

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:-** Improvement of Hydraulic to the existing nallah near E.S.I.  
Hospital Margao- Goa.

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

**Source of receipt:** Assistant Engineer, SD III, WD III, WRD, Gogol- Margao- Goa.

**Ref. Letter No:** 284/SD III/ WD III/ WRD/2021-22/283. **Dated:** 01-11-2021.

**Qty. Represented:**

**L.S. No:** F.04/04/2021.

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) lxxxv) Initial	178minutes	Not less than 30 Min
	lxxxvi) Final.	272minutes	Not more than 600 Min.
3	Minimum Com Strength Kg/Cm <sup>2</sup> i) 72 hrs. ±1 hrs.	366.66Kg/cm <sup>2</sup>	Not less than 230.0Kg/cm <sup>2</sup>
	ii) 168 hrs. ±2hrs	433.33Kg/cm <sup>2</sup>	Not less than 330.0Kg/cm <sup>2</sup>
	iii) 672 hrs. ±4 hrs	546.66Kg/cm <sup>2</sup>	Not less than 430.0Kg/cm <sup>2</sup>
4	Consistency of cement.	29%	

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

**Junior Engineer**

**Assistant Engineer.**