

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
VIKRAM SARABHAI SPACE CENTRE (VSSC)
THIRUVANANTHAPURAM**

Tender for Direct gold plating of steel flow field plates

Bids to be submitted online

Tender No.: VSSC/PURCHASE UNIT III (SPRE)/VS202300448401 dated 20-10-2023

A. Tender Details

Tender No : **VSSC/PURCHASE UNIT III (SPRE)/VS202300448401**

Tender Date : **20-10-2023**

Tender Classification: **GOODS**

Purchase Entity : **PURCHASE UNIT III (SPRE)**

Centre : **VIKRAM SARABHAI SPACE CENTRE (VSSC)**

Direct gold plating of steel flow field plates

Foreign vendors are not permitted to quote. Quotations directly from foreign OEM/ or from agents quoting on behalf of foreign OEMs are not allowed to participate in this tender. Last minute clarification on tenders will not be entertained. -This is an E Tender. Hence Postal/Fax/Email tenders will not be accepted. -Technical Bids will be opened at the scheduled due date & time . No further intimation will be sent to you in this regard. Interested parties can attend the Technical Bid Opening to know the details.

A.1 Tender Schedule

Bid Submission Start Date : **20-10-2023 17:10**

Bid Clarification Due Date : **26-10-2023 10:00**

Bid Submission Due Date : **08-12-2023 14:00**

Bid Opening Date : **08-12-2023 14:01**

B. Tender Attachments

Technical Write-up/Drawings

Document : Requirements

Instructions To Vendors

2. PROFORMA FOR INSTRUCTIONS TO TENDERERS AND TERMS & CONDITIONS OF TENDER (IG)

1. (a) All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.

(b) Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of nonacceptance of tender, the tenderer will have to remove the samples at his own expense.

(c) Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer.

(d) Specifications: Stores offered should strictly confirm to our specifications. Deviations, if any, should be clearly indicated by the tenderer in his quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotations. Test Certificates, wherever necessary, should be forwarded along with supplies. Wherever options have been called for in our specifications, the tenderer should address all such options. Wherever specifically mentioned by us, the tenderer could suggest changes to specifications with appropriate response for the same.

2. (a) All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.

(b) Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of nonacceptance of tender, the tenderer will have to remove the samples at his own expense.

(c) Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer. (d) Specifications: Stores offered should strictly confirm to our specifications. Deviations, if any, should be clearly indicated by the tenderer in his quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotations. Test Certificates, wherever necessary, should be forwarded along with supplies. Wherever options have been called for in our specifications, the tenderer should address all such options. Wherever specifically mentioned by us, the tenderer could suggest changes to specifications with appropriate response for the same.

3. ACCEPTANCE OF STORES:

- (a) The stores shall be tendered by the Contractor for inspection at such places as may be specified by the purchaser at the Contractor's own risk, expense and cost.
- (b) It is expressly agreed that the acceptance of the stores Contracted for, is subject to final approval by the purchaser, whose decision shall be final.
- (c) If, in the opinion of the purchaser, all or any of the stores do not meet the performance or quality requirements specified in the Purchase Order, they may be either rejected or accepted at a price to be fixed by the purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the Contractor.
- (d) If the whole or any part of the stores supplied are rejected in accordance with Clause No. (c) above, the purchaser shall be at liberty, with or without notice to the Contractor, to purchase in the open market at the expense of the Contractor stores meeting the necessary performance and quality Contracted for in place of those rejected, provided that either the purchase, or the agreement to purchase, from another supplier is made within six months from the date of rejection of the stores as aforesaid.

4. As a Government of India Department, this office is exempted from payment of Octroi and similar local levies. Tenderers shall ensure that necessary Exemption Certificates are obtained by them from the Purchase Officer concerned to avoid any payment of such levies.

- 5. a) Your offer should be valid for 90 days from the date of opening of the tender.
- b) Prices are required to be quoted according to the units indicated in the annexed tender form. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.

6. DESPATCH: The Contractor is responsible for obtaining a clear receipt from the Transport Authorities specifying the goods despatched. The consignment should be despatched with clear Railway Receipt/Lorry Receipt. If sent in any other mode, it shall be at the risk of the Contractor. Purchaser will take no responsibility for short deliveries or wrong supply of goods when the same are booked on 'said to contain' basis. Purchaser shall pay for only such stores as are actually received by them in accordance with the Contract.

7. d) The term "Purchase Order" shall mean the communication signed on behalf of the Purchaser by an Officer duly authorised intimating the acceptance on behalf of the Purchaser on the terms and conditions mentioned or referred to in the said communication accepting the tender or offer of the Contractor for supply of stores or plant, machinery or equipment or part thereof.

8. GUARANTEE & REPLACEMENT:

- (a) The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance.
- (b) For a period of twelve months after the acceptance of the stores, if any defects are discovered

therein or any defects therein found to have developed under proper use, arising from faulty stores design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called upon to do so within a period of 14 months from the date of acceptance thereof by the purchaser who shall state in writing in what respect the stores or any part thereof are faulty.

(c) If, in the opinion of the purchaser, it becomes necessary to replace or renew any defective stores such replacement or renewal shall be made by the Contractor free of all costs to the purchaser, provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said period of 14 months from the date of acceptance thereof.

(d) Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores.

(e) The decision of the Purchaser notwithstanding any prior approval or acceptance or inspection thereof on behalf of the Purchaser, as to whether or not the Stores supplied by the Contractor are defective or any defect has developed within the said period of 12 months or any other period or as to whether the nature of defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor.

(f) To fulfill guarantee conditions outlined in (a) to (e) above, the Contractor shall, at the option of the Purchaser, furnish a Bank Guarantee (as prescribed by the Purchaser)

9. PACKING FORWARDING & INSURANCE: The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense of the Contractor. The purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the Contractor and the Purchaser shall pay only for such stores as are actually received in good condition in accordance with the Contract.

10. Preference will be given to those tenders offering supplies from ready stocks and on the basis of FOR destination/delivery at site.

11. PRICES: Tender offering firm prices will be preferred. Where a price variation clause is insisted upon by a tenderer, quotation with a reasonable ceiling should be submitted. Such offers should invariably be supported by the base price taken into account at the time of tendering and also the formula for any such variation/s.

12. REJECTED STORES:

Rejected stores will remain at destination at the Contractor's risk and responsibility. If instructions for their disposal are not received from the Contractor within a period of 14 days from the date of receipt of the advice of rejection, the purchaser or his representative has, at his discretion, the right to scrap or sell or consign the rejected stores to Contractor's address at the Contractor's entire risk and expense, freight being payable by the Contractor at actuals.

13. Sales Tax and/or other duties/levies legally leviable and intended to be claimed should be

mentioned in the price bid template. If nothing is mentioned, then it will be presumed that the rate quoted is inclusive of all taxes/duties.

14. SECURITY DEPOSIT: Wherever, the Purchase Order value is Rs. 5.00 Lakhs or more, on acceptance of the tender, the Contractor shall, at the option of the Purchaser and within the period specified by him, deposit with him, in cash or in any other form as the Purchaser may determine, security deposit not exceeding ten percent of the value of the Contract as the Purchaser shall specify. If the Contractor is called upon by the Purchaser to deposit, 'Security' and the Contractor fails to provide the security within the period specified, such failure shall constitute a breach of the Contract, and the Purchaser shall be entitled to make other arrangements for the re-purchase of the stores Contracted at the risk of the Contractor in terms of Sub-Clause (ii) and (iii) of clause regarding Delivery. (b) hereof and/or to recover from the Contractor, damages arising from such cancellation.

15. TERMS & CONDITIONS OF TENDER

16. TEST CERTIFICATE: Wherever required, test certificates should be sent along with the despatch documents.

17. The authority of the person signing the tender, if called for, should be produced.

18. The Purchaser reserves the right to place order on the successful tenderer for additional quantity up to 25% of the quantity offered by them at the rates quoted.

19. The purchaser shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portions of the quantity offered and the tenderers shall supply the same at the rates quoted.

20. The tenderer should supply along with his tender, the name of his bankers as well as the latest Income-Tax clearance certificate duly countersigned by the Income-Tax Officer of the Circle concerned under the seal of his office, if required by the Purchaser.

21. The term Contractor shall mean, the person, firm or company with whom or with which the order for the supply of Stores is placed and shall be deemed to include the Contractor's successors, representative, heirs, executors and administrators unless excluded by the Contract.

22. The term Purchaser shall mean the President of India or his successors or assigns.

23. The term "Stores" shall mean what the Contractor agrees to supply under the Contract as specified in the Purchase Order including erection of plants & machinery and subsequent testing, should such a condition is included in the Purchase Order.

3. PPP Make in India(Non- Divisible Items-All Classes of Suppliers)

1. A committee (with an external expert from a practicing cost accountant or practicing chartered accountant, if required) constituted for independent verification shall verify the self-declarations & auditor's / accountant's certificates on random basis, as per the requirements.
2. a) The subject item falls under Non-divisible category. b) The offers are sought from all classes of suppliers.
3. Definitions: A supplier or service provider, whose goods, services or works offered for procurement, has local content: a) Equal to or more than 50% : Class-I local supplier. b) Minimum 20% but less than 50% : Class-II local supplier. c) Less than 20% : Non-local supplier.
4. False declarations will be in breach of code of the integrity for which a bidder or its successor's will not be eligible/debarred for purchase preference from further tenders / pending tenders for two years along with other actions as may be applicable.
5. In case of a complaint received from any local supplier indicating a need for review / verification of Local content of successful vendor / awarded vendor, for accepting a complaint from such complainant (w.r.t the false declaration given by the successful vendor on the local content), a complaint fee of Rs.2Lakhs or 1% of the locally manufactured items being procured (subject to a maximum Rs. 5Lakhs), whichever was higher, to be paid by demand draft by the complainant. In case, the complaint is found to be incorrect, the complaint fee shall be forfeited. In case, the complaint is upheld and found to be substantially correct, deposited fee of the complainant would be refunded without any interest.
6. In cases the quoted price is in excess of Rs.1000 Lakhs (including duties, taxes and freight & Insurance) the 'Class-I & II local supplier shall provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in case of suppliers other than companies) giving the percentage of local content.
7. In line with Public Procurement (Preference to Make in India), Order 2017 & its amendments issued by Govt. of India from time to time with a view to support the Indian industries, ISRO has implemented "Purchase Preference Policy". The "Purchase Preference" is applicable for the "Class-I Local Supplier" for the goods/ services/ works covered in this tender, subject to the following terms & conditions:-
8. 'L1' means the lowest technically accepted tender / bid / quotation (i.e. lowest landed cost including duties, taxes and freight & Insurance).
9. 'Local content' means the amount of value added in India (i.e. indigenous items/services added in the offered products/ services/ works) be the total value of the item offered (excluding net domestic

indirect taxes) minus the value of imported content in the item (including all customs duties/IGST) as a proportion of the total value (excluding net domestic indirect taxes), in percent.

10. 'Margin of purchase preference' means the maximum extent to which the price quoted by the "Class-I local supplier" above the L1 (landed cost).

11. Purchase Preference Policy:- Goods/Works which are not divisible (ie., required quantity is 1 or as a package) and Services:

a) If L1 is from a 'Class-I local supplier', the contract will be awarded to L1 bidder.

b) If L1 is not from a 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price subject to local supplier's quoted price falling within the margin of purchase preference (i.e. 20%) and the contract shall be awarded to such 'Class-I local supplier' subject to matching the L1 price (inclusive of duties, taxes and freight & insurance).

c) In case such lowest eligible 'Class-I local supplier' fails to match the L1 price, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on, and order/contract shall be awarded accordingly. In case where none of the 'Class-I local supplier' within the margin of purchase preference agree to match the L1 price, then the order/contract shall be awarded to the original L1 Bidder.

12. The 'Class-I & II local supplier' should provide a "Self Certification" along with technical offer indicating that the item offered meets the minimum local content [as per Sl. No.(3)] as called for in the tender and provide the percentage of local content along with details of the location(s) at which the local value addition is made. In case of two bid tenders, it is mandatory to indicate compliance to MLC(minimum Local Content) in technical bid zone.

13. The ink-signed certificate shall be provided on vendors letter head along with the offer (in case of online tender, copy of ink-signed certificate shall be uploaded along with your offer under concerned tab. Original in Hard copy shall be produced on request). In case of non-submission of certificate, the purchase preference shall not apply.

14. The margin of Purchase Preference shall be up to 20%.

15. The Public Procurement (Preference to Make in India), Order 2017 issued by Govt. of India indicates that if there are any general or specific restrictive clauses to restrict participation of Indian companies in those countries procurement tenders, reciprocity clause need to be invoked as per the order. Hence, if ISRO or Govt. of India come across that Indian suppliers of an item are not allowed to participate and / or compete in procurement by your government, the bid submitted by you will be not be considered and excluded from eligibility for procurement. Please note this point.

16. Works means all works as per Rule 130 of GFR- 2017, and will also include 'turnkey works'. Works includes Engineering, Procurement and Construction (EPC) contracts and services include

System Integrator (SI) contracts.

4. Specific terms and conditions to the tender:

1. As per Notification No. 5/2018-CUSTOMS DTD. 25/01/2018, we are eligible for concessional payment of customs duty and IGST. Hence CD & IGST element shall be specified separately in the quotation. Necessary exemption certificate shall be issued upon request.

2. If any bidder submits forged / false document along with the tender, offer of such vendors will be summarily rejected and such bidders will be blacklisted for all future tenders.

3. In case if any Bidder is submitting their Offer on HIGH SEA SALES BASIS: then the Indian Trader shall submit the following documents mandatorily along with their offer.

- a.The Import Export Code of the Indian Trader
- b.Bank Authorization Code of the Indian Trader
- c.GSTIN of the Indian Trader

4. In case of Foreign/Import Tenders:

- a.The bidder shall clearly mention the full ordering address in capital letters.
- b.The bidder shall clearly mention their bankers address including their SWIFT code compulsorily.
- c.Any change of address shall be compulsorily supported by Documentary proof issued either by Governmental agencies or by Chamber of Commerce.
- d.Foreign Principals Proforma Invoice/quote indicating the Agency Commission payable to the Indian Agent and the nature of after sales service to be rendered by the Indian Agent.
- e.Copy of the Agency Agreement between the Foreign Principal and the Indian Agent, and the precise relationship between them their mutual interest in the business.
- f.Registration and Item empanelment of the Indian Agent.

5. In order to avail of the benefits extended to by Govt. of India to the Micro and Small Sectors, please submit attested copy of the valid Entrepreneur Memorandum Part-II signed by the General Manager, District Industries Centre Udyog Adhar NSIC Registration Certification along with your offer.

6. Liquidated Damages The delivery period quoted should be realistic. The delivery period so quoted and mentioned in the order is the essence of the order/contract. In case of delay in delivery of material as per the delivery schedule, Liquidated Damage @ 0.5% per week or part thereof on the undelivered portion subject to a maximum of 10% of the contract value shall be levied. Wherever, installation and commissioning is also involved, the supply will be deemed to have been completed only when the entire Stores is supplied, installed and accepted.

7. Note : - Clause No. 6, 9, 10 & 12 are mandatory and offers of the vendors who have not agreed for the above conditions will be excluded from the procurement process. Micro and Small Vendors are not

exempted from the submission of Security Deposit.

8. Our standard delivery term is FOR, VSSC. In case any vendor offers delivery term of Ex-works, Packing and Forwarding charges if any should be indicated separately either as a percentage of the quoted rate or as a Lumpsum amount.

9. Our standard payment term is 100% within 30 days for indigenous orders and Sight Draft for foreign orders

10. Performance Bank Guarantee : - Wherever products offered carry warranty, the warranty should be for one year or as per manufacturers standard warranty term. Against such cases, please confirm submission of Performance Bank Guarantee. The Performance Bank Guarantee should be for 3% of the order value covering the warranty period obtained from any Scheduled Bank on Rs.200/- Non Judicial Stamp Paper and should be valid beyond 2 months from the completion of the warranty period. Alternately vendors can request for withholding 3% payment till completion of the warranty period.

11. Please quote applicable GST separately.

12. Please submit the Technical Details Catalogue Data Sheets.

13. Security Deposit : - Wherever the offer value is Rs. 5.00 Lakhs or above, the successful tenderer should submit Security Deposit @3% of the order value by way of Bank Guarantee FD Receipt. The Bank Guarantee shall be obtained from any Scheduled Bank on Rs.200/- Non Judicial Stamp Paper and should be valid beyond 2 months from the completion of all contractual obligations.

14. The offer should be valid for a period of minimum 90 days from the date of opening of Tender.

15. The other attached forms are our standard terms and conditions, which are to be complied with. If any conflict arise between the specific terms and standard terms, then in those cases, the specific terms will prevail over the standard terms.

Note: For Advertised Tenders in Newspapers Hosted in ISRO VSSC Websites (Public Tenders) only: Technical Bids will be opened at the scheduled due date & time. No further intimation will be sent to you in this regard. Interested parties can attend the Technical Bid opening at their own cost to know the tender details.

16. Where agents participate in a tender;

(a) Either the Indian agent on behalf of the Principal OEM or Principal OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.

(b) If an agent submits bid on behalf of the Principal OEM, the same agent shall not submit a bid on

behalf of another Principal OEM in the same tender for the same item product.

17. Wherever samples are required to be submitted along with the quotation, offer without sample will not be considered.

5. Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA

1. 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.

Competent Authority for the purpose of registration shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT).

2. Any false declaration and non-compliance of the above would be a ground for immediate rejection of offer or termination of the contract and further legal action in accordance with the laws.

3.

Validity of Registration: Registration should be valid at the time of submission of bids and should be valid at the time of placement of order.

C. Bid Templates

C.1 Technical Bid - Direct gold plating of steel flow field plates

1. GOLD PLATING of stainless steel coupons (size: 100*25 mm approx)

Item specifications for GOLD PLATING

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Type of plating	Direct gold plating on SS316 substrate without any intermediate layer	Yes / No / Explain		
2	Visual Inspection at 4X magnification	The plating shall be uniform with 100% coverage and without any delaminating, edge build-up, dendrites and other obvious defects, on observation under 4X magnification	Yes / No / Explain		
3	Potentiostatic testing	Corrosion Current density at +0.8 V (with respect to SCE) static potential with O ₂ gas purging at 80 °C in 1M H ₂ SO ₄ for 100 hrs shall be less than 1 micro-A/cm ² . No apparent defects shall form during the test.	Yes / No / Explain		

4	Bend test	Bend the plated substrate (0.5 mm) with the coated surface away over a mandrel (4 mm diameter) until its two legs are parallel. Examine the deformed area visually under 4X magnification. No flaking, blistering or peeling shall be apparent. Note: Cracks are not indicative of poor adhesion unless the coating can be peeled back with a sharp instrument	Yes / No / Explain		
5	Heat/Quench Test	Heat the coated article in an oven for a sufficient time for it to reach the temperature of 200 ± 5 °C. Then quench the part in water at room temperature. No flaking, blistering or peeling shall be apparent. Note: If the deposited coating cannot be peeled or lifted from the substrate in an area adjacent to the blister(s), the appearance of blisters should not be interpreted as evidence of inferior adhesion.	Yes / No / Explain		
6	Peel Test	Adhesive-backed tape shall be pasted on 20 mm wide substrate. The tape shall be pulled off at angle of 90° to the surface. Failure in the coating/substrate interface is evidence of inadequate adhesion.	Yes / No / Explain		

7	Thickness assessment	Thickness of the gold plating shall be calculated using geometric surface area considering uniform coverage of the surface and weight of gold deposited.	Yes / No / Explain		
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2. GOLD PLATING of stainless steel flow field plates type-1

Item specifications for GOLD PLATING

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Substrate	SS316 L flow field plate	Yes / No / Explain		
2	Dimensions	As per drawing no. FCPS-02-00-02-01-01-001-007	Yes / No / Explain		
3	Type of coating	Gold electroplating of SS316 L without intermediate layer	Yes / No / Explain		
4	Purity of gold	99.9 %	Yes / No / Explain		
5	Thickness of coating	0.2 ± 0.05 µm	Yes / No / Explain		
6	Visual Inspection at 4X magnification	The plating shall be uniform with 100% coverage and without any delamination, edge build-up, dendrites and other obvious defects.	Yes / No / Explain		

Document : component drawing

3. GOLD PLATING of stainless steel flow field plates type-2

Item specifications for GOLD PLATING

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Substrate	SS316 L flow field plate	Yes / No / Explain		

2	Dimensions	As per drawing no. FCPS-02-00-02-01-01-001-06	Yes / No / Explain		
3	Type of coating	Gold electroplating of SS316 L without intermediate layer	Yes / No / Explain		
4	Purity of gold	99.9 %	Yes / No / Explain		
5	Average thickness of coating	0.2 ± 0.05 µm	Yes / No / Explain		
6	Visual Inspection at 4X magnification	The plating shall be uniform with 100% coverage and without any delamination, edge build-up, dendrites and other obvious defects.	Yes / No / Explain		

Document : component drawing

Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Gold plating shall be carried out directly on SS-316 L plates, without any intermediate coating.		-		
2	Initially gold plating of coupons shall be carried out. Material for coupons shall be provided to party by VSSC for free of cost. No bank guarantee shall be provided for the same since cost of material for coupons is negligible.		-		

3	Clearance for gold plating of flow field plates shall be granted only after satisfactory evaluation of gold plating on the coupons.		-		
4	The flow field plates and material for coupons shall be supplied by VSSC as free issue material (FIM). Fabricated flow field plates, shall be delivered to your site and the plated flow field plate shall be collected from works by VSSC personnel.		-		
5	The total cost of FIM is Rs. 20000 for 20 nos. of flow field plates. Party shall provide necessary bank guarantee for the same.		-		
6	Gold plating shall be carried out on 20 nos. of fuel cell flow field plates fabricated from SS316L material as per the drawing no FCPS-02-00-02-01-01-001-006 and FCPS-02-00-02-01-01-001-07		-		

7	Gold plating of flow field plates shall be carried out using the same process parameters and thickness as for accepted coupons. Additional test coupon (3 nos each) shall be realised in the beginning & end of flow field plate plating.		-		
8	Plating of flow field plates shall be completed within three weeks from the date of clearance based on evaluation of coupons.		-		
9	Plates realised shall be free from any residual chemicals. Final cleaning bath shall be reflecting pH 7.0.		-		
10	Thickness of plated gold shall be in the range 0.150 - 0.250 μm as computed from weight recorded using a balance with a resolution of 1 mg.		-		

11	Party shall provide costing formula based on the amount of gold deposited on each plate and extant price of gold. This shall include fixed cost as well as variable cost covering the amount of gold deposited on individual plate and the rate of gold.		-		
12	Plating shall be carried out in the presence of VSSC personnel. Consolidated record of weighing shall be made available for further scrutiny and the same shall form the basis for accounting.		-		
13	party shall provide copy of valid calibration certificate of weighing balance used for weighing of gold deposit		-		
14	party shall provide reference for bullion gold price for cost calculation		-		

Supporting Documents required from Vendor

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Part Supply	Yes / No / Explain	
2	Part Supply	Yes / No / Explain	
3	Applicable Taxes and other costs,	Yes / No / Explain	
4	Delivery Terms.	Yes / No / Explain	
5	Delivery Period(Staggered supply)	Yes / No / Explain	
6	Liquidated Damages (Applicable beyond the delivery period mentioned in this tender @ 0.5% per week or part thereof on the undelivered portion subject to a maximum of 10% of the contract value. Mandatory compliance required).	Yes / No / Explain	
7	Payment Term: (Our Default payment term: For indigenous orders: 100% within 30 days after receipt and acceptance of item at our site. For import cases: 100% by Sight Draft with Bank Charges to respective accounts. NOTE: CONSEQUENT TO COVID 19 PANDEMIC AND AS PER EXTANT GUIDELINES FROM DEPARTMENT OF SPACE, NO ADVANCE PAYMENT IS PAYABLE TO THIS TENDER).	Yes / No / Explain	
8	PO Ordering Address with Name and Contact Details of Sales Person concerned (e-mail and phone number).	Yes / No / Explain	
9	Any Other Terms	-	
10	Offer validity	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
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1	GOLD PLATING of stainless steel coupons (size: 100*25 mm approx)	10.00 Nos.					
2	GOLD PLATING of stainless steel flow field plates type-1	10.00 Nos.					
3	GOLD PLATING of stainless steel flow field plates type-2	10.00 Nos.					

Common charges (Applicable for all items)

Freight charge	
P&F Charges	

D. Free Issue Material (FIM) Details

FIM Readiness Date :

SI No	FIM Item Name	Size if applicable	Unit	Quantity	Value
1	stainless steel flow field plates type-2		Nos.	10.00	10000.00
2	stainless steel flow field plates type-1		Nos.	10.00	10000.00