

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

**Test Report No.:** WRD/Q.C./F.6-4/Aggr-T- 9406, 9407 /Lab/ 264 /2019-20

**Dated:** 01/ 08/2019.

**Laboratory:** Bicholim

**Sand –T: 4897 , Cement: 1094.**

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

**Sub:** Construction of Nallah from Mr. Otolin house to Appaya Naik house and others in Ward No. 4 at Bounta waddo, V.P. Assagao in Siolim Constituency.

**Ref to requisition No:** SDI/WDI/WRD/F. 57/2019-20/91 Dated: 10/06/2019.

**Qty. Received:** 1 bags each **Date of Receipt:** 30/07/2019 **Tested on:** 30 & 31/07/2019 **Ref to Specification:** CPWD 2002, Vol. I&IS:4031-4-1988

**Sample:** Sand, 20mm, **O.S. No.** 2666, 2667, 2669 & 2668/SS **Lab. Sample No.:** 6711 To 6714 **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.	<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>Sand:</b> (L.S.No.6713)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 3.20% : - 4.08% : - 2.08 : - III		
<b>REMARK:</b> The observed results are within the permissible limits of the coarse sand.					
4.	<b>Cement:</b> J.K cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week 28, Month 07, Year 2019. CM/L =0003401033 Qty. rep. – To be used for – NOT SPECIFIED.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 0.98% : 32.00% : 195minutes : 325 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)	
<b>REMARK:</b> The observed results are within the permissible limit for Ordinary Portland cement.					

Copy to: 1. The Assistant Engineer, SDI, WDI, WRD, Porvorim – 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**