GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DFEPARTMENT

Test Report No.: WRD/Q.C. / F.6-4 /Aggr-T- 209,210/Lab/202/2022-23 **Dated: 12/12/2022** **Laboratory:** Bicholim-Goa
Sand –T: 5318, Cement-T: 1388 **Sub Div: V (QC)/W.D.VIII/Bicholim Goa.**

Sub: Improvement to existing compound wall behind TIP Rest House at Tillari Irrigation Project Complex at Karaswada Bardez Goa.
Ref to requisition No:- SDIII/WDVIII/WRD/WF.105/2022-23/188 Dated: 25/11/2022.
Qty. Received: 1 bags each **Date of Receipt**: 02/12/2022 **Tested on**: 05 & 06/12/2022. **Ref to Specification:** CPWD 2009, Vol. I&IS: 4031-4-1968
Sample: 20mm, **O.S. No:** 9512,9513,9516,9510/SS. **Lab. Sample No**: 5436 To 5439 **Tested by**: Mrs. S.B. Naik Shirodkar J.E.
12.5mm size Aggr, Sand, and Cement

R E P O RT 01 OF 01

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remark
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 the required criteria for graded aggregate of 20 mm nominal size.

3. Coarse Sand:
(L.S.No.5438)

i) Silt & Clay by S.A. method : - 4.80 %
ii) Silt by sedimentation : - 4.34 %
iii) Fineness Modulus : - 2.56 %
iv) Grading Zone : - II

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

4. Cement:
JK Cement, bearing IS:269
Ordinary Portland cement,
Manuf. date:W:- 47, M:- 10, Y:- 2022
CM/L = 0003401033
Qty. rep. –____--.

i) Fineness of Cement : 1.25 % ---------- (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 : 145 minutes ---- (It should not be less than 30 minutes)
iv) Final Setting Time : 315 minutes -- (It should not be more than 600 minutes)

To be used for 1:2:4 mix – **REMARK: The observed results are within the permissible limit for Ordinary Portland cement.**

Copy to: 1. The Assistant Engineer, SD III, WD VIII, W.R.D. Karaswada, Bardez-Goa.
2. Copy Submitted to The Superintending Engineer, CPO, WRD,Sinchai Bhavan Porvorim-Goa for kind Information
3. Copy Submitted to The Executive Engineer, WD. VIII, W.R.D, Karaswada, Bardez-Goa.
4. Q.C. Lab file 5. Bill File.

Junior Engineer **Assistant Engineer**