GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DEPARTMENT

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 213,214/Lab/205/2022-23 Dated: 12/12/2022. Laboratory: Bicholim-Goa

Sand -T: 5320, Cement-T: 1390. Soil-T: 1544,1545.

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

Sub: Strengthening and Renovation of existing bund from Nerul bridge to Caculo house at Candolim Bardez - Goa.

Ref to requisition No:- SDII/WDI/WRD/F.24/2022-23/322

Dated: 25/11/2022.

Qty. Received: 1 bags each

Date of Receipt: 02/12/2022 **Tested on**: 06,07 & 08/12/2022 **Ref to Specification:** CPWD 2009, Vol. I&IS: 4031-4-1968

O.S. No. 9527,9528,9531,9521,9519,9520/SS. **Lab. Sample No.**: 5444 To 5448 **Tested by**: Mrs. S.B. Naik Shirodkar J.E. Sample: Sand, 20mm,

12.5mm size Aggr, Cement and Soil.

REPORT 01 OF 02

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value pern	nissible	Remark	
1.	20 mm Size Aggregate:	Particle size distribution:	It is single sized aggre	gate of 20.00 mm nominal size.	(Qty. repm	3)	
2.	12.5 mm Size Aggregate:	Particle size distribution:	It is not single sized aggregate of 12.5 mm nominal size. (Qty. repm ³)				
				12.5 mm aggregates at the ratided aggregate of 20 mm nomin		ight; it is	
						ight; it is	
3	Coarsa Sand:	Satisfying the req	uired criteria for gra			ight; it is	
3.	Coarse Sand: (L.S.No.5446)		uired criteria for gra			ight; it is	
3.		i) Silt & Clay by S.A. method	uired criteria for gra			ight; it is	

REMARK: The observed results are within the permissible limits of the coarse sand.

4. **Cement:**

JK Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W-47, M-11, Y-2022 i) Fineness of Cement :- 1.15 % ----- (It should not be more than 10%) ii) Consistency of cement :- 32.50 % (It should be in the neighborhood of 35%)

:- 160 minutes ---- (It should not be less than 30 minutes) iii) Initial Setting Time

iv) Final Setting Time :- 290 minutes -- (It should not be more than 600 minutes)

CM/L = 0003401033

Qty. rep. –

To be used for - **REMARK:** The observed results are within the permissible limit for Ordinary Portland cement.

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Sample: Sand, 20mm,

O.S. No. 9527,9528,9531,9521,9519,9520/SS. <u>Lab. Sample No.</u>: 5444 To 5448 <u>Tested by</u>: Mrs. S.B. Naik Shirodkar J.E.

12.5mm size Aggr, Cement and Soil.

REPORT 02 OF 02

Sr. No.	Description of sample	Tested for	Results	Max./Min.	Remark	
5.	Soil: I) Proctor Values		Values			
	(L.S.No.5448)	a) M.D.D	(from graph)	:- 1.872		
		b) O.M.C	(from graph)	: - 17.50 %		
		II. Sieve	Analysis			
		a) Si	It and Clay by Sieve Analysis	:- 50.90%		
		b) Fi	ne Sand	:- 0.40%		
		c) M	edium Sand	:- 17.50%		
		d) Co	parse Sand	:- 11.00%		
		e) Gi	ravel	:- 20.20%		

Copy to: 1. The Assistant Engineer, SDII, WDI, WRD, Mapusa Bardez-Goa.

- 2. Copy Submitted to The Superintending Engineer, CPO, WRD, Sinchai Bhavan Porvorim-Goa for kind Information
- 3. Copy Submitted to The Executive Engineer, WDI, WRD, Sinchai Bhavan Porvorim-Goa
- 4. Q.C. Lab file 5. Bill File.