

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9422, 9423 /Lab/ 278 /2019-20

Dated: 04/ 10/ 2019.

Laboratory: Bicholim

Sand –T: 4910 & Cement: 1100

Sub Div: V (QC)/WRD/Bicholim

Sub: Construction of Garage for vehicle of circle office II, Division VIII, Sub Division I & III, SLAO & Forest and drivers waiting room at TIP Complex Karaswada Bardez Goa.

Ref to requisition No: SDIII/WDVIII/WRD/WF. 57(A)/2019-20/151 Dated: 30/09/2019.

Qty. Received: 1 bags each **Date of Receipt:** 01/10/2019 **Tested on:** 01/10/2019 to 04/10/2019

Ref to Specification: CPWD 2002, Vol. I & IS:4031-4-1988

Sample: Sand ,20mm, **O.S. No. :** 2708 to 2711 /SS

Lab. Sample No.: 6793 TO 6796

Tested by: Mrs. S. B. Naik Shirodkar.JE.

10.0mm 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. – 20.00 m ³)	
2.	10.0 mm Size Aggregate:	Particle size distribution:	It is not single sized aggregate of 10.0 mm nominal size.	(Qty. rep. – 20.00 m ³)	

REMARK: After blending 20 mm aggregate with 10.0 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.6795) | i) Silt & Clay by S.A. method : - 3.00%
ii) Silt by sedimentation : - 3.57 %
iii) Fineness Modulus : - 2.622
iv) Grading Zone : - II |
|----|--------------------------------------|---|

REMARK: The observed results are within the permissible limits of the coarse sand.

- | | | |
|----|--|---|
| 4. | Cement:
J.K cement, bearing IS: 269
Ordinary Portland cement,
Manuf. date: Week 38, Month 09 Year 2019.
CM/L = 0003401033 | i) Fineness of Cement : 1.11 % ----- (It should not be more than 10%)
ii) Consistency of cement : 30.00% (It should be in the neighborhood of 35%)
iii) Initial Setting Time : 130 minutes ---- (It should not be less than 30 minutes)
iv) Final Setting Time : 265 minutes -- (It should not be more than 600 minutes) |
|----|--|---|

To be used for – M15 Grade Concrete PCC.

REMARK: The observed results are within the permissible limit for Ordinary Portland cement.

- Copy to:
1. The Assistant Engineer, SDIII, WDVIII, Karaswada Bardez – 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