

Section VI: List of Requirements

Schedule No	Brief description of goods and services (Related specifications etc. are in Section-VII)	Accounting Unit	Quantity	Amount of Earnest Money
1	<p>Manufacture & supply of ₹20 bi-metallic coin blanks to be supplied to India Government Mints located at Mumbai / Hyderabad / Kolkata / Noida</p> <p>For full details please see the technical specification as mentioned in Section VII</p>	Metric Tonne	800 Mpcs (6832 MT)	<p>Rs.5,48,14,000/- (Rupees Five Crore Forty Eight Lakh Fourteen Thousand Only)</p> <p style="text-align: center;"><u>or</u></p> <p>US\$ 768,918 (US Dollar Seven Hundred Sixty Eight Thousand Nine Hundred Eighteen Only)</p> <p style="text-align: center;"><u>or</u></p> <p>EURO 692,561 (EURO Six Hundred Ninety Two Thousand Five Hundred Sixty One Only)</p> <p>To be submitted along with PQB</p>

- The quantity of material under procurement is likely to be distributed among the delivery locations, i.e, IGM, Noida, Kolkata, Mumbai and Hyderabad.
- **Freight charges should be same irrespective of Mint location.**
- Month-wise & Mint-wise delivery schedule will be made available at the time of concluding the agreement/contract.

Required Delivery Schedule:

- i) 13 months from the date of communication of pre-production sample clearance in thirteen (13) installments.
- ii) 1st lot to reach within 21 days from the date of communication for acceptance of pre-production sample
- iii) The delivery schedule will be as follows:
 - a. **For first 300 Mpcs (2562 MT) during the financial year 2019-20 :**
 - By 31st Jan,2020 - 100 Mpcs (854MT)
 - By 29th Feb,2020 - 100 Mpcs (854 MT)
 - By 20th Mar,2020 – 100 Mpcs (854 MT)
 - b. **Rest 500 Mpcs (4270 MT) during the financial year 2020-21:**
 - Delivery of 50 Mpcs (427 MT) for each month shall be made for 10 months from April, 2020 to Jan, 2021.

iv) The lot size shall not be less than 200 MT (23.42 Mpcs) in any case. However, in case of parallel contracts awarded, the lot size shall be revised proportionately.

v) Mint reserves the right to postpone the delivery schedule as per Mints' requirements by giving one month notice.

vi) Mint also reserves the right to advance the quantities as per mutual consent.

vii) Month-wise & Mint-wise delivery schedule will be made available at the time of concluding the agreements/contract.

The weight tolerance is maximum $\pm 10\%$ in per calendar month, or maximum $\pm 7\%$ in calendar quarter, or $\pm 5\%$ cumulative in calendar year is permissible.

Terms of Delivery:

1. The delivery of goods within specified period as per agreement is the essence of contract.
2. The supplier shall deliver the goods and perform the services under the contract within the time schedule specified.
3. Indian bidders shall quote their price on door delivery basis.
4. The foreign Supplier shall quote the price both on FOB basis as well as on CIF.
5. The tenderer should offer at least 25% of the total tender quantity.
6. Delivery should be completed within the period specified in the contract. **The weight tolerance is maximum $\pm 10\%$ in per calendar month, or maximum $\pm 7\%$ in calendar quarter, or $\pm 5\%$ cumulative in calendar year is permissible.**

Technical Specifications of ₹20 bi-metallic coin blanks

1.0	SCOPE OF SUPPLY shall include the following:	
1.1	Manufacture and supply of Bi-metallic coin blanks including testing and inspection. Providing all necessary data, sketch, step wise process of production of ring, Centre piece and joining of the two used in making of Bi-metallic composite coin blanks to the purchaser.	
2.0	Quality of bi-metallic composite coin Blanks	Rimmed and fully annealed
2.1	Centre piece and Ring to be cut from strips and annealing to be done after rimming.	
3.0	Centre piece Diameter	16 mm (Nominal)
4.0	Rimmed Diameter of Composite Bi- metallic blanks	26.00 mm (± 0.05) mm
5.0	Piece Weight of Composite Bi-metallic blanks	8.54 grams ($\pm 2.5\%$) i.e. 8.33 grams to 8.75 grams
5.1	Weight of Ring	5.32 grams ($\pm 2.5\%$) (Nominal)
5.2	Weight of Centre Piece	3.22 grams ($\pm 2.5\%$) (Nominal)
6.0	Rim- Thickness (kiss rim)	2.08 mm (± 0.05 mm)
7.0	Hardness	100 \pm 10 VPN (HV30)
8.0	Physical tolerance/Appearances	As mentioned in 8.1 & 8.2
8.1	Circularity	The difference between maximum and minimum diameter of any composite blank shall not exceed 0.03 mm
8.2	Surface Finish	The color and brightness of composite blanks shall be assessed in natural light. The blank shall be free from surface imperfection such as porosity, blanking indentation, roll marks, blisters, scratches, Strains, etc. The center piece shall be Bronze color (Nickel Brass) and the ring Shall be whitish (Nickel Silver) and bright.
9.0	Method of Joining Centre Piece and ring	The Joining method of Ring and the center piece shall be by means of mechanical positive locking for which the center piece may be required to have a suitable grooving around the Complete Periphery. There should be positive locking with the ring by means of uniform metal flow through the groove so as to ensure positive locking of ring with centre piece so that relative motion between centre piece and ring shall be eliminated.
10.0	Locking load Test (Centre piece and Ring)	The composite blanks should be subjected to expulsion load test at 100 kilogram force (static load).
11.0	Locking Test procedure	The sample pre-fitted coin blanks is to be positioned centrally inside a test-rig, in which the support has a break-out one Millimeter larger than the center piece of the coin blanks, the expulsion punch will have a diameter of 12 millimeter for load testing purposes. The coin blanks will be positioned on test-rig and will be subjected to expulsion test force by the 12 Millimeter punches as mentioned above.

CHEMICAL SPECIFICATION FOR BI-METALLIC COMPOSITE COIN BLANKS

Centre Piece (Nickel Brass)	Copper	75% \pm 1%
	Zinc	20% \pm 1%
	Nickel	5% \pm 0.5%
Outer Ring (Nickel Silver)	Copper	65% \pm 1%
	Zinc	15% \pm 1%
	Nickel	20% \pm 1%

Impurities Limits should not exceed the following limits (in Center Piece & Outer Ring):

Carbon	0.05%
Sulphur	0.02%
Lead	0.005%
Iron	0.3%
Manganese	0.5%
The Overall impurities should not exceed 0.5%	

Section VIII: Quality Control Requirements

The supplier shall supply the goods as per the technical specification mentioned in the section VII – Technical Specifications.

1. Accurate count in pieces in each bag / drum is very important and will be insisted upon. Variation in count shall be made good whenever intimated by India Government Mint, Noida.
2. If the materials are received in damaged condition, the same shall be summarily rejected and the supplier shall replace the same within 10 days at their own cost, on door delivery basis.
3. Packing Quantity and packaging may be changed marginally in case it is found necessary by purchaser without changing price.
4. The blanks should be of good surface finish and free from surface imperfections, porosity, flaking, indentation, roller marks, blisters, scratches, burrs and stains etc.
5. Consignment should not contain any bend / cut / un rimmed / oval / half round / moon blanks.
6. There should not be any mixed blanks of various other dimensions.