GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

 Test Report No.:
 WRD/Q.C. / F.6-4 /Aggr-T- 203,204/Lab/193/2022-23
 Dated: 17/11/2022.
 Laboratory:
 Bicholim-Goa

 Sand -T: 5314,5315
 Cement-T: 1385
 Sub Div:
 V (QC)/W.D.VIII/Bicholim Goa.

 Sub:
 Construction of 10cm thick PCC lining for canal from ch.15.000 km to ch. 18.000 km of LBMC of TIP in Thivim and Sircaim Villages of Bardez Taluka.

Ref to requisition No:- S.D.II/W.D.VIII/WRD/F.154/2022-23/81 Dated: 01/11/2022.

Oty. Received:1 bags eachDate of Receipt:10/11/2022Tested on:11,14 & 15/11/2022.Ref to Specification:CPWD 2009, Vol. I&IS: 4031-4-1968Sample:Sand, 20mm,O.S. No. 9468,9475,9476,9466,9467/SS.Lab. Sample No.:5377 To 5381Tested 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	o. Description of sample	Tested for	Results	Max. /Min. value permissible	Remark	
1.	<u>Cement</u> :	i) Fineness of Cement	:- 1.28 %	(It should not be more than 10%)		
	Dalmia Cement, bearing IS:269	ii) Consistency of ceme	nt :- 33.50 % (It shou)	d be in the neighborhood of 35%)		
	Ordinary Portland cement,	iii) Initial Setting Time	:- 175 minutes	(It should not be less than 30 minutes		
	Manuf. date:W-01, M-10, Y- 202	iv) Final Setting Time	:- 330 minutes (It	should not be more than 600 minutes)		
	CM/L = 6200022577					
	Qty. rep. – <u></u>					
	To be used for REMARK: The observed results are within the permissible limit for Ordinary Portland cement.					
2.	Crushed Sand:	· · ·		eleterious material is 15.00% for crushed sand)		
	(L.S.No.5378)	ii) Silt by sedimentation	:- 12.82%			
		iii) Fineness Modulus	:- 2.62%			
		iv) Grading Zone	:- II			
	REMARK	:The observed results are with	nin the permissible limi	ts for crushed sand (Fine Aggregate) vide table 2	of IS 383: 2016(Clause 5.2.1).	
3.	Coarse Sand :	i) Silt & Clay by S.A. method	1 :- 3.50 %			
	(L.S.No.5379)	ii) Silt by sedimentation	:- 4.65 %			
		iii) Fineness Modulus	:- 2.97 %			
		iv) Grading Zone	:- II			
	<u>REMARK</u> : The observed results are within the permissible limits of the Coarse sand.					
4.			s single sized aggregate	3		
5.		Particle size distribution: It is	not single sized aggreg	ate of 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.					
		Sausiying the required t		-Save of 20 min nominal pile.		

Copy to:1. The Assistant Engineer, SD II, WD VIII, W.R.D. Thivim Bardez-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 VIII, W.R.D. Karaswada Bardez-Goa.

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

Junior Engineer

Assistant Engineer