GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

<u>Test Report No.</u>: WRD/Q.C. / F.6-4 /Aggr-T- 273,274/Lab/304/2022-23 Dated: 09/03/2023. <u>Laboratory</u>: Bicholim-Goa

Sand –T: 5363. Cement-T: 1421 Laterite Stone-T:- 0461. Sub Div: V (QC)/W.D.VIII/Bicholim Goa.

<u>Sub</u>: Improvement to existing tank in Sy.no.11 V.P. Karapure in Bicholim Taluka.

Ref to requisition No:- F.50/SDIV/WDVI/WRD/2022-23/203 Dated: 28/02/2023.

Qty. Received: 1 bags each **Date of Receipt**: 03/03/2023 **Tested on**: 04,05,07 & 08/03/2023 **Ref to Specification:** CPWD 2009, Vol. I&IS: 4031-4-1968

Sample: Sand, 20mm, **O.S. No.** 346,347,349,345,361/SS. **Lab. Sample No.**: 6368 To 6372 **Tested by:** Mrs. S.B. Naik Shirodkar J.E.

12.5mm size Aggr, Cement and Laterite Stone.

REPORT 01 OF 02

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remark					
1.	20 mm Size Aggregate:	Particle size distribu	ition: It is single sized a	aggregate of 20.00 mm nominal size. (Qty. rep	$- m^3$)					
2.	12.5 mm Size Aggregate:	Particle size distribu	•	ed aggregate of 12.5 mm nominal size. (Qty. rep.	à					
	<u>REMARK</u> : After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of <u>1:1</u> by weight; it is Satisfying the required criteria for graded aggregate of 20 mm nominal size.									
3.	Coarse Sand: (L.S.No.6370)	i) Silt & Clay by S.A. ii) Silt by sedimenta iii) Fineness Moduli iv) Grading Zone REMARK: The ob	ation : - 4.08 % us : - 3.55 % : - I	the permissible limits of the Coarse sand.						
4.	JK Super 43 Grade Cement, bearing IS:269 ii) Condinary Portland cement, iii) II		i) Fineness of Cementii) Consistency of cementiii) Initial Setting Timeiv) Final Setting Time	: 1.23 % (It should not be more that : 30.00 % (It should be in the neighborhood of : 150 minutes (It should not be less than 30 : 255 minutes (It should not be more than 60	35%) minutes)					

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.** 346,347,349,345,361/SS. **Lab. Sample No.**: 6368 To 6372 **Tested by**: Mrs. S.B. Naik Shirodkar J.E.

12.5mm size Aggr, Cement and Laterite Stone.

REPORT 02 OF 02

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remark			
5.	Laterite stone	A) Compressive strength test:	- i) 43.03 Kg/cm ² 35.00kg/c	m^2				
			ii) $40.77 \text{ Kg}/\text{cm}^2$					
			iii) 42.47 Kg /cm ²					
		Av	/g. 42.09 Kg/cm ²					
	Remark: - The average Compressive strength achieved is 20.25 %More than the specified value of 35 Kg/cm ² .							
		D) W						
		B) Water Absorption Tes	st :- 1) 9.64 %					
			ii) 9.89 %					
			iii) 10.49 %					

Remark: The average water absorption is 10.00 %,less than the maximum permissible limit of 12%.

Copy to: 1. The Assistant Engineer, SDIV, WDVI, WRD, Bicholim - Goa.

2. Copy Submitted to The Superintending Engineer, CPO, WRD, Sinchai Bhavan Porvorim-Goa for kind Information

Avg. 10.00 %

- 3. Copy Submitted to The Executive Engineer, WDVI, WRD, Bicholim Goa.
- 4. Q.C. Lab file 5. Bill File.