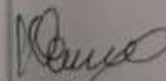
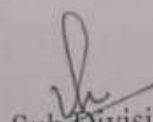


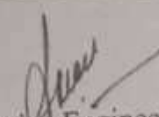
ESTIMATE

Work: - Providing and fixing Road Safety Appurtenances work on road under Bridge Division Bhopal.

S. No.	Particulars	Qty.	Unit
	Road Markers/Road Stud with Lense Reflector Providing and fixing single mound twin shanked molded Road Markers/Road Stud made of poly carbonate or ABS body and shall support a load of 13635 Kg tested in accordance to ASTM D 4280 and complying to specifications of Section-5 of IRC:35-2015 and clause 804.2.2 of MORT&H and Section-5 of IRC:35-2015. Here reflecting panels shall consist of number of lenses containing single or dual prismatic cubes capable of providing total internal reflection of the light entering the lens face. The slope or retro-reflecting surface should be 35 ± 5 degree to base. The reflective marker shall be fixed to the road surface using the epoxy/ adhesives and the procedure recommended by the manufacturer. No nails shall be used to affix the markers so Cubes capable of that they do not pose safety hazard on the road.. The contractor shall submit a two year replacement warranty. for satisfactory field performance including stipulated retro-reflectance of the reflecting panel. Providing and Fixing of Median Marker that are made of tough, high impact resistant, injection-molded, thermoplastic body with anisocoeles trapezoidal structure of length, width and height not less than 15cm, 10cm and 10cm respectively and thickness not less than 1.8mm, the body structure shall be rounded at its acute angle, all the corners and edges. The plastic used for molding the Median Markers shall have a minimum Notched Izod Impact strength value of 600J/m at room temperature, when tested in accordance with ASTM D256 and shall retain at least 70% of this value when subjected to accelerated weathering for 1000hrs as per ASTM G155 or UL746C. The logo of the manufacturer shall be embossed on either side of the body in the injection molding process. The Median Marker shall have rectangular-shaped, fluorescent yellow color retro-reflective sheeting of size not less than 8.5cm*8.5cm and with fully reflective micro prismatic cube corners as its retro-reflective elements as per IRC 67 2022 and ASTM D4956 type XI specifications reflectivity values. The retro-reflective sheeting shall be on one or both sides of the Median Marker and shall be edge protected with no exposed edges which will prevent edge lifting, vandalism, sheeting damage, etc. The Median Marker shall be fixed by a combination of epoxy adhesive and grouting. (Make- 3M / AVERY DENNISON / ORAFOL. Providing and fixing of Rumble Strip made up of TPU polyurethane (PU) Material size 500L x 100W x 15H mm and fixing of Rumble Strip in Bituminous grout/ Epoxy and Screwing the same with M.S Screw 15 x 100 mm etc. i/c removing asphalt at the site, Material, labour for fixing grouting and for controlling traffic during fixing etc. complete. Add: 9 % CGST Add: 9 % SGST	1500 Nos.	Each
		75 Nos.	Each
		915 Nos.	Rmt.


Sub Engineer


Sub-Divisional Officer
PWD Bridge sub Div
Bhopal.


Executive Engineer
Bridge Div
Bhopal.