



Bid Number/बोली क्रमांक (बिड संख्या):
GEM/2024/B/5043327
Dated/दिनांक : 19-06-2024

Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	22-07-2024 12:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	22-07-2024 12:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	120 (Days)
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Finance
Department Name/विभाग का नाम	Department Of Economic Affairs
Organisation Name/संगठन का नाम	Security Printing And Minting Corporation Of India Limited (spmci)
Office Name/कार्यालय का नाम	Janpath
Total Quantity/कुल मात्रा	1
Item Category/मद केटेगरी	Electrolytic Silver Refining Plant of 120 Kg / Day Output
Minimum Average Annual Turnover of the bidder (For 3 Years)/बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का)	188 Lakh (s)
OEM Average Turnover (Last 3 Years)/मूल उपकरण निर्माता का औसत टर्नओवर (गत 3 वर्षों का)	188 Lakh (s)
Years of Past Experience Required for same/similar service/उन्हीं/समान सेवाओं के लिए अपेक्षित विगत अनुभव के वर्ष	3 Year (s)
MSE Exemption for Years Of Experience/अनुभव के वर्षों से एमएसई छूट/ and Turnover/टर्नओवर के लिए एमएसई को छूट प्राप्त है	Yes
Startup Exemption for Years Of Experience/अनुभव के वर्षों से स्टार्टअप छूट/ and Turnover/ टर्नओवर के लिए स्टार्टअप को छूट प्राप्त है	Yes
Document required from seller/विक्रेता से मांगे गए दस्तावेज़	Experience Criteria,Past Performance,Bidder Turnover,Certificate (Requested in ATC),OEM Annual Turnover,Compliance of BoQ specification and supporting document *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer

Bid Details/बिड विवरण	
Past Performance/विगत प्रदर्शन	80 %
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	No
Type of Bid/बिड का प्रकार	Two Packet Bid
Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय	2 Days
Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation

EMD Detail/ईएमडी विवरण

Advisory Bank/एडवाइजरी बैंक	Indusind bank
EMD Amount/ईएमडी राशि	500000

ePBG Detail/ईपीबीजी विवरण

Advisory Bank/एडवाइजरी बैंक	Indusind bank
ePBG Percentage(%) / ईपीबीजी प्रतिशत (%)	5.00
Duration of ePBG required (Months) / ईपीबीजी की अपेक्षित अवधि (महीने).	18

(a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy./जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित केटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज प्रस्तुत करने हैं। एमएसई केटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।

(b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable./ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए।

Beneficiary/लाभार्थी :

CHIEF GENERAL MANAGER

Chief General Manager, India Government Mint, Hyderabad P.B. No: 10, IDA Phase-II, Cherlapally, (R.R district), Hyderabad, Telangana Pin-500051, India.
(India Government Mint, Hyderabad)

Splitting/विभाजन

Bid splitting not applied/बोली विभाजन लागू नहीं किया गया.

MII Purchase Preference/एमआईआई खरीद वरीयता

MII Purchase Preference/एमआईआई खरीद वरीयता	Yes
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MSE Purchase Preference/एमएसई खरीद वरीयता

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes
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1. If the bidder is a Micro or Small Enterprise as per latest definitions under MSME rules, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
2. If the bidder is a Startup, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to their meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
3. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
4. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.
5. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
6. Preference to Make In India products (For bids < 200 Crore):Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023.
[OM No.1_4_2021_PPD_dated_18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.
7. Purchase preference will be given to MSEs having valid Udyam Registration and whose credentials are validated online through Udyam Registration portal as defined in Public Procurement Policy for Micro and Small

Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail themselves of the Purchase preference, the bidder must be the manufacturer / OEM of the offered product on GeM. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service and Buyer will decide eligibility for purchase preference based on documentary evidence submitted, while evaluating the bid. If L-1 is not an MSE and MSE Seller (s) has / have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such MSE Seller shall be given opportunity to match L-1 price and contract will be awarded for 25% (selected by Buyer) percentage of total quantity. The buyers are advised to refer the OM No. F.1/4/2021-PPD dated 18.05.2023 [OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if seller is validated on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents submitted.

8. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 80% of bid quantity, in at least one of the last three Financial years before the bid opening date to any Central / State Govt Organization / PSU. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

Pre Bid Detail(s)

Pre-Bid Date and Time	Pre-Bid Venue
05-07-2024 15:00:00	India Government Mint, Hyderabad P.B. NO: 10, IDA PHASE-II, Cherlapally, (R.R district), Hyderabad, Telangana Pin-500051, India. E-Mail: purchase.igmh@spmcil.com Phone: 040-27268352, 27268367 Note: The Bidder(s) or his Official representative who will participate in bidding process are invited to attend Pre-Bid Conference Meeting which will take place on the date specified in Bid document. Bidder(s) queries if any must reach to India Government Mint, Hyderabad at least 2 days prior to Pre-Bid Meeting date to the E-Mail ID provided in GeM bid document. The Bidder(s) or his Official representative who will participate in bidding process are requested to send the details of the Persons attending along with ID Proofs against the GeM bid to the above mentioned E-mail Id at least 2 days prior to the date of the Pre Bid Interaction date for making necessary Gate Pass arrangements.

Electrolytic Silver Refining Plant Of 120 Kg / Day Output (1 set)

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Buyer Specification Document/क्रेता विशिष्टि दस्तावेज़	Download
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Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Sumanta Goswami	500051,India Govt Mint, IDA, Phase-II Cherapally, (R.R district) Hyderabad , Telangana	1	120

Buyer Added Bid Specific Terms and Conditions/क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें**1. Generic**

Actual delivery (and Installation & Commissioning (if covered in scope of supply)) is to be done at following address

India Government Mint, Hyderabad
P.B. NO: 10, IDA Phase-II, Cherlapally
Hyderabad (R.R district),
Telangana, Pin-500051,
India

2. Generic

Bidders shall quote only those products (Part of Service delivery) in the bid which are not obsolete in the market and has at least 7 years residual market life i.e. the offered product shall not be declared end-of-life by the OEM before this period.

3. Generic

Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibility in this regards. GST reimbursement will be as per actuals or as per applicable rates (whichever is lower), subject to the maximum of quoted GST %.

4. Generic

Data Sheet of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.

5. Generic

Installation, Commissioning, Testing, Configuration, Training (if any - which ever is applicable as per scope of supply) is to be carried out by OEM / OEM Certified resource or OEM authorised Reseller.

6. Generic

Scope of supply includes Training: Number of employees to be trained

10
, Place for Training
India Government Mint, Hyderabad
and Duration of training
6
days.

7. **Generic**

Supplier shall ensure that the Invoice is raised in the name of Consignee with GSTIN of Consignee only.

8. **Generic**

1. The Seller shall not assign the Contract in whole or part without obtaining the prior written consent of buyer.
2. The Seller shall not sub-contract the Contract in whole or part to any entity without obtaining the prior written consent of buyer.
3. The Seller shall, notwithstanding the consent and assignment/sub-contract, remain jointly and severally liable and responsible to buyer together with the assignee/ sub-contractor, for and in respect of the due performance of the Contract and the Sellers obligations there under.

9. **Generic**

Without prejudice to Buyer's right to price adjustment by way of discount or any other right or remedy available to Buyer, Buyer may terminate the Contract or any part thereof by a written notice to the Seller, if:

- i) The Seller fails to comply with any material term of the Contract.
- ii) The Seller informs Buyer of its inability to deliver the Material(s) or any part thereof within the stipulated Delivery Period or such inability otherwise becomes apparent.
- iii) The Seller fails to deliver the Material(s) or any part thereof within the stipulated Delivery Period and/or to replace/rectify any rejected or defective Material(s) promptly.
- iv) The Seller becomes bankrupt or goes into liquidation.
- v) The Seller makes a general assignment for the benefit of creditors.
- vi) A receiver is appointed for any substantial property owned by the Seller.
- vii) The Seller has misrepresented to Buyer, acting on which misrepresentation Buyer has placed the Purchase Order on the Seller.

10. **Generic**

While generating invoice in GeM portal, the seller must upload scanned copy of GST invoice and the screenshot of GST portal confirming payment of GST.

11. **Inspection**

Pre-dispatch inspection at Seller premises (Fee/Charges to be borne by the BUYER): Before dispatch, the goods will be inspected by Buyer / Consignee or their Authorized Representative or by Nominated External Inspection Agency (independently or jointly with Buyer or Consignee as decided by the Buyer) at Seller premises (or at designated place for inspection as declared / communicated by the seller) for their compliance to the contract specifications. Fee/Charges taken by the External inspection Agency and any external laboratories testing charges shall be borne by the Buyer. For in-house testing, the Sellers will provide necessary facilities free of cost. Seller shall notify the Buyer through e-mail about readiness of goods for pre-dispatch inspection and Buyer will notify the Seller about the Authorized Representative/ Nominated External Inspection Agency and the date for testing. The goods would be dispatched to consignee only after clearance in pre-dispatch inspection. Consignee's right of rejection as per GTC in respect of the goods finally received at his location shall in no way be limited or waived by reason of the goods having previously been inspected, tested and passed by Buyer/ Consignee or its Nominated External Inspection Agency prior to the goods' shipment. While bidding, the sellers should take into account 7 days for inspection from the date of email offering the goods for inspection. Any delay in inspection beyond 7 days shall be on the part of the buyer and shall be regularised without Liquidated Damages.

When there is requirement of submission the advance sample, the seller shall inform the buyer promptly through emails about the date of submission of sample to the buyer nominated Inspection agency.

12. **Certificates**

Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.

13. **Warranty**

Bidder / OEM has to give an undertaking that after expiry of warranty period, it will provide AMC Service for next 3 years for the offered products at the rate not more than 3 % of contract price per annum. Buyer reserves the right to enter into an AMC agreement (covering preventive maintenance and servicing)with the Successful Bidder / OEM after expiry of the Warranty period at rate as mentioned above and the payment for the AMC charges would be made Quarterly after rendering of the AMC Services of the relevant AMC period. Performance Security of the successful bidder shall be forfeited if it fails to accept the AMC contract when called upon by the buyer. The original Performance Security of contract will be returned only after submission and verification of AMC Performance Security for 5% of total AMC value valid up to AMC period plus 2 months (if there is no other claim). (Undertaking of acceptance to be uploaded with bid).

14. **Warranty**

Warranty period of the supplied products shall be 1 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid.

15. **Warranty**

Over and above the normal Warranty terms as per GeM GTC, the successful bidder / OEM shall have to provide Comprehensive Warranty during the entire Standard warranty period as per contract. : The comprehensive warranty shall be covering the following scope

All parts to be covered

(Upload an undertaking with the bid confirming compliance by the bidder if Bidder is taking onus of this compliance. In case OEM is taking onus of this compliance, OEM undertaking is to be uploaded along with Bidder undertaking)

16. **Warranty**

Successful bidder will have to ensure that adequate number of dedicated technical service personals / engineers are designated / deployed for attending to the Service Request in a time bound manner and for ensuring Timely Servicing / rectification of defects during warranty period, as per Service level agreement indicated in the relevant clause of the bid.

17. **Warranty**

Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 5 days time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG).Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk and cost of the Seller besides forfeiture of PBG. Seller shall be liable to re-imburse the cost of such service / rectification to the Buyer.

18. **Forms of EMD and PBG**

Bidders can also submit the EMD with Account Payee Demand Draft in favour of

India Government Mint, Hyderabad (A Unit of SPMCIL)
payable at
Hyderabad

Bidder has to upload scanned copy / proof of the DD along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date.

19. **Forms of EMD and PBG**

Bidders can also submit the EMD with Fixed Deposit Receipt made out or pledged in the name of A/C (Name of the Buyer). The bank should certify on it that the deposit can be withdrawn only on the demand or with the sanction of the pledgee. For release of EMD, the FDR will be released in the favour of the bidder by the Buyer after making endorsement on the back of the FDR duly signed and stamped along with covering letter. Bidder has to upload scanned copy/ proof of the FDR along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date/ Bid Opening date

20. **Forms of EMD and PBG**

Bidders can also submit the EMD with Banker's Cheque in favour of

India Government Mint, Hyderabad (A Unit of SPMCIL)
payable at
Hyderabad

. Bidder has to upload scanned copy / proof of the BC along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date.

21. **Forms of EMD and PBG**

Bidders can also submit the EMD with Payment online through RTGS / internet banking in Beneficiary name

INDIA GOVERNMENT MINT (A UNIT OF SPMCIL) -COLLECTION A/C
Account No.
201003484303
IFSC Code
INDB0000004
Bank Name
INDUSIND BANK
Branch address
0004 - HYDERABAD

. Bidder to indicate bid number and name of bidding entity in the transaction details field at the time of on-line transfer. Bidder has to upload scanned copy / proof of the Online Payment Transfer along with bid.

22. **Forms of EMD and PBG**

Successful Bidder can submit the Performance Security in the form of Account Payee Demand Draft also (besides PBG which is allowed as per GeM GTC). DD should be made in favour of

India Government Mint, Hyderabad (A Unit of SPMCIL)
payable at
Hyderabad

. After award of contract, Successful Bidder can upload scanned copy of the DD in place of PBG and has to ensure delivery of hard copy to the original DD to the Buyer within 15 days of award of contract.

23. **Forms of EMD and PBG**

Successful Bidder can submit the Performance Security in the form of Fixed Deposit Receipt also (besides PBG which is allowed as per GeM GTC). FDR should be made out or pledged in the name of

India Government Mint, Hyderabad (A Unit of SPMCIL)
A/C (Name of the Seller). The bank should certify on it that the deposit can be withdrawn only on the demand or with the sanction of the pledgee. For release of Security Deposit, the FDR will be released in favour of bidder by the Buyer after making endorsement on the back of the FDR duly signed and stamped along with covering letter. Successful Bidder has to upload scanned copy of the FDR document in place of PBG and has to ensure delivery of hard copy of Original FDR to the Buyer within 15 days of award of contract.

24. **Forms of EMD and PBG**

Successful Bidder can submit the Performance Security in the form of Payment online through RTGS / internet banking also (besides PBG which is allowed as per GeM GTC). On-line payment shall be in

Beneficiary name

INDIA GOVERNMENT MINT (A UNIT OF SPMCIL) -COLLECTION A/C

Account No.

201003484303

IFSC Code

INDB0000004

Bank Name

INDUSIND BANK

Branch address

0004 - HYDERABAD

. Successful Bidder to indicate Contract number and name of Seller entity in the transaction details field at the time of on-line transfer. Bidder has to upload scanned copy / proof of the Online Payment Transfer in place of PBG within 15 days of award of contract.

25. **Buyer Added Bid Specific ATC**

Buyer Added text based ATC clauses

A. TECHNICAL SPECIFICATIONS AND SCOPE OF WORK FOR ELECTROLYTIC SILVER REFINING PLANT OF 120 KG / DAY OUTPUT WITH PURITY 999 PPT OR ABOVE:

I. Scope Of Supply:

Sl. No.	Item Descriptions	Numbers
1.	Complete electrolytic silver refining plant	
a)	Cells in pre-refining section	Minimum 3 nos. of cells
b)	Cells in final refining section	Minimum 2 nos. of cells
c)	Filter unit with integrated liquid re-launch system for refined silver collection in pre-refining section	1 no. for each cell
d)	Filter unit with integrated liquid re-launch system for refined silver collection in final refining section	1 no. for each cell
e)	Recirculation Tank with suitable pump for the electrolyte circulation in pre-refining section	1 no.
f)	Recirculation Tank with suitable pump for the electrolyte circulation in final refining section	1 no.
g)	High efficiency stabilized Current Rectifier in pre-refining section	1 no.
h)	High efficiency stabilized Current Rectifier in final refining section	1 no.
i)	Stair case & walking platform with fall protection	As required
j)	Automatic Nitric Acid dosing system for both pre-refining & refining section	As required

2. Other utilities required of suitable capacity for both the pre-refining section and final refining section :		
a)	Electrolyte Solution preparation unit	1 no. each for pre-refining section and final refining section
b)	Recovery unit for recovery of silver from spent electrolyte	1 no. each for pre-refining section and final refining section / 1 no. for capable of treating the spent electrolyte solution from both the section
c)	Electrolyte storage tank of minimum 2000 litres capacity or more	1 no. each for pre-refining section and final refining section
d)	Scrubber Units (1 st stage & 2 nd stage)	As required for both pre-refining section and final refining section
e)	Effluent Treatment Plant	
f)	Copper Recovery Unit	
g)	Vacuum Production System for cleaning of anode bags	
h)	Induction Melting Furnace of min 50 Kg capacity along with accessories like chiller, smoke/dust collection system with filter, electrical panel etc.	
i)	Drying apparatus e.g Hot Air Oven	
j)	List of spares & consumables for 2 years	

II. Technical Specifications:

1. General Specifications:

- i. The complete plant shall be liable of refining of silver with input purity $\geq 50\%$ to output purity $\geq 99.9\%$.
- ii. The plant shall be consisting of two sections:
- iii. Electrolytic Refining for input silver of purity $\geq 50\%$ to output purity $\geq 80\%$: termed as Pre-refining Section.
- iv. Electrolytic Refining for improving the purity of the feed material i.e input silver of purity $\geq 80\%$ to output purity $\geq 99.9\%$: termed as Final Refining Section.
- v. Both the Pre-refining Section & Final Refining Section shall be liable of working in 24 hours basis.
- vi. The complete plant must be able to produce 120 Kg / Day (in 24 hours) of dry silver (Dry silver implies the silver that can be directly taken for melting with moisture content $\leq 1\%$).

- vii. The refined silver received as product from the Pre-refining Section shall be melted into anode bars and the same must be fed into the final refining section.
- viii. The Pre-refining Section must be capable of producing sufficient amount output silver so that the same can be fed into the final refining section as and when required to get the final production of minimum 120 Kg / Day (in 24 hours).
- ix. Electrical specifications: 440V - 50 Hz three phase AC.
- x. The equipment above described will be manufactured in conformity with the applicable requirements of the following regulations:
- xi. Directive 2006/42/EC on machinery or equivalent.
- xii. Directive 2014/35/UE on electrical equipment designed for use within certain voltage limits or equivalent.
- xiii. Directive 2014/30/UE on electromagnetic compatibility or equivalent.
- xiv. The user is given the EC Declaration of Conformity or equivalent together with the machine use and maintenance.
- xv. Cable from refining unit to PDB will be in the scope of the bidder. The approximate length between proposed refining unit and PDB will be 100 meters approximately.
- xvi. Bus bar must be protected so that reaction due to humidity and chemical environment doesn't impact the outer surface of the bus bar.
- xvii. All critical equipment like circulation pump, scrubber unit pump etc. must have stand by, to ensure continuous operations.

2. Electrolytic Pre-refining Section:

- i. Suitable no. of cells (Minimum 3 nos.) must be provided to produce sufficient amount of output silver so that the same can be sufficiently fed up for all the cells in the next final refining section.
- ii. Each cell must be able to process minimum 12 raw silver anodes of approx. 12 kg or more.
- iii. The output purity of the product silver must be: $\text{Ag} \geq 80\%$ with input purity: $\geq 50\%$.
- iv. The electrolytic cells must be made of PPs (polypropylene with high chemical resistance) with truncated pyramid bottom for rapid discharge.
- v. The capacity of each cell must be of minimum 400 liters or as required.
- vi. Suitable safety covers in transparent plastic must be provided for each nos. of cells to always make the inside of the tank visible.
- vii. Supporting structure for lifting from the ground, made of stainless steel with anti-acid epoxy coating, with polypropylene grating walking surface.
- viii. Anodic / cathodic bar with connection to the current rectifier
- ix. Suitable anode fixing hooks must be provided
- x. There must be suitable no. of SS cathodes for deposition of silver.

- xi. Sufficient nos. of polypropylene bags or better must be provided for collecting the anode slime
- xii. Suitable mechanism must be provided for removing silver deposits by pneumatic pistons or motorized scrapper with timed operation
- xiii. Each cell bottom drainage system shall be consisting AISI 316 DN 125 stainless steel butterfly valve
- xiv. The plant shall be consisting of panel of liquid displacement valves
- xv. All proper inlet / outlet connection pipes must be provided
- xvi. Suitable electric and pneumatic panel must be provided for controlling installed devices
- xvii. Fumes extraction system for each cells must be provided and the same must be connected to a suitable fumes scrubber.

3. Electrolytic Final Refining Section:

- i. Suitable no. of cells (Minimum 2 nos.) must be there to produce 120 Kg/day refined silver with purity of 99.9 % or above.
- ii. Each cell must be able to process minimum 12 raw silver anodes of approx. 12 kg or more.
- iii. The output purity of the product silver must be: $Ag \geq 99.9\%$ with input purity: $\geq 80\%$.
- iv. The electrolytic cells must be made of PPs (polypropylene with high chemical resistance) with truncated pyramid bottom for rapid discharge.
- v. The capacity of each cell must be of minimum 400 liters or as required to get the minimum overall production of 120 Kg/day of 999 PPT or above silver.
- vi. Suitable safety covers in transparent plastic must be provided for each nos. of cells to always make the inside of the tank visible.
- vii. Supporting structure for lifting from the ground, made of stainless steel with anti-acid epoxy coating, with polypropylene grating walking surface
- viii. Anodic / cathodic bar with connection to the current rectifier
- ix. Suitable anode fixing hooks must be provided
- x. There must be suitable no. of SS cathodes for deposition of silver.
- xi. Sufficient nos. of polypropylene bags must be provided for collecting the anode slime
- xii. Suitable mechanism must be provided for removing silver deposits by pneumatic pistons or motorized scrapper with timed operation
- xiii. Each cell bottom drainage system shall be consisting AISI 316 DN 125 stainless steel butterfly valve
- xiv. The plant shall be consisting of panel of liquid displacement valves
- xv. All proper inlet / outlet connection pipes must be provided

- xvi. Suitable electric / pneumatic panel must be provided for controlling installed devices
- xvii. Fumes extraction system for each cell must be provided and the same must be connected to a suitable fumes scrubber.
- xviii. Filter Units:
 - xix. Removable filter for the collection, filtering and rinsing of the output refined silver product
 - xx. The filter shall be removable apparatus and it must be positioned under each electrolytic cell
 - xxi. Hermetically sealed filter made of a Circular tank of AISI 316 stainless steel.
 - xxii. Sealing lid with inlet/outlet piping connections as required must be provided.
 - xxiii. Filtering media must be made of Polypropylene or 'Buchner' Filter as required for complete collection, filtering and rinsing of the output refined silver product
 - xxiv. Diaphragm pump air operated of at least 50L / min for filtration and transferring the solution back into the circuit
 - xxv. Suitable arrangement for easy movement of the filter tank during the discharging procedures.

4. Recirculation Tanks:

- i. Each tank must be made of polypropylene with centrifugal pump to circulate the electrolyte and keep the right concentration/homogeneity to the solution.
- ii. Polypropylene tank must be equipped with level indicator and lid
- iii. Each tank must be capable of storing the required electrolyte solution as per the capacity of the cells connected to the circulation tank.
- iv. Thermoplastic centrifugal pump, magnetic drive 400 V - 50 Hz - 3 phase
- v. All required Inlet/outlet piping connections must be provided.

5. Current Rectifiers:

- i. Current rectifier having power supply: 400 V AC +/- 10% 50/60 HZ three-phase without neutral
- ii. DC output voltage: 12 V or higher
- iii. DC output current: 800 A or higher
- iv. Type of communication: panel
- v. Range adjustment: from 1% to 100% of full scale
- vi. Protection: dc output short circuit / power supply phase failure / over temperature
- vii. Max temperature: 40°C
- viii. Max humidity: 80% in the absence of condensation
- ix. Degree of protection: IP20
- x. These models must be complete with control panel with liquid crystal display to visualize the

following working parameters: Volt, Ampere, Encoder for adjustment of values, Six-digit total amps, partial Amps with five digits or pre-selection for the end of the power supply cycle after the working time selected, End of cycle timer programmable in: hours, minutes, seconds, Display of power diode temperature of each single module, IGBT temperature display of each single module, USB software / firmware for upgrade.

- xi. Rectifier must be air cooled.

6. Electrolyte Solution preparation unit:

- i. Each Electrolyte Solution preparation unit must be of suitable capacity for producing required amount of electrolyte solution i.e. Silver Nitrate (AgNO_3) from silver granules or flakes or any other form.
- ii. Each tank must be containing suitable heating element for effective and fast digestion of silver.
- iii. Each tank must be consisting of suitable temperature probe along with a temperature detector.
- iv. There must be suitable arrangement for display of the temperature at the panel.
- v. A suitable filter unit or any other arrangement shall be provided for filtering the electrolyte solution before transferring the same to the circulation tank.
- vi. Each tank must be equipped with suitable mixing arrangement or rotating drum for effective dissolution.
- vii. All required Inlet/outlet piping connections must be provided.

7. Recovery unit for recovery of silver from spent electrolyte:

- i. The unit shall be of suitable capacity and capability for recovery of elemental silver (Ag) from the electrolyte solution (AgNO_3).
- ii. The unit shall be made of polypropylene and on a base of epoxy painted Stainless Steel.
- iii. The unit shall be equipped with a suitable mechanical stirrer as required and truncated cone bottom with discharge valve.
- iv. One filter unit shall be dedicated to the unit for collection, filtering and rinsing of the output refined silver product.
- v. One suitable diaphragm pump must be provided for re-circulation of the solution to the circuit.

8. Electrolyte storage tank:

The plant shall be equipped with suitable capacity (minimum 2000 l) electrolyte storage tanks 2 nos. each for pre-refining section and final refining section.

9. Copper Recovery Unit:

The plant shall be equipped with suitable capacity of Copper Recovery Plant to recover elemental copper from the spent electrolyte solution.

10. Effluent Treatment Plant:

- i. Complete Effluent Treatment Plant with at least 2 nos. of polypropylene tanks of capacity minimum 2000 litres or more.
- ii. The ETP should be consisting of copper recovery unit for recovery of copper from the solution.
- iii. One storage tank made of polypropylene for recovery from bottom must be provided with capacity of minimum 2000 l. The same shall be equipped with bottom valve for collection of recovery after settlement.
- iv. The 1st storage tank must be for settlement and the 2nd storage tank must be for neutralization and to feed the solution to the filter press unit as per the design of OEM.
- v. The ETP should be consisting of a suitable capacity filter press with all necessary accessories for preparing cakes of sludge.

11. Fume Neutralization Unit:

At-least 2 stage, suitable capacity fume neutralization units must be there for complete absorption of toxic fumes e.g. NOx.

12. Vacuum Production System:

- i. One suitable capacity (minimum 300 L) vacuum production system with suitable arrangement for cleaning the anode bags placed in the electrolytic cells must be provided.
- ii. The same shall be made of polypropylene with acid resistance.

13. Induction Melting Furnace of min 50 Kg capacity:

- i. One no. of Induction melting furnace of minimum 50 Kg / batch (silver) capacity shall be provided for the production of un-refined silver anodes.
- ii. Cast iron ingot mould for preparation of anodes shall be provided.
- iii. The induction melting furnace shall be equipped with suitable tilting mechanism and other accessories like chiller, smoke absorbers with cartridge filters, electrical panel, temperature sensors, Tripping device for any mechanical or electrical issues, safety alarm, temperature set options and others as required.

14. Drying Apparatus:

- i. Both the section i.e. pre-refining section and final refining section must be equipped with a hot air oven for drying of output silvers from both sections before melting.
- ii. The ovens shall be of suitable capacity for drying the whole production of each section i.e. both pre-refining section and final refining section in a single lot or batch before taking to melting.
- iii. The ovens shall be equipped with suitable temperature sensors with display, temperature controller, fan or exhaust for removing the moisture from inside, tripping device for any mechanical or electrical issues.
- iv. The ovens shall be made of stainless steel from both inside and outside for rust free and acid resistance nature.

15. List of Documents to be submitted:

- i. List of P.C. Board.

- ii. Circuit diagrams for all P.C. Boards.
- iii. Detailed description of working of all P.C. Boards.
- iv. Components list/components specification.
- v. (S) Inter connection details of P.C. Board.
- vi. Maintenance manuals (Mechanical, Electrical and Electronics).
- vii. Cable assembly details for all the cables including connector details.
- viii. Electrical wiring diagram.
- ix. Circuit diagrams and working of power supplies inside the control system.
- x. Circuit diagrams and detailed working of spindle drive and feed drive.
- xi. Test points and signal wave form.
- xii. Trouble shooting techniques.
- xiii. Detailed maintenance manual and maintenance instructions on all peripherals like CRT, paper tape reader, tape punch etc.
- xiv. Detailed interface details including the machine magnetic documents.
- xv. Programmable machine interface details.
- xvi. Detailed description of the measuring systems used.
- xvii. Diagnostics manual with instructions to use in different diagnostic tests.
- xviii. Programming manual.
- xix. Operation manual.
- xx. Installation/commissioning procedures/documents.
- xxi. Hydraulic system details/manual.
- xxii. Refrigeration system details/manuals.
- xxiii. Lubrication charts.
- xxiv. Spare parts manuals.
- xxv. Certificates.
- xxvi. Specification of all types of greases, oils, lubricants etc., required to be used in the equipment indicating International/Indian source of supply of these items.
- xxvii. Manufacturing drawing and material specification of all Tooling items.
- xxviii. Instructions on care & storage of equipment prior to taking over by vendor for erection.

III. Warranty Clause:

- a) The supplier should submit the warrantee certificate that the goods supplied under the contract are new, unused of the most recent or current models and incorporate all recent improvements.

ents in design and material unless provided otherwise in the contract.

- b) The supplier further warrants that, all the goods and work supplied under this contract shall have no defect in design, materials or workmanship or from any act or omission of the supplier that may develop under normal use of the supplied goods in the conditions prevailing in the country of final destination.
- c) This warranty shall remain valid for 12 months from the date of final acceptance certificate. The purchaser shall promptly notify the supplier in writing of any claims arising out under this warranty.
- d) Upon receipt of such notice, the supplier shall repair or replace the defective goods or parts thereof without cost to the purchaser immediately.
- e) If the supplier having been notified fails to take remedial measure or rectify the defect within the period specified, the purchaser may proceed to take such action as may be necessary, at the supplier's risk and expense without prejudice or any other rights, which the purchaser may have against the supplier under the contract.

IV. Licenses And Permits:

Wherever applicable, the successful bidder shall ensure himself and also satisfy the Chief General Manager, Security Printing Minting Corporation of India Limited, Unit India Government Mint, Hyderabad that the successful bidder possesses the legal license/permit to use a particular product/ process/ design/ patent. The successful bidder shall be held responsible for all the civil/ criminal and tortuous consequences arising from any claim from any third party in this regard.

V. Training:

The supplier shall impart necessary training to the persons belonging to the Purchaser's organization for minimum 6 working days at IGMH site in the disciplines of :-

- a) Programming and operation - 6 persons
- b) Electrical and electronic maintenance - 2 persons
- c) Fluidics and Mechanical maintenance - 2 persons

VI. Erection & Commissioning:

The Supplier shall arrange for the erection, commissioning and successful demonstration for functioning of the plant with full utilities plant and accessories.

VII. Pre-Dispatch Inspection:

Supplier shall arrange a Pre-Dispatch Inspection at the supplier's factory site for at least 2 officials of IGMH for 3 days. The expenses towards travelling, boarding & lodging will be borne by IGMH.

PDI will include the following activities:

- a) All the scope of supplies complying specifications of the complete refining plant as mentioned in the tender shall be inspected during the PDI.
- b) Documents mentioned in the tender at the list of Documents to be submitted shall be checked during the PDI.

VIII. Delivery Schedule:

The delivery period for supply, installation, commissioning and Final Acceptance Test (FAT) is 20 weeks from the date of issue of P.O.

IX. Final Acceptance Test (FAT):

- a) The Final Acceptance Test must be conducted at IGMH site after successful installation and commissioning of the complete plant with all the utilities and accessories.
- b) The plant should run on 3 shifts i.e. 24 hours basis for consecutive 3 days.

- c) The plant shall be checked at its maximum capacity of 120 Kg/day of output silver of purity 99.9% or above with input purity of $\geq 50\%$.
- d) The plant should be running without any failures or plant/machine breakdown for the 3 days period.
- e) During the FAT the total output of the plant must be 120 Kg X 3 days = 360 Kg silver of purity $\geq 99.9\%$.
- f) The effective process loss for the complete process including two stage refining up to operation ETP must not exceed 0.5% in terms of Fine Contents.
- g) For any loss over and above the scheduled loss of more than 0.5% in terms of Fine Contents during the FAT shall be the liability of the supplier. For this purpose, the price of 999 PPT silver of IBJA will be considered as on the date of 1st day of FAT.
- h) FAT to be conducted from day 1 if any of the above parameter not achieved.
- i) After successful completion of FAT, Final Acceptance Certificate (FAC) will be issued.

B. ELIGIBILITY CRITERIA OR PRE- QUALIFICATION CRITERIA:

1. Experience & past performance:

The bidder (manufacturer or principal of authorized representative – hereinafter referred simply as ‘The Bidder’) shall be a manufacturer that has regularly for at least the last three years manufactured, supplied, erected, commissioned Electrolytic Silver Refining Plant of 120 Kg / Day Output With Purity 999 PPT or above with the same or higher specifications of at least one number in last five years ending on 31.03.2023. At least one number of the product offered for supply should be in successful operation for at least one year on the date of bid opening.

Note: For MSEs and Start-ups (registered for the tendered item) all Experience & past performance criteria shall be exempted. Subject to Technical and Quality Compliance.

2. Capability Equipment & manufacturing Facilities:

The bidder must have an annual capacity to manufacture and supply at least one no of Electrolytic Silver Refining Plant of 120 Kg / Day Output With Purity 999 PPT or above.

3. Financial Standing:

i. The average annual financial turnover of the bidder firm (manufacturer or principal of authorized dealer) during the last three years, ending on 31.03.2023, should be at Rs. 188 Lakhs as per the annual report (audited balance sheet and profit & loss account) of the relevant period, duly authenticated by a Chartered Accountant/ Cost Accountant in India.

ii. The net worth of the firm should not

a) be negative on 31.03.2023 and

b) have eroded by more than 30% in the last three years, ending on 31.03.2023.

Note: For MSEs and Start-ups (registered for the tendered item) all financial criteria shall be exempted. Subject to Technical and Quality Compliance.

C. GENERAL INSTRUCTIONS TO THE TENDERER (GIT) & GENERAL CONDITIONS OF THE CONTRACT (GCC):

The following are integral part of this GeM bid document. Bidders have to upload duly signed General Instructions to the Tenderer (GIT) & General Conditions of the Contract (GCC) as a token of acceptance of all the terms and conditions.

<https://spmCIL.com/uploaddocument/GIT3.0.pdf>

<https://spmCIL.com/uploaddocument/GCC3.0.pdf>

Disclaimer/अस्वीकरण

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for [attached categories](#), trials are allowed as per approved procurement policy of the buyer nodal Ministries)
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

[This Bid is also governed by the General Terms and Conditions/ यह बिड सामान्य शर्तों के अंतर्गत भी शासित है](#)

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws./जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।

---Thank You/धन्यवाद---