## GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

<u>Test Report No.</u>: WRD/Q.C./F.6-4/Aggr-T- 9747, 9748 /Lab/246/2020-21 Dated: 16/02/2021. <u>Laboratory</u>: Bicholim

Sand -T: 5108&5109 .Cement-1225

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

<u>Sub</u>: Improvement to Katcha canal in Sy.No 118/1 at Nawarwada-Ambegale Pale in SankhalimConstiuency of BicholimTaluka.

**Ref to requisition No:** F.231/WRD/WDVI/SDI/517/2020-21 Dated: 10/02/2021.

**Oty. Received:** 1 bags each **Date of Receipt**: 10/02/2021 **Tested on**: 11,12,13& 14/02/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

<u>Sample</u>: Sand, 20mm, <u>O.S. No.</u> 5010, 5011, 5042, 5043, 5012 /SS <u>Lab. Sample No.</u>: 424 To428 <u>Tested by</u>: Mrs. S. B. Naik Shirodkar. JE.

12.5mm size aggrt., Cement REPORT 01 OF 01

Sr. No.	Description of sample	Tested for	Results	Max.	/Min. value permissible	Remarks
1.	20 mm Size Aggregate	: Particle size distribution	on: It is single sized	aggregate of 20	0 mm nominal size. (Qty	$r. repm^3$
2.	12.5 mm Size Aggrega	<u>te</u> : Particle size distribution	on: It is not single s	zed aggregate of	0 mm nominal size. (Qty of 12.5 mm nominal size. (Qty	y. rep. – m <sup>3</sup> )
	]				egates at the ratio of <u>1:2</u> by v	veight; it is
		satisfying therequ	uired criteria for grad	ed aggregate o	f 20 mm nominal size.	
3.	Sand: i)	Silt & Clay by S.A. method	: - 4.60%	Sand:	i) Silt & Clay by S.A. method	: - 5.20%
	(L.S.No.426) ii)	Silt by sedimentation	: - 4.16% (L.S	.No.427) i	i) Silt by sedimentation	: - 5.82%
	iii)	Fineness Modulus	: - 2.60	i	ii) Fineness Modulus	: - 2.00
	iv)	Grading Zone	: - II	i	v) Grading Zone	:- IV
To	o be used for – 1:2:4 concre	ete work. <b>REMARK:</b> 7	The observed results a	re within the p	ermissible limits of the coars	se sand& Fine sand.
4.	Cement:		i)Fineness of Cemer	t : 0.98%	(It should not be	e more than 10%)
	JK Cement, bearing IS:269		ii) Consistency of cement : 32.00% (It should be in the neighborhood of 35%)			
	Ordinary Portland cement,		iii) Initial Setting Time : 155 minutes (It should not be less than 30 minutes)			
	Manuf. date: Week05, Month 02, Year'2021		iv) Final Setting Time : 290 minutes (It should not be more than 600 minutes)			
	CM/L =0003401033		, ,			,
	Qty. rep. –.					
	- •	REMARK: The observed r	ocults are within the	ormiccible limi	t for Ordinary Portland on	mont

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, W.D. VI, WRD, Bicholim Goa
- 4. Q.C. Lab file 5. Bill File.