

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9592, 9593 /Lab/ 494 /2019-20

Dated: 20/ 03 / 2020.

Laboratory: Bicholim

Sand –T: 5008 , Cement: 1155.

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

Sub: Improvement to nallah from main road to Anil Polekar house behind Assagao Panchayat in V.P. Assagao in Siolim Constituency.

Ref to Requisition :- WRD / M.I./WD I/ SD I/F.57 / 2019-20 / 603 Dated :- 16 / 03 / 2020 .

Qty. Received: 1 bags each **Date of Receipt:** 17/03/2020 **Tested on:** 18 & 19/03/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand ,20mm, **O.S. No.** 3508,3509, 3521 & 3491/SS **Lab. Sample No.:** 8413 To 8416 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.
12.5mm size aggrt, 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 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.	Coarse Sand: (L.S.No.8415)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.00% : - 4.87% : - 2.59 : - II		
REMARK: The observed results are within the permissible limits of the coarse sand.					
4.	Cement: J.K Super cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week <u>10</u> , Month <u>03</u> , Year' <u>2020</u> . CM/L = <u>0003401033</u> Qty. rep. – _____. To be used for – Concrete work.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.13 % : 31.50% : 140 minutes : 270 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)	
REMARK: The observed results are within the permissible limit for Ordinary Portland cement.					

Copy to: 1. The Assistant Engineer, SDI, WDI,WRD, Porvorim – Goa.

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

3. Copy Submitted to The Executive Engineer, W.D. I, WRD, Porvorim – Goa.

4. Q.C. Lab file

5. Bill File.

Junior Engineer

Assistant Engineer