COMPANY PROFILE

ArwaGreen — Green Nano & Quantum Nano Materials, Engineered in India

44+ high-purity nano & quantum-nano products, built on a proprietary, plant-based, chemical-free process — deployed across 26 industry sectors. 100% Make in India, from the smallest particle to the biggest mission.

44+	26	>99.9%	US $12M	2021
Nano & quantum-nano products	Industry sectors served	Typical validated purity	Indicative valuation, 2026	Founded, Gandhinagar

Who We Are

ArwaGreen began in 2021 as Iresh Propellant Private Limited, founded in Gandhinagar, Gujarat. What started as focused R&D into metallic, metal-oxide and polymer-based nanoparticles has grown into the ArwaGreen Nano Platform™ — a portfolio of 44+ high-purity nano and quantum-nano products spanning precious metals, green conductive materials, energy & hydrogen catalysts, critical & rare-earth minerals, and quantum-nano advanced materials.

Every product is developed on a proprietary, plant-based, chemical-free green synthesis process, keeping the platform 100% Indian-owned and 100% Make in India. In 2026, ArwaGreen proposed **ArwaGreen Innovations IFSC Private Limited** at GIFT City, Gandhinagar — a global capital, IP and export vehicle — while pursuing a formal research collaboration with IIT Gandhinagar Research Park.

Mission & Vision

Mission — To make India self-reliant in advanced nanomaterials through a green, chemical-free, zero-pollution process, reducing import dependence and building a fully indigenous, export-ready deep-tech materials industry.

Vision — To be the world's leading Green Nano & Quantum Nano technology platform — proving that advanced-materials manufacturing can be clean, sustainable and self-reliant.

Four Material Engines

Tier	Focus	Representative Products
01 · Materials	Green Nano & Quantum Nano	Nano Gold, Nano Silver, Platinum, Palladium
02 · Energy	Green Hydrogen & Energy Materials	Hydrogen nano-catalysts, battery electrode materials
03 · Critical Minerals	Critical & Rare Earth Recovery	Scandium, Yttrium, Lanthanum nanomaterials
04 · Deep-Tech	AI-Enabled Advanced & Smart Materials	Quantum dots, smart coatings, nano-composites

Validation & Credibility

- **MNIT Jaipur — Materials Research Centre:** independent elemental and particle-size (ICP-MS/ICP-OES-grade) validation for the core nano portfolio.

- **IIT Gandhinagar CRTDH (proposed):** DSIR-supported instrumentation access for Graphene, Quantum Nano and hydrogen-catalyst validation.
- **Indian Patent 579531:** sister platform patent — Green Hybrid Power Generator & Hydrogen Platform.
- **GIFT City IFSC:** proposed structuring for global capital, IP holding and export documentation.

Green Process vs. Conventional Chemical Route

Parameter	Conventional Route	ArwaGreen Green Process
Reducing agents	Hazardous chemicals	Plant-based, chemical-free
Hazardous effluent	Significant	Minimal to none by design
Import dependence	Often import-reliant	100% Indian process & manufacturing

Corporate Structure

Operating at present as **Iresh Propellant Private Limited** — CIN U24290GJ2021PTC122629, ROC Ahmedabad, incorporated 15 May 2021. **ArwaGreen Innovations IFSC Private Limited** — proposed incorporation, GIFT City IFSC, Gandhinagar, as the global capital, IP and export HoldCo.

Leadership

Nimesh Shah — Chief Executive Officer (FCA, FCS) | **Yash Shah** — Director | **Sachin Soni** — Director & Co-Founder

This profile is provided for general informational purposes. Items described as "proposed" are not yet finalised. Indicative valuation is for investor-discussion purposes and is not an audited or third-party fairness valuation.