

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9821,9822 /Lab/19/2021-22 Dated: 22/ 04/2021. **Laboratory:** Bicholim
Sand –T: 5141. Cement-1249 **Sub Div: V (QC)/WRD/Bicholim Goa.**

Sub:Improvement to the sides of the existing Spring at Shemche Advan,V.P.Varkhand in Pernem Taluka..

Ref to requisition No: MI/SDIII/WDI/WRD/F.58/2021-22/12 Dated: 08/04/2021.

Qty. Received: 1 bags each **Date of Receipt:** 12/04/2021 **Tested on:** 16 & 17/04/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample:Sand,20mm, **O.S. No.:**5895,5896,5908& 5893 /SS **Lab. Sample No.:** 1173 To1176 **Tested by:** Mrs.Shirodkar.JE.

12.5mm size aggrt., Cement

R E P O R T 0 1 O F 0 1

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 therequired criteria for graded aggregate of 20 mm nominal size.					
3.	Sand: (L.S.No.1175)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.40% : - 5.55% : - 2.58 : - II		
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>11</u> , Month <u>03</u> , Year' <u>2021</u> CM/L = <u>0003401033</u>		i)Fineness of Cement : 1.13% ii) Consistency of cement : 31.00% iii) Initial Setting Time : 190 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)	
	Qty. rep. –				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, W.D.I, WRD, Porvorim – Goa
4. Q.C. Lab file 5. Bill File.

Junior Engineer

Assistant Engineer