

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T-9454, 9455 /Lab/ 304 /2019-20

Dated: 21/ 11/2019. **Laboratory:** Bicholim

Sand –T: 4927, 4928 & Cement T: 1108 .

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

Sub: Construction of DWC's and Fe's and Do's of B/7 Distributory of RBMC of TIP in Dhargal Village of Pernem Taluka.

Ref to requisition No: SDIV/WDVII/WRD/F. 10/2019-20/147 Dated: 14/11/2019.

Qty. Received: 1 bags each **Date of Receipt:** 18/11/2019 **Tested on:** 20 & 21/11/2019 **Ref to Specification:** CPWD 2002, Vol. I&IS:4031-4-1988

Sample: Sand, 20mm, **O.S. No.** 2755, 2758 To 2761 /SS **Lab. Sample No.:** 6880 To 6884 **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 1:2 by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	Coarse Sand: (L.S.No.6882)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.00% : - 4.76% : - 2.55 : - II	4. Fine Sand: (L.S.No.6883)	i) Silt & Clay by S.A. method : - 3.00% ii) Silt by sedimentation : - 3.33% iii) Fineness Modulus : - 1.89 iv) Grading Zone : - IV
REMARK: The observed results are within the permissible limits of the coarse and fine sand.					
5.	Cement: J.K cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week --, Month 11, Year'2019. CM/L = 0003401033 Qty. rep. – _____. To be used for – NOT SPECIFIED.		i) Fineness of Cement : 0.97 % ii) Consistency of cement : 34.50% iii) Initial Setting Time : 140 minutes iv) Final Setting Time : 310 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, SDIV, WDVII, WRD, Dhargal, 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.VII, WRD, Dhargal, Pernem – Goa.

4. Q.C. Lab file

5. Bill File.

Junior Engineer

Assistant Engineer