

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9849, 9850 /Lab/65/2021-22 **Dated:** 11/05/2021. **Laboratory:** Bicholim
Sand –T: 5157. Cement-1263 **Sub Div:** V (QC)/WRD/Bicholim Goa.

Sub:-Removing and Restoration of concrete Blocks in existing step and pathway from Ch.560.00mts to Ch 640 mts at Keri Beach in Pernem Taluka.

Ref to requisition No.:MI/SDIII/WDI/WRD/F.58/2021-22/39 **Dated:** 29/04/2021.

Qty. Received: 1 bags each **Date of Receipt:** 03/05/2021 **Tested on:** 07 & 08/05/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample:Sand,20mm, **O.S. N.:**-6127,6128,6144 & 6111/SS **Lab. Sample No.:** 1465 To 1468 **Tested by:** Mrs. 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.	<u>20 mm Size Aggregate:</u>	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – --m ³)	
2.	<u>12.5 mm Size Aggregate:</u>	Particle size distribution:	It is not single sized aggregate of 12.5 mm nominal size.	(Qty. rep. – -- m ³)	
<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 therequired criteria for graded aggregate of 20 mm nominal size.					
3.	<u>Sand:</u> (L.S.No.1467)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.40% : - 5.81% : - 2.45 : - II		
	To be used for----.	<u>REMARK:</u> The observed results are within the permissible limits of the coarse sand.			
4.	<u>Cement:</u> J.K.Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week <u>16</u> , Month <u>04</u> , Year' <u>2021</u> CM/L = <u>0003401033</u> Qty. rep. –.	i)Fineness of Cement ii) Consistency of cement iii) Initial Setting Time iv) Final Setting Time	: 1.18% : 31.50% : 150 minutes : 275 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 –.	<u>REMARK:</u> The observed results are within the permissible limit for Ordinary Portland cement.			

Copy to: 1. The Assistant Engineer, SDIII, WDI,WRD,Pernem – Goa.
2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.
3. Copy Submitted to The Executive Engineer, W.D. I, WRD, Porvorim – Goa
4. Q.C. Lab file 5. Bill File.

Junior Engineer

Assistant Engineer