

"MMTC-PAMP: Leading the Indian Precious Metals Industry with Swiss Excellence and Sustainable Practices"

Mr Vikas Singh, MD & CEO, MMTC PAMP India Pvt Ltd

1. Organizational Brief:

- Overview of your organization, including its history, mission, and vision.

About MMTC-PAMP: A joint venture between Switzerland-based bullion refinery, PAMP SA, and MMTC Ltd, a Miniratna and Government of India Undertaking. MMTC-PAMP is the only LBMA-accredited gold & silver good delivery refiner in India and is accepted across global commodity exchanges and central banks. The company seamlessly marries Swiss excellence with Indian insights. MMTC-PAMP India Pvt. Ltd. is internationally recognized as an industry leader in bringing global standards of excellence to the Indian precious metals industry.

MMTC-PAMP has received several awards since its inception from local and global industry bodies for Refining, Brand and Sustainability. Also, MMTC-PAMP is India's First Precious Metals Company to have Science-based emissions reduction targets approved by the SBTi.

- Information about the promoters and their background in the silver refining industry.

2. Refining Capacity and Location:

- Details on your silver refining capacity.

600 tonnes

- Location of your refinery and any additional facilities.

MMTC-PAMP INDIA PRIVATE LIMITED, Rojka-Meo Industrial Estate, Distt. Nuh, Haryana – 122103, India

3. Accreditations and Certifications:

- List of international accreditations that your refinery holds.

-MMTC-PAMP is the only LBMA-accredited Gold & Silver refinery in India, and is accepted across global commodity exchanges and central banks.

-India's First Precious Metals Company to have Science-based Emissions Reduction Targets Approved by the SBTi



Mr Vikas Singh



MMTC-PAMP
Swiss Excellence. Made in India.

Overview of domestic awards/certifications relevant to your operations.

1. "Best Refiner of the year" from the IBJA for 2013, 2014, 2015, 2017, 2018, 2019, 2022, 2023
2. "Best Refiner of the year" from the IIGC for 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2022, 2023
3. "Best refiner of the year" by Bullion Federation for 2016, 2017
4. "CII Sustainability Award" 2014 for Significant Achievement in Environment Management.
5. "Highest Bullion seller" from the IIGC for 2018, 2019
6. "Best Bullion Refinery" from ASSOCHAM for 2016, 2017, 2018
7. "Best Refinery of the year" from GJTCI for 2018
8. "Highest Bullion seller of the Year" from the IIGC for 2018 – 2019
9. "Awarded with Platinum, Gold and Silver in various categories organised by CII during its 41st CII Kaizen Competition held on 24th September, 2021, Nationwide.
10. "Largest Bullion Refinery & Most Vertically Integrated Bullion Company for the year 2019-20 & 2020-21" at India Gold Conference 2021
11. MMTC-PAMP made a stellar debut on Fortune 500 India list for the year 2021. Ranked 68th amongst India's 500 largest corporations
12. Economic Times – Most Iconic Brands on India 2022
13. Prestigious Brand of Asia Award 2022-23 by BARC Abu Dhabi
14. Marketing Meister award for the year 2022-2023 to Mr. Vikas Singh MD & CEO MMTC-PAMP, by BARC Abu Dhabi
15. Largest Integrated Gold Refiners award (2022-23) at India Gold Conference held in Kolkata on 18-08-2023 in the IGC Excellence Awards

4. Technological Capabilities:

-Description of the technological processes employed in your silver refining.

-Any innovative or advanced technologies that set your refinery apart.

Refining:

Silver refining is done through electrolysis process, which is a method of purifying silver from impurities using electric current. The process involves placing impure silver anodes in an electrolytic cell and when electric current is applied, the impure silver dissolves into the electrolyte as silver ions, leaving behind other metals and impurities. The silver ions then migrate to the cathode, where they are reduced to metallic silver and deposited on steel cathode. The pure silver can then be removed from the cathode and melted into bars or strips.

MMTC-PAMP also employs the most modern Acidless Separation process. In this method, dore is melted in a furnace, leading to the selective vaporization of impurities and silver. This leaves the balance of gold and copper to be treated through electrolytic gold refining. The silver is then processed through the electrolytic refining route. Importantly, this process does not involve any chemicals, and the associated loss is minimal.

Electrolysis method is more advantageous over other methods of silver purification, such as pyrometallurgical or chemical. It produces high-purity silver (up to 9999 plus) with minimal loss of metal. It is also environmentally friendly, as it generates less waste and emissions than other processes as usage of chemicals is less. The refinery is equipped with scrubbers to maintain a clean atmosphere.

Laboratory:

MMTC-PAMP has state of Art Assay Laboratory with LBMA and ISO 107025 accreditation and equipped with below sophisticated testing instruments thereby bringing global standards of excellence in India

1. Spark Spectrometer calibrated to test 999.9+ silver.
2. Inductively Coupled Plasma (ICP) Spectrometer and analysis is done by using ISO 15096:2020 STD and is used for trace metal analysis resulting in assuring the 999.9 plus PPT fineness of refined silver. Evaluating such high purity and fineness marking in silver is an important and critical step in authenticating our silver product

3. Potentiometer for gravimetric analysis by using ISO11427:2014
4. XRF spectrometer
5. Chemical analysis of Silver

Product Line:

1. 30 kg LBMA accredited Large bars manufactured as per international standards
2. 1 kg cast bars
3. Silver minted coins from 10gms to 1000gms

MMTC-PAMP, known for its commitment to providing high-quality, culturally diverse products to consumers, hosted this event at its one-stop shop for any gold & silver needs. To ensure the product's authenticity, each MMTC-PAMP product carries a unique number and comes packaged in a certified signed by an Assayer. Each gold and silver product bought from MMTC-PAMP offers a positive weight & purity tolerance, which guarantees that every coin or bar you buy weighs more than the listed weight, ensuring customers get the highest value for their investment.

- Information on the quality standards maintained for each product.

We are also the only Indian laboratory to have successfully participating in the LBMA Proficiency Testing for gold - a global assessment evaluating the quality of world class laboratories across the

globe, and we are proud to have attained a top tier rating for four years in a row. As an external affirmation of our high standards, our parent company, PAMP, is one of the only three 'Approved Good Delivery Referees' of both the London Bullion Market Association (LBMA) and London Platinum and Palladium Market (LPPM), and are responsible for the testing of samples, the provision of reference samples and other functions in support of the Good Delivery system globally.

Our assay laboratory brings to India assays of the highest quality and reliability. Our comprehensive range of services for the industry includes fire, spectrometric, ICP, X-ray and chemical assays. Our assay laboratory is certified by the International Organisation for Standardisation (ISO / IEC '17025: 2005' Accredited) by NABL. Our laboratory provides much needed infrastructure services to the Indian gold ecosystem in many ways.

MMTC-PAMP is India's only LBMA Accredited refinery

Every minted product comes with the promise of positive weight & purity balance

The offerings include 24K 999.9 Purest gold and 999.9 Purest silver

Finest Swiss Craftsmanship rooted in Indian traditions

