GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 263,264/Lab/288/2022-23

Dated:-23/02/2023.

Laboratory: Bicholim

Sand -T:- 5354. Cement-T:- 1415.

Sub Div: V (QC)/WRD/Bicholim Goa.

<u>Sub:-</u> Improvement to existing nallah from Fonseca house to the hall [Casa-do-Povo hall] V.P. St. Estevam in Cumbharjua Constituency.

Ref to requisition No:- WRD/MI/WDI/SDI/F.57/22-23/452

Dated :- 20/02/2023

Oty. Received: 1 bags each **Date of Receipt**:- 20/02/2023 **Tested on**:- 21 & 22/02/2023. **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, O.S. NO: - 256, 257, 284/SS & 954/RK. Lab. Sample No: - 6320 to 6323 Tested by: - Mrs. R.R. Kadam A.E. & Mrs. S. B. Naik Shirodkar J.E.

12.5mm size Aggr, and Cement

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Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
20.00 mm Size Aggregate:	Particle size distribution:	It is single sized aggreg	gate of 20 mm nominal size. (Qty. rep.	m^3)
12.5 mm Size Aggregate:	Particle size distribution:	It is not single sized ag	gregate of 12.5 mm nominal size. (Qty. rep.	$ m^3$)
		0 00 0		by weight; it is
Coarse Sand:	i) Silt & Clay b	y S.A. method : - 4.60%		
(L.S.No.6322)	ii) Silt by sedin	nentation : - 4.16%		
	iii) Fineness M	odulus : - 2.35%		
	iv) Grading Zo	ne :- III		
	REMARK: The	observed results are with	in the permissible limits of the Coarse san	d.
Cement:	i) Fine	ness of Cement :- 1.2	5% (It should not be more the	han 10%)
JK 43 Grade Cement, bearing IS:269 ii) Consi		sistency of cement :- 32.5	60% (It should be in the neighborhood of	f 35%)
Ordinary Portland cement, iii) Initia		tial Setting Time :- 130	minutes (It should not be less than ;	30 minutes)
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*	, ,	6		
	20.00 mm Size Aggregate: 12.5 mm Size Aggregate: Coarse Sand: (L.S.No.6322) Cement: JK 43 Grade Cement, beat Ordinary Portland cement	20.00 mm Size Aggregate: Particle size distribution: Parti	20.00 mm Size Aggregate: Particle size distribution: It is single sized aggregate: Particle size distribution: It is not single sized aggregate: Particle size distribution: It is not single sized aggregate was atisfying the required criteria for gases. Coarse Sand: (L.S.No.6322) i) Silt & Clay by S.A. method : - 4.60% ii) Silt by sedimentation : - 4.16% iii) Fineness Modulus : - 2.35% iv) Grading Zone : - III REMARK: The observed results are with t	20.00 mm Size Aggregate: 12.5 mm Size Aggregate: Particle size distribution: It is single sized aggregate of 20 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size. (Qty. rep. It is not single sized aggregate of 12.5 mm nominal size.

Copy to:1. The Assistant Engineer, SDI, WDI, WRD, Porvorim–Goa.

2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.

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

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