GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

 Test Report No.: WRD/Q.C./ F.6-4 /Aggr-T-9913,9914 /Lab/212/2021-22
 Dated: 22/11/2021.
 Laboratory: Bicholim

 Sand -T:5197,5198
 Laterite-T:0448
 Cement-T:1294
 Sub Div: V(QC)/W.D.VIII/Bicholim Goa.

 Sub: Construction of Protection wall for the Bund of Paddy field from Luiza Vaz house to cantorlem vau at Gavana, chodan in Mayem constituency.

 Ref to requisition No:-F. /WRD/WDVI/SDI/W.236/21-22/320
 Dated: 02/11/2021.

 Oty. Received: 1 bags each
 Date of Receipt: 11/11/2021
 Tested on:16,17 & 18 /11/2021
 Ref to Specification: CPWD 2009, Vol. I&IS:4031-4-1968

 Sample:Sand,20mm,
 O.S. No.
 7083,7084,7086,7087,7092 & 7085 /SS
 Lab. Sample No.: 2348 To 2353
 Tested by: Mrs.Shirodkar.JE.

 12.5mm size aggrt., Laterite Stone, Cement
 Stone, Cement
 Stone, Cement
 Stone, Cement

R E P O RT 01 OF 02

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value p	ermissible I	Remark			
1. 2.	20 mm Size Aggregate: 12.5 mm Size Aggregate:	Particle size distribution: Particle size distribution:	It is single sized aggregate It is not single sized aggre			$\binom{3}{1}$			
	<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 <u>Sand:</u> (L.S.No.2350)	i) Silt & Clay by S.A. metii) Silt by sedimentationiii) Fineness Modulusiv) Grading Zone	:- 5.40%	(L.S.No.2351)	 i) Silt & Clay by S.A. ii) Silt by sedimentati iii) Fineness Modulus iv) Grading Zone 	on :- 5.20			
	<u>REMARK</u>: The observed results are within the permissible limits of the coarse and Fine sand.								
5.	<u>Laterite stone</u>	A) Compressive strength to	est: - i) 41.65 Kg /cm ² ii) 44.59 Kg /cm ² \underline{iii} 40.77 Kg /cm ² Avg. 42.33 Kg/cm ²	35.00kg/cm ²					
	Remark : - The average Compressive strength achieved is 20.96% More than the specified value of 35.00 Kg/cm ² .								
		B) Water Absorption Test.	ii) 10.60 % iii 11.00 %	-	-				
	Romark: The average v	vater absorption is 10.80%,le	Avg. 10.80 %	12.00 % pissible limit of 12.00 %	4				
	<u>Memark</u> . The average v	valer absorption is 10.80 /0,10	ss than the maximum perm		υ.				

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 22/11/2021.
 Laboratory:
 Bicholim

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 5197,5198
 Laterite-T:
 0448
 Cement-1294
 Sub Div:
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R E P O RT 02 OF 02

Sr. No.	Description of sample T	ested for	Results	Max. /Min. value permissible	Remark			
6.	Cement:		i)Fineness of Cement	: 1.16% (It should not be	more than 10%)			
	J.KCement, bearing IS:269 Ordinary Portland cement,		ii) Consistency of cement	: 31.50% (It should be in the neighborhood of 35%)				
			iii) Initial Setting Time : 165 minutes (It should not be less than 30		,			
	Manuf. date:W- 43 M-10 Y	ear: 2021 .	iv) Final Setting Time	: 330 minutes (It should not be more	/			
	CM/L =0003401033		, 5	× ×	/			
	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, W.D.VI, WRD, Bicholim – Goa

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

Junior Engineer

Assistant Engineer