

**GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT**

Test Report No.: WRD/Q.C./F.6-4/ Aggr-T- 9578,9579 / Lab / 2019-20 / **481** Dated: 07 / 03 / 2020. **Laboratory:** Bicholim - Goa

Sand –T: 4999, Cement – T : 1150

Sub Div: V (QC)/WRD/Bicholim – Goa

Sub:- Construction of field channels for DWC 1 R takes off from Ch. 24.175 kms and D.O. 1 R Takes off from Ch. 24.761 Km of LBMC of TIP at Colvale Village of Bardez Taluka.

Ref to requisition No: SD I / WDVIII /WRD / W.F. 7 /2019-20/ 192 Dated: - 30 / 01 / 2020.

Qty. Received: 1 bags each **Date of Receipt-** : 27/02/2020 **Tested on:** 27/02/2020 To 28/02/2020 **Ref to Specification:** CPWD 2009, Vol. I., IS: 4031-4-1968.

Sample:- Sand, 20mm, **O.S. No. :** 3296 To 3298,3306 /SS **Lab. Sample No.:** 8155 To 8158 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.
12.50mm size aggrt & Cement

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 aggregate of 20 mm nominal size.	(Qty. rep. – -----m ³)	
2.	12.50 mm Size Aggregate:	Particle size distribution:	It is not single sized aggregate of 12.50 mm nominal size.	(Qty. rep. – ----- m ³)	
REMARK:- After blending 20 mm aggregate with 12.50 mm aggregates at the ratio of 1:2 by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.					
3.	Coarse Sand: (L.S.No.8157)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4 . 00 % : - 4. 54 % : - 2. 28 : - III		
REMARK: The observed results are within the permissible limits of the coarse sand.					
4 .	Cement:- J.K Brand ,43 Grade cement Ordinary Portland cement, Manuf. date: Week <u>06</u> , Month <u>02</u> Year' <u>2020</u> . To be used for – 1:2:4 Concrete	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: - 0.98 % : - 31.50 % : - 165 minutes : - 290 minutes	----- (It should not be more than 10%) (It should be in the neighborhood of 35%) ---- (It should not be less than 30 minutes) -- (It should not be more than 600 minutes)	
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.

Junior Engineer

Assistant Engineer

