

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 173, 174/Lab/ 151 /2022-23 **Dated:-** 25/07/2022. **Laboratory:** Bicholim
Sand –T:- 5296. **Cement-T:-** 1370. **Sub Div:** V (QC)/WRD/Bicholim Goa.

Sub:- Construction of flood protection wall from Prakash Parrikar's house to Jeevan Mavlinkar's house along the bank of Par river at Moitem Vaddo in V.P. Assonara in Tivim Constituency.

Ref to requisition No:- SDII/WDI/WRD/F.24/22-23/173 **Dated :-** 14/07/2022.

Qty. Received: 1 bags each **Date of Receipt:-** 18/07/2022 **Tested on:-** 19,20 & 21/07/2022 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, **O.S. N:-** 9253, 9254, 9258 & 9255 /SS **Lab. Sample No.:-** 5156 to 5159 **Tested by:-** Mrs. S.B. Naik Shirodkar J. E.
12.5mm size aggrt., Cement.

R E P O R T 01 OF 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.	Coarse Sand: (L.S.No.5158)		i) Silt & Clay by S.A. method : - 5.20% ii) Silt by sedimentation : - 5.71% iii) Fineness Modulus : - 2.13% iv) Grading Zone : - III		
REMARK: The observed results are within the permissible limits of the coarse sand.					
4.	Cement: J.K. Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W-22, M-06, Y-2022 CM/L = 0003401033 Qty. rep. –.		i) Fineness of Cement : 1.24% ii) Consistency of cement : 32.00% iii) Initial Setting Time : 170 minutes iv) Final Setting Time : 325 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)	
REMARK: The observed results are within the permissible limit for Ordinary Portland cement.					

- Copy to: 1. The Assistant Engineer, SDII, WDI, WRD, Mapusa, 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.I, WRD, Porvorim – Goa
4. Q.C. Lab file 5. Bill File.

Junior Engineer

Assistant Engineer