



## CENTRAL MATERIAL TESTING LABORATORY WAPDA, LAHORE.

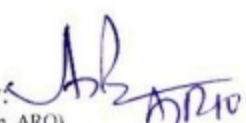
### CHEMICAL ANALYSIS OF CEMENT

**AGENCY:** Manager Procurement Gharibwal Cement Limited 34-Main Gulberg Lahore.  
**PROJECT:** Not mentioned  
**REF.NO:** GCL/cmmt tst cmtl Dated: 28-10-2008  
**LAB. NO:** 5227  
**CEMENT:** Paidar Cement (OPC) Gharib Wal Cement Ltd.

CHEMICAL ANALYSIS PSS 232 1983 (R)			
Loss of Ignition	L.O.I	2.43 %	Not > 4.0 %
Silicon Oxide	Si O <sub>2</sub>	20.48 %	No Limit
Insoluble Residue	IR	0.45 %	1.5% max.
Alumina	Al <sub>2</sub> O <sub>3</sub>	5.48 %	No Limit
Iron Oxide	Fe <sub>2</sub> O <sub>3</sub>	3.34 %	No Limit
Calcium Oxide	Ca O	63.94 %	No Limit
Magnesia	Mg O	1.19 %	4 % max.
Sulphur trioxide	SO <sub>3</sub>	1.89 %	If C <sub>3</sub> A ≤ 5 % then SO <sub>3</sub> is 2.5% max.
			If C <sub>3</sub> A > 5 % Then SO <sub>3</sub> is 3.0 % max.

C <sub>3</sub> A	8.87 %
C <sub>4</sub> AF	10.16 %
C <sub>2</sub> S	15.21 %
C <sub>3</sub> S	57.67 %
A/F	1.64 Ratio
SM	2.32 Ratio
LSF	0.94 Factor

**Note:** This report is solely based on the testing of sample provided to the Lab.

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21/11/08

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