

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:-** Urgent repairs to the lining of distributory D1 canal drainage works at Ch.4.595 km, Ch.4.550 km, Ch.4.80 km & Ch. 5.205 km in Gaomol and Assolda Village of Quepem Taluka.

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

**Source of receipt:** Assistant Engineer, SD I, WD XIV, WRD, Quepem- Goa.

**Ref. Letter No:** WRD/WD XIV/SD I/W.F. /2022-23/136. **Dated:** 27-10-2022

**Qty. Represented:** To be tested for PCC canal lining 1:2:4

**L.S. No:** F.08/07/2022.

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) xlvi) Initial	178 minutes	Not less than 30 Min
	xlvi) 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 I, WD XIV, WRD, Quepem- Goa.  
C.W.C. Submitted to:  
2. The Exe. Eng. W.D. XI, WRD, Rawanfnd- Goa.  
3. Office file.

**Junior Engineer**

**Assistant Engineer**

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**Ref. Letter No:** WRD/WD XIV/SD I/W.F. /2022-23/136. **Dated:** 27-10-2022

**Qty. Represented:** To be tested for RCC canal lining 1:1:1/2:3

**L.S. No:** F.08/07/2022.

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) xlix) Initial	178 minutes	Not less than 30 Min
	l) 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%	

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**Junior Engineer**

**Assistant Engineer**