GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DFEPARTMENT

Test Report No.: WRD/Q.C. / F.75 /Aggr-T- 193,194/Lab/175/2022-23 **Dated: 19/10/2022.** **Laboratory:** Bicholim-Goa
Sand –T: 5308, Cement-T: 1380 **Sub Div: V (QC)/W.D.VIII/Bicholim Goa.**

Sub: Urgent Repair for Bastora Minor -2 (Extensions) and OR-1 of Calangute Distributory of Left Bank Main Canal in Guirim Village of Bardez Taluka.

Ref to requisition No:- SDI/WDVIII/WRD/WF.75/2022-23/137 Dated: 13/10/2022.

Qty. Received: 1 bags each **Date of Receipt**: 14/10/2022 **Tested on**: 15,17 & 18/10/2022. **Ref to Specification:** CPWD 2009, Vol. I&IS: 4031-4-1968

Sample: Sand, 20mm, 12.5mm size Aggr, Sand, and Cement **O.S. No.** 9384/SS,9385/SS,830/RK,823/RK. **Lab. Sample No**.: 5300 To 5303 **Tested by**: Mrs. S.B. Naik Shirodkar J.E. & Mrs. R.R Kadam A.E.

R E P O RT 01 OF 01

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remark
1.	**20 mm Size Aggregate:**	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. 40 --m^3)	
2.	**12.5 mm Size Aggregate**:	Particle size distribution:	It is not single sized aggregate of 12.5 mm nominal size.	(Qty. rep. 40-- m^3)	

REMARK: After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of 1:2 by weight; it is Satisfying the required criteria for graded aggregate of 20 mm nominal size.

3.	**Coarse Sand:** (L.S.No.5302)	i) Silt & Clay by S.A. method	: - 5.80 %
		ii) Silt by sedimentation	: - 5.55 %
		iii) Fineness Modulus	: - 2.26 %
		iv) Grading Zone	: - III

REMARK: The observed results are within the permissible limits of the Coarse sand.

4.	**Cement:**	i) Fineness of Cement	: 1.03 %	---------- (It should not be more than 10%)
	JK Cement, bearing IS:269	ii) Consistency of cement	: 31.50 %	(It should be in the neighborhood of 35%)
	Ordinary Portland cement,	iii) Initial Setting Time	: 160 minutes	---- (It should not be less than 30 minutes)
	Manuf. date:W:- 40, M:- 10, Y:- 2022	iv) Final Setting Time	: 310 minutes	-- (It should not be more than 600 minutes)
	CM/L =_0003401034			
	Qty. rep. –____--.			

To be used for concrete work 1:2:4 – **REMARK: The observed results are within the permissible limit for Ordinary Portland cement.**

Copy to: 1. The Assistant Engineer, SD I, WD VIII, W.R.D. Karaswada Bardez-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. VIII, W.R.D, Karaswada Bardez–Goa
4. Q.C. Lab file 5. Bill File.

Junior Engineer **Assistant Engineer**