GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

Test Report No.: WRD/Q.C./F.6-4/ Aggr-T- 9540, 9541, Sand-T-4975, Cement-T-1137 /Lab/ 404 / 2019-20 Dated: 25 / 01 / 2020.

Laboratory: Bicholim –Goa.

Sub DivV/ (QC)/WRD/Bicholim – Goa.

Sub: Improvement to canal lining by providing RCC lining on down stream of Kasarvornem Aquaduct at Ch. 12.400 km of R.B.M.C. of T.I.P. at village Kasarvornem in Pernem Taluka.

<u>Ref to requisition No</u>: SDI/WDVII/WRD/F.354/19-20/315 Dated : - 20 / 01 / 2020

<u>Oty. Received</u>: 1 bags each **<u>Date of Receipt</u>**: 22 / 01 / 2020 **<u>Tested on</u>**: 23 & 24/01/2020 **<u>Ref to Specification</u>**: CPWD 2009, Vol. I & IS: 4031, 1968

Sample: 20mm, 12mm size aggrt. Sand, J.K. cement 43 grade O.S. No. : 1590/AF to 1593/AF Lab. Sample No.: 7693 TO 7696.

Tested by: Mr. Anil R. Fadte , J.E.

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
1.	20 mm Size Aggregate:	Particle size distribution:	It is single sized a	ggregate of 20 mm nominal size (Qty.	- rep.)
2.	12 mm Size Aggregate:	Particle size distribution:	It is not single size	ed aggregate of 12.5 mm nominal size. (Qty.	- rep.)
		ng 20 mm aggregate with 12 teria for graded aggregate of	66 6	the ratio of <u>1:2</u> by weight; it is satisfying the	e
3.		 i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone ed results are within the period 	: - 5.10 % : - 2.53 : - II	(Qty. rep.) coarse sand.	
4.	J.K. Super Cement: J.K. cement. OPC,43 Grade Ordinary Portland cement, Manuf. date: Week 51, Month 12, Year' <u>2019</u> . CM/L =0003401033 Qty. rep. To be used for – For PCC 1:3:6,& R.C		neness of Cement onsistency of cement itial Setting Time inal Setting Time	 : 1.33 % (It should not be mor : 31.00 % (It should be in the neighborho : 150 Minutes (It should not be less tha : 360 Minutes (It should not be more that) 	bod of 35%) n 30 minutes)

REMARK:- The observed results are within the permissible limit for tested Ordinary Portland cement.

Copy to: 1. The Assistant Engineer, S. D. I, WD VII, WRD , Dhargal – Pernem – Goa. 2. Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information. 3. Submitted to The Executive Engineer, W.D. VII, WRD, Dhargal – Pernem – Goa 4. Q.C. Lab file 5. Bill File Junior Engineer