

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

Test Report No.: WRD/Q.C./F.6-4/ Aggr -T- 9745, 9746 /Lab/ 245 /2020-21 **Dated:** 15/ 02 / 2021. **Laboratory:** Bicholim
Sand –T: 5107. Cement-1224 **Sub Div: V (QC)/WRD/Bicholim Goa.**

Sub: Improvement Parking area near CADA building situated at circle office complex at Karaswada Bardez Goa.

Ref to requisition No.: -SD III/WDVIII/WRD/WF.71/2020-21/283 **Dated:** 09/02/2021.

Qty. Received: 1 bags each **Date of Receipt:** 10/02/2021 **Tested on:** 12,14 & 15/02/2021 **Ref to Specification:** CPWD 2009, Vol. I & IS:4031-4-1968

Sample: Sand ,20mm, **O.S. No.** 5026,5027,5045,5044/SS **Lab. Sample No.:** 429 To 432 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.
12.5mm size aggrt., Cement

R E P O R T 01 OF 01

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.	12.5 mm Size Aggregate:	Particle size distribution:	It is not single sized aggregate of 12.5 mm nominal size.	(Qty. rep. – -- m ³)	
REMARK: After blending 20 mm aggregate with 12.5 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.	Sand: (L.S.No.431)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 4.80% : - 4.54% : - 2.154 : - III		
To be used for – -----.					
REMARK: The observed results are within the permissible limits of the coarse sand.					
4.	Cement: Ultratech.Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week <u>05</u> , Month <u>02</u> , Year' <u>2021</u> . CM/L = <u>7171769</u> Qty. rep. – _____.	i) Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.08 % : 31.00% : 160 minutes : 270 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)	
To be used for – 1:2:4 Mix Concrete					
REMARK: The observed results are within the permissible limit for Ordinary Portland cement.					

- Copy to: 1. The Assistant Engineer, SDIII, WDVIII,WRD, 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