

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

Test Report No.: WRD/Q.C./ F.6-4 /Aggr-T- 9921,9922/Lab/217/2021-22 **Dated:** 29/11/2021.

Laboratory: Bicholim

Sand –T: 5203, 5204, 5205 **Cement-T:** 1298

Sub Div: V(QC)/W.D.VIII/Bicholim Goa.

Sub: Construction of Protection wall for Nalla from Shri Amrut Pednekar House to Shri kishor Patil House at Chinch – Bhatwadi, Mayem in Survey No 185 of Bicholim Taluka.

Ref to requisition No.: -F.236/WRD/WDVI/SDI/831/20-21 **Dated:** 18/11/2021.

Qty. Received: 1 bags each **Date of Receipt:** 19/11/2021 **Tested on:** 22,23, 24 & 25/11/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, **O.S. No.** 7106, 7107, 7111, 7117, 7114 & 7108/S.S. **Lab. Sample No.:** 2384 To 2389 **Tested by:** Mrs. S.B. Naik Shirodkar J.E.
12.5mm size aggrt., Sand, Cement

R E P O R T 01 OF 02

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remark
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.	Coarse Sand: (L.S.No.2386)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.40% : - 4.54% : - 2.80% : - II		
REMARK: The observed results are within the permissible limits of the coarse sand.					
4.	Fine Sand: (L.S.No.2387)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.80% : - 5.12% : - 2.07 : - IV		
REMARK: The observed results are within the permissible limits of the Fine sand.					
To be used for-----.					

Junior Engineer

Assistant Engineer

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

Test Report No.: WRD/Q.C./ F.6-4 /Aggr-T- 9921,9922/Lab/217/2021-22 **Dated:** 29/11/2021.

Laboratory: Bicholim

Sand -T: 5203, 5204 , 5205 **Cement-T:** 1298

Sub Div: V(QC)/W.D.VIII/Bicholim Goa.

Sub: Construction of Protection wall for Nalla from Shri Amrut Pednekar House to Shri kishor Patil House at Chinch – Bhatwadi, Mayem in Survey No 185 of Bicholim Taluka.

Ref to requisition No.: -F.236/WRD/WDVI/SDI/831/20-21 **Dated:** 18/11/2021.

Qty. Received: 1 bags each **Date of Receipt:** 19/11/2021 **Tested on:** 22,23, 24 & 25/11/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand,20mm, **O.S. No.** 7106,7107,7111,7117,7114 & 7108/S.S. **Lab. Sample No.:** 2384 To 2389 **Tested by:** Mrs. S.B. Naik Shirodkar J.E.
12.5mm size aggrt., Sand, Cement

R E P O R T 02 OF 02

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remark
5.	Crushed Sand: (L.S.No.2388)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 12.00% : - 13.15% : - 2.50 : - II	Limit of Deleterious material is 15.00% for crushed sand)	

REMARK: The observed results are within the permissible limits for crushed sand (Fine Aggregate) vide table 2 of IS 383: 2016(Clause 5.2.1).

6.	Cement: Dalmia Cement, bearing IS:269 Ordinary Portland cement, Manuf. date:W - -, M- -, Y- 2021 CM/L = 0006936289 Qty. rep. – ____ --.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 0.98% : 33.00% : 165 minutes : 290 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,SDI,WDVI,WRD, Bicholim-Goa.

2. Copy Submitted to The Superintending Engineer, CPO, WRD,Sinchai Bhavan Porvorim-Goa for kind Information

3. Copy Submitted to The Executive Engineer, WDVI, WRD,Bicholim – Goa

4. Q.C. Lab file 5. Bill File.

Junior Engineer

Assistant Engineer