

**GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT**

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9641, 9642 /Lab/ 115 /2020-21

Dated: 06 / 10 / 2020.

Laboratory: Bicholim

Sand –T: 5033 Cement: 1176.

Sub Div: V (QC)/WRD/Bicholim Goa.

Sub Improvement to existing Ganapati Visarjan area in sy.No. 20 in ward No. III, including improvement to existing nallah bank in Sy No. 99 in ward No. II in Village Uccassaim in Aldona Constituency.

Ref to requisition No: SDII/WDI/WRD/F. 24/2020-21/243 Dated: 28/09/2020.

Qty. Received: 1 bags each **Date of Receipt:** 05/10/2020 **Tested on:** 05 & 06/10/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand ,20mm, **O.S. No.** 4129,4130,4134 & 4133/SS **Lab. Sample No.:** 9411 To 9414 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.
12.5mm size aggrt, cement.

R E P O R T 01 OF 01

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
1.	<u>20 mm Size Aggregate:</u>	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – --- m ³)	
2.	<u>12.5 mm Size Aggregate:</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>1:2</u> by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	<u>Sand:</u>	i) Silt & Clay by S.A. method : - 4.60%			
	(L.S.No.9413)	ii) Silt by sedimentation : - 4.16%			
		iii) Fineness Modulus : - 2.55			
		iv) Grading Zone : - II			
<u>REMARK:</u> The observed results are within the permissible limits of the coarse sand.					
4.	<u>Cement:</u>	i) Fineness of Cement : 1.09 % ----- (It should not be more than 10%)			
	Dalmia cement, bearing IS:	ii) Consistency of cement : 30.50% (It should be in the neighborhood of 35%)			
	Ordinary Portland cement,	iii) Initial Setting Time : 145 minutes ---- (It should not be less than 30 minutes)			
	Manuf. date: Week <u>32</u> , Month <u>08</u> , Year' <u>2020</u> .	iv) Final Setting Time : 280 minutes -- (It should not be more than 600 minutes)			
	CM/L = -----				
	Qty. rep. – -----.				
	To be used for – -----.				
<u>REMARK:</u> The observed results are within the permissible limit for Ordinary Portland cement.					

Copy to: 1. The Assistant Engineer, SDII, WDI,WRD, Mapusa, 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. I, WRD, Porvorim – Goa.

4. Q.C. Lab file

5. Bill File.

Junior Engineer

Assistant Engineer