GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

Test Report No.: WRD/Q.C. / F.57 /Aggr-T- 189,190/Lab/173/2022-23 Dated: 19/10/2022. Laboratory: Bicholim-Goa

Sand –T: 5306, Cement-T: 1378

Sub Div: V (QC)/W.D.VIII/Bicholim Goa.

<u>Sub</u>: Stabilization & Protection of hill slope from Apolina Fernandes house to Jerald D'Souza at Britona in Village Panchayat Pehna-De-France, in Porvorim Constituency.

Ref to requisition No:-WRD//M.I/WDI/SDI/F.57/22-23/287 Dated: 12/10/2022.

<u>Oty. Received</u>: 1 bags each **<u>Date of Receipt</u>**: 13/10/2022 <u>Tested on</u>: 13,14 & 15/10/2022. <u>Ref to Specification</u>: CPWD 2009, Vol. I&IS: 4031-4-1968

Sample: Sand, 20mm, **O.S. No.** 9374,9375,9383,9373/SS. **Lab. Sample No.**: 5292 To 5295 **Tested by**: Mrs. S.B. Naik Shirodkar J.E.

12.5mm size Aggr, Sand, and Cement

R E P O RT 01 OF 01

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remark
1.	<u>20 mm Size Aggregate</u> :	Particle size distribution:	It is single sized aggregate of 20	mm nominal size. (Qty. rep. m^3)	
2.	<u>12.5 mm Size Aggregate</u> :	Particle size distribution:	It is not single sized aggregate o	f 12.5 mm nominal size. (Qty. rep. m^3)	

<u>REMARK</u>: After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of <u>1:1</u> by weight; it is Satisfying the required criteria for graded aggregate of 20 mm nominal size.

3.	Coarse Sand:	i) Silt & Clay by S.A. method	: - 5.20 %
	(L.S.No.5294)	ii) Silt by sedimentation	: - 5.55 %
		iii) Fineness Modulus	: - 2.57 %
		iv) Grading Zone	: - II

<u>REMARK</u>: The observed results are within the permissible limits of the Coarse sand.

4.	<u>Cement</u> :	i) Fineness of Cement	: 1.26 % (It should not be more than 10%)
	Jyoti Cement, bearing IS:269	ii) Consistency of cement	: 32.50 % (It should be in the neighborhood of 35%)
	Ordinary Portland cement,	iii) Initial Setting Time	: 155 minutes (It should not be less than 30 minutes)
	Manuf. date:W, M, Y-2022	iv) Final Setting Time	: 320 minutes (It should not be more than 600 minutes)
	CM/L = 6894808		

Qty. rep. – --.

To be used for - **<u>REMARK: The observed results are within the permissible limit for Ordinary Portland cement.</u>**

Copy to: 1. The Assistant Engineer, SD I, WD I, W.R.D. Porvorim -Goa.

2. Copy Submitted to The Superintending Engineer, CPO, WRD, Sinchai Bhavan Porvorim-Goa for kind Information

3. Copy Submitted to The Executive Engineer, WD I, W.R.D., Porvorim - Goa

4. Q.C. Lab file 5. Bill File.

Assistant Engineer