

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9404, 9405 /Lab/ 241 /2019-20
Sand –T: 4895,4896 , Cement: 1093.

Dated: 11/ 07 / 2019.

Laboratory: Bicholim

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

Sub: Construction of outlets and R Minor – 6 taking off at ch. 7.38 km of SDC of LBMC of TIP at Sarvan, Karapur in Bicholim Taluka.

Ref to requisition No: SDVI/WDVIII/WRD/F. 257/2019-20/39 Dated: 05/07/2019.

Qty. Received: 1 bags each **Date of Receipt:** 08/07/2019 **Tested on:** 08,09,10 & 11/07/2019 **Ref to Specification:** CPWD 2002, Vol. I & IS:4031-4-1988

Sample: Sand ,20mm, **O.S. No.** 2527,2528,2555,2529 & 2556 /SS **Lab. Sample No.:** 6625 To 6629 **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.6627)	i) Silt & Clay by S.A. method :- 3.00% ii) Silt by sedimentation :- 4.10% iii) Fineness Modulus :- 2.07 iv) Grading Zone :- III	4. Fine Sand: (L.S.No.6629)	i) Silt & Clay by S.A. method :- 3.20% ii) Silt by sedimentation :- 2.32% iii) Fineness Modulus :- 2.00 iv) Grading Zone :- IV	
REMARK: The observed results are within the permissible limits of the coarse and Fine sand.					
5.	Cement: J.K cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week <u>26</u> , Month <u>06</u> , Year' <u>2019</u> . CM/L = <u>0003401033</u> Qty. rep. – _____. To be used for – NOT SPECIFIED.	i) Fineness of Cement : 0.89 % ii) Consistency of cement : 32.00% iii) Initial Setting Time : 210 minutes iv) Final Setting Time : 320 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, SDVI, WDVIII,WRD, Bicholim – Goa.

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

3. Copy Submitted to The Executive Engineer, W.D.VIII, WRD, Karaswada, Bardez – Goa.

4. Q.C. Lab file

5. Bill File.

Junior Engineer

Assistant Engineer