

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

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

**Name of work:-** Construction of Open Type Bandhara in Sy.No. 142 at Shiroti Khola Village of Canacona Taluka in Quepem Constituency.

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

**Source of receipt:** Assistant Engineer, SD V, WD XII, WRD, Quepem- Goa.

**Ref. Letter No:** WRD/SD V/WD XII/F.70/236/2022-23. **Dated:** 15-02-2023

**Qty. Represented:**

**L.S. No: F.45/05/2022.**

Physical Properties

Sr. No	Description	Test results	Requirements as per I.S.
1	Fineness. (% retained on 9 micron sieve)	4%	Not more than 10%
2	Setting Time in (Minutes) lxxi) Initial	178 minutes	Not less than 30 Min
	lxxii) Final.	272 minutes	Not more than 600 Min.
3	Minimum Com Strength Kg/Cm <sup>2</sup> i) 72 hrs. ±1 hrs.	383.33Kg/cm <sup>2</sup>	Not less than 230.0Kg/cm <sup>2</sup>
	ii) 168 hrs. ±2hrs	456.66Kg/cm <sup>2</sup>	Not less than 330.0Kg/cm <sup>2</sup>
	iii) 672 hrs. ±4 hrs	596.66Kg/cm <sup>2</sup>	Not less than 430.0Kg/cm <sup>2</sup>
4	Consistency of cement.	29%	

To,  
The Asst. Engineer.SD V, WD XII, WRD, Quepem- Goa.  
C.W.C. Submitted to:  
2. The Exe. Eng. W.D. XI, WRD, Rawanfod- Goa.  
3. Office file.

**Junior Engineer**

**Assistant Engineer**