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File No. SEEPZM-CUSTOGENF/522/2026-CUST

Date: 11.09.2026

NOTICE FOR INVITING QUOTATION

Subject: Procurement of Specialized Measuring Equipment for Assessment of Gold Jewellery

Sealed/online quotations are hereby invited from reputed and experienced manufacturers/authorized dealers/suppliers for the supply, installation, testing and commissioning, wherever applicable, of the following **Specialized Measuring Equipment for assessment of Gold Jewellery** for use by Authorised Officers of Customs at SEEPZ-SEZ.

1. Background

Reference is invited to the preceding Note regarding the requirement of specialized measuring tools for enhancing the efficiency of Customs Clearance operations.

At present, the Customs Clearance System relies upon a **Precious Metal Analyzer based on X-Ray Fluorescence (XRF) technology** for assessment of precious metals. While the said equipment provides accurate analysis, its operation requires specialized technical knowledge and is presently handled by DGDC staff. Consequently, the equipment is not readily available to Authorised Officers for immediate and routine assessment of gold jewellery.

In order to facilitate **quick, convenient and non-intrusive assessment of gold jewellery by Authorised Officers**, it has been proposed to procure user-friendly specialized measuring equipment for the following two categories:

- Non-Studded Gold Jewellery** – Precision weighing machine integrated with density measurement facility.
- Studded Gold Jewellery** – Electrical conductivity meter for determining the karat value of gold.

Accordingly, quotations are invited for the following equipment.

2. Schedule of Requirement

Sr. No.	Equipment	Application	Minimum/Indicative Technical Requirement	Qty.
1.	Precision Weighing	For assessment of Non-	High-precision weighing capability with accuracy/resolution of up to 1 milligram (0.001 g);	01

Sr. No.	Equipment	Application	Minimum/Indicative Technical Requirement	Qty.
	Machine with Integrated Density Meter	Studded Gold Jewellery	integrated density measurement facility; suitable for determining gold density/karat value; non-destructive operation; suitable for routine use by Customs Authorised Officers; preferably from reputed manufacturers such as ACZET/Fischer or equivalent	
2.	Electrical Conductivity Meter / Gold & Precious Metal Tester	For assessment of Studded Gold Jewellery	Non-destructive electrical conductivity/resistivity-based testing; suitable for determination/indication of gold karat value where density measurement cannot be reliably isolated due to presence of stones; instant reading; user-friendly operation; suitable for gold jewellery; preferably GemOro Auracle Pro / Sigma Analytical or equivalent	01

Note: The makes/models mentioned above are **indicative reference makes/models** for defining the required functionality and performance. Equivalent or superior equipment meeting the prescribed technical specifications may also be offered, subject to acceptance by the Competent Authority.

3. Technical Specifications

A. Precision Weighing Machine with Integrated Density Meter – For Non-Studded Gold Jewellery

The proposed equipment shall, at a minimum, have the following features:

1. Precision weighing capability with resolution/accuracy of **1 milligram (0.001 g) or better**, as applicable.
2. Integrated facility for **density measurement** of the article.
3. Capability to assist in determining/indicating the **karat/purity of gold** based on density measurement.
4. Suitable weighing capacity for routine examination of gold jewellery.
5. Digital display with clear and easily readable results.
6. Non-destructive/non-intrusive testing methodology.
7. Suitable for examination of non-studded gold jewellery such as rings, chains, bangles, bracelets, pendants, etc.
8. Easy-to-use interface suitable for operation by Authorised Officers after basic training.
9. Calibration facility and provision for calibration certificate.
10. The equipment shall be supplied with all necessary accessories required for carrying out density and weight measurements.
11. The equipment should be from an established manufacturer having adequate service/support facilities in India.
12. The supplier shall provide user manual, technical literature and necessary training/demonstration to the designated officers.

B. Electrical Conductivity Meter – For Studded Gold Jewellery

The proposed equipment shall, at a minimum, have the following features:

1. Non-destructive electrical conductivity/resistivity-based testing technology.
2. Capability to provide an immediate indication of the **karat/purity of gold**.
3. Suitable for testing **studded gold jewellery**, where conventional density measurement may not be suitable due to the presence of stones.
4. Suitable for testing rings, necklaces, earrings, bangles, bracelets, pendants and other studded gold articles.
5. Digital display with easy-to-understand readings.
6. Quick measurement and indication of results.
7. Non-intrusive testing without causing damage to the jewellery.
8. Suitable for routine field/desk use by Customs Authorised Officers.
9. Calibration facility and calibration certificate.
10. All required accessories, probes/sensors and consumables, if any, shall be included in the quoted price.
11. The equipment should be from an established manufacturer having adequate service/support facilities in India.
12. The supplier shall provide user manual and necessary training/demonstration to the designated officers.

4. Purpose of Procurement

The proposed equipment is intended to facilitate **immediate preliminary assessment of gold jewellery by Authorised Officers** and thereby reduce dependency on specialized technical personnel for routine assessment.

The equipment shall assist in:

- Quick determination/indication of gold purity/karat value;
- Verification during routine examination;
- Reduction in processing time;
- Avoidance of unnecessary movement of jewellery for preliminary assessment;
- Reduction of bottlenecks in Customs Clearance; and
- Efficient and non-destructive examination of gold jewellery.

5. Non-Intrusive / Non-Destructive Testing

Both the proposed technologies shall be **non-intrusive/non-destructive** and shall not cause damage, alteration or permanent marking of the jewellery being examined.

The supplier shall clearly certify the non-destructive nature of the proposed equipment in the technical quotation.

6. Demonstration / Proof of Concept

The purchaser may require the technically qualified bidder(s) to arrange a **demonstration of the offered equipment** at the designated premises before finalization of the procurement.

The bidder shall demonstrate the equipment's capability for:

- Measurement of gold jewellery;
- Determination/indication of karat/purity;
- Accuracy and repeatability of readings;
- Non-destructive operation; and
- Ease of use by Authorised Officers.

The Competent Authority reserves the right to evaluate the equipment based on technical specifications, demonstration and overall suitability for the intended application.

7. Calibration and Certification

The successful bidder shall provide a valid **calibration certificate** for the equipment at the time of supply.

The supplier shall also specify the recommended calibration frequency and provide calibration/service support during the warranty/AMC period, as applicable.

8. Installation, Training and Demonstration

The supplier shall be responsible for:

- Delivery and installation of the equipment, wherever applicable;
- Initial testing and commissioning;
- Demonstration of operation;
- Basic operational training to designated Customs/Authorised Officers;
- Supply of user manuals and technical documentation; and
- After-sales service and technical support.

All such costs shall be clearly indicated in the quotation.

9. Warranty

The equipment shall be covered by a comprehensive warranty of **minimum 1 years** from the date of satisfactory installation/acceptance.

The warranty shall cover manufacturing defects, components, parts and necessary service support, as applicable.

10. Price Schedule

The bidder shall submit the financial quotation in the following format:

Sr. No.	Description	Make & Model	Qty.	Unit Price (₹)	GST (₹)	Total Price (₹)
1	Precision Weighing Machine with Integrated Density Meter – For Non-Studded Gold Jewellery		01			
2	Electrical Conductivity Meter – For Studded Gold Jewellery		01			
3	Installation/Commissioning, if applicable					
4	Training/Demonstration					
5	Other accessories, if any					
	Grand Total					

The bidder shall clearly indicate all applicable taxes, duties, freight, insurance, installation, commissioning and other charges.

11. Eligibility

The bidder should preferably be:

1. Manufacturer or authorized dealer/distributor of the offered equipment.
2. Having adequate experience in supply of similar equipment.
3. Having established after-sales service/support facilities in India.
4. Capable of providing calibration, maintenance and technical support.
5. In a position to arrange demonstration of the offered equipment, if required.

Documentary evidence in support of the above shall be submitted along with the quotation.

12. Delivery Period

The successful bidder shall supply and commission the equipment within **7 days** from the date of issue of Purchase Order/Work Order.

13. Payment

Payment shall be released after satisfactory supply, installation/commissioning, demonstration, training and acceptance of the equipment by the designated authority, subject to submission of the requisite invoice and documents.

14. Submission of Quotation

The quotation shall be submitted in a sealed cover/through the designated e-procurement platform, as applicable, clearly superscribed:

“QUOTATION FOR PROCUREMENT OF SPECIALIZED MEASURING EQUIPMENT FOR ASSESSMENT OF GOLD JEWELLERY – NON-STUDED AND STUDED GOLD JEWELLERY”

The quotation shall be submitted on or before:

Date: 18.09.2026

Time: 05:00 PM

15. General Conditions

1. The bidder shall quote for equipment conforming to the prescribed specifications.
2. Equivalent or superior models may be considered subject to technical evaluation.
3. The make and model of the offered equipment shall be clearly mentioned.
4. Technical brochures/data sheets shall be enclosed with the quotation.
5. The Competent Authority reserves the right to seek clarification or demonstration of the offered equipment.
6. The Competent Authority reserves the right to accept or reject any or all quotations, wholly or partly, without assigning any reason.
7. The procurement shall be governed by the applicable Government procurement rules and procedures.
8. Any other terms and conditions considered necessary shall be incorporated in the Purchase Order/Work Order.

16. Contact Details

Quotation Inviting Authority: office of The Development Commissioner SEEPZ SEZ

Name: Prashant Deshmukh, Authorised officer

Mobile Number: 9870403047



Soodershan Shindde

Assistant Development Commissioner

Procurement Cell

SEEPZ SEZ