

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

**Test Report No.:** WRD/Q.C./F.6-4/Aggr-T- 109,110/Lab/01/2022-23    **Dated:** 01/04 /2022.    **Laboratory:** Bicholim  
**Sand –T: 5258    Cement-T: 1341    Sub Div: V (QC)/WRD/Bicholim Goa.**

**Sub:-** Construction of Protection Wall to the Nallah passing through the Survey No.62/1 at Zariwada V.P. Poreim in Sattari Taluka.

**Ref to requisition No:-** F.50/SDIV/WDVI/WRD/2021-22/245    **Dated :-** 15/03/2022

**Qty. Received:** 1 bags each    **Date of Receipt:** 17/03/2022    **Tested on:** 19,21 & 22/03/2022    **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

**Sample:** Sand, 20mm, **O.S. N:-** 7978 & 7979/SS , 193/R.K , 7959/SS    **Lab. Sample No.:** 3337 To 3340    **Tested by:** Mrs. R. R. Kadam A.E. & Mrs. S.B. Naik Shirodkar. J.E.

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

| Sr. No.   | Description of sample   | Tested for  | Results   | Max. /Min. value permissible   | Remarks |
|---|---|---|---|--|---------|
| 1.  | <b>20 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 1:2 by weight; it is satisfying the required criteria for graded aggregate of 20 mm nominal size.</b> |   |   |   |  |         |
| 3.  | <b>Coarse Sand:</b><br>(L.S.No.3339)  | i) Silt & Clay by S.A. method<br>ii) Silt by sedimentation<br>iii) Fineness Modulus<br>iv) Grading Zone   | : - 5.60%<br>: - 5.128%<br>: - 2.49%<br>: - II            |  |         |
| To be used for----. <b>REMARK: The observed results are within the permissible limits of the coarse sand.</b>   |   |   |   |  |         |
| 4.  | <b>Cement:</b><br>J.K. Cement, bearing IS:269<br>Ordinary Portland cement,<br>Manuf. date: W- 09, M- 02, Year-2022<br>CM/L = 0003401033<br>Qty. rep. –. | i) Fineness of Cement<br>ii) Consistency of cement<br>iii) Initial Setting Time<br>iv) Final Setting Time | : 1.30%<br>: 32.00%<br>: 150 minutes<br>: 315 minutes     | ----- (It should not be more than 10%)<br>(It should be in the neighborhood of 35%)<br>---- (It should not be less than 30 minutes)<br>-- (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>  |   |   |   |  |         |

Copy to: 1. The Assistant Engineer, SDIV, WDVI, WRD, Bicholim – 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**