

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 227,228/Lab/217/2022-23 **Dated:-**26/12/2022.

Laboratory: Bicholim

Sand –T:- 5331. **Cement-T:-** 1398.

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

Sub:- Improvement rain water drain from the field of Shri Sayaji Desai to M.M. Naik up to Madai river at Village Sanvordem V.P. Sanvordem in Sattari Taluka.

Ref to requisition No:- MIN/WDVI/WRD/SDII/F.62/2022-23/449 **Dated :-** 20/12/2022

Qty. Received: 1 bags each **Date of Receipt:-** 20/12/2022 **Tested on:-** 21 & 22/12/2022 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, **O.S. No:-** 856,855,854 & 853/RK **Lab. Sample No.:-** 5505 to 5508 **Tested by:-** Mrs. R. R. Kadam A.E.
12.50mm size Aggr, Sand, and Cement

R E P O R T 01 OF 01

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
1.	20.00 mm Size Aggregate:	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – --m ³)	
2.	12.50 mm Size Aggregate:	Particle size distribution:	It is not single sized aggregate of 12.50 mm nominal size.	(Qty. rep. – -- m ³)	
REMARK: After blending 20 mm aggregate with 12.50 mm aggregates at the ratio of 1:1 by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	Crushed Sand: (L.S.No.5507)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 14.20% : - 13.04% : - 2.85% : - I	(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).					
4.	Cement: JK Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W-47, M-11, Y-2022 CM/L = 0003401033 Qty. rep. –.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: - 1.38% : - 31.00% : - 155 minutes : - 285 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, SDII, WDVI, WRD, Valpoi-Sattari – Goa.

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

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

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

Assistant Engineer