
Unparallel Quality System
at

INDIA GOVERNMENT MINT, MUMBAI
(A Unit of SPMCIL)

12th INDIA INTERNATIONAL GOLD CONVENTION-2015, 21-23 August, Goa



Security Printing & Minting
Corporation of India Limited

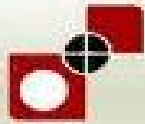
INDIA GOVERNMENT MINT- MUMBAI
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185 GLORIOUS YEARS

12th INDIA INTERNATIONAL GOLD CONVENTION-2015, 21-23 August, Goa



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ABOUT INDIA GOVERNMENT MINT MUMBAI



- ❑ IGM Mumbai is the Oldest Mint at its present position in India.
- ❑ The present Heritage Building was constructed between the year 1824-1830 by Captain John Hawkins of Bombay Engineers.
- ❑ The 1st Mumbai Mint Coin was produced in the year 1672 .
- ❑ IGM Mumbai is manufacturing coins in accordance with the mandate granted by Coinage Act 1906 with latest revision in 2011.

ABOUT INDIA GOVERNMENT MINT MUMBAI

- Mumbai Mint is manufacturing metrological standards as per Bombay Weights & Measures Act, 1932.
- All varieties of Weights & Measures used in the country under British system were replaced by adoption of **Metric Standard** in 1958 as per 1956 Act.
- As per the latest **Legal Metrology Act 2009**, all the reference, secondary and working standards of mass and length and secondary and working standards of capacity shall be fabricated by the Metrological Wing of the Government of India Mint at Mumbai.
- The reference standards are verified and certified in terms of National Standards by the National Physical Laboratory within every three years.

ACTIVITIES AT INDIA GOVERNMENT MINT MUMBAI

COINING

- **Minting of Circulation Coins**
- **Minting of Commemorative Coins**

NON-COINING

- **Melting, Refining and Processing of Gold/Silver**
- **Minting of Medals and Medallions**
- **Manufacture of Weights and Measures standards and stamping equipment**
- **Assaying for Internal & External customers**



OUR PRODUCTS & SERVICES



Commemorative
Coins



Gold Refining



Circulation Coins



OUR PRODUCTS & SERVICES



Gold Medals



Weights & Measures



Medals & Medallions

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OUR PRODUCTS & SERVICES

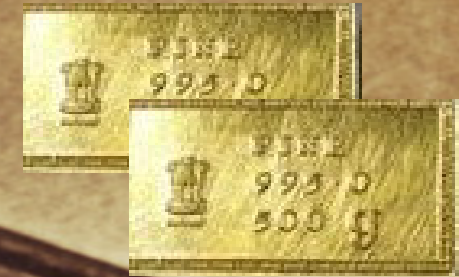
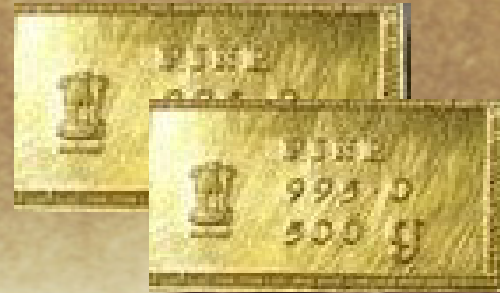
ASSAY OF GOLD



ASSAY OF SILVER



HISTORY OF GOLD REFINING



- ❑ In 1919 Gold Refinery was started in Mumbai Mint. After enactment of Gold Control Act 1968, Mumbai Mint was the only licensed gold refinery in the country till the repeal of the Act.
- ❑ It employed the Miller process (chlorination) for gold refining. It used to refine raw gold from South African and Indian mines.



HISTORY OF GOLD REFINING

- ❑ Mumbai Mint has **Century** old legacy of Gold Refining.
 - ❑ With passage of time, Mumbai Mint has continuously upgraded its competency and infrastructure to deliver the best of precious metals.
 - ❑ Mumbai Mint has integrated facility of Gold Refining, Processing and Assaying.
 - ❑ Mumbai Mint is government mandated institution in India for processing gold of Govt. Treasury and State Judiciary.
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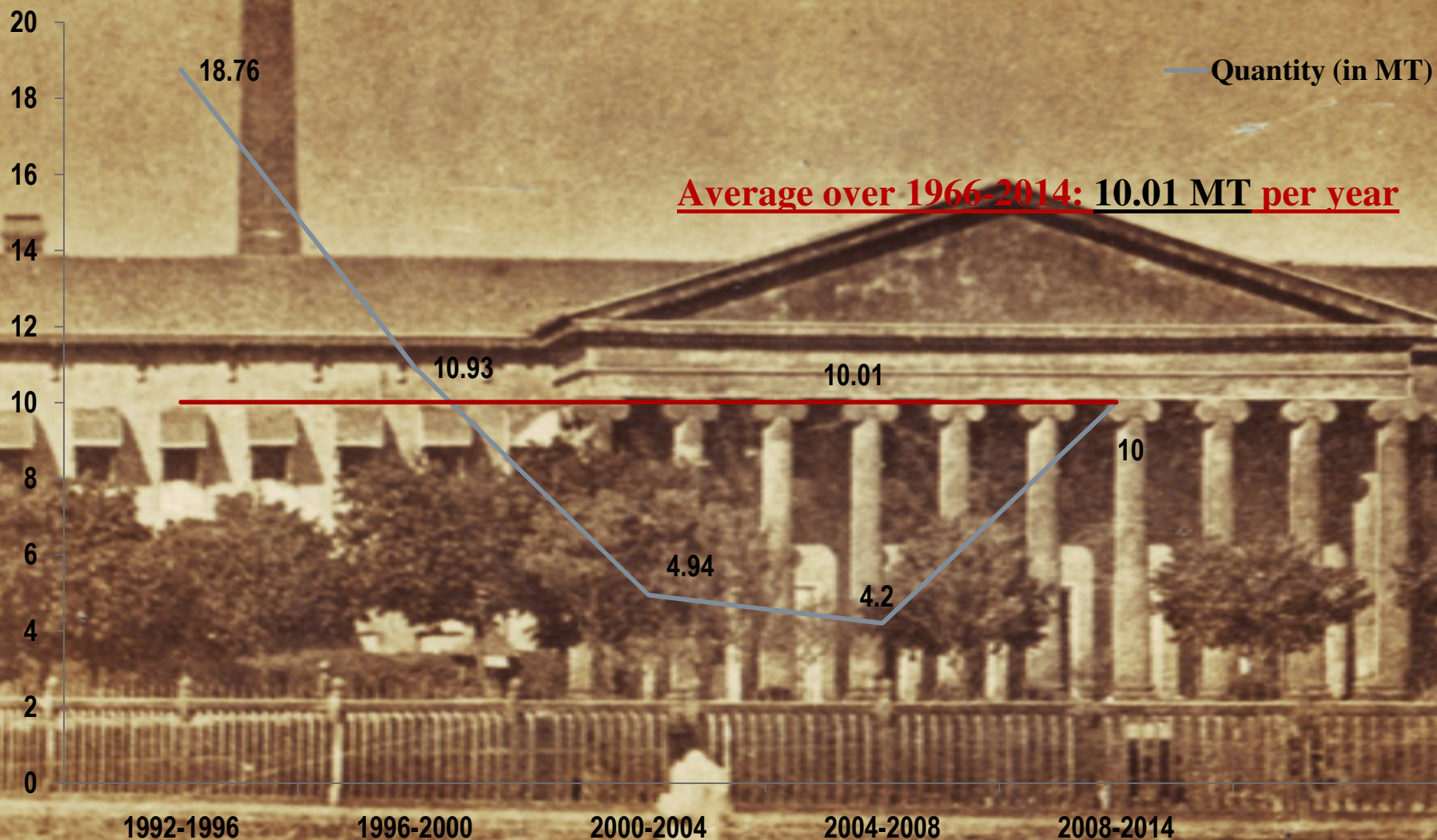


HISTORY OF GOLD REFINING (under Gold Control Act provisions)





HISTORY OF GOLD REFINING (after repeal of Gold Control Act)



Gold Refining Facility

- ❑ IGM Mumbai has state-of-the-art technology for Gold Refining.
- ❑ The plant consists of two methods of gold refining: -
 - a) **Aqua-Regia Gold Refining**
 - b) **Electrolytic Gold Refining**
- ❑ This plant has an in-built facility for treatment of gaseous & liquid pollutants.

Assay Laboratory

- ❑ IGM, Mumbai has century old **Premier Assay Laboratory** of Nation.
- ❑ Assay Laboratory is **NABL Accredited** under **ISO 17025:2005** for Assaying of Gold and Silver up to 999.9 PPT.
- ❑ The Laboratory has been approved by Bureau of Indian Standards, Govt. of India (BIS) as **Referral Laboratory** for assaying of Gold & Silver.
- ❑ IGM Mumbai is also the member of **Precious Metals MTD 10 Metal Committee** of BIS.

Assay Laboratory

- Chief Assayer of IGM Mumbai represents **Precious Metals MTD 10 Sectional Committee.**
- Contribution in development of **National Standards for Precious Metal Testing.**
- Contribution in establishing **Hallmarking Scheme** in India.



Quality at Refining and Processing

Unique Features: -

- Melting and Sampling** is carried out in the presence of customers.
- The refined gold is delivered to the customers **along with fineness guarantee.**
- Standard gold bars only with **positive tolerance for Fineness** are manufactured.



Quality at Refining and Processing

Unique Features: -

- ❑ Standard Gold Bars stamped with 995.0 fineness have fineness value from **995.0 -- 995.3**
- ❑ Our entire precious metal product range conforms **Integrity of Fineness.**



Quality at Assay

Unique Features: -

- ❑ Each sample of gold is assayed by **two different assayers** using two different balances. This eliminates **personal and instrumental bias**.
- ❑ IGM Mumbai carries **100 % replicate testing** of gold samples.
- ❑ Strict adherence to **repeatability criteria** of testing methods.



SHORT VIDEO

- [Short film on Assaying & Refining facility at IGM Mumbai](#)



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THANK YOU...

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