GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DFEPARTMENT

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 9853, 9854,9855& 9856 /Lab/68/2021-22Dated: 12/ 05/2021. **Laboratory:** Bicholim
Sand –T: 5159,5160. Cement-1256 **Sub Div: V (QC)/WRD/Bicholim Goa.**

Sub:-Improvement to Bastora Minor-2,Branch 3 and Bastora Minor 3/OL-2 of Calangute Distributory of LBMC in Guirim and Sangolda village Bardez Taluka.

Ref to requisition No: SDI/WDVIII/WRD/W.F.66/2021-22/17 Dated: 06/04/2021.

Qty. Received: 1 bags each **Date of Receipt**: 06/05/2021**Tested on**: 10,11 &12/05/2021**Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand,20mm, **O.S. No.**6153,6154,6155,6156,6167,6179,6159/SS **Lab. Sample No**.: 1485 To1491 **Tested by**: Mrs. Shirodkar.JE.
12.5mm size aggrt., Cement **R E P O RT 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**: (L.S.No.1485,1487)	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.	**20 mm Size Aggregate:**	Particle size distribution:	It is single sized aggregate of 20 mm nominal size.	(Qty. rep. – --m^3)	
4.	**12.5 mm Size Aggregate**: (L.S.No.1486,1488)	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.			
5.	**Sand:** (L.S.No.1489)	i) Silt & Clay by S.A. method : - 5.00% ii) Silt by sedimentation : - 5.68% iii) Fineness Modulus : - 2.20% iv) Grading Zone : - III			
		REMARK: The observed results are within the permissible limits of the coarse sand.			

Junior Engineer **Assistant Engineer**

R E P O RT 02 OF 02

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks

6. **Sand:** (L.S.No.1490)

i) Silt & Clay by S.A. method : - 5.40%
ii) Silt by sedimentation : - 5.31%
iii) Fineness Modulus : - 2.22%
iv) Grading Zone : - II

REMARK: The observed results are within the permissible limits of the coarse sand.

7. **Cement:**

Jyoti Cement, bearing IS:269
Ordinary Portland cement,
Manuf. date: Week17, Month 05, Year'2021.
CM/L =6894808
Qty. rep. –.
To be used for – ------.

i)Fineness of Cement : 1.27% ---------- (It should not be more than 10%)
ii)Consistency of cement : 32.00% (It should be in the neighborhood of 35%)
iii) Initial Setting Time : 150 minutes ---- (It should not be less than 30 minutes)
iv) Final Setting Time : 305 minutes -- (It should not be more than 600 minutes)

REMARK: The observed results are within the permissible limit for Ordinary Portland cement.

Copy to: 1. The Assistant Engineer, SDI, 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**