GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

<u>Test Report No.</u>: WRD/Q.C./F.6-4/ Aggr -T- 9414, 9415 /Lab/ 275 /2019-20 Dated: 23/ 09/ 2019.

Sand -T: 4902,4903 & Cement: 1097

Sub Div: V (QC)/WRD/Bicholim

Laboratory: Bicholim

<u>Sub</u>: Construction of Anjuna Distributory taking off at ch. 28.97 km of the Left Bank main canal of Tillari Irrigation Project in Siolim & Anjuna Village of Bardez Taluka. **Part I**: Construction of pump house, manifold and supply & installation of pumps and Motors, Transformer Substation, Electrical accessories and internal wiring for Anjuna Distributory near ch.28.970 kms of LBMC of TIP at Village Cucholim of Bardez Taluka..

Ref to requisition No: SDIII/WDVIII/WRD/WF. 32(PART- I)/2019-20/134 Dated: 10/09/2019.

Qty. Received: 1 bags each **Date of Receipt**: 18/09/2019 **Tested on**: 19/09/2019 to 23/09/2019 **Ref to Specification:** CPWD 2002, Vol. I & IS:4031-4-1988

Sample: Sand ,20mm, **O.S. No. :** 2701 to 2705 /SS **Lab. Sample No.**: 6774 TO 6778 **Tested by**: Mrs. S. B. Naik Shirodkar.JE.

10.0mm size aggrt, cement

REPORT 01 OF 02

Sr. No.	Description of samp	ple Tested for	Results	Max. /Min. value permissible	Remarks
1.	20 mm Size Aggr	regate: Particle size distribution	: It is single sized	aggregate of 20 mm nominal size. (Qty. rep	$p 100.00 \text{ m}^3$
2.	10.0 mm Size Ag	gregate: Particle size distribution	: It is not single siz	ed aggregate of 10.0 mm nominal size. (Qty. re	$p 100.00 \text{ m}^3$
		cotictaina	tha ragnirad aritaria t	for graded aggregate of 20 mm naminal size	
3.	Coarse Sand:	i) Silt & Clay by S.A. method	•	for graded aggregate of 20 mm nominal size.	
3.	Coarse Sand: (L.S.No.6776)	• 0	:- 3.20%	for graded aggregate of 20 mm nominal size.	
3.		i) Silt & Clay by S.A. method	:- 3.20%	for graded aggregate of 20 mm nominal size.	
3.		i) Silt & Clay by S.A. method ii) Silt by sedimentation	: - 3.20% : - 4.76 %	for graded aggregate of 20 mm nominal size.	

4. <u>M. Sand:</u>
(L.S.No.6777)

i) Silt & Clay by S.A. method : - 9.20%
ii) Silt by sedimentation : - 13.63%
iii) Fineness Modulus : - 3.12

iv) Grading Zone :- I

REMARK: The observed results are within the permissible limits of the Coarse sand. (As per IS 383:2016 clause 5.2.1-Table 2)

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Sand -T: 4902,4903 & Cement: 1097

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Sample: Sand ,20mm, O.S. No.: 2701 to 2705 /SS Lab. Sample No.: 6774 TO 6778 Tested by: Mrs. S. B. Naik Shirodkar.JE.

10.0mm size aggrt, cement

REPORT 02 OF 02

Sr. No.	Description of sample Tested f	or Results	Max./Min. value permissible	Remarks	
5.	Cement:	,	: 1.13 % (It should not be more	,	
	Zuari cement, bearing IS: Ordinary Portland cement, Manuf. date: Week 36, Month 09 Year CM/L = 0006077671	iii) Initial Setting Time	t : 30.50% (It should be in the neighborhood of 35%) : 175 minutes (It should not be less than 30 minutes) : 310 minutes (It should not be more than 600 minutes)		

To be used for – 1:1.5:3 Grade Concrete for Slab and columns of pump house.

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

Copy to: 1. The Assistant Engineer, SDIII, WDVIII, Karaswada Bardez – Goa

- 2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim Goa for kind information.
- 3. Copy Submitted to The Executive Engineer, W.D.VIII, WRD, , Karaswada Bardez Goa .
- 4. Q.C. Lab file
- 5. Bill File.