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Sub. Research on Generation of Continuous Pure OXYGEN for Reduction of Fuel Consumption

Gentlemen

After Greetings

With reference to your letter and your request to test the efficiency of your company's Oxygen Generator device for the production of continuous pure oxygen at industrial level and therefore replace the air supply so as to reducing the fuel consumption, we would like to inform you that the oxygen generator device was tested by introducing the pure oxygen gas produced by the device into the natural gas-operated burner of the Zinc Smelting Furnace located at our center where we had the opportunity to measuring the amount of natural gas consumption in the presence of pure OXYGEN gas as well as in the case of typical AIR supply. For the validity purpose, the experiments were also carried out using commercial oxygen gas filled in cylinder.

With all above in mind, we are pleased to confirm that the experiments have successfully shown that supplying the burners with the pure oxygen gas generated by your device "and filled into a cylinder as well" have led to the same level of natural gas consumption reduction of about a 28-30% compared to the typical air supplying scenario.

The above is a successful and encouraging step and we are wishing you the best and looking forward to cooperate with you in your upcoming adventure.

Yours Sincerely

Mr. Dr. Ibrahim Mohamed Ghayyad
S.A. Head of the Institute of Metallurgical Technology

إبراهيم محمد غياد

Center Rector
Dr. Emad Mohammed Owais

