

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

**Test Report No.:** WRD/Q.C./F.6-4/ Aggr -T- 9659 TO 9662, /Lab/ 126 /2020-21

**Dated:** 31/ 10/ 2020.

**Laboratory:** Bicholim

**Sand –T: 5042,5043 & Cement: 1183**

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

**Sub :-** Construction of MPCs building under NCRMP –II in the campus of GPP, Altinho, in the property under chalta No. 18 PT sheet No. 122 at Panaji Goa.

**Ref to requisition No:** 1. SDIV / NCRMP –II (North Goa)/WDIII / WRD / WF. 10 / 2020-21 / 167 Dated : - 23 / 10 / 2020.

2. SDIV / NCRMP –II (North Goa)/WDIII / WRD / WF. 10 / 2020-21 / 172 Dated : - 27 / 10 / 2020.

**Qty. Received:** 2 bags each **Date of Receipt:** 26/10/2020 **Tested on:** 26, 27,28,29 & 30/10/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

**Sample:** Sand ,20mm, **O.S. No.** 4169 TO 4173,4176 & 4179 /SS **Lab. Sample No.:** 9462 To 9467 & 9474 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.

12.5mm size aggrt., 1 beg cement.

**R E P O R T 01 O F 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. – 90 m <sup>3</sup> )	
2.	<b>12.5 mm Size Aggregate:</b> (L.S.No.9462 & 9464)	Particle size distribution:	It is not single sized aggregate of 12.5 mm nominal size.	(Qty. rep. – 90 m <sup>3</sup> )	
<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. – 90 m <sup>3</sup> )	
4.	<b>12.5 mm Size Aggregate:</b> (L.S.No.9463 & 9465)	Particle size distribution:	It is not single sized aggregate of 12.5 mm nominal size.	(Qty. rep. – 90 m <sup>3</sup> )	
<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.9466)	i) Silt & Clay by S.A. method : - 5.20% ii) Silt by sedimentation : - 6.38% iii) Fineness Modulus : - 2.18 iv) Grading Zone : - III	6.	<b>Sand:</b> (L.S.No.9467)	i) Silt & Clay by S.A. method : - 4.80% ii) Silt by sedimentation : - 5.55% iii) Fineness Modulus : - 2.24 iv) Grading Zone : - III

To be used for – PCC 1:2:4 Mix **REMARK: The observed results are within the permissible limits of the coarse sand.**

- Copy to: 1. The Assistant Engineer , SD IV , NCRMP - II (North Goa),WD III, WRD, Porvorim - Goa.  
2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.  
3. Copy Submitted to The Executive Engineer, W.D.III, WRD, Ponda – Goa .  
4. Q.C. Lab file 5. Bill File.

**Junior Engineer**

**Assistant Engineer**

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**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 40 Month 10 Year'2020. CM/L = 0003401033 Qty. rep. –_____.		i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.26 % ----- (It should not be more than 10%) : 32.50% (It should be in the neighborhood of 35%) : 160 minutes ---- (It should not be less than 30 minutes) : 315 minutes -- (It should not be more than 600 minutes)	
To be used for – PCC 1:2:4 Mix <b>REMARK: The observed results are within the permissible limit for Ordinary Portland cement.</b>					

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**Junior Engineer**

**Assistant Engineer**