GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

<u>Test Report No.</u>: WRD/Q.C./F.6-4/Aggr-T- 9823, 9824 /Lab/22/2021-22 Dated: 22/04/2021. <u>Laboratory</u>: Bicholim

Sand -T: 5142&5143 .Cement-1250

Sub Div: V (QC)/WRD/Bicholim Goa.

<u>Sub</u>: Construction of Bandhara (Rajwalachobandh) at village Golauli in V.P.Dongurli Thane in Sattari Taluka.

Ref to requisition No: MIN/WDVI/WRD/SDII/F.62/21-22/13 Dated: 12/04/2021.

Qty. Received: 1 bags each **Date of Receipt**: 12/04/2021 **Tested on**: 15,16&17/04/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample:Sand,20mm, **O.S. No.**5873,5874,5894,5907 & 5864 /SS **Lab. Sample No.**: 1164 To1168 **Tested by**: Mrs. Shirodkar.JE.

12.5mm size aggrt., Cement REPORT 01 OF 02

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks			
1. 2.	20 mm Size Aggregate: 12.5 mm Size Aggregat		It is single sized agg It is not single sized	gregate of 20 mm nominal size. (Qty. repaggregate of 12.5 mm nominal size. (Qty. rep	pm^3 pm^3			
	<u>REMARK</u> :After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of $\underline{1:1}$ by weight; it is satisfying therequired criteria for graded aggregate of 20 mm nominal size.							
3.	<u>Sand:</u> (L.S.No.1167)	 i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone <u>REMARK</u>: The observed 	: - 5.20% : - 2.94 : - II	ne permissible limits of the coarse sand.				
4.	(L.S.No.1166)	ii) Fineness Modulus	: - 13.20%(Limit of : - 12.50% : - 2.78 - II	Deleterious material is 15.00% for crushed san	nd)			

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Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks		
5.	Cement: Ultratech.Cement, bearing IS:269		ii) Consistency of cement	: 1.28% (It should not be more than 10%) at : 31.50% (It should be in the neighborhood of 35%)			
	Ordinary Portland cement, Manuf. date:W/M-Invisible		iii) Initial Setting Timeiv) Final Setting Time	`	165 minutes (It should not be less than 30 minutes) 195 minutes (It should not be more than 600 minutes)		
	CM/L = 7171769		,	· ·	,		
	Qty. rep. $-$. To be used for $-1:2:4$	To be used for – 1:2:4&1:1.5:3mix concrete REMARK: The observed results are within the permissible limit for Ordinary Portland cemen					

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

- 2. Copy Submitted to The Superintending Engineer, CPO, WRD, 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