**NALSUN – BRINGING SOLAR ENERGY CLOSER TO YOU**

- India – Tropical Country – 4.5-6KWh/m² energy/day (280 clear days)
- Solar Thermal Application – Highly efficient conversion – water heating
- Requires Absorber – With high absorptance ($\alpha$) (>95%) – With low emittance ($\varepsilon$) (<20%).

**TECHNOLOGY AVAILABLE FOR COMMERCIALIZATION**

**NALSUN salient features**
- Cost-effective Electrodeposited Black Chrome Coating.
- Nanometric optical composite coating
- Meets optical properties ($\alpha$ & $\varepsilon$)
- Good covering power
- No nickel undercoat on copper
- Room temperature plating ($\approx$ 30°C).
- Normal current densities ($\approx$ 10 to 30 Adm⁻²).
- Less Refrigeration load.
- Service life more than 20 years.
- Widely patented (India, Australia, Canada, Europe, U.S.A).
- Commercially successful technology.
- Know-how transferred to many entrepreneurs.
- Modified to get black chrome alloys with improved thermal stability (Indian Patent).
- Thermally stabilized coating with improved thermal stability & solar selectivity ($\alpha/\varepsilon$)-Indian Patent
- Useful for decorative and anti-glare applications.

**100 litre solar water heating system**

**1.2 lakh litre per day system at M/s Godavari Fertilizers, Kakinada**

**ENERGY SAVED IS ENERGY GENERATED**

**ENERGY SAVINGS ≈ VIRTUAL POWER STATION**

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