

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

**Test Report No.:** WRD/Q.C./F.6-4/Aggr-T- 9941, 9942 /Lab/ 242 /2021-22   **Dated:** 03 / 01 /2022.

**Sand –T:** 5217, 5218   **Cement-1308**

**Laboratory:** Bicholim

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

**Sub:-Construction of Road Bridge at Ch. 14.70 kms of RBMC of AIP at Parye Sattari – Goa.**

**Ref to requisition No.:**-F.174/WRD/WDV/SDII/AIP/283/2021-22   **Dated:** 14/12/2021.

**Qty. Received:** 1 bags each   **Date of Receipt:** 16/12/2021   **Tested on:** 18, 20, 21, 22 & 23/12/2021   **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

**Sample:**Sand,20mm, **O.S. N.:**-7202,7203,7211,7214, &7204 /SS   **Lab. Sample No.:** 2487 to 2491   **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.2489)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.40% : - 5.55% : - 2.12 : - III	4. <b>Fine Sand:</b> (L.S.No.2490)	i) Silt & Clay by S.A. method : - 6.00% ii) Silt by sedimentation : - 6.82% iii) Fineness Modulus : - 1.87 iv) Grading Zone : - IV
5.	To be used for----. <b>Cement:</b> JK.Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W- 48 M- 11, Year-2021 CM/L = 0003401033 Qty. rep. –.	<b>REMARK: The observed results are within the permissible limits of the coarse and fine sand.</b> i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.28% : 32.00% : 160 minutes : 280 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 <b>REMARK: The observed results are within the permissible limit for Ordinary Portland cement.</b>

Copy to: 1. The Assistant Engineer, SDII, WDV WRD, Karapur tisk -Sankhali – Goa.

2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.

3. Copy Submitted to The Executive Engineer, W.D. V WRD, Karapur Tisk-Sankhali – Goa

4. Q.C. Lab file   5. Bill File.

**Junior Engineer**

**Assistant Engineer**