

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9511 TO 9514, /Lab/ 366 /2019-20
Sand –T: 4958 ,4959 **Cement:** 1125.

Dated: 04 / 01 / 2020.

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

Sub: Maintenance of Lift Irrigation Scheme at Torshe in Pernem Taluka.(Reg. Extention of half round pipe canal)

Ref to requisition No: SDIII/WDI/WRD/W.F. 58/2019-20/283 Dated: 20/12/2019.

Qty. Received: 2 bags **Date of Receipt:** 26/12/2019 **Tested on:** 26,28/12/2019 & 01/01/2020 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1988

Sample: Sand ,20mm, **O.S. No.** 2905 TO 2909, 2913 & 2910 /SS **Lab. Sample No.:** 7391 To 7397 **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.	20 mm Size Aggregate:	Particle size distribution:	It is single sized aggregate of 20 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)	
	(L.S.No.7391,7393)	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.			
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)	
	(L.S.No.7392,7394)	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.			
5.	Sand: (L.S.No.7395)	i) Silt & Clay by S.A. method : - 3.80% ii) Silt by sedimentation : - 4.54% iii) Fineness Modulus : - 2.54 iv) Grading Zone : - II	6.	Sand: (L.S.No.7396)	i) Silt & Clay by S.A. method : - 3.40% ii) Silt by sedimentation : - 5.31% iii) Fineness Modulus : - 2.10 iv) Grading Zone : - III

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.** 2905 TO 2909, 2913 & 2910 /SS **Lab. Sample No.:** 7391 To 7397 **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.	Cement: J.K cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week <u>49</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	: 1.16 % ----- (It should not be more than 10%) : 31.00% (It should be in the neighborhood of 35%) : 160 minutes ---- (It should not be less than 30 minutes) : 285 minutes -- (It should not be more than 600 minutes)	
REMARK: The observed results are within the permissible limit for Ordinary Portland cement.					

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