

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

**Test Report No.:** WRD/Q.C./F.6-4/Aggr-T- 111, 112/Lab/ 339/2021-22   **Dated:-** 24 / 03 / 2022.   **Laboratory:** Bicholim  
**Sand –T:-** 5260.   **Cement-T:-** 1343.   **Laterite Stone:-**0452   **Sub Div:** V (QC)/WRD/Bicholim Goa.

**Sub:-** Improvement to Pond in Sy. No. 78 in Village Bastora in Aldona Constituency.

**Ref to requisition No:-** SDII/WDI/WRD/F.24/21-22/477   **Dated :-** 16/03/2022

**Qty. Received:** 1 bags each   **Date of Receipt:-** 17/03/2022   **Tested on:-** 21,22 & 23/03/2022   **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

**Sample:**Sand,20mm, **O.S. N:-** 194, 195, 197,198 & 220 /R.K   **Lab. Sample No.:-** 3342 To 3346   **Tested by:-** Mrs. R.R.Kadam A. E.  
 12.5mm size aggrt., Cement, Laterite Stone.

**R E P O R T 01 OF 02**

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
1.	<b>20.00 mm Size Aggregate:</b>	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – --m <sup>3</sup> )	
2.	<b>12.5 mm Size Aggregate:</b>	Particle size distribution:	It is not single sized aggregate of 12.5 mm nominal size.	(Qty. rep. – -- m <sup>3</sup> )	
<b>REMARK: After blending 20 mm aggregate with 12.5 mm aggregates at the ratio of 1:1 by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.</b>					
3.	<b>Coarse Sand:</b> (L.S.No.3344)		i) Silt & Clay by S.A. method : - 4.80% ii) Silt by sedimentation : - 5.128% iii) Fineness Modulus : - 2.37% iv) Grading Zone : - II		
	To be used for-----.	<b>REMARK: The observed results are within the permissible limits of the coarse sand.</b>			
4.	<b>Cement:</b> J.K. Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W,Y- Invisble, Y-2022 CM/L = Invisible Qty. rep. –.		i) Fineness of Cement : 1.15% ii) Consistency of cement : 32.50% iii) Initial Setting Time : 145 minutes iv) Final Setting Time : 285 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	<b>REMARK: The observed results are within the permissible limit for Ordinary Portland cement.</b>			

Assistant Engineer

