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To Whomsoever It May Concern

Carborundum Universal Limited (CUMI), a part of the INR 742 billion (USD 8.9 billion) Murugappa Group, is a leading materials sciences engineering solutions provider. CUMI has over 5,500 employees worldwide who collaborate, innovate, and develop high-quality material solutions and world-class services in Abrasives, Electrominerals, Ceramics, Refractories and Energy storage materials, serving customers in diverse industries including engineering, fabrication, auto and auto components, infrastructure, steel, glass, power generation and distribution, mining and aerospace. CUMI has a wide geographical presence spanning six continents and exports products to over 50 countries.

We recently purchased a Ceramic 3D printer - a stereolithography Ceramic 3D printing technology – from 3D CERAM and installed at our plant.

This Ceramic Stereolithography (SLA) 3D Printer would aid us to manufacture intrinsic and critical parts retaining the same properties that of ceramics obtained by conventional process with precision. The top-down stereolithography method employed enables building of parts without support structures. This technology also would enable us to scale up on bigger machine when needed, which is otherwise not possible with other technology (DLP for instance).

We have already assessed Alumina and the outcome was positive. We will also be testing Zirconia, Silicon Nitride and Silicore (silica based for foundry cores), soon. We are confident that by incorporating the 3D printing technology into our production process, we would be able to cater into more markets for Technical Ceramics.

We are satisfied with the Installation, Training and Support extended by Shree Rapid Technologies on behalf of 3D Ceram Sinto.

For CARBORUNDUM UNIVERSAL LIMITED

Prathap Kumar

Prathap Kumar
Business Head - Industrial Ceramics Division

