GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

<u>Test Report No.</u>: WRD/Q.C./F.6-4/ Aggr-T- 9488 To 9491,Sand-T-4946,4947, Cement-T-1116/Lab/ 319 / 2019-20 Dated: 04 / 12 / 2019.

<u>Laboratory</u>: Bicholim – Goa.

Sub DivV/ (QC)/WRD/Bicholim – Goa.

Sub: - Providing RCC lining for B/2 Distributory from Ch. 0.000 Km To Ch. 2.150 Km of R.B.M.C. of T.I.P. in V.P Allorna in Pernem Taluka

Ref to requisition No: WRD/ SD IV/ WDVII / F10/ 2019-20/**180** Dated: - 29 /11 / 2019

3. Submitted to The Executive Engineer, W.D. VII, WRD, Dhargal – Pernem – Goa

Qty. Received: 1 bags each **Date of Receipt:** 29/11/2019 **Tested on:** 29 & 30/11/2019 **Ref to Specification:** CPWD 2002, Vol. I & IS: 4031, 1968

Sample: 20mm, 12mm size aggrt. Sand(2Nos), Dalmia, cement 43 grade O.S. No.: 1176/AF to 1182/AF Lab. Sample No.: 7044 TO 7050. Tested by: Mr. Anil R. Fadte, J.E.

Sr. No.	Description of sample	Tested for		Results	Max. /Min. value perm	issible	Remarks		
	•				•				
1.	20 mm Size Aggregate:	Particle size distribut	ion: It is	s single sized a	ggregate of 20 mm nominal size	(Qty	rep.)		
	(L.S.No 7044 & 7045)	5				(0)			
2.	12 mm Size Aggregate:	Particle size distribut	tion: It is not single sized aggregate of 12.5 mm nominal size. (Qty rep.)						
	(L.S.No 7046 & 7047)	: 20	h 10	444	4:				
<u>REMARK</u> : After blending 20 mm aggregate with 12 mm aggregates at the ratio of <u>1:2</u> by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.									
3.	Coarse Sand:	i) Silt & Clay by S.A. me			· (Qty. rep.)				
3.	(L. S. No. 7048)	ii) Silt by sedimentation			(Qty. 1cp.)				
	· · · · · · · · · · · · · · · · · · ·	iii) Fineness Modulus	:		•				
		iv) Grading Zone	: -						
	REMARK: The observe	,	ermissible	limits of the (Coarse Sand.				
3.	Coase Sand: -	i) Silt & Clay by S.A. me			(Qty. rep.)				
	(L.S.No.7049)	ii) Silt by sedimentation	: -	5.32 %					
		iii) Fineness Modulus	:-						
		iv) Grading Zone	: -						
_	REMARK: The observed results are within the permissible limits of the Coarse Sand.								
4.	Dalmia Cement:		<i>'</i>	of Cement	: 1.10 % (It should		· · · · · · · · · · · · · · · · · · ·		
	Dalmia. cement. OPC,43 Grade		ii) Consistency of cement			_	· · · · · · · · · · · · · · · · · · ·		
	Ordinary Portland cement, Manuf. date: Week 46, Month 11, Year'2019.		iii) Initial Setting Time		: 135 Minutes (It should not		,		
	CM/L = 6200022577	onth 11, Year <u>2019</u> .	iv) Final Setting Time		: 260 Minutes (It should not be	e more than	1 600 minutes)		
	Qty. rep. To be used for – For PCC 1:3:6,RCC1:1.5:3.								
REMARK:- The observed results are within the permissible limit for tested Ordinary Portland cement.									
Conv 1	to: 1. The Assistant Engineer,								
сору (2. Submitted to The Super		_						
2. Submitted to The Superintending Engineer, et 6, 11 to 10 time Courts kind information.									

4. Q.C. Lab file 5. Bill File Junior Engineer Assistant Engineer