

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9390 , 9391 /Lab/ 176 /2019-20
Sand –T: 4888 , Cement: 1086.

Dated: 11 / 06 / 2019.

Laboratory: Bicholim

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

Sub: Construction of Protection wall near Raampur Bhawani Temple at Bagwada Agarwada, V.P. Agarwada, Chopde under Mandrem Constituency in Pernem Taluka.

Ref to requisition No: SDIII/WDI/WRD/W.F. 32/2019-20/ Dated: 06/06/2019.

Qty. Received: 1 bags each **Date of Receipt:** 06/06/2019 **Tested on:** 10 & 11/06/2019 **Ref to Specification:** CPWD 2002, Vol. I & IS:4031-4-1988

Sample: Sand ,20mm, **O.S. No.** 2203,2204,2184 & 2183 /SS **Lab. Sample No.:** 5093 To 5096 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.
12.5mm size aggrt. & cement.

R E P O R T 01 OF 01

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)	
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.	Sand: (L.S.No.5095)	i) Silt & Clay by S.A. method : - ii) Silt by sedimentation : - iii) Fineness Modulus : - iv) Grading Zone : -	3.80% 4.65% 2.28 III		
REMARK: The observed results are within the permissible limits of the coarse sand.					
4.	Cement: J.K cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week <u>21</u> , Month <u>05</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 :	1.08 % 31.00% 160 minutes 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)	
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