GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

 Test Report No.:
 WRD/Q.C./ F.6-4 /Aggr-T- 9973,9974/Lab/285/2021-22
 Dated: 05/02/2022.
 Laboratory: Bicholim

 Sand -T: 5237, 5238, 5239
 Cement-T: 1325
 Sub Div: V(QC)/W.D.VIII/Bicholim Goa.

 Sub:
 Construction of Protection wall for Nalla along the Survey No 143/11 & 142/13 at Ambegal – Pale in sankhalim Constituency of Bicholim Taluka.

 Ref to requisition No: F.241/WRD/WDVI/SDI/433/20-21
 Dated :- 19/01/2022

 Qty. Received:
 1 bags each
 Date of Receipt: 22/01/2022
 Tested on: 25, 27, 28, 29 & 30/01/2022
 Ref to Specification: CPWD 2009, Vol. I&IS:4031-4-1968

 Sample:
 Sand, 20mm,
 O.S. No.7508,7509,7520,7528,7537 & 7466/S.S.
 Lab. Sample No.: 2799 To 2804
 Tested by: Mrs. S.B. Naik Shirodkar J.E.

 12.5mm size aggrt., Sand, Cement
 Date Of Different Officient Off

R E P O RT 01 OF 02

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remark			
1. 2.	20 mm Size Aggregate: 12.5 mm Size Aggregate:	Particle size distribution:	It is single sized again to the size of th	gregate of 20 mm nominal size. (Qty. rep. – l aggregate 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 therequired criteria for graded aggregate of 20 mm nominal size.							
3.	Coarse Sand: (L.S.No.2801)	i) Silt & Clay by S.A. methodisii) Silt by sedimentationiii) Fineness Modulusiv) Grading Zone	: - 5.40%					
<u>REMARK</u> : The observed results are within the permissible limits of the coarse sand.								
4.	<u>Fine Sand:</u> (L.S.No.2802)	i) Silt & Clay by S.A. methodii) Silt by sedimentationiii) Fineness Modulusiv) Grading Zone	: - 5.71% : - 2.05%					
	To be used for <u>REMARK</u>: The observed results are within the permissible limits of the Fine sand.							

Junior Engineer

GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

<u>Test Report No.</u>: WRD/Q.C./ F.6-4 /Aggr-T- 9973,9974/Lab/285/2021-22 Dated: 05/02/2022. Sand –T: 5237, 5238, 5239 Cement-T: 1325 Sub Div

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

Sub:Construction of Protection wall for Nalla along the Survey No 143/11 & 142/13 at Ambegal – Pale in sankhalim Constituency of Bicholim Taluka.Ref to requisition No:-F.241/WRD/WDVI/SDI/433/20-21Dated :-19/01/2022

 Oty. Received: 1 bags each
 Date of Receipt: 22/01/2022
 Tested on: 25, 27, 28, 29 & 30/01/2022
 Ref to Specification: CPWD 2009, Vol. I&IS:4031-4-1968

 Sample:Sand,20mm,
 O.S. No.7508,7509,7520,7528,7537 & 7466/S.S.
 Lab. Sample No.: 2799
 To 2804
 Tested by: Mrs. S.B. Naik Shirodkar J.E.

 12.5mm size aggrt., Sand, Cement

R E P O RT 02 OF 02

Sr. No.	Description of sample	Tested for	Res	sults	Max. /Min. value permissible	Remark
5.	Crushed Sand:	i) Silt & Clay by S.A. method	: -	14.40%(Limit of	f Deleterious material is 15.00% fo	or crushed sand)
	(L.S.No.2803)	ii) Silt by sedimentation	: -	14.63%		
		iii) Fineness Modulus	: -	2.13%		
		iv) Grading Zone	: -	III		

<u>REMARK</u>: The observed results are within the permissible limits for crushed sand (Fine Aggregate) vide table 2 of IS 383: 2016(Clause 5.2.1).

6.	Cement:	i) Fineness of Cement	: 1.33% (It should not be more than 10%)			
	J.K 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	: 160 minutes (It should not be less than 30 minutes)			
	Manuf. date: W - 02, M- 01, Y- 2022	iv) Final Setting Time	: 310 minutes (It should not be more than 600 minutes)			
	CM/L = 0003401033					
	Qty. rep. – <u></u> .					
	To be used for – REMARK: The observed results are within the permissible limit for Ordinary Portland cement.					

Copy to: 1. The Assistant Engineer, SDI, WDVI, WRD, Bicholim-Goa.

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

3. Copy Submitted to The Executive Engineer, WDVI, WRD, Bicholim – Goa

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

Junior Engineer

Assistant Engineer