

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

**Test Report No.:** WRD/Q.C./F.6-4/ Aggr -T- 9645, 9646 /Lab/ 117 /2020-21  
**Sand –T: 5035 Cement: 1177.**

**Dated:** 08 / 10 / 2020.

**Laboratory:** Bicholim

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

**Sub** Improvement to nallah from Crystal Rockshop up to the beach at murrod waddo Candolim in Calangute Constituency.

**Ref to requisition No:** SDII/WDI/WRD/F. 24/2020-21/247 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.** 4135,4136,4139 & 4137/SS **Lab. Sample No.:** 9404 To 9407 **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: After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of 1:2 by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.</b>					
3.	<b>Sand:</b> (L.S.No.9406)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.40% : - 5.55% : - 2.27 : - III		
<b>REMARK: The observed results are within the permissible limits of the coarse sand.</b>					
4.	<b>Cement:</b> J.K.cement, bearing IS: Ordinary Portland cement, Manuf. date: Week 39, Month 09, Year'2020. CM/L = 0003401033 Qty. rep. – _____. To be used for – _____.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.33 % : 31.00% : 175 minutes : 290 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: The observed results are within the permissible limit for Ordinary Portland cement.</b>					

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**