



Athens, March 29<sup>th</sup> 2019

To: ES Processing Engineering Solutions

Subject: **Certificate for 'Cement Mill Optimization' Project Completion**

Dear Mr Boughosn,

We, Titan Cement Company SA, hereby express our appreciation to ES-Processing for the successful completion of the Cement Mill Process Optimization Project (CMO), which resulted in maximizing the performance of the horizontal mill of one of our cement plants through multiple combinations of breakthrough machine learning and modeling technologies. In particular, we wish to highlight the following CMO milestone achieved through your technology and hard work:

- Increase of Production by more than 15% from the baseline;
- Improvement of the Quality of Cement by reducing drastically the standard deviation of Blaine;
- Reduction of Specific Power Consumption of Cement Grinding (Kwh/tcem) by more than 8%; and
- Operation of the mill in full automatic mode (CMO full Control).

We appreciate your dedication, innovation, achievement and hard work.

Yours Sincerely,



**Fokion Tasoulas**  
*Group Executive Committee Member*  
*Group Engineering and Technology Executive Director*

**TITAN CEMENT COMPANY S.A.**

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