GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

<u>Test Report No.</u>: WRD/Q.C./F.6-4/ Aggr-T- 9478 TO 9479, Sand-T-4940, 4941, Cement-T-1113 / Lab/ 316 / 2019-20 Dated: 04 / 12 / 2019.

<u>Laboratory</u>: Bicholim – Goa.

Sub DivV/ (QC)/WRD/Bicholim – Goa.

<u>Sub</u>: Annual Cleaning and Maintenance of Minor 1,2,3 of Lift Irrigation Scheme No. 3 of R.B.M.C. of T.I.P. at village Nagzar and Varkhand in Pernem Taluka for the Year 2019-20.

Ref to requisition No: WRD/ SD I/ WDVII / F359/ 2019-20/**221** Dated: - 2 6 /11 / 2019

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

5. Bill File

Sample: 20mm, 12mm size aggrt. Sand(2Nos), J,K, cement 43 grade **O.S. No.**: 1156/AF to 1160/AF **Lab. Sample No.**: 7028 TO 7032.

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

4. Q.C. Lab file

Sr. No.	Description of sample	Tested for	Results	Max./Min. value permissible	Remarks	
1.	20 mm Size Aggregate (L.S.No 7028)	Particle size distribution:	It is single sized a	aggregate of 20 mm nominal size (Qty rep	p.)	
2.	12 mm Size Aggregate (L.S.No 7029)	Particle size distribution:	It is not single siz	ed aggregate of 12.5 mm nominal size. (Qty rep	0.)	
	<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.	<u>Coarse Sand:</u> - (L. S. No. 7030)	i) Silt & Clay by S.A. methodii) Silt by sedimentationiii) Fineness Modulusiv) Grading Zone	: - 4.20 % : - 4.25 % : - 2.51 : - II	(Qty. rep.)		
	REMARK: The observ	ed results are within the permi		Coarse Sand.		
3.	Fine Sand: - (L.S.No.7031)	i) Silt & Clay by S.A. methodii) Silt by sedimentationiii) Fineness Modulusiv) Grading Zone	:- 4.80 % :- 5.32 % :- 1.95 :- IV.	(Qty. rep.)		
	REMARK: The observ	ed results are within the permi	ssible limits of the l	Fine Sand.		
4.	J,K., Super Cement: J.K. cement. OPC,43 Grade Ordinary Portland cement, ii) F iii) Co		neness of Cement nsistency of cement tial Setting Time nal Setting Time	: 1.391 % (It should not be more the : 31.50 % (It should be in the neighborhood of : 140 Minutes (It should not be less than 30 : 250 Minutes (It should not be more than 600	f 35%) minutes)	
	CM/L =0003401033 Qty. rep. To be used for	- For PCC 1:3:6,1:2:4.	missible limit for te	sted Ordinary Portland cement.	,	
Copy		, S. D. I, WD VII, WRD , Dharg		DOG OF WILLIAM I A COMMING COMMING		
P J	_	rintending Engineer, CPO, WRD		r kind information.		

Junior Engineer

Assistant Engineer