

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9442 , 9443 /Lab/ 287 /2019-20
Sand –T: 4921 , Cement: 1105.

Dated: 22/ 10 / 2019.

Laboratory: Bicholim

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

Sub: Construction of Nallah protection wall from Diago Cardos House up to Harmal Beach at Khalchawada in Mandrem Constituency at Village Harmal in Pernem Taluka.

Ref to requisition No: SDIII/WDI/WRD/F. 58/2019-20/221 Dated: 16/10/2019.

Qty. Received: 1 bags each **Date of Receipt:** 17/10/2019 **Tested on:** 18,19 & 21/10/2019 **Ref to Specification:** CPWD 2002, Vol. I & IS:4031-4-1988

Sample: Sand ,20mm, **O.S. No.** 2717 to 2720 /SS **Lab. Sample No.:** 6842 To 6845 **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 <u>1:2</u> by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	Sand: (L.S.No.6844)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 3.60% : - 5.31% : - 2.11 : - III		
REMARK: The observed results are within the permissible limits of the coarse sand.					
4.	Cement: Ultratech cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week --, Month <u>10</u> , Year' <u>2019</u> . CM/L = <u>7171769</u> Qty. rep. – _____.		i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.20 % : 32.00% : 145 minutes : 280 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)
		To be used for – NOT SPECIFIED.	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