

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

**Test Report No.:** WRD/Q.C./F.6-4/Aggr-T- 331,332/Lab/79/2023-24      **Dated:-**27/05/2023.

**Laboratory:** Bicholim-Goa

**Sand –T:- 5395. Cement-T:- 1451.**

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

**Sub:-** Improvement to nallah including existing nallah crossing near Lucy D'souza house in ward no.9, Khoriwada in V.P. Assonora in Thivim Constituency.

**Ref to requisition No:-** SDII/WDI/WRD/F.24/2022-23/87      **Dated :-** 23/05/2023

**Qty. Received:** 1 bags each      **Date of Receipt:-** 24/05/2023      **Tested on:-** 25 & 26/05/2023.      **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

**Sample:** Sand, 20mm,      **O.S. NO:-** 1319,1320,1326,1321/RK      **Lab. Sample No :-** 7199 to 7202      **Tested by:-** Mrs. R.R. Kadam A.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:</b> After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of <b>1:1</b> by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	<b>Coarse Sand:</b> (L.S.No.7201)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	:- 4.60% :- 5.10% :- 2.56% :- III		
<b>REMARK:</b> The observed results are within the permissible limits of the Coarse sand.					
4.	<b>Cement:</b> Jyoti OPC Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W-Invisible,M-04,Y-2023 CM/L = 6894808 Qty. rep. –.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	:- 1.18% :- 30.00% :- 140 minutes :- 270 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:</b> The observed results are within the permissible limit for Ordinary Portland cement.					

Copy to:1. The Assistant Engineer, SDII, WDI, WRD, Mapusa Bardez– Goa.

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

3. Copy Submitted to The Executive Engineer, WDI, WRD, Porvorim– Goa.

4. Q.C. Lab file      5. Bill File.

**Assistant Engineer**