GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

Test Report No.: WRD/Q.C./F.6-4/Aggr-T- 269,270/Lab/305/2022-23

Dated:-13/03/2023.

<u>Laboratory</u>: Bicholim

Sand -T:- 5361. Cement-T:- 1419.

Sub Div: V (QC)/WRD/Bicholim Goa.

<u>Sub:</u>- Improvement to the Surrounding of CADA building at Tillari Irrigation Project Complex, Karaswada Bardez Goa.

Ref to requisition No:- SDIII/WDVIII/WRD/WF.03/2022-23/259

Dated :- 28/02/2023

Qty. Received: 1 bags each **Date of Receipt:** 04/03/2023 **Tested on:** 08 & 09/03/2023. **Ref to Specification:** CPWD 2009, Vol. I&IS:4031-4-1968

Sample: Sand, 20mm, O.S. NO: 990/RK & 366, 367, 378/SS. Lab. Sample No: 6399 to 6402 Tested by: Mrs. R.R. Kadam A.E. & Mrs. S. B. Naik Shirodkar J.E.

12.5mm size Aggr, and Cement

REPORT 01 OF 01

Sr. No.	Description of sample	Tested for Ro	esults	Max. /Min. value permis	sible	Remarks
1.	20.00 mm Size Aggregate:	Particle size distribution: It is sing	le sized aggregat	e of 20 mm nominal size. (Qty. rep. –	m ³)
2.	12.5 mm Size Aggregate:	Particle size distribution: It is not	single sized aggre	egate of 12.5 mm nominal size.	(Qty. rep. –	$ m^3$)
			00 0	12.5 mm aggregates at the ra		weight; it is
			00 0	66 6		weight; it is
3.	Coarse Sand:	satisfying the required	l criteria for gra	n 12.5 mm aggregates at the rainded aggregate of 20 mm nomin		weight; it is
3.	Coarse Sand:	satisfying the required i) Silt & Clay by S.A. metho	d :- 4.00%	66 6		weight; it is
3.	Coarse Sand: (L.S.No.6401)	satisfying the required	d :- 4.00%	66 6		weight; it is
3.		i) Silt & Clay by S.A. methodii) Silt by sedimentation	d :- 4.00% :- 4.34%	66 6		weight; it is

4. **Cement:**

i) Fineness of Cement

:- 1.08% ----- (It should not be more than 10%)

JK 43 Grade Cement, bearing IS:269

ii) Consistency of cement :- 33.00% (It should be in the neighborhood of 35%)

Ordinary Portland cement,

iii) Initial Setting Time :- 165 minutes ---- (It should not be less than 30 minutes)

Manuf. date: W-Invisible, M-02, Y-2023

iv) Final Setting Time :- 250 minutes -- (It should not be more than 600 minutes)

CM/L = 0003401033

Qty. rep. –.

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

Copy to:1. The Assistant Engineer, SDIII, 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, WDVIII, WRD, Karaswada Bardez–Goa.
- 4. Q.C. Lab file 5. Bill File.