

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

**Test Report No.:** WRD/Q.C./F.6-4/Aggr-T- 317,318/Lab/52/2023-24 **Dated:-10/05/2023.**

**Laboratory:** Bicholim-Goa

**Sand –T:- 5387. Cement-T:- 1444.**

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

**Sub:-** Construction of Open Type Bandhara to the nalla at Chimulwada Mayem in Bicholim Taluka.

**Ref to requisition No:-** F.211/WRD/WDVI/SDI/46/2022-23 **Dated :-** 02/05/2023

**Qty. Received:** 1 bags each **Date of Receipt:-** 03/05/2023 **Tested on:-** 05,06,08 & 09/05/2023. **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

**Sample:** Sand, 20mm, **O.S. NO:-** 792,793,802,788/SS. **Lab. Sample No :-** 7029 to 7032 **Tested by:-** Mrs. S. B. Naik Shirodkar J.E.

12.5mm size Aggr, and 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.7031)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	:- 13.80% :- 13.04% :- 2.72% :- II		
<b>REMARK: The observed results are within the permissible limits of the Coarse sand.</b>					
4.	<b>Cement:</b> JK Super OPC 43 Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W-Invisible,M-03,Y-2023 CM/L = 0003401033 Qty. rep. –.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	:- 1.24% :- 31.50% :- 145 minutes :- 255 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, SDI, WDVI, WRD, Bicholim– Goa.

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

3. Copy Submitted to The Executive Engineer, WDVI, WRD, Bicholim– Goa.

4. Q.C. Lab file 5. Bill File.

**Junior Engineer**

**Assistant Engineer**