



Ravindra
Heraeus Pvt. Ltd.

Heraeus



**Heraeus – The Leader in
Precious Metals Catalyst Recycling**

Ravindra Heraeus Pvt. Ltd. – A Unique Partner for Precious Metal Solutions



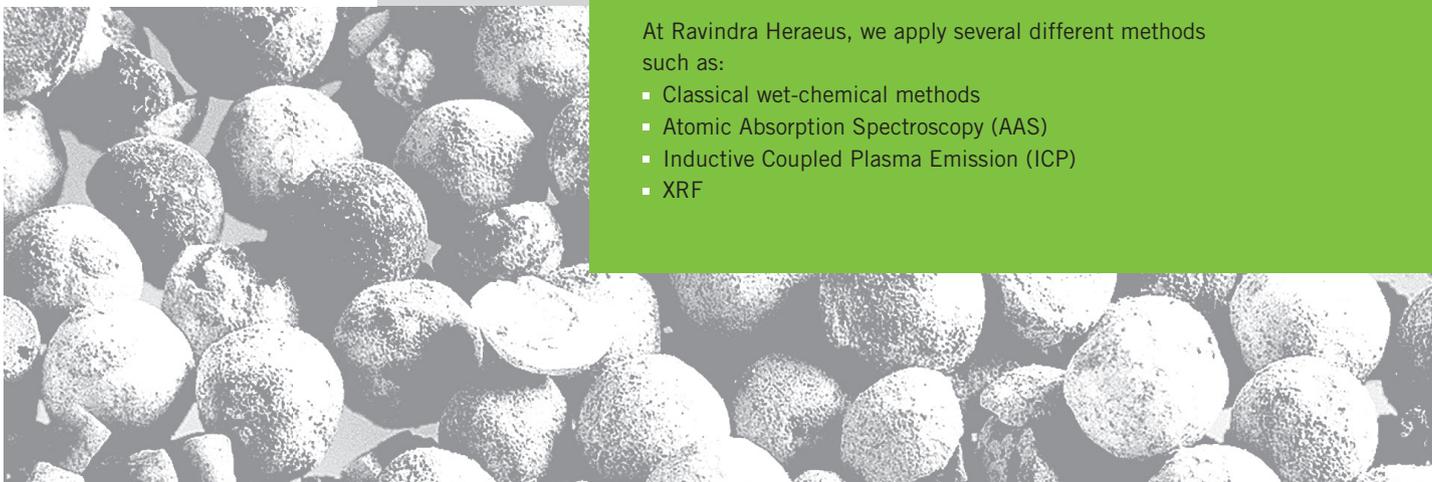
Ravindra Heraeus is one of India's most renowned companies for precious metals products. Established in 1994, the Joint Venture is equally owned by the Ravindra Choksi family and Heraeus Holding. We are specialized in the manufacturing of high-tech precious and specialty metal products and solutions. Our comprehensive refining services cover various types of precious metal containing material and make us the leading partner for your business.

Heraeus, the technology group headquartered in Hanau, Germany, is an international family-owned company, founded in 1851. Innovations have been the basis of the group's success and build the framework for its future. Heraeus today owns more than 5,350 patents and patent applications. Over 550 employees are engaged in research and development at 25 development centers worldwide.

With more than 12,500 employees at over 100 sites in 38 countries, Heraeus occupies a leading position in its global markets.



Precious Metal Recycling & Refining: Higher Yields from Your Materials



Our rich portfolio: Your Single Source Solution

Ravindra Heraeus offers various precious metal containing products to serve your industry:

- Precious metal chemicals for automotive and process chemistry
- Gauzes for nitric acid, HCN and caprolactam production
- Platinum bushings for fibreglass
- Engineered components such as platinum labware and feeders/stirrers for glass industries
- Sputtering targets
- Precious colors for decorating glassware, ceramic and bone china
- Thick film materials for semi-conductor and photovoltaics industry
- Precious metal catalysts for pharma and process chemistry
- Electrical Contacts for Switchgear
- Pre-Alloys for Jewellery

Furthermore, we can provide you with additional services like procurement and financing of precious metals or recycling of your materials.



Analytical Services

Highly experienced and skilled personnel, sophisticated methods and the most modern equipment available are the basics for accurate sampling and analysis.

At Ravindra Heraeus, we apply several different methods such as:

- Classical wet-chemical methods
- Atomic Absorption Spectroscopy (AAS)
- Inductive Coupled Plasma Emission (ICP)
- XRF

Precious Metal Recycling & Refining: Higher Yields from Your Materials

Ravindra Heraeus is now active in oil catalyst recycling ...

We are experts in handling your complex material. Our plant is fully equipped to provide you with all relevant steps to recover your valuable metal: from pretreatment, sampling and analysis, to refining and purification.

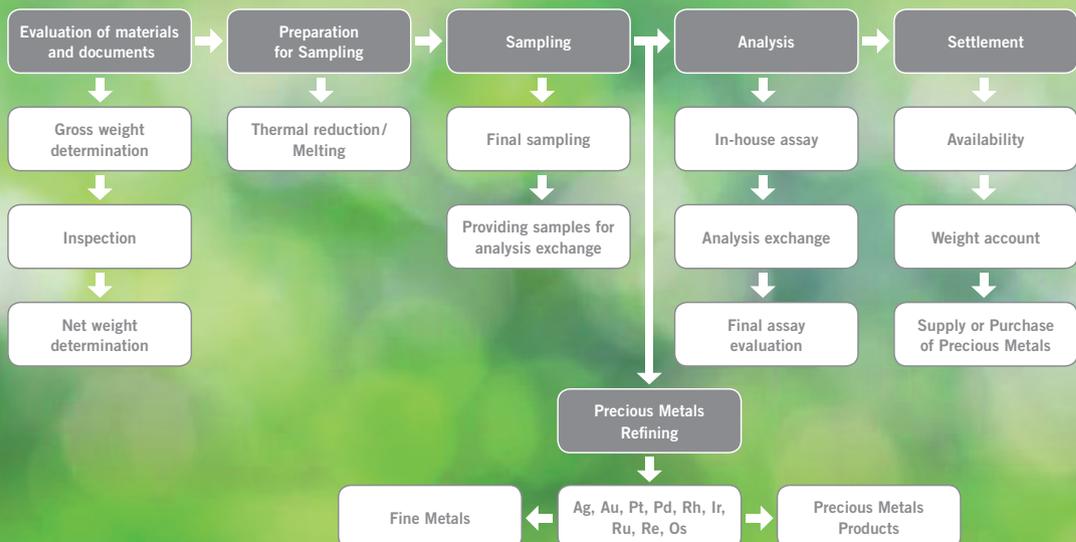
Our highly efficient and state-of-the-art processes enable us to extract precious metals from a wide range of materials utilized in various industries:

- Used precious metal alloys from the nitric acid and glassfibre industry
- Bullion, sweeps, end of life scraps and remelts from the jewelry industry
- Catalysts used in the chemical, petrochemical, fine chemical and pharmaceutical industry, such as
 - PGMs on carbon catalysts
 - Homogeneous catalysts
 - PTA catalysts
 - Ethylene oxide catalysts
 - Car catalysts
- Various precious metal scrap from the electronics, mining and metallurgical industry

... And now: spent reforming and heterogeneous catalysts from the oil industry.



Our recycling promise: Your advantage



Loop Service



Our loop service

After recovering your precious metals, Ravindra Heraeus can either return them in form of pure metals or as compounds that can be used to manufacture new fresh catalyst for various applications.

Silver Gold Platinum Palladium Rhodium Iridium Ruthenium Rhenium* Osmium



**PRECIOUS METALS
TRADING AND PRODUCTS**

RECYCLING



KEY MARKETS

PM Mines, Refiners
and Smelters

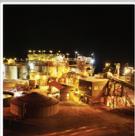
Chemical
Industry

Petrochemical
Industry

Jewellery
and Dental

Magnetic Data
Storage

Electronic Industry,
Glass and Medical



Highest Quality Standards to Satisfy Your Needs

Ravindra Heraeus' refining facility is ISO 9001 and ISO 14001 certified by TÜV Rheinland to Quality and Environmental Management Standards. Our overarching policy is to supply our customers with excellent products and services. Therefore, all product lines are under constant and strict quality control, leading to a continuously increasing satisfaction of our customers.

Furnished with advanced equipment and cutting-edge labware our analytical center is a highly acknowledged in precious metals analysis. Every year we are involved in different round-robin tests worldwide.



Environmentally friendly and sustainable

Your commitment is our top priority, which is environment protection, regulatory compliance and resource conservation.

Our facility combines advanced precious metal recycling technology and precious metal management experience with our qualified local service team. We strictly follow the safety and environmental laws and regulations of India to be your preferred precious metal recycling service partner.

Regular audits by customers and other third parties, preventive and proactive monitoring and state of the art controls ensure that the highest levels of compliance standards are maintained for you. Moreover, most importantly, the Ravindra Heraeus site is authorized for treatment and storage of hazardous and non-hazardous materials containing precious metals.



Heraeus Metal Management Locations and Capabilities

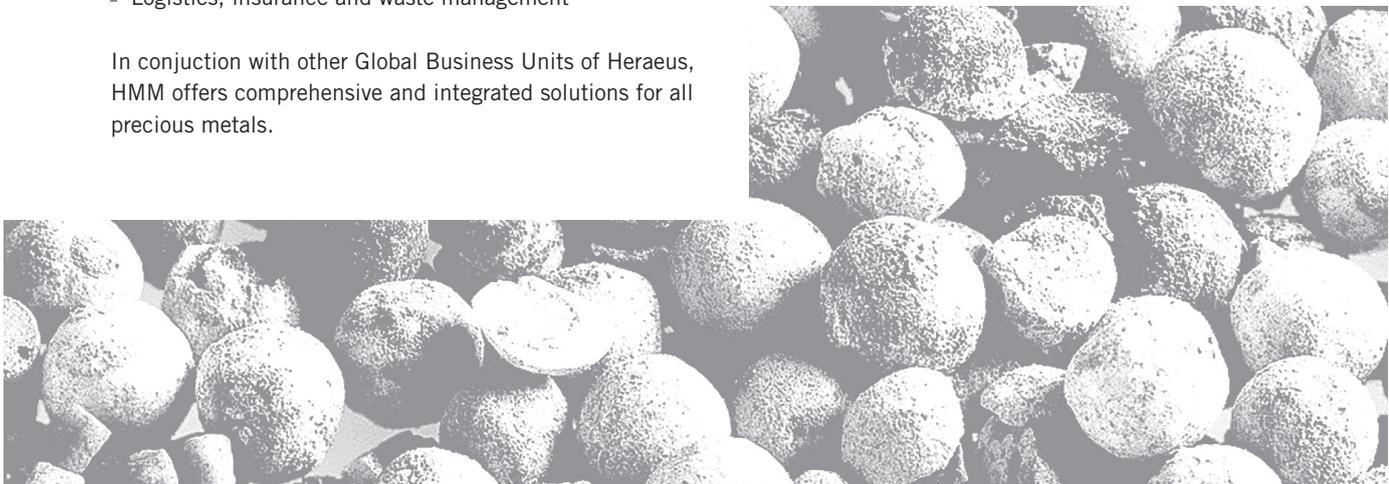


 Trading Services  Recycling Services

Ranvindra Heraeus is part of Heraeus Metal Management (HMM), one of Heraeus 11 Global Business Units (GBU). With a total of 10 sites, HMM has a strong global footprint in the major areas of the world. Bringing together Heraeus' many years of expertise in the fields of precious metal recycling, trading and related services, HMM's portfolio includes:

- Physical supply of precious metals in all relevant forms
- Weight accounts & worldwide transfers
- Precious metal financing and risk management
- Recovery of precious metals
- Logistics, insurance and waste management

In conjunction with other Global Business Units of Heraeus, HMM offers comprehensive and integrated solutions for all precious metals.





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