GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

<u>Test Report No.</u>: WRD/Q.C./F.6-4/Aggr-T- 9797, 9798 /Lab/299/2020-21 Dated: 16/ 03/2021. Sand –T: 5124&5125 .Cement-1235 Sub

21. <u>Laboratory</u>: Bicholim Sub Div: V (QC)/WRD/Bicholim Goa.

Sub: Improvement of existing canal in the field of 1)Sada Gaonkar to Uday Gaonkar field 2)Dattaram Gawade to Vasu Gaonkar field of lift irrigation Scheme VantemV.P.Bhironda in Sattari Taluka

<u>Ref to requisition No</u>: MIN/WDVI/WRD/SDII/F.62/20-21/521 Dated: 25/02/2021.

Qty. Received:1 bags eachDate of Receipt:09/03/2021Tested on:15&16/03/2021Ref to Specification:CPWD 2009, Vol. I&IS:4031-4-1968Sample:Sand,20mm,O.S. No.5411,5412,5420,5421,5410 /SSLab. Sample No.:801 To 805Tested by:Mrs. S. B. Naik Shirodkar.JE.12.5mm size aggrt., Cement

R E P O RT 01 OF 02

Sr. No.	Description of sam	ple Tested for	Results	Max. /Min. value permissible	Remarks				
1.	20 mm Size Aggre		It is single sized ag	gregate of 20 mm nominal size. (Qty. rep. – d aggregate of 12.5 mm nominal size. (Qty. rep. –	m ³)				
2.	<u>12.5 mm Size Aggr</u>	regate: Particle size distribution:	It is not single sized	d 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.		i) Silt & Clay by S.A. method : - ii) Silt by sedimentation : -							
	j	ii) Fineness Modulus : -	2.11						
To be		v) Grading Zone : - <u>K</u> : The observed results are with		ts of the coarse sand.					
4.	CrushedSand:	i) Silt & Clay by S.A. method	: - 13.20% (Limit of D	eleterious material is 15.00% for crushed sand)					
	(L.S.No.803)	ii) Silt by sedimentation							
		,	: - 2.65						
		iv) Grading Zone	:						

R E P O RT 02 OF 02

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks	
5.	<u>Cement</u> :		i)Fineness of Cement	: 1.11% (It should not be more than 10%)		
	JK.Cement, bearing IS:269		ii) Consistency of cement : % (It should be in the neighborhood of 35%)			
	Ordinary Portland cement,		iii) Initial Setting Time : 165 minutes (It should not be less than 30 minutes)			
	Manuf. date: Week <u>05</u> , Month <u>02</u> , Year' <u>2021</u>		iv) Final Setting Time	: 315 minutes (It should not be	e more than 600 minutes)	
	CM/L = <u>0003401033</u>		_			
	Qty. rep. –.					
	To be used for – REMARK: The observed results are within the permissible limit for Ordinary Portland cement.					

Copy to: 1. The Assistant Engineer, SDII, WDVI, WRD, Valpoi-Sattari – Goa.

Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.
Copy Submitted to The Executive Engineer, W.D. VI, WRD, Bicholim – Goa

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

Junior Engineer

Assistant Engineer