

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

**Test Report No.:** WRD/Q.C./F.6-4/ Aggr -T- 9554, 9555 /Lab/ 432/2019-20

**Dated:** 12 / 02/ 2020.

**Laboratory:** Bicholim

**Sand –T: 4983, Cement: 1141.**

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

**Sub:** Improvement to nallahs in fields from Ashok Satardekar house up to Sy. No. 69 in ward No. IV and Gurudas Mandrekar house up to Main nallah at Carrem in Village Panchayat Socorro in Porvorim Constituency.

**Ref to requisition No:** SDII/WDI/WRD/F. 24/2019-20/567 Dated: 24/01/2020.

**Qty. Received:** 1 bags each **Date of Receipt:** 05/02/2020 **Tested on:** 07 & 08/02/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

**Sample:** Sand ,20mm, **O.S. No.** 3192,3193,3204 & 3188 /SS **Lab. Sample No.:** 7886 To 7889 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.  
12.5mm size aggrt, cement.

**R E P O R T 01 O F 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.7888)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 3.80% : - 4.65% : - 2.45 : - II		
<b>REMARK:</b> The observed results are within the permissible limits of the coarse sand.					
4.	<b>Cement:</b> Jyoti cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week <u>04</u> , Month <u>01</u> , Year' <u>2020</u> . CM/L = 6894808 Qty. rep. – _____.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 0.98 % : 31.50% : 135 minutes : 260 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 – NOT SPECIFIED.	<b>REMARK:</b> The observed results are within the permissible limit for Ordinary Portland cement.		

Copy to: 1. The Assistant Engineer, SDII, WDI,WRD, Mapusa – 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**