

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9733, 9734 /Lab/ 223 /2020-21

Dated: 02/ 02 / 2021.

Laboratory: Bicholim

Sand –T: 5089. Cement-1218

Sub Div: V (QC)/WRD/Bicholim Goa.

Sub: Improvement to Nallah near Narayan Naik's fields at Gawaliwada, in village Panchayat Salvador-Do-Mundo, in Porvorim Constituency.

Ref to requisition No.: -WRD/WDI/SDII/F.24/2020-21/406 Dated: 20/01/2021.

Qty. Received: 1 bags each **Date of Receipt:** 22/01/2021 **Tested on:** 27,28,29/01/2021 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand ,20mm, **O.S. No.** 4809,4810, 4824 & 4811/SS **Lab. Sample No.:** 185 To 188 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.

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 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.187)	i) Silt & Clay by S.A. method : - ii) Silt by sedimentation : - iii) Fineness Modulus : - iv) Grading Zone : -	4.80% 5.43% 2.26 III		
	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: Week <u>03</u> , Month <u>01</u> , Year' <u>2021</u> . CM/L = <u>0003401033</u> Qty. rep. – -----. To be used for – -----.	i) Fineness of Cement : ii) Consistency of cement : iii) Initial Setting Time : iv) Final Setting Time :	1.28 % 31.50% 185 minutes 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)	
		REMARK: The observed results are within the permissible limit for Ordinary Portland cement.			

Copy to: 1. The Assistant Engineer, SDII, WDI,WRD, Mapusa – 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