## GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

			ERRESOURCESI			
<u>Test R</u>	eport No.: WRD/Q.C./F.6	-4/Aggr-T- 9889, 9890 /Lab/	187 /2021-22 Da	ted: 18/10/2021. Laboratory: Bicholim		
Sand –T: 5182. Cement-1281 Sub Div: V (QC)/WRD/Bicholim Goa.						
Sub:- Improvement to connecting road to CADA building at T.I.P. Complex, Karaswada, Bardez-Goa. <u>Ref to requisition No</u> :-SDIII/WDVIII/WRD/WF.76/2021-22/175 Dated: 05/10/2021.						
		6993,7006,6994/SS <u>Lab. Sa</u>	<u>mple No</u> .: 2253 To 22	256 <u><b>Tested by</b></u> : Mrs. Shirodkar.JE.		
12.5mm	size aggrt., Cement					
R E P O RT 01 OF 01						
Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks	
1.	<b><u>20 mm Size Aggregate</u></b> : Particle size distribution: It is single sized aggregate of 20 mm nominal size. (Qty. rep. $m^3$ )					
2.	<u><b>12.5 mm Size Aggregate</b></u> : Particle size distribution: It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. $m^3$ )					
	<u>REMARK</u> : After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of <u>1:1</u> by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	Sand:	i) Silt & Clay by S.A. meth	od :- 5.40%			
	(L.S.No.2255)	ii) Silt by sedimentation	:- 5.26%			
		iii) Fineness Modulus	: - 2.68			
		iv) Grading Zone	:- II			
	To be used for <b>REMARK: The observed results are within the permissible limits of the coarse sand.</b>					
4.	Cement:			: 1.26 % (It should not be more	re than 10%)	
	Ultratech Cement, bearin	ng IS:269 ii) Con	sistency of cement	: 32.00% (It should be in the neighborhood	l of 35%)	
	Ordinary Portland cement, iii) Initi		ial Setting Time : 190 minutes (It should not be less than 30 minutes)			
	Manuf. date: W – 38, M	- 09, Year' <u>2021</u> iv) Fina	0	: 330 minutes (It should not be more than		
	CM/L = <u>7171769</u>		-			
	Qty. rep. –.					
To be used for -1:2:4 mix concrete. <b>REMARK: The observed results are within the permissible limit for Ordinary Portland cement.</b>						

Copy to: 1. The Assistant Engineer, SDIII, WDVIII, WRD, Karaswada-Bardez – Goa.

2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.

3. Copy Submitted to The Executive Engineer, W.D. VIII, WRD, Karaswada-Bardez - Goa

4. Q.C. Lab file 5. Bill File.

**Assistant Engineer**