

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

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 113, 114/Lab/ 340/2021-22 **Dated:-** 25 / 03 / 2022. **Laboratory:** Bicholim
Sand –T:- 5261. **Cement-T:-** 1344. **Sub Div:** V (QC)/WRD/Bicholim Goa.

Sub:- Construction of protection wall of existing nalla from NH 17 road to Damodar Morajkar house at Tar Bastora in Aldona Constituency.

Ref to requisition No:- SDII/WDI/WRD/F.24/21-22/481 **Dated :-** 17/03/2022

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

Sample: Sand, 20mm, **O.S. N:-** 222, 223, 241 & 221 /R.K **Lab. Sample No.:-** 3372 To 3375 **Tested by:-** Mrs. R. R. Kadam A.E.
 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. | 20.00 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 the required criteria for graded aggregate of 20 mm nominal size. | | | | | |
| 3. | Coarse Sand: (L.S.No.3374) | | i) Silt & Clay by S.A. method : - 5.20% ii) Silt by sedimentation : - 4.76% iii) Fineness Modulus : - 2.35% iv) Grading Zone : - II | | |
| | To be used for-----. | REMARK: The observed results are within the permissible limits of the coarse sand. | | | |
| 4. | Cement: J.K. Cement, bearing IS:269 Ordinary Portland cement, Manuf. date: W,M-Invisible, Year -2022 CM/L = Qty. rep. –. | | i) Fineness of Cement : 1.26% ii) Consistency of cement : 30.00% iii) Initial Setting Time : 150 minutes iv) Final Setting Time : 295 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 | REMARK: The observed results are within the permissible limit for Ordinary Portland cement. | | | |

- Copy to: 1. The Assistant Engineer, SDII, WDI, WRD, Mapusa, 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.I, WRD, Porvorim – Goa
 4. Q.C. Lab file 5. Bill File.

Assistant Engineer