

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9869, 9870 /Lab/97/2021-22 **Dated:** 07/ 06/ 2021. **Laboratory:** Bicholim –Goa.

Sand –T: 5167 Cement: 1271.

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

Sub: Construction of Pilgao –Narva Distributory of LBMC of TIP from Ch.12.33 km. to tail end at village Narva,Mayem in Bicholim Taluka.

Ref to requisition NoWRD/WDVIII/SDVI/F.246/2021-22/21 **Dated:** 24/05/2021.

Qty. Received: 1 bags each **Date of Receipt:** 27/05/2021 **Tested on:** 31/05/2021 & 01,02/06/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample:Sand,20mm,**O.S. No.**6348,6349,6361,6333/SS **Lab. Sample No.:** 1624 To 1627 **Tested by:** Mrs. Shirodkar.JE.

12.5mm size aggrt, cement.

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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 1:1 by weight; it is satisfying therequired criteria for graded aggregate of 20 mm nominal size.					
3.	CurshedSand: (L.S.No.1626)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 12.60% : - 11.11% : - 2.66 : - II	(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: ACC cement, bearing IS:269-2015 Ordinary PortlandCement, Manuf. date:Week 19, Month 05, Year' 2021.iv) CM/L =2023022 Qty. rep. –. To be used for	i)Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.04 % : 32.00 % : 175 minutes : 310minutes	----- (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