

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

**Test Report No.:** WRD/Q.C./F.6-4/ Aggr -T- 9713, 9714 /Lab/ **183/ 2020-21**

**Dated:** 04/ 01 / 2021.

**Laboratory:** Bicholim

**Sand –T: 5077, 5078, Cement: 1209.**

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

**Sub:** Extension of canal of Gate No.1 of Mayem Tank in survey No. 213/7 of Smt. Maya Ranju Samant, Deus – Bhatwadi, Mayem Bicholim Goa.

**Ref to requisition No:** SDI/WDVI/WRD/F.W. 398/2020-21/155 Dated: 23/12/2020.

**Qty. Received:** 1 bags of **Date of Receipt:** 24/12/2020 **Tested on:** 28,29,30 & 31/12/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

**Sample:** Sand ,20mm, **O.S. No.** 4507,4508,4416,4425 & 4417 /SS **Lab. Sample No.:** 9815 To 9819 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.  
12.5mm size aggrt, & 1 bags cement.

**R E P O R T 01 OF 01**

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
1.	<b>20 mm Size Aggregate:</b>	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – --- m <sup>3</sup> )	
2.	<b>12.5 mm Size Aggregate:</b>	Particle size distribution:	It is not single sized aggregate of 12.5 mm nominal size.	(Qty. rep. – --- m <sup>3</sup> )	
<b>REMARK:</b> After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of <b>1:2</b> by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	<b>Course Sand:</b> (L.S.No.9817)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.20% : - 5.81% : - 2.44 : - II	4. <b>Fine Sand:</b> (L.S.No.9818)	i) Silt & Clay by S.A. method : - 4.80% ii) Silt by sedimentation : - 4.16% iii) Fineness Modulus : - 2.05 iv) Grading Zone : - IV
5.	<b>Cement:</b> J K cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week <u>47</u> , Month <u>11</u> , Year' <u>2020</u> . CM/L = <u>0003401033</u> Qty. rep. – _____.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.21 % : 31.00% : 165 minutes : 305 minutes	----- (It should not be more than 10%) (It should be in the neighborhood of 35%) ---- (It should not be less than 30 minutes) -- (It should not be more than 600 minutes)	
To be used for – ----- <b>REMARK: The observed results are within the permissible limit for Ordinary Portland cement.</b>					

Copy to: 1. The Assistant Engineer, SDI, WDVI,WRD, Bicholim – Goa.

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

3. Copy Submitted to The Executive Engineer, W.D. VI, WRD, Bicholim – Goa.

4. Q.C. Lab file

5. Bill File.

**Junior Engineer**

**Assistant Engineer**