## GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

<u>Test Report No.</u>: WRD/Q.C./F.6-4/Aggr-T- 9809, 9810 /Lab/321/2020-21 Dated: 05/04/2021. <u>Laboratory</u>: Bicholim

Sand -T: 5132&5133 .Cement-1241

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

<u>Sub</u>:Improvement and supply of M.S.Gates to open type Bandhara near lift irrigation Scheme at AdvoiV.P.Bhironda in Sattari Taluka..

**Ref to requisition No:** MIN/WDVI/WRD/SDII/F.62/20-21/600 Dated: 23/03/2021.

**Oty. Received:** 1 bags each **Date of Receipt**: 25/03/2021 **Tested on**: 26,27,29& 30/03/2021 **Ref to Specification**: CPWD 2009, Vol. I&IS:4031-4-1968

**Sample:**Sand,20mm, **O.S. No.**5652,5653,5670,5671&5631 /SS **Lab. Sample No.**: 1026 To 1031 **Tested by**: Mrs. Shirodkar.JE.

12.5mm size aggrt., Cement REPORT 01 OF 02

Sr. No.	<b>Description of samp</b>	le Tested for	Results	Max. /Min. value permissible	Remarks
1.	20 mm Size Aggreg		n: It is single sized a	aggregate of 20 mm nominal size. (Qty. reped aggregate of 12.5 mm nominal size. (Qty. rep	$m^3$
2.	12.5 mm Size Aggr	<u>regate</u> : Particle size distribution	n: It is not single size	ed aggregate of 12.5 mm nominal size. (Qty. rej	p. – m <sup>3</sup> )
		REMARK: After blendi	ng 20 mm aggregate w	ith 12.5 mm aggregates at the ratio of 1:1 by	weight; it is
			00 0	raded aggregate of 20 mm nominal size.	<b>6</b> /
3.	Sand:	i) Silt & Clay by S.A. method	:- 5.00%		
J.		ii) Silt by sedimentation			
		iii) Fineness Modulus			
		iv) Grading Zone			
		,		umissible limits of the coopes sand	
		REMARK: The observed re	esuns are within the pe	rmissible limits of the coarse sand.	
4.	Crushed Sand:	i) Silt & Clay by S.A. metho	od :- 11.20%( <b>Limi</b> t	t of Deleterious material is 15.00% for crushed sa	nd)
	(L.S.No.1029)		•		
	(2.2.1.101102))	iii) Fineness Modulus :			
		iv) Grading Zone			
		1V) Grading Zone	• - 11		

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Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
5.	Cement: Dalmia.Cement, bearing IS:269 Ordinary Portland cement, Manuf. date:Week 12, Month 03, Year'2021 CM/L =6200022577 Qty. rep. –. To be used for – 1:2:4 mix concrete REMARK: T		iii) Initial Setting Time	Consistency of cement: 30.00% (It should be in the neighborho) Initial Setting Time: 165 minutes (It should not be less	
			iv) Final Setting Time  The observed results are with	y Portland cement.	

Copy to: 1. The Assistant Engineer, SDII, WDVI, WRD, Valpoi-Sattari – Goa.

- Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim Goa for kind information.
   Copy Submitted to The Executive Engineer, W.D. VI, WRD, Bicholim Goa
- 4. Q.C. Lab file 5. Bill File.

**Junior Engineer** 

**Assistant Engineer**