

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr-T- 9408 & 9409, Sand-T-4898 & 4899, Cement-T-1095 /Lab/ **269** /2019-20 Dated:26/08/2019.

Laboratory: Bicholim

Sub DivV/ (QC)/WRD/Bicholim

Sub: Construction of Compound wall for WRD Complex at Dhargal in Pernem Taluka.

Ref to requisition No: SD IV/ WDVII / WRD/ F351/19-20/80 Dated: 20/08/2019

Qty. Received: 1 bags each **Date of Receipt:** 20/08/2019 **Tested on:** 21 & 22/08/2019 **Ref to Specification:** CPWD 2002, Vol. I & IS: 4031, 1968

Sample: 20mm, 12mm size aggrt. Sand(2Nos), Dalmia cement 43 grade **O.S. No. :** 1073/AF to 1077/AF **Lab. Sample No.:** 6743 TO 6747

Tested by: Mr. Anil R. Fadte , J.E.

REPORT 01 OF 01

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
1.	<u>20 mm Size Aggregate:</u>	Particle size distribution:	It is single sized aggregate of 20 mm nominal size (Qty. rep.)		
2.	<u>12 mm Size Aggregate:</u>	Particle size distribution:	It is single sized aggregate of 12.5 mm nominal size. (Qty. rep.)		
<u>REMARK: After blending 20 mm aggregate with 12 mm aggregates at the ratio of 1:2 by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.</u>					
3.	<u>Sand:</u> (L. S. No. 6745)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.00% : - 5.00 % : - 2.53 : - III	(Qty. rep.)	
<u>REMARK: The observed results are within the permissible limits of the coarse sand.</u>					
3.	<u>Sand:</u> (L.S.No.6746)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 3.40% : - 4.35 % : - 2.50 : - III	(Qty. rep.)	
<u>REMARK: The observed results are within the permissible limits of the coarse sand.</u>					
4.	<u>Cement:</u> Dalmia cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week 27, Month 07, Year'2019. CM/L =6200022577	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.33 % : 31.00% : 180 minutes : 300 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)	
<u>REMARK: The observed results are within the permissible limit for tested Ordinary Portland cement.</u>					

Copy to: 1. The Assistant Engineer, S. D. IV, WD VII, WRD , Dhargal– Goa.

2. Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.

3. Submitted to The Executive Engineer, W.D. VII, WRD, Dhargal – Goa

4. Q.C. Lab file

5. Bill File

Junior Engineer

Assistant Engineer