

FIELD CASE STUDY · INDUSTRIAL GAS · TECHNICAL CERAMICS · INDIA · 2026

A kiln firing ceramic fuse bases: 10% less PNG at Sonya Ceramics, Ahmedabad

Sonya Ceramics, a technical-ceramics maker in Ahmedabad since 1960, fires its ceramic fuse base insulators in a kiln on piped natural gas. Niveda Green fitted Greentech Industrial Gas Saving Modules on the gas feeds to the kiln's burners, and the plant reports 10% less PNG — its own figure, September 2026.

10 %

Less PNG on the kiln — the plant's own figure, reported through Niveda Green, September 2026

≈8 %

What Niveda Green commits to on an industrial gas line before an order

1960

The year Sonya Ceramics was founded; it makes technical ceramics in porcelain, steatite and sillimanite



A Greentech Industrial Gas Saving Module on the PNG feed to one of the kiln's burners, trays of fuse bases alongside.



Modules on the gas feeds along the kiln wall. Niveda Green site photo and video still, 2026.

The plant

Sonya Ceramics has made technical ceramics in Ahmedabad since 1960 — in porcelain, steatite and sillimanite. Its ceramic fuse base insulators are fired in a kiln on piped natural gas (PNG), with a row of burners along the kiln wall.

What was fitted

Greentech Industrial Gas Saving Modules, inline on the PNG feeds to the kiln's burners, between the gas header and the burner hoses. No burner replacement, no change to the kiln, no additive, nothing to refill — a one-time purchase.

How to read the percentage

It moves with the duty — the same number on every kiln would not be credible. And **a large melting furnace saves more money at 7% than a small oven at 20%**: what matters is the gas bill on the line.

Where this sits among the Indian industrial-gas results · what each figure rests on is in the last column

Plant	Duty	Result	Documentation
Indo Shell Cast, Coimbatore	Muller burner, sand reclamation, 200–220°C	≈20% (1.47 → 1.16 kg/t)	Signed certificate, Jan 2024
Metsmith Innovations, Bangalore	Powder-coating curing oven, PNG	10–15% since April 2024	Signed certificate, Jul 2025
CUMI (Murugappa Group)	Ceramic spray dryer, PNG burner	14.6%, 1–15 Sep 2026	Plant's own records
MSM Spring India	Spring hardening furnace, about 1,000°C	12%, August 2026	Plant's own figure
Sonya Ceramics, Ahmedabad	Kiln firing ceramic fuse bases, PNG	10%, September 2026	Plant's own figure
Borosil, Jaipur	Glass tableware line, many small burners	8–10%, September 2026	Plant's own figure
Aluminium melting plant	800°C aluminium melt — hardest duty	7–8%	Operator's own figure

Firing ceramics, glass or metal on gas? Send Niveda Green one kiln's burners, fuel and monthly gas use, and get back the model, the price and what the saving is worth on that line.

Niveda Green · Authorised Greentech Distributor, India · industrial gas
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Source: Sonya Ceramics' own figure, reported through Niveda Green in September 2026; company background from Sonya Ceramics' website. Indo Shell Cast and Metsmith Innovations: signed certificates on those companies' own letterhead, published on Niveda Green's page. CUMI, MSM Spring India and Borosil: the plants' own records and figures, 2026. Results vary with equipment, duty and fuel. Greentech is developed in Taiwan by Moletech International Technology Ltd.



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