Each
	d) 80x60 Cm. rectangular	3513 / Each
	e) 60x45 Cm. rectangular	2515 / Each
	f) 60x60 Cm. Square	2943 / Each
	g) 90 Cm. High Octogonal	4425 / Each

92/0

11/2

Sl.No.	Item of work	Approved Rates (Rs.)
4.	<p>a) Providing and erecting direction and place identification retro reflectorised sign as per IRC: 67 - 2001 made of High Intensity Grade sheeting vide Clause 801.3 fixed over Aluminium sheeting, 2.0 mm thick with area not exceeding 0.9 Sqm. supported on a mild steel angle iron post 75mm x 75mm x 6mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45x45x60 cm, 60 cm below ground level, etc. complete. (as per MORT & H specification No.801) (for area Less than 0.9 Sqm.)</p> <p>b) Providing and erecting direction and place identification retro reflectorised sign as per IRC:67-2001 made of High Intensity Grade vide Clause 801.3 fixed over Aluminium sheeting, 2.0 mm thick with area exceeding 0.9 Sqm. supported on a mild steel angle iron post 75mm x 75mm x 6 mm 2 Nos. firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 x 45 x 60 cm, 60 cm below ground level, etc. complete (as per MORT & H specification No.801) (for area More than 0.9 Sqm.)</p>	<p>6097 /Sqm</p> <p>6356 /Sqm</p>
5.	<p>Supplying and installation of Delineators (Roadway indicators, hazard markers, object markers), 80-100 cm above ground level, painted Black and White in 15 Cm. wide strips, fitted with 80x100 mm. rectangular or 75mm dia circular reflectorised panels at the top, buried or pressed in to the ground and conforming to IRC79 :79 etc. complete. (as per MORT & H specification No.805)</p>	<p>1804 / Each</p>

delineator



HIGHWAYS DEPARTMENT

From

Thiru.G.R.Rajendran.B.E,
Joint Director (H) (Admin),
& Secretary to,
Board of Engineers,
Chennai - 600 005.

To

The Chief Engineer(H),
Construction and Maintenance
& Member
Board of Engineers.

Letter No. 4848 / BOE / 138/ 2011-1, Dated 06.01.2012.

Sir,

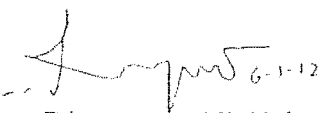
SUB: Board of Engineers - 138th Meeting held on
05.01.2012 - Minutes communicated.

REF: Secretary BoE, Letter No. 4848 / BOE / 138/
2011-1, Dated 28.12.2011.

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I am enclosing herewith the Minutes of the 138th Meeting of the
Board of Engineers held on 05.01.2012 in the Chamber of the Director
General, Highways, Chepauk, Chennai-5 for favour.of kind information.

Encl.: Minutes - 1 no.


For Joint Director (H) (Admin),
& Secretary to,
The Board of Engineers,
Chennai-600005.

Annexure II

138th Meeting of the BOARD OF ENGINEERS held on
05.01.2012


ROAD SIGNS - RATE FOR THE YEAR 2011-12

Sl No	Item	Unit	Rate (in Rs)
1	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface		
	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes.	Sqm	814.00
2	Road Markers/Road Stud with Lense Reflector		
	Providing and fixing reflective road studs of 'category B' Raised pavement markers made out of poly carbonate/ABS moulded body and reflective panels(bi-convex reflectors) with micro prismatic lens capable of providing total internal reflection of the light entering the lens face with retro-reflectance and chromaticity values conforming to ASTM D4280. The reflective raised pavement markers shall also conform to the MORTH circular No RW / NH. 33023/10/ 97-DO.III dt 11.06.97 and the length, height and width of the body shall not be less than 100 mm, 15 mm and 90 mm and base of marker shall be flat within 1.3 mm. The marker shall support a load of 13635 Kg tested in accordance with ASTM D4280. Lenses shall be moulded of Polycarbonate or methyl methacrylate conforming to ASTM D788. The area of each retro- reflectory surface shall not be less than 13.0 sq.cm. The slope or retro - reflectory surface shall be 35 + 5 degree to base. Each reflector shall have a CIL not less than values specified in table 2 of said MoRT&H circular and two cylindrical Polymer Shanks of not less than 20 mm diameter and not less than 30 mm length shall be provided for better anchorage.	each	341.00
3	Retro-Reflectorised Traffic Signs: (Cautionary, Mandatory and Informatory Signs)		
	Providing and Fixing of Retro Reflectorised Cautionary, mandatory and Informatory signs (with or without definition board) made out of High Intensity Prismatic Grade Sheetting		

Sl No	Item	Unit	Rate (in Rs)
	confirming to IRC 67- 2010 and ASTM D 4956-09, Type IV Specification and fixed over 1.5 mm thick Aluminium sheet fixed on back supporting frame of 25mm X 25mm X 3mm Mild steel angle and supported on a mild steel angle iron post 75 mm X 75 mm X 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm X 45 cm X 60 cm , 60 cm below Ground Level etc Complete including 7 year warranty for the Retro Reflective Sheeting as per clause 6.9 of IRC 67: 2010 Specification (as per MoRT&H Spec. No.801)		
(A)	Retro-Reflectorised Traffic Signs (with out definition board)		
	90 cm equilateral triangle	each	3528.00 ✓
	60 cm equilateral triangle	each	2254.00 ✓
	60 cm circular	each	3135.00 ✓
	80 cm x 60 cm rectangular	each	4337.00 ✓
	50 cm x 45 cm rectangular	each	2987.00 ✓
	60 cm x 60 cm square	each	3566.00 ✓
	90 cm high octagon	each	5585.00 ✓
(B)	Retro-Reflectorised Traffic Signs (with definition board),		
	90 cm equilateral triangle	each	4742.00
	60 cm equilateral triangle	each	3474.00
	60 cm circular	each	4340.00
	80 cm x 60 cm rectangular	each	5549.00
	60 cm x 45 cm rectangular	each	4190.00
	60 cm x 60 cm square	each	4772.00
	90 cm high octagon	each	6787.00
4	Direction and Place Identification Signs		
	Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67-2010 made of high intensity grade sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick fixed on back supporting frame and supported on a mild steel single angle iron post 75 x 75 x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 x 45 x 60 cm, 60 cm below ground level as per approved drawing		
(1)	Signboard made of Retro Reflective Type IV Sheeting, ASTM D 4956 Specification.		
	a) upto 0.90 sqm	sqm	7755.00

Sl No	Item	Unit	Rate (In Rs)
	b) more than 0.90 sqm	sqm	8015.00
(2)	Signboard made of Retro Reflective Type XI Sheeting, ASTM D 4956 Specification. (To be used ONLY in Black spot, Chevron marking, junction notification and accident prone zone)		
	a) upto 0.90 sqm	sqm	9594.00
	b) more than 0.90 sqm	sqm	9857.00
5	Metal crash barrier		
	Providing and erecting Single sided Double Guard System comprising of 3mm thick wall "W" beams, posts and spacer channels shall be made by cold roll forming using HR conform to IS 5986 Fe 410/360. And dip galvanized having Zinc mass of 550 gms /Sqm minimum 95mm above road/ ground level, fixed on ISMC series channel vertical post 150X75X5 mm spaced 2M centre to centre, 312mm X 83mm flange width X 3mm thick, 4318 mm long Post directly embedded in the concrete (M20) pit size 350X350X 800mm for a length of 750 mm below ground. All fixing bolts and nuts hot dip galvanized conforming to IS: 1367 clause 4.60 all completed as per Technical Specifications and as directed by the Engineer-in-charge.	Rm	4860.00

Sd/ Chairman
& Members
Board of Engineers


For Secretary
Board of Engineers