

# Maharashtra Metro Rail Corporation Limited

(Nagpur Metro Rail Project)

**Name of Work:** Improvement of Traffic Congestion at Futala Lake Road & Construction of Concrete Road with Viewing Galley in Nagpur.

**Tender No.** N1MISC-CRF-01-R1/2019, dt.10.01.2019, **Portal No.169**

**Corrigendum-III**

23/01/2019

## ADDENDUM

Sr. No.	Tender Section	Page no./Clause No.	As per Bid Condition	Maha-Metro clarification
1	Schedule B	Item 62	Stone statues of life size	For sand stone specification refer Annexure I is attached herewith. For life size statues images, refer Annexure II is attached herewith.



*[Signature]*  
General Manager(Procurement)  
Maha-Metro, Nagpur

## ANNEXURE I

### SPECIFICATIONS OF THE SANDSTONE

Sandstone shall have following properties for making statues or artifacts.

1. COMPREHENSIVE STRENGTH AS PER IS: 9143
2. OBLIQUE SHEAR TEST AS PER APPLIED METHOD
3. SPLIT TENSILE STRENGTH AS PER IS: 10082
4. CHARACTERISTIC OF NATURAL BUILDING STONE SPECIFICATIONS SHALL BE AS PER IS: 1123-1975

TYPE	SR. NO.	REQUIRED QUALITY	STANDARDS REQUIRED	
			MINIMUM	MAXIMUM
A		<b>COMPREHENSIVE STRENGTH</b>		
	1	DRY DENSITY GM/ C.C.	2.2	2.6
	2	WET DENSITY GM/C.C.	2	2.4
	3	WATER ABSORPTION %	3	3.94
	4	SPECIFIC GRAVITY	1.85	2.7
	5	PORASITY %	2	2.6
	6	COMPREHENSIVE STRENGTH KG/CM <sup>2</sup>	200	1700
B		<b>OBLIQUE SHEAR TEST (SHEAR ANGLE 30 TO 50 DEGREE)</b>		
	1	NORMAL STRESS KG/ SQ.CM	200	450
		SHEAR STRESS KG/ SQ.CM	220	250
C	1	<b>ULTIMATE TENSILE STRENGTH N/MM<sup>2</sup></b>	4.5	6

NOTE: IS : 916 - 1979 6.2 The report of test shall include the following information: a) Number of specimens tested; b) Lithological description of rock; d) Orientation of loading axis with respect to anisotropy, for example, bedding planes, etc; e) Source of sample, location, depth and orientation, and date of sampling; f) Storage history g) Date of testing and type of machine used; h) Specimen diameter and height; j) Moisture content and room temperature; k) Duration of the test and stress rate; m) Other physical properties, permeability and porosity, such as specific gravity, absorption, citing their method of determination if available; n) Any other observation. All the mentioned facts shall be made in the report.



Life size Statues Images for Futala



Boy seating on platform 1 m above platform .(Figure 1)





Girl reading book seating on book pedestal (Figure 2)



Girl seating on grass (Figure 3)





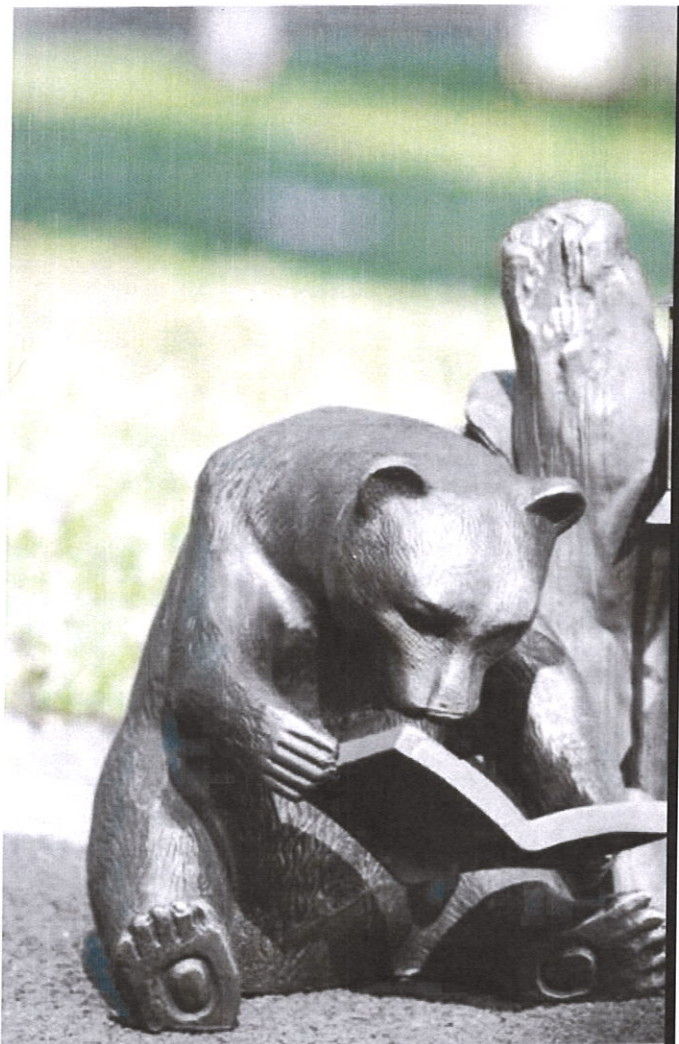
Girl standing on pedestal 1.1m without pedestal (Figure 4)



Hand with small boy 0.91m height (Figure 5)







Panda reading book (Figure 6)



set of 3 Mouse height 0.91m (Figure 7)



Rabbit 1.0m (Figure 8)





set of four rabbit without boy (Figure 9)





standing girl without basket fixed above pedestal 1.1m (Figure 10)