

**GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT**

Test Report No.: WRD/Q.C./F.58/Aggr-T- 195,196/Lab/176/2022-23 **Dated:-**22/10/2022. **Laboratory:** Bicholim
Sand –T:- 5309. **Cement-T:-** 1381. **Sub Div:** V (QC)/WRD/Bicholim Goa.

Sub:- Construction of nallah protection wall from Pednekar House upto Devichi Tali at Khalchawada in Mandrem Constituency at Village Harmal in Pernem Taluka.

Ref to requisition No:- MI/SD III/WD I/WRD/F.58/22-23/194 **Dated :-** 11/10/2022

Qty. Received: 1 bags each **Date of Receipt:-**18/10/2022 **Tested on:-** 18 & 19/10/2022 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample:Sand,20mm, **O.S. N:-** 826, 827,832 & 831 /RK **Lab. Sample No.:-** 5304 to 5307 **Tested by:-** Mrs. R.R.Kadam A.E.

R E P O R T 01 O F 01

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
1.	20.00 mm Size Aggregate:	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – --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. – -- m ³)	
REMARK: After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of 1:1 by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	Sand: (L.S.No.5309)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.80% : - 5.40% : - 2.23% : - III		
4.	To be used for----. Cement: J.K. Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W-40, M-10,Y-2022 CM/L = 0003401033 Qty. rep. –.	REMARK: The observed results are within the permissible limits of the coarse sand. i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.30% : 31.50% : 145 minutes : 305 minutes	----- (It should not be more than 10%) (It should be in the neighborhood of 35%) ---- (It should not be less than 30 minutes) -- (It should not be more than 600 minutes)	
To be used for REMARK: The observed results are within the permissible limit for Ordinary Portland cement.					

- Copy to:1. The Assistant Engineer, SDIII,WDI,WRD, Pernem– Goa.
2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.
3. Copy Submitted to The Executive Engineer, WD I, WRD, Porvorim – Goa
4. Q.C. Lab file 5. Bill File.

Assistant Engineer