

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

**Tender for Manufacture and Supply of Cast Iron Surface Plate of Size
4.0 m x 3.0 m x 0.3 m for SPS realisation**

Bids to be submitted online

**Tender No.: VSSC/PURCHASE UNIT VI (CMSE Purchase)/VS202400116901 dated
28-03-2024**

A. Tender Details

Tender No : **VSSC/PURCHASE UNIT VI (CMSE Purchase)/VS202400116901**

Tender Date : **28-03-2024**

Tender Classification: **GOODS**

Purchase Entity : **PURCHASE UNIT VI (CMSE Purchase)**

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

Manufacture and Supply of Cast Iron Surface Plate of Size 4.0 m x 3.0 m x 0.3 m for SPS realisation

Manufacture and Supply of Cast Iron Surface Plate of Size 4.0 m x 3.0 m x 0.3 m for SPS realisation (VSSC/PURCHASE UNIT VI (CMSE Purchase)/CMSE/2024001169

Attach your quotation in PDF format

A.1 Tender Schedule

Bid Submission Start Date : **28-03-2024 14:14**

Bid Clarification Due Date : **09-04-2024 09:10**

Bid Submission Due Date : **26-04-2024 14:00**

Bid Opening Date : **26-04-2024 15:00**

B. Tender Attachments

NA

Instructions To Vendors

1. GENERAL TERMS & CONDITONS (WITH WARRANTY)

1. 10.Security deposit : You should submit Bank Guarantee (Rs.200/- stamp paper) for 3% order value (DOS:PM:09 format enclosed) from a Nationalised/Scheduled bank valid for 2 months beyond the date of completion of order along with order acknowledgement. This security deposit without any interest thereon shall be returned to the Contractor on successful completion of the contract or shall be adjusted/forfeited against non-fulfillment of any of the contractual obligations.

2. 11.Warranty: Warranty should be indicated in the quotation if applicable

3. 12.Performance Bank Guarantee: You shall furnish performance Bank Guarantee in Rs.200/-non judicial stamp paper from a Nationalized/Scheduled Bank Equivalent to 3% of the order value which shall be valid beyond 2 months from the expiry of warranty/guarantee period.

4. 13.We would like to have more than one source of supply and the final orders will be given accordingly to the qualified bidders.

5. 16. VSSC-CMSE has a right to cancel the tender without assigning any reason etc.

6. 17. If you are unable to submit offer, the same may be communicated to us before the due date.

7. 18. "If any of the bidders submit any forged or false documents along with the tender, such tenders will be summarily rejected and such bidders will be blacklisted for all future tenders."

8. 19. All Tax invoices issued by suppliers/Service providers on or after July 01,2017 shall invariably bear their GST Registration No.(GSTIN) applicable GST rates and HSN Code. In the absence of which, the invoices shall not be processed for payment.

9. 2.Please keep & confirm the offer validity minimum 90 days from the date of opening of tender.

10. 3.GST extra as applicable as per HSN code. Specify HSN code with applicable GST in your quotation.

11. 6.Delivery term: Our standard delivery term is FOR : CMSE-VSSC. In case of Ex- Works, please indicate packing, forwarding & freight charges up to VSSC, separately. (For more details please see Form No. 19/20/21/22/ 23 attached)

12. 8.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 / UdyogAdhar/ NSIC Registration Certification along with your offer.

13. 9.Liquidated damages: The delivery period quoted by you and stipulated in the Purchase Order shall be deemed to be the essence of the order and delivery must be completed not later than the dates specified therein as otherwise VSSC shall have the right to recover a sum @ 0.5% of the order value per week/part of a week or 0.5%of the value of the stores for which the delivery is delayed for each week of delay, as the case may be, subject to a maximum of 10% of the order value.

14. (b) 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.

15. (c) 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

16. General Conditions:

1.Payment: Our standard payment term is 100% within 30 days on receipt and acceptance of the item at our site .

2. PPP Make in India(Non- Divisible Items-Class I & II Local Suppliers Only)

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 sought only from Class-I & Class-II local suppliers

3. Definitions: A supplier or service provider, whose goods, services or works offered for procurement, has local content: i. Equal to or more than 50%: Class-I local supplier. ii. More than 20% but less than 50%: Class-II local supplier. iii. Less than or equal to 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.

3. This tender is proposed as a DOMESTIC PUBLIC TENDER. This tender is restricted only to Class-I and Class-II Local Suppliers as defined under DPIIT Order dtd 04/06/2020- Preference to Make in India Order-2017 Revision. Non-Local Suppliers need not quote.

Foreign OEMs/Agents quoting on behalf of Foreign OEMs are not permitted to quote. High Sea Sales Quotes not permitted. The bids shall be in INR only.

Purchase preferences to eligible vendors are applicable as per extant notifications issued by the Government of India.

The Class-I/Class-II Local suppliers, at the time of submitting their offer, shall also indicate percentage of local content and provide self-certification that the item (s) offered meets the local content requirement for Class-I/Class-II Local Suppliers as the case may be. They shall also give details of location (s) at which the local value addition is made.

In cases if the item(s) offered exceed Rs. 10 Crores, the Class-I/Class-II Local Suppliers shall provide a Certificate from the statutory auditor or cost auditor of the company (in case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.

False Declarations will be in breach of the Code of Integrity under Rule 175 (1) (i) (h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law. Only online tenders will be accepted. No manual / Postal / e-mail / fax offers will be entertained. No manual tender document will be issued. Parties interested to participate in this e-Tender are required to register themselves as vendors, if not already registered, in our e-procurement portal <https://eproc.vssc.gov.in> by downloading plugins and help demos listed on the home page of the e-procurement link mentioned above to complete the vendor registration process. They can seek help from help desk 0471-2565454 also as provided in the home page of e-procurement portal in case of any problem for registration and subsequent process. Vendors may please note that without registering in our e-procurement portal, they will not be able to quote for this e-tender.

Important Notice : Tender will be automatically closed on the due date if at least one offer is received. If the tender could not be opened on the first day due to any technical snag, it will be opened on the subsequent day as per the schedule.

C. Bid Templates

C.1 Technical Bid - Manufacture and Supply of Cast Iron Surface Plate of Size 4.0 m x 3.0 m x 0.3 m for SPS realisation

1. Hand Tools : Manufacture and Supply of Cast Iron Surface plate of size 4.0 m x 3.0 m x 0.3 m for SPS realisation

Item specifications for Hand Tools

Sl No	Specification	Value	Compliance	Offered Specification	Remark
1	1.0 As per ANNEXURE-1 Specifications and Terms & Conditions for Supply of Cast Iron Surface Plate (4000 mm X 3000 mm)	YES/NO	Yes / No / Explain		
2	2.0 Product Specifications		-		
3	2.1 Size 4000 mm X 3000 mm (thickness including stiffeners 300 mm approx). The lengths of the faces of the plate shall be with $\pm 2\%$ of the nominal size. Usable top working surface should be 4000 mm X 3000 mm.	YES/NO	Yes / No / Explain		

4	<p>2.2 Material Close Grained Plain Cast Iron conforming to Grade FG: 220 of IS: 210, casting duly stress relieved. The castings, when inspected visually, shall be free from blowholes or porous patches that might affect stability or accuracy. Minor defects in working surface may be repaired by plugging with material of composition similar to that of the plate, provided that such a repair does not affect stability or accuracy.</p>	YES/NO	Yes / No / Explain		
5	<p>2.3 Construction Ribbed construction, generally in accordance with IS: 2285-2003</p>	YES/NO	Yes / No / Explain		
6	<p>2.4 Stress Relief After cast and rough machining the plate shall be given suitable stress relieving to relieve internal stresses before finishing. Details of the stress relief process to which the plates have been subjected should be made available.</p>	YES/NO	Yes / No / Explain		

7	<p>2.5 Rigidity Cast iron surface plates shall be made with adequate ribbing and the total depth [i.e. the combined thickness of the top (working surface) and the depth of the framing] shall be such that when a concentrated load is applied about the centre of the plate, the loaded area shall not deflect below the remaining area of the plate by more than 1 µm/200 N in accordance with IS: 2285-2003</p>	YES/NO	Yes / No / Explain		
8	<p>2.6 Flatness Accuracy : Within 70 microns (in accordance with IS: 2285 for Grade 2)</p>	YES/NO	Yes / No / Explain		
9	<p>2.7 Load bearing capacity: 5000 Kg</p>	YES/NO	Yes / No / Explain		
10	<p>2.8 Surface Finish The surface plates shall be finish machined on their top working surface as well as four sides at their periphery. Top surface may be Hand Scrapped to achieve the specified flatness accuracy. The finished working surface of surface plates shall be free from any defects that might affect their stability or accuracy.</p>	YES/NO	Yes / No / Explain		
11	<p>2.9 Supporting Feet Surface plates shall be provided with sufficient number of supporting feet. To limit tipping, if necessary safety feet shall also be provided. Supporting feet shall be machined.</p>	YES/NO	Yes / No / Explain		

12	<p>2.10 Handling Provisions Adequate number of handling points / provisions (minimum 4 numbers) shall be provided in the periphery of the Surface Plate for convenient handling, lifting and smooth transportation within our campus to different work centers using Overhead Crane (with Belts) and Forklift. However, the top working surface must absolute be of any handling provisions.</p>	YES/NO	Yes / No / Explain		
13	<p>2.11 Stand The surface plate shall be supplied with a stand which shall be constructed and braced in such a way that it rigidly supports the surface plate. The overall height of a surface plate on its stand, i.e. the height of the working surface above the floor, should be approximately 850 mm (nominal).</p>	YES/NO	Yes / No / Explain		
14	<p>2.12 Calibration Each Surface Plate shall be provided with Calibration Certificate traceable to National Standards from NABL Accredited Calibration Laboratory as per ISO 17025</p>	YES/NO	Yes / No / Explain		
15	3.0DESIGN FEATURES		-		

16	3.1 Surface Plate drawing shall be supplied along with 3D solid Model to VSSC for approval. Only after approval and confirmation from VSSC, the supplier shall start the fabrication of the Surface Plate.	YES/NO	Yes / No / Explain		
17	3.2 The surface plate shall be designed to withstand handling loads for self weight with sufficient margins as per standard practices.	YES/NO	Yes / No / Explain		
18	3.3 The design shall be optimized so as to result in the lightest weight possible without compromising the stiffness, strength, accuracy and keeping in perspective the ease of transportation and movement. However the total weight of the individual surface plate shall not exceed 8500 kg.	YES/NO	Yes / No / Explain		
19	3.4 Surface Plate to be supplied with Calibration Certificate Traceable to National Standard from NABL Accredited Calibration Laboratory as per ISO 17025.	YES/NO	Yes / No / Explain		
20	3.5 Load bearing capacity of each individual surface plate shall be specified by the supplier; however minimum load carrying capacity of each individual surface plate shall be 5000 kg.	YES/NO	Yes / No / Explain		
21	4.0 CASTING		-		

22	4.1The surface plate shall be Cast in a single pour. The chemical composition of the melt shall be monitored and the report of the same shall be provided.	YES/NO	Yes / No / Explain		
23	4.2The Test Specimens for Hardness Test, Tensile Test and Compression Test evaluation also shall be Cast along with the Surface Plate. Minimum 02 numbers of each type specimen (for Hardness Test, Tensile Test and Compression Test) shall be made in accordance with IS: 12937.	YES/NO	Yes / No / Explain		
24	4.3Test Report of Hardness Test, Tensile Test and Compression Test on the Casting Specimens shall be furnished. The support conditions employed for Tests shall be clearly shown through drawing/figures.	YES/NO	Yes / No / Explain		
25	4.4The surface plate shall be designed with sufficient stiffness to sustain minimum/negligible deformation under the temperature up to 200 deg Celsius.	YES/NO	Yes / No / Explain		
26	5.0PRE-DESPATCH INSPECTION AND ACCEPTANCE		-		
27	5.1Supplier shall mention and explain in detail, the method to be adopted for checking and recording the flatness accuracy during manufacture and during pre-despatch inspection.	YES/NO	Yes / No / Explain		

28	5.2.a Provisional acceptance of the surface plate shall be made at supplier's work prior to despatch. Test certificates, Specification compliance and flatness accuracy of the individual surface plates shall be checked, verified and submitted to VSSC for provisional acceptance.	YES/NO	Yes / No / Explain		
29	5.2.b Only after Provisional acceptance of the individual surface plate, the item shall be dispatched / transported to VSSC.	YES/NO	Yes / No / Explain		
30	5.3Final acceptance shall be done after successful installation and commissioning at VSSC .Supplier shall take full responsibility for carrying out installation & assembly of surface plates to achieve within specified flatness accuracy.	YES/NO	Yes / No / Explain		
31	6.0PACKING AND FORWARDING		-		
32	6.1 The working surface of the Surface Plate shall be adequately protected using moulded cover with inner surface provided with lining of soft material to prevent indentation in the course of transportation/handling.	YES/NO	Yes / No / Explain		
33	6.2 Adequate provision shall be arranged by the supplier to avoid corrosion damage during transportation	YES/NO	Yes / No / Explain		

34	6.3 Rexine cover shall be provided for top working surface with each Surface Plate.	YES/NO	Yes / No / Explain		
35	6.4 The Surface Plate shall be packed in Road-worthy wooden transportation container / crate.	YES/NO	Yes / No / Explain		
36	6.5 Provisions shall exist on the container for handling using fork lift and EOR Crane. Handling points shall be clearly marked on the outside of the container.	YES/NO	Yes / No / Explain		
37	6.6 The Surface Plate shall be supplied to CMSE/VSSC Store by Road through reputed transporters. The same will be compulsory requirement of the tender. Offers with Ex-works at supplier`s location is not acceptable	YES/NO	Yes / No / Explain		
38	6.7 The price offer shall be ALL INCLUSIVE of Packing & Forwarding, Safe Delivery Charges, Transportation Charges, Erection & Commissioning Charges and etc.	YES/NO	Yes / No / Explain		
39	7.0 GUARANTEE		-		
40	7.1 Supplier shall provide full and complete Warranty / Guarantee for one year from the date of acceptance	YES/NO	Yes / No / Explain		
41	8.0 QUALIFYING CONDITIONS		-		
42	8.1 The supplier should be a reputed original Cast Iron Surface Plates manufacturer.	YES/NO	Yes / No / Explain		

43	8.2 The supplier should have experience of manufacturing similar size Surface plates and should provide reference list of customers to whom surface plates of similar specification have been supplied in the past five years, mentioning contact person of the customer, flatness accuracy achieved and year of supply.	YES/NO	Yes / No / Explain		
44	8.3 To facilitate proper evaluation of the offer, Sketches / Drawings / Catalogues etc. shall be submitted by the supplier.	YES/NO	Yes / No / Explain		
45	8.4 The supplier must provide compliance statement of each section of this annexure with support material like catalogue, standards and drawing etc.	YES/NO	Yes / No / Explain		
46	9.0 QUALIFYING CONDITIONS		-		
47	9.1 The supplier should mention the earliest anticipated delivery period for the supply of two number of Cast Iron Surface Plates as per the above terms and conditions.	YES/NO	Yes / No / Explain		

Document : ANNEXURE-I

Common Specifications (Applicable for all items)

Sl No	Specification	Value	Compliance	Offered Specification	Remark
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1	As per ANNEXURE-1 Specifications and Terms & Conditions for Supply of Cast Iron Surface Plate (4000 mm X 3000 mm)	YES / NO	Yes / No / Explain		
2	The price offer shall be ALL INCLUSIVE of Packing & Forwarding, Safe Delivery Charges, Transportation Charges, Erection & Commissioning Charges and etc.	YES / NO	Yes / No / Explain		
3	The supplier should be a reputed original Cast Iron Surface Plates manufacturer.	YES / NO	Yes / No / Explain		
4	The supplier should have experience of manufacturing similar size Surface plates and should provide reference list of customers to whom surface plates of similar specification have been supplied in the past five years.	YES / NO	Yes / No / Explain		
5	To facilitate proper evaluation of the offer, Sketches / Drawings / Catalogues etc. shall be submitted by the supplier.	YES / NO	Yes / No / Explain		

6	Supplier shall provide full and complete Warranty / Guarantee for one year from the date of acceptance	YES / NO	Yes / No / Explain		
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Supporting Documents required from Vendor

1. Commerical Bid as per tender terms and condition

2. Technical Bid as per tender terms and condition

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	The Surface Plate shall be supplied to CMSE/VSSC Store by Road through reputed transporters. The same will be compulsory requirement of the tender. Offers with Ex-works at supplier`s location is not acceptable	Yes / No / Explain	
2	Delivery at CMSE Stores	Yes / No / Explain	
3	Delivery Period	Yes / No / Explain	
4	Delivery Terms	Yes / No / Explain	
5	In case of Ex-Works, please indicate packing, forwarding & freight charges up to VSSC, separately	Yes / No / Explain	
6	Liquidated Damage - As detailed in Annexure	Yes / No / Explain	
7	Taxes and Duties if any (Concessional rate applicable for GST)	Yes / No / Explain	
8	Payment Terms [within 30 days after receipt and acceptance of item for indigenous]	Yes / No / Explain	
9	Warranty	Yes / No / Explain	
10	Performance Bank Guarantee	Yes / No / Explain	

11	Security Deposit (Where ever the offer value is Rs 5.00 Lakhs and above) -You should submit Security Deposit @ 3% of order value in the form of insurance Security Bonds, Account Payee Demand Drafts, Fixed Deposit Receipt, Bank Guarantee (Rs.200/-stamp paper) in the prescribed format (DOS:PM:07) from a Nationalized/ Scheduled Bank valid for 2 Months beyond the date of completion of order obligation along with order acknowledgement. Documentary proof of Online payment also acceptable as Security Deposit. This security deposit without any interest thereon shall be returned to the Supplier on successful completion of the Purchase Order or shall be adjusted/forfeited against non-fulfillment of any of the contractual obligations.	Yes / No / Explain	
12	Port of Despatch & Mode of despatch	Yes / No / Explain	
13	Quote Validity : Minimum 90 days [for Single Part Tender]	Yes / No / Explain	
14	Name and Address to Which order to be placed. Please include contact details like mobile no. and email id	Yes / No / Explain	
15	Any other conditions	Yes / No / Explain	
16	Percentage of local content as defined under DPIIT Order dtd 04/06/2020- Preference to Make in India Order-2017 Revision	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	Hand Tools : Manufacture and Supply of Cast Iron Surface plate of size 4.0 m x 3.0 m x 0.3 m for SPS realisation	2.00 Nos.		-		

Common charges (Applicable for all items)

P&F (Amount)	
Freight (Amount)	
Discount (Amount)	
Any Other Charges (Amount)	