GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

<u>Sub</u> :- l Canal, <u>Ref to re</u> Qty. Rec		Cement-T:- 1456. interstate Tillari Irrigation I inces for ch. 6.20 kms to 17 /DVII/WRD/23-24/52 D Receipt:- 04/07/2023 Test	Project Canal r .470 kms. ated :- 30/06/2 ed on :- 05,06,	2023	Sub Div: V (QC)/WRD/Bicher Strengthening and modifications	olim Goa. of Right Bank Main Canal TIP 009, Vol. I&IS:4031-4-1968	
	mm size Aggr, and Cement			O RT 01 OF 01	<u></u>		
Sr. No.	Description of sample	Tested for	Resu	lts N	/lax. /Min. value permissible	Remarks	
1.	<u>20.00 mm Size Aggregate</u> : Particle size distribution: It is single sized aggregate of 20 mm nominal size. (Qty. rep. m^3)						
2.	<u>12.5 mm Size Aggregate</u> : Particle size distribution: It is not single sized 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 the required criteria for graded aggregate of 20 mm nominal size.							
3.	Crushed Sand: (L.S.No.7640)i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone			:- 10.20% (Limit o :- 9.57% :- 3.07% :- I	f Deleterious material is 15.00	9% for crushed sand)	
	REMARK: The observed results are within the permissible limits for crushed sand (Fine Aggregate) vide table 2 of IS 383: 2016(Clause 5.2.1).						
4.	Cement:	i) Fineness	-	:- 1.19%	(It should not be more than	n 10%)	
	JK Super Cement, bearing		cy of cement	•	ould be in the neighborhood of 3	·	
	Ordinary Portland cement, iii) Initial Setting Time		•	:- 175 minutes (It should not be less than 30 minutes)			
	Manuf. date: W-25,M-05,	Y-2023 iv) Final Set	ting Time	:- 320 minutes	(It should not be more than 600) minutes)	
	CM/L = 0003401033						
	Qty. rep. –. To be used for - <u>REMAR</u>	K: The observed results a	re within the	permissible limit for	Ordinary Portland cement.		

Copy to:1. The Assistant Engineer, SDI, WDVII, WRD, Dhargal Pernem– Goa.

2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.

3. Copy Submitted to The Executive Engineer, WDVII, WRD, Dhargal Pernem–Goa.

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