

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

TEST REPORT No.: WRD/Q.C./F.6-4/AGGR-T-9580 & 9581, SAND-T: 5000 & 5001, /LAB/ 485 /2019-20 DT:12/ 03//2020 Laboratory: Bicholim
CEMENT-T-1151 Sub Div: V (QC)/WRD/Bicholim Goa.

Sub: Improvement to nallah behind the house of Shri. Javid Aga, Shri. Imtiaz Aga and others both side in ward No. 10 VMC Valpoi in Sattari Taluka

Ref to requisition No: SDII/WDVI/WRD /F.62/2019-20/445 Dated: 26-02-2020

Qty. Received: 1 bags each **Date of Receipt:** 28/02/2020 **Tested on:** 02,03 & 04/03/2020 **Ref to Specification:** CPWD 2009, Vol. I&IS: 4031-4-1968

Sample: 20mm, 12.50 mm size aggrt, M.Sand, **O.S. No.** 3331,3332,3346,3388 & 3321 /SS **Lab. Sample No.** 8212 TO 8216 **Tested by:** Mrs. S.B. Naik Shirodkar, JE.
Coarse sand, JK cement,43grade **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.	M. Sand:	i) Silt & Clay by S.A. method	: - 8.40%	(Limit of Deleterious material is 15.00% for crushed sand)	
		ii) Silt by sedimentation	: - 11.11%		
		iii) Fineness Modulus	: - 3.23		
		iv) Grading Zone	: - I		
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.	Coarse Sand:	i) Silt & Clay by S.A. method	: - 3.80%		
		ii) Silt by sedimentation	: - 4.25%		
		iii) Fineness Modulus	: - 2.12		
		iv) Grading Zone	: - III		
REMARK: The observed results are within the permissible limits of the coarse sand.					
5.	Cement:	i) Fineness of Cement	: 1.00%	----- (It should not be more than 10%)	
	J.K. cement,43grade, bearing IS:269	ii) Consistency of cement	: 32.00%	(It should be in the neighborhood of 35%)	
	CM/L = 0003401033 Qty. rep. –bags	iii) Initial Setting Time	: 170 minutes	---- (It should not be less than 30 minutes)	
	Manuf. date: Week 06, Month 02, Year'2020.	iv) Final Setting Time	: 310 minutes	-- (It should not be more than 600 minutes)	
To be used for –concrete Mix 1:2:4.					
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, W.D.VI, WRD, Bicholim – Goa.
4. Q.C. Lab file 5. Bill File

Junior Engineer

Assistant Engineer