

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

**Test Report No.:** WRD/Q.C./F.6-4/ Aggr -T- 9522 TO 9525, /Lab/ 377 /2019-20

**Dated:** 08 / 01 / 2020.

**Laboratory:** Bicholim

**Sand –T: 4965 ,4966 Cement: 1131.**

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

**Sub:** Improvement to existing Tali at Sangavwada VP Ozari in Pernem Goa.

**Ref to requisition No:** SDIII/WDI/WRD/W.F. 58/2019-20/291 Dated: 02/01/2020.

**Qty. Received:** 2 bags **Date of Receipt:** 03/01/2020 **Tested on:** 06 & 07/01/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

**Sample:** Sand ,20mm, **O.S. No.** 2945 TO 2950 & 2943 /SS **Lab. Sample No.:** 7489 To 7495 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.

12.5mm size aggrt. & 1 bag cement.

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

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
1.	<b>20 mm Size Aggregate:</b>	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – --- m <sup>3</sup> )	
2.	<b>12.5 mm Size Aggregate:</b>	Particle size distribution:	It is not single sized aggregate of 12.5 mm nominal size.	(Qty. rep. – --- m <sup>3</sup> )	
	(L.S.No.7489,7491)	<b>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.</b>			
3.	<b>20 mm Size Aggregate:</b>	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – --- m <sup>3</sup> )	
4.	<b>12.5 mm Size Aggregate:</b>	Particle size distribution:	It is not single sized aggregate of 12.5 mm nominal size.	(Qty. rep. – --- m <sup>3</sup> )	
	(L.S.No.7490,7492)	<b>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.</b>			
5.	<b>Sand:</b> (L.S.No.7493 )	i) Silt & Clay by S.A. method : - 3.60% ii) Silt by sedimentation : - 4.34% iii) Fineness Modulus : - 2.82 iv) Grading Zone : - II	6.	<b>Sand:</b> (L.S.No.7494 )	i) Silt & Clay by S.A. method : - 3.00% ii) Silt by sedimentation : - 4.08% iii) Fineness Modulus : - 2.86 iv) Grading Zone : - II

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

Junior Engineer

Assistant Engineer

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**Sample:** Sand ,20mm, **O.S. No.** 2945 TO 2950 & 2943 /SS **Lab. Sample No.:** 7489 To 7495 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.

12.5mm size aggrt. & 1 bag cement.

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

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
7.	<b>Cement:</b> J.K cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week <u>52</u> , Month <u>12</u> , Year' <u>2019</u> . CM/L = <u>0003401033</u> Qty. rep. – _____. To be used for – NOT SPECIFIED.		i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.06 % ----- (It should not be more than 10%) : 31.50% (It should be in the neighborhood of 35%) : 165 minutes ---- (It should not be less than 30 minutes) : 295 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, SDIII, WDI,WRD, Pernem – 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**