

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

**Test Report No.:** WRD/Q.C./F.6-4/Aggr-T- 133,134/Lab/29/2022-23 **Dated:-** 12 / 04 /2022.

**Laboratory:** Bicholim - Goa

**Sand –T:-5272. Cement-T:- 1355.**

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

**Sub:-** “Construction of Tail Minor Dos, WCs and FC’s of B4 distributory and DWC 19L off-taking at Ch:18.005 km of RBMC of TIP at Nagzar village of Pernem Taluka.

**Ref to requisition No.:-** WRD/SD-IV/WD-VII/F-10/2022-23/01 **Dated :-** 01/04/2022

**Qty. Received:** 1 bags each **Date of Receipt:-** 05/04/2022 **Tested on:-**06,08 & 12/04/2022 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

**Sample:**Sand,20mm, **O.S. No.:-** 8086,8087,8068 & 8137/SS **Lab. Sample No.:** 3748 to 3751 **Tested by:-** Mrs. S. B. Naik Shirodkar J.E.

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	Remark
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.3750)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.20% : - 5.55% : - 2.50% : - II		<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- 12, M- 03, Year-2022 CM/L = 0003401033 Qty. rep. – ____--.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.14% : 32.00% : 160 minutes : 320 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>
		To be used for –			

Copy to: 1. The Assistant Engineer, SDIV,WDVII,WRD, Dhargal, Pednem– Goa.

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

3. Copy Submitted to The Executive Engineer, WDVII, WRD, Dhargal, Pednem – Goa

4. Q.C. Lab file 5. Bill

**Junior Engineer**

**Assistant Engineer**