

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

**Test Report No.:** WRD/Q.C./F.6-4/Aggr-T-147,148/Lab/47/2022-23    **Dated:-** 25 / 04 /2022.

**Laboratory:** Bicholim - Goa

**Sand –T:5281. Cement-T:1362.**

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

**Sub:-** Improvement to Nallah from Narayan Gaonkar house to Amar Narvekar house at Bandrwaddo in ward No. 3, V.P. Anjuna Caisua in Siolim Constituency.

**Ref to requisition No.:-** WRD/M.I/WDI/SDI/F.57/22-23/09    **Dated :-** 08/04/2022

**Qty. Received:** 1 bags each    **Date of Receipt:** 19/04/2022    **Tested on:** 20,21 & 22/04/2022    **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

**Sample:**Sand,20mm, **O.S. N.:-** 8284,8285,8297 & 8259/SS    **Lab. Sample No.:** 3961 to 3964    **Tested by:** Mrs. S.B. Naik Shirodkar.J.E.

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: After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of 1:1 by weight; it is satisfying therequired criteria for graded aggregate of 20 mm nominal size.</b>					
3.	<b>Coarse Sand:</b> (L.S.No.3963)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.80% : - 5.120% : - 2.40% : - II		
To be used for----. <b>REMARK: The observed results are within the permissible limits of the coarse sand.</b>					
4.	<b>Cement:</b> J.K.Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W-14, M-04, Year-2022 CML =0003401033 Qty. rep. –.		i) Fineness of Cement : 1.12% ii) Consistency of cement : 30.00% iii) Initial Setting Time : 150 minutes iv) Final Setting Time : 310 minutes	: 1.12% ----- (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, 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**