

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

**Test Report No.:** WRD/Q.C. / F.6-4 /Aggr-T- 237,238/Lab/237/2022-23   **Dated:** 10/01/2023.   **Laboratory:** Bicholim-Goa

**Sand –T:** 5336,5337. **Cement-T:** 1402

**Sub Div:** V (QC)/W.D.VIII/Bicholim Goa.

**Sub:** Restoration and renovation of Existing water spring and tank at Talewada near Varde House in ward No 6 of V.P Ple Cotombi in Sankhali Constituency.

**Ref to requisition No:-** F.251/WRD/WDVI/SDI/354/22-23.   **Dated:** 29/12/2022.

**Qty. Received:** 1 bags each   **Date of Receipt:** 03/01/2023   **Tested on:** 05,06,07 & 08/01/2023   **Ref to Specification:** CPWD 2009, Vol. I&IS: 4031-4-1968

**Sample:** Sand, 20mm,   **O.S. No.** 9655, 9656,9678,9706,9634/SS.   **Lab. Sample No.:** 5635 To 5639   **Tested by:** Mrs. S.B. Naik Shirodkar J.E.  
12.50mm size Aggr, Sand, and Cement

**R E P O R T 01 OF 02**

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remark
1.	<b>20 mm Size Aggregate:</b>	Particle size distribution:	It is single sized aggregate of 20.00 mm nominal size.	(Qty. rep. – m <sup>3</sup> )	
2.	<b>12.50 mm Size Aggregate:</b>	Particle size distribution:	It is not single sized aggregate of 12.50 mm nominal size.	(Qty. rep. – m <sup>3</sup> )	
<b>REMARK:</b> After blending 20 mm aggregate with 12.50 mm aggregates at the ratio of <b>1:1</b> by weight; it is Satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	<b>Coarse Sand:</b> (L.S.No.5637)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.80 % : - 5.55 % : - 2.48 % : - II		
<b>REMARK:</b> The observed results are within the permissible limits of the Coarse sand.					
4.	<b>Fine- Sand</b> (L.S.No.5638)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.20 % : - 5.68 % : - 2.08 % : - IV		
<b>REMARK:</b> The observed results are within the permissible limits of the Fine sand.					

Junior Engineer

Assistant Engineer

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**Sample:** Sand, 20mm,   **O.S. No.** 9655, 9656,9678,9706,9634/SS.   **Lab. Sample No.:** 5635 To 5639   **Tested by:** Mrs. S.B. Naik Shirodkar J.E.  
12.50mm size Aggr, Sand, and Cement

**R E P O R T 02 OF 02**

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remark
5.	<b>Cement:</b> Dalmia OPC 43 Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W-M- Invisible, Y- 2022 CM/L =_6200022577 Qty. rep. – To be used for–		i) Fineness of Cement : 1.26 % ii) Consistency of cement : 32.50 % iii) Initial Setting Time : 175 minutes iv) Final Setting Time : 310 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)	<b>REMARK: The observed results are within the permissible limit for Ordinary Portland cement.</b>

- Copy to: 1. The Assistant Engineer, SDI, WDVI,WRD, Bicholim-Goa.  
2. Copy Submitted to The Superintending Engineer, CPO, WRD,Sinchai Bhavan Porvorim-Goa for kind Information  
3. Copy Submitted to The Executive Engineer, WDVI,WRD, Bicholim-Goa.  
4. Q.C. Lab file   5. Bill File.

**Junior Engineer**

**Assistant Engineer**