GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DEPARTMENT

Test Report No.: WRD/Q.C. / F.14 /Aggr-T- 185,186/Lab/ 171/2022-23 Dated: 13/10/2022.

Laboratory: Bicholim-Goa

Sand -T: 5303, 5304. Cement-T: 1376

Sub Div: V (QC)/W.D.VIII/Bicholim Goa.

Sub: "Constructions of Tail Minor, DO's, WC's and FC' sof B/4 Distributary and DWC 19L off taking at Ch 18.005 km of R B C of TIP at Village Dhargal In

Pernem Taluka."

Ref to requisition No:- SDVI/WDVII/WRD/F.14/2022-23/73

Dated: 28/09/2022.

Oty. Received: 1 bags each

Date of Receipt: 10/10/2022 **Tested on**: 10,11 & 12/10/2022 **Ref to Specification**: CPWD 2009, Vol. I&IS: 4031-4-1968

Sample: Sand, 20mm, **O.S. No.** 9365, 9366,9367,9370,9359. **Lab. Sample No.**: 5283 To 5287 **Tested by**: Mrs. S.B. Naik Shirodkar J.E.

12.50mm size Aggr, Sand, and Cement

REPORT 01 OF 02

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remark
1.	20 mm Size Aggregate:	Particle size distribution:	t is single sized ag	gregate of 20.00 mm nominal size. (Qty. re	$p 45.00 \text{ m}^3$
2.	12.50 mm Size Aggregate:			d aggregate of 12.50 mm nominal size. (Qty. rep	
				ith 12.50 mm aggregates at the ratio of <u>1:1</u> by graded aggregate of 20 mm nominal size.	weight; it is
3.	Coarse Sand:	i) Silt & Clay by S.A. method	: - 4.80 %		
	(L.S.No.5285)	ii) Silt by sedimentation	: - 5.80 %		
	(iii) Fineness Modulus	: - 2.34 %		
		iv) Grading Zone	: - III		
		,		the permissible limits of the coarse sand.	
4.	C- Sand	i) Silt & Clay by S.A. metho	d : - 11.10 %	(Limit of Deleterious material is 15.00% for	crushed sand)
	(L.S.No.5286)	ii) Silt by sedimentation	: - 13.88 %		
		iii) Fineness Modulus	: - 2.64 %		
		iv) Grading Zone	: - II		
	REMARK: The observed	,	ible limits for cru	shed sand (Fine Aggregate) vide table 2 of IS	383: 2016(Clause 5.2.1).

Junior Engineer

Assistant Engineer

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REPORT 02 OF 02

Sr. No.	Description of sample Tested	d for Results	Max. /Min. value permissible	Remark	
5.	<u>Cement:</u> JK Cement, bearing IS:269	i) Fineness of Cementii) Consistency of cement	: 1.25 % (It should not be more than 10%) : 32.00 % (It should be in the neighborhood of 35%)		
	Ordinary Portland cement, Manuf. date:W-40, M-10, Y-2022 CM/L = 0003401033	iii) Initial Setting Timeiv) Final Setting Time	: 165 minutes (It should not be less than 30 : 320 minutes (It should not be more than 60	,	
	Qty. rep. – 45.00 m ³ To be used for PCC 1:2:4 – REMARK: The observed results are within the permissible limit for Ordinary Portland cement.				

Copy to: 1. The Assistant Engineer, SDIV, WDVII, WRD, Dhargal-Pernem-Goa.

- 2. Copy Submitted to The Superintending Engineer, CPO, WRD, Sinchai Bhavan 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.

Junior Engineer

Assistant Engineer