

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9794, 9795 /Lab/296/2020-21 Dated: 15/ 03/2021. **Laboratory:** Bicholim
Sand –T: 5121&5122 .Cement-1233 **Sub Div:** V (QC)/WRD/Bicholim Goa.

Sub:Improvement of Irrigation tank at Bhatwadi Paikul in sy no.48/1, Village Melauli V.P.Guleli in Sattari Taluka.

Ref to requisition No: MIN/WDVI/WRD/SDII/F.62/20-21/522 Dated: 25/02/2021.

Qty. Received: 1 bags each **Date of Receipt:** 09/03/2021 **Tested on:** 12&13/03/2021 **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample:Sand,20mm, **O.S. No.**5380,5381,5398,5399&5379 /SS **Lab. Sample No.:** 796 To 800 **Tested by:** Mrs. S. B. Naik Shirodkar.JE.
12.5mm size aggrt., Cement

R E P O R T 01 OF 02

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 1:1 by weight; it is satisfying therequired criteria for graded aggregate of 20 mm nominal size.					
3.	Sand: (L.S.No.799)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 5.00% : - 4.87% : - 2.29 : - II		
To be used for – -- REMARK: The observed results are within the permissible limits of the coarse sand.					
4.	CrushedSand: (L.S.No.798)	i) Silt & Clay by S.A. method ii) Silt by sedimentation iii) Fineness Modulus iv) Grading Zone	: - 10.80% : - 11.62% : - 2.85 : - I	(Limit of Deleterious material is 15.00% for crushed sand)	
REMARK: The observed results are not within the permissible limits for crushed sand (Fine Aggregate) vide table 2 of IS 383: 2016(Clause 5.2.1).					

Junior Engineer

Assistant Engineer

R E P O R T 02 OF 02

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks
5.	<p><u>Cement:</u> JK.Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: Week<u>06</u>, Month <u>02</u>, Year' <u>2021</u> CM/L =<u>0003401033</u> Qty. rep. –.</p>		<p>i) Fineness of Cement : 1.03% ii) Consistency of cement : 31.50% iii) Initial Setting Time : 175 minutes iv) Final Setting Time : 300 minutes</p>	<p>----- (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)</p>	<p><u>REMARK: The observed results are within the permissible limit for Ordinary Portland cement.</u></p>

- Copy to:
1. The Assistant Engineer, SDII, WDV, WRD, Valpoi-Sattari – Goa.
 2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim – Goa for kind information.
 3. Copy Submitted to The Executive Engineer, W.D. VI, WRD, Bicholim – Goa
 4. Q.C. Lab file 5. Bill File.

Junior Engineer

Assistant Engineer