

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9987, 9988/Lab/ 294/2021-22 **Dated:-** 09 / 02 / 2022 . **Laboratory:** Bicholim
Sand –T: 5246. Cement-1330 **Sub Div: V (QC)/WRD/Bicholim Goa.**

Sub:- Strengthening and renovation of existing bund from Nerul bridge to Caculo house at Candolim Bardez – Goa.

Ref to requisition No:- SDII/WDI/WRD/F.24/20-21/410 **Dated :-** 31/01/2022

Qty. Received: 1 bags each **Date of Receipt:** 02/02/2022 **Tested on:-** 04,05,07 & 08/02/2022 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, **O.S. N:-** 7572, 7573, 7592 & 7560 /SS **Lab. Sample No.:-** 2874 To 2877 **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.2876)		i) Silt & Clay by S.A. method : - 5.40% ii) Silt by sedimentation : - 5.55% iii) Fineness Modulus : - 2.30% iv) Grading Zone : - II		
	To be used for----	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-05, M-01, Year -2022 CML/L = 0003401033 Qty. rep. –.		i) Fineness of Cement : 1.20% ii) Consistency of cement : 31.50% iii) Initial Setting Time : 160 minutes iv) Final Setting Time : 320 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, 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