## GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9895, 9896 /Lab/ 191 /2021-22

Dated: 26/10/2021.

**<u>Laboratory</u>**: Bicholim

Sand -T: 5186. Cement-1285

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

Sub:-Improvement to road behin circle -II garage at T.I.P complex Karaswada Bardez Goa.

Ref to requisition No:-SDIII/WDVIII/WRD /WF.80/2021-22/180 Dated: 08/10/2021.

**Qty. Received:** 1 bags each **Date of Receipt:** 11/10/2021 **Tested on:** 14,16 &18/10/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, O.S. N:-7018, 7019, 7023 & 7020 / SS Lab. Sample No.: 2271 To 2274 Tested by: Mrs. Shirodkar. JE.

12.5mm size aggrt., Cement

## REPORT 01 OF 01

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permis	sible	Remarks
1.	20.00 mm Size Aggregate:	Particle size distribution:	It is single sized aggre	gate of 20 mm nominal size.	(Qty. rep. –	m <sup>3</sup> )
2.	12.5 mm Size Aggregate:	Particle size distribution:	It is not single sized ag	gregate of 12.5 mm nominal size.	(Qty. rep. –	$ m^3$ )
	<u>REMARK</u> : After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of <u>1:2</u> by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	Sand:	i) Silt & Clay by S.A. meth	od :- 5.20%			
	(L.S.No.2273)	ii) Silt by sedimentation				
	, , , , , , , , , , , , , , , , , , ,	iii) Fineness Modulus	: - 2.74			
		iv) Grading Zone	:- II			
	To be used for <b>REMARK:</b> The observed results are within the permissible limits of the coarse sand.					
4.	Cement:	i) Finene	ss of Cement : 1.05	% (It should not b	e more than	10%)
	JK.Cement, bearing IS:26	9 ii) Consis	stency of cement: 32.5	0% (It should be in the neighb	orhood of 3:	5%)
			Setting Time : 175 minutes (It should not be less than 30 minutes)			ninutes)
	Manuf. date: W- 40 M- 10, Year'2021 iv) Final Setting Time : 325 minutes (It should not be more than 600 minutes)					) minutes)
	CM/L =0003401033	, <u>—</u>	$\mathcal{C}$			,
	Qty. rep. –.					
	To be used for -1:2:4 mix concrete. <b>REMARK: The observed results are within the permissible limit for Ordinary Portland cement.</b>					

Copy to: 1. The Assistant Engineer, SDIII, WDVIII, WRD, Karaswada-Bardez – Goa.

- 2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim Goa for kind information.
- 3. Copy Submitted to The Executive Engineer, W.D. VIII, WRD, Karaswada-Bardez Goa
- 4. Q.C. Lab file 5. Bill File.