

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

Test Report No.: WRD/Q.C./ F.6-4 /Aggr-T- 171,172/Lab/128/2022-23 **Dated:** 15/06/2022. **Laboratory:** Bicholim-Goa
Sand –T: 5294, 5295. **Cement-T:** 1369 **Sub Div:** V(QC)/W.D.VIII/Bicholim Goa.

Sub: Construction of wall for Nallah from main road to the river for protecting the Paddy fields at Pandav waddo Chodan Madel in Mayem Constituency.

Ref to requisition No.: -F.243/WRD/WDVI/SDI/76/22-23 **Dated:** 03/06/2022.

Qty. Received: 1 bags each **Date of Receipt:** 09/06/2022 **Tested on:** 10,11, 13 & 14/06/2022 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, **O.S. No.** 8916, 8917, 8871, 8935 & 8879/S.S. **Lab. Sample No.:** 4862 to 4866 **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.	<u>20 mm Size Aggregate:</u>	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – --m ³)	
2.	<u>12.5 mm Size Aggregate:</u>	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.	<u>Coarse Sand:</u> (L.S.No.4864)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.60% : - 5.55% : - 2.49% : - II		
REMARK: The observed results are within the permissible limits of the coarse sand.					
4.	<u>Fine Sand:</u> (L.S.No.4865)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 6.00% : - 5.71% : - 2.04% : - IV		
REMARK: The observed results are within the permissible limits of the Fine sand.					
To be used for----.					

Junior Engineer

Assistant Engineer

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R E P O R T 02 OF 02

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remark
5.	Cement: J.K Cement, bearing IS:269 Ordinary Portland cement, Manuf. date:W-22, M-05, Y- 2022 CM/L =_0003401033 Qty. rep. – ____--.		i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.26% ----- (It should not be more than 10%) : 31.00% (It should be in the neighborhood of 35%) : 170 minutes ---- (It should not be less than 30 minutes) : 330 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