

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

**Test Report No.:** WRD/Q.C./F.6-4/Aggr-T- 9917, 9918/Lab/ 214 /2021-22   **Dated:** 26/11/2021.   **Laboratory:** Bicholim  
**Sand –T:** 5200. Cement-1296   **Sub Div:** V (QC)/WRD/Bicholim Goa.

**Sub:-Construction of Canteen Block at Tillari Irrigation Project Complex at Karaswada Bardez Goa.**

**Ref to requisition No.:-**SDIII/WDVIII/WRD /WF.29/2021-22/212   **Dated:** 11/11/2021.

**Qty. Received:** 1 bags each   **Date of Receipt:** 19/11/2021   **Tested on:** 22 & 23/11/2021   **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

**Sample:**Sand,20mm, **O.S. N.:-**7104,7105,7109 & 7102 /SS   **Lab. Sample No.:** 2380 To 2383   **Tested by:** Mrs. 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>20.00 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 the required criteria for graded aggregate of 20 mm nominal size.</b>					
3.	<b>Coarse Sand:</b> (L.S.No.2382)		i) Silt & Clay by S.A. method : - 5.60% ii) Silt by sedimentation : - 5.55% iii) Fineness Modulus : - 2.46 iv) Grading Zone : - II		
	To be used for-----.	<b>REMARK: The observed results are within the permissible limits of the coarse sand.</b>			
4.	<b>Cement:</b> Jyoti 43 grade Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W- M- 10, Year'2021 CM/L = - 6894808 Qty. rep. –.		i) Fineness of Cement : 1.07% ii) Consistency of cement : 32.00% iii) Initial Setting Time : 170 minutes iv) Final Setting Time : 315 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 PCC 1:2:4 & RCC 1:1:5:3 –.	<b>REMARK: The observed results are within the permissible limit for Ordinary Portland cement.</b>			

- Copy to: 1. The Assistant Engineer, SDIII, WDVIII,WRD,Karaswada-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. VIII, WRD,Karaswada-Bardez – Goa  
 4. Q.C. Lab file   5. Bill File.

**Junior Engineer**

**Assistant Engineer**