

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

**Test Report No.:** WRD/Q.C./F.6-4/ Sand- T: 5048, / Lab/ 139 /2020-21      **Dated:** 28/ 11 / 2020.      **Laboratory:** Bicholim  
**Aggr -T :** 9669, 9670 **Cement T:** 1188 .      **Sub Div:** V (QC)/WRD/Bicholim Goa.  
**Sub:** Construction of Pilgao – Narve Distributory of LBMC of TIP from ch. 4.825 km to Ch. 8670 m at Narve Village in Bicholim Taluka. ( Balance Work)  
**Ref to requisition No:** SDII/WDVIII/WRD/F. 160/2020-21/122      **Dated:** 10/11/2020.  
**Qty. Received:** 1 bags each      **Date of Receipt:** 17/11/2020      **Tested on:** 18,19,20 & 21/10/2020      **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968  
**Sample:** Sand ,20mm,      **O.S. No.** 4241,4230,4231 & 4236 /SS      **Lab. Sample No.:** 9524 To 9527      **Tested by:** Mrs. S. B. Naik Shirodkar.JE.  
12.5mm size aggrt.

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

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
1.	<b>Sand:</b> (L.S.No.9524)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.20% : - 5.68% : - 2.65 : - II		To be used for – ----. <b>REMARK:</b> The observed results are within the permissible limits of the coarse sand.
2.	<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> )	
3.	<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> )	
			<b>REMARK:</b> After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of <b>1:2</b> by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.		
4.	<b>Cement:</b> J.K cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week <u>43</u> , Month <u>11</u> , Year' <u>2020</u> . CM/L = <u>0003401033</u> Qty. rep. – _	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.24 % : 30.00% : 145minutes : 270 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:</b> The observed results are within the permissible limit for Ordinary Portland cement.		

Copy to: 1. The Assistant Engineer, SDII, WDVIII,WRD, Tivim- 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**