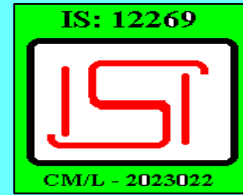


# ACC

## WADI CEMENT WORKS WORKS TEST CERTIFICATE



### 53Gr.OPC

DATE : 03.02.2010

Name & Address of the Consignee :DESPATCH PARTICULARS

VARIOUS PARTIES

INCLUDING ACC DUMPS

WEEK NO:04 (22.01.10 to 28.01.10)

|  | Results | Requirements as per<br>IS: 12269 : 1987  |
|--|---------|--|
| 1 CHEMICAL COMPOSITION :                   |         |  |
| % Soluble Silica                           | 21.4    |  |
| % Alumina                                  | 5.1     |  |
| % Iron Oxide                               | 3.6     |  |
| % Lime                                     | 63.8    |  |
| % Magnesia                                 | 0.8     | Not more than 6.0%   |
| % Insoluble Residue                        | 0.8     | Not more than 3.0%   |
| % Sulphur Calculated<br>as SO <sub>3</sub> | 2.3     | Not more than 2.5 if C3A is<br>5.0 or less & not more than 3.0<br>if C3A is more than 5.0 %. |
| % Loss On Ignition                         | 1.6     | Not more than 4.0 %  |
| LIME SATURATION FACTOR                     | 0.91    | --- Between 0.80 & 1.02  |
| PROPORTION OF ALUMINA TO IRON OXIDE        | 1.42    | --- Not less than 0.66   |
| TRI CALCIUM ALUMINATE                      | 7.42    |  |
| % CHLORIDE                                 | 0.022   | --- Not more than 0.1%   |
| 2 FINENESS :                               |         |  |
| Specific Surface (m <sup>2</sup> /kg)      | 349     | --- Not less than 225  |
| 3 COMPRESSIVE STRENGTH (MPa) :             |         |  |
| at 3-Days                                  | 42.0    | --- Not less than 27   |
| 7-Days (W.No:03)                           | 52.0    | --- Not less than 37   |
| 28-Days (W.No:52)                          | 65.0    | --- Not less than 53   |
| 4 SETTING TIME (minutes) :                 |         |  |
| Initial                                    | 195     | --- Not less than 30   |
| Final                                      | 280     | --- Not more than 600  |
| 5 SOUNDNESS :                              |         |  |
| Le-Chatelier Expn. (mm)                    | 1.0     | --- Not more than 10 mm  |
| Autoclave Expn. (%)                        | 0.06    | --- Not more than 0.8 %  |
| 6 a) Normal Consistency (%)                | 28.0    |  |
| b) Temp.during Testing (deg.C) :           | 27+/-2  |  |

*Kar*  
Mgr.Q.A.

*Bolea*  
Manager Production