## GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

## Test Report No.: WRD/Q.C. / F.6-4 /Aggr-T- 211,212/Lab/204/2022-23 Dated: 12/12/2022 Laboratory: Bicholim-Goa

Sand –T: 5319, Cement-T: 1389

Sub Div: V (QC)/W.D.VIII/Bicholim Goa.

Sub:Construction of Protection wall on Valvanti River in property bearing Sy. No.75/1 at Tulshimal, Poriem in Sattari Taluka.Ref to requisition No:-F.50/SDIV/WDVI/WRD/2022-23/119Dated: 08/11/2022.Oty. Received:1 bags eachDate of Receipt:02/12/2022Tested on:06 & 07/12/2022.Ref to Specification:CPWD 2009, Vol. I&IS: 4031-4-1968Sample:20mm,O.S. No.9517,9518,9526,9515/SS.Lab. Sample No.:5440 To 5443Tested by:Mrs. S.B. Naik Shirodkar J.E.12.5mm size Aggr, Sand, and CementCementCementCementCementCementCement

## **R E P O RT 01 OF 01**

Sr. No.	Description of sample	Tested for	Results	Max. /Min. va	lue permissible	Remark
1.	20 mm Size Aggregate:	Particle size distribution:	It is single sized agg	gregate of 20 mm nominal size.	$(Qty. repm^3)$	
2.	12.5 mm Size Aggregate:	Particle size distribution:	It is not single sized	aggregate of 12.5 mm nominal s	ize. (Qty. rep. $m^3$ )	
		<u>REMARK</u> : After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of <u>1:1</u> by weight; it is				
Satisfying the required criteria for graded aggregate of 20 mm nominal size.						
3.	Crushed Sand:	i) Silt & Clay by S.A. method	d :- 14.40 % (Lim	nit of Deleterious material i	s 15.00% for crushed	d sand)
	(L.S.No.5442)	i) Silt by sedimentation $:-14.28\%$				
		(1) Fineness Modulus :- 2.99 %				
REMARK The observed results are within the nermissible limits for crushed sand (Fine Aggregate) vide table 2 of IS 383: 2016(Clause 5 2 1)						
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4.	<u>Cement</u> :	i) Fineness of C	ement : 1.22 %	(It should not be mo	re than 10%)	
	JK Cement, bearing IS:269 ii) Consistency of cement		of cement : 31.00 %	(It should be in the neighborhood	od of 35%)	
	Ordinary Portland cement, iii) Initial Setting Time		g Time : 155 min	.55 minutes (It should not be less than 30 minutes)		
	Manuf. date:W:- <u>41</u> , M:- <u>10</u> , Y:- <u>2022</u> iv) Final Setting Time		Time : 320 min	ninutes (It should not be more than 600 minutes)		
	CM/L = 0003401033					
	Qty. rep. – <u></u> .					
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, SD IV, WD VI, W.R.D. Bicholim-Goa.

2. Copy Submitted to The Superintending Engineer, CPO, WRD, Sinchai Bhavan Porvorim-Goa for kind Information

3. Copy Submitted to The Executive Engineer, WD VI, W.R.D. Bicholim-Goa.

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

**Junior Engineer** 

**Assistant Engineer**