

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9866, 9867,9868, /Lab/ 93 /2021-22 **Dated:** 02/ 06/2021. **Laboratory:** Bicholim

Sand –T: 5166. Cement-1270

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

Sub: Improvement to existing Bandhara at D/S of vehicular bridge at Assonora. Regarding construction of side protection wall at RHS Bank of Assonora.

Ref to requisition No.: F.36/SDIII/WDVI/WRD/2021-22/38 **Dated:** 26/05/2021.

Qty. Received: 1 bags each **Date of Receipt:** 27/05/2021 **Tested on:** 28,30 & 31/05/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand,40mm,20mm, **O.S. No.**6320,6321,6322,6332,6328/SS **Lab. Sample No.:** 1619 To 1623 **Tested by:** Mrs. Shirodkar.JE.

12.5mm size aggrt., Cement

R E P O R T 01 OF 02

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
1.	40 mm Size Aggregate:	Particle size distribution:	It is single sized aggregate of 40 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 40 mm aggregate with 12.5 mm aggregates at the ratio of 1:1 by weight; it is satisfying the required criteria for graded aggregate of 40 mm nominal size.					
3.	20 mm Size Aggregate:	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – --m ³)	
4.	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 the required criteria for graded aggregate of 20 mm nominal size.					
5.	Sand: (L.S.No.1622)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.00% : - 5.43% : - 2.48 : - II		
REMARK: The observed results are within the permissible limits of the coarse sand.					

Junior Engineer

Assistant Engineer

R E P O R T 02 OF 02

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
6.	<u>Cement:</u> JK.Cement, bearing IS: Ordinary Portland cement, Manuf. date:Week <u>20</u> , Month <u>05</u> , Year' <u>2021</u> . CM/L = <u>0003401033</u> Qty. rep. –. To be used for – PCC work.		i)Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.14% ----- (It should not be more than 10%) : 31.50% (It should be in the neighborhood of 35%) : 170 minutes ---- (It should not be less than 30 minutes) : 320 minutes -- (It should not be more than 600 minutes)	
<u>REMARK: The observed results are within the permissible limit for Ordinary Portland cement.</u>					

- Copy to: 1. The Assistant Engineer, SDIII, WDV, WRD, Mulgao – Goa.
2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.
3. Copy Submitted to The Executive Engineer, W.D.VI, WRD, Bicholim – Goa
4. Q.C. Lab file 5. Bill File.

Junior Engineer

Assistant Engineer