

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9955, 9956/Lab/ 255/2021-22 **Dated:-** 06 / 01 / 2022 . **Laboratory:** Bicholim
Sand –T: 5226. Cement-1315 **Sub Div:** V (QC)/WRD/Bicholim Goa.

Sub:-Improvement and Strengthening of existing pond at Bhati Vaddo in ward No. VI village Parra in Calangute Constituency.

Ref to requisition No.:-SDII/WDI/WRD /F.24/2020-21/369 **Dated:-** 22/12/2021.

Qty. Received: 1 bags each **Date of Receipt:** 31/12/2021 **Tested on:-** 04 & 05/01/2022 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample:Sand,20mm, **O.S. N:-** 7274, 7275, 7283 & 7273 /SS **Lab. Sample No.:-** 2583 To 2586 **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.2585)		i) Silt & Clay by S.A. method : - 5.80% ii) Silt by sedimentation : - 5.40% iii) Fineness Modulus : - 2.50 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-50, M-12, Year -2021 CML/L = 0003401033 Qty. rep. –.		i) Fineness of Cement : 2.53% ii) Consistency of cement : 31.00% iii) Initial Setting Time : 165 minutes iv) Final Setting Time : 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)	
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