

GOVERNMENT OF GOA  
OFFICE OF THE ASSISTANT ENGINEER  
SUB DIVISION III WORKS DIVISION XI  
QUALITY CONTROL LABORATORY(SOUTH),  
WATER RESOURCES DEPARTMENT,  
GOGAL, MARGAO- GOA.

**PLEASE FIND THE TEST RESULTS OF CEMENT AS DETAILED BELOW:**

**Name of work:-**Improvement to Tolleaband Lake sluice gate and outlet at Tolleaband of Village Chinchinim in Velim Constituency.

**Type of Cement:** Ordinary Portland cement **Brand / Grade:** Bharti Cement /43 grade

**Source of receipt:** Assistant Engineer, SD I, WDII, WRD, Rawanfond- Goa.

**Ref. Letter No:** WRD/SD I/WD II/F.Esst/833/2020-21 **.Dated:** 15-02-2021

**Qty. Represented:**

**L.S. No: 176/20**

**Physical Properties**

<b>Sr. No</b>	<b>Description</b>	<b>Test results</b>	<b>Requirements as per I.S.</b>
1	Fineness. (% retained on 9 micron sieve)	3%	Not more than 10%
2	Setting Time in (Minutes)		
	v) Initial	168minutes	Not less than 30 Min
	vi) Final.	288minutes	Not more than 600 Min.
3	Minimum Com Strength Kg/Cm <sup>2</sup>		
	i) 72 hrs. ±1 hrs.	376.66Kg/cm <sup>2</sup>	Not less than230.0Kg/cm <sup>2</sup>
	ii) 168 hrs. ±2hrs	456.66Kg/cm <sup>2</sup>	Not less than330.0Kg/cm <sup>2</sup>
	iii) 672 hrs. ±4 hrs	593.33Kg/cm <sup>2</sup>	Not less than430.0Kg/cm <sup>2</sup>
4	Consistency of cement.	28%	

To,  
The Asst. Engineer.SD I, WD II, WRD, Rawanfond- Goa.  
C.W.C. Submitted to:  
2. The Exe. Eng. W.D. XI, WRD, Rawanfond– Goa.  
3. Office file.

**Junior Engineer**

**Assistant Engineer.**