

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
LIQUID PROPULSION SYSTEMS CENTRE, VALIAMALA (LPSC)
THIRUVANANTHAPURAM**

Tender for Helical compression springs for UCA

Bids to be submitted online

Tender No.: LPSC/LVF/LP202200066101 dated 13-09-2022

A. Tender Details

Tender No :	LPSC/LVF/LP202200066101
Tender Date :	13-09-2022
Tender Classification:	GOODS
Purchase Entity :	LVF
Centre :	LIQUID PROPULSION SYSTEMS CENTRE, VALIAMALA (LPSC)

Procurement of Helical compression springs for UCA

For and on behalf of the President of India, the Head, Purchase & Stores, Liquid Propulsion Systems Centre (LPSC), Valiamala, Thiruvananthapuram invites tenders through e-procurement mode; Prospective vendors interested in participating in the tendering process need to get registered in the portal by using Digital Signature Certificate. Offers submitted through our online portal only will be considered and no other means will be considered.

Detailed instruction, pre-requisites and illustrative tutorials for bid enrolment, preparation etc are available in the portal. A help desk is also functioning to assist the vendors whose contact details are available in the portal.

A.1 Tender Schedule

Bid Submission Start Date :	14-09-2022 14:27
Bid Clarification Due Date :	16-09-2022 11:12
Bid Submission Due Date :	04-10-2022 10:12
Bid Opening Date :	04-10-2022 10:13

B. Tender Attachments

Technical Write-up/Drawings

Document : Quality clause

Instructions To Vendors

2. SPECIAL INSTRUCTIONS TO TENDERERS

1. As far as implementation of public procurement policy (Preference to Make In India) Order, 2017 is concerned, the Office Orders vide No. P-45021/2/2017-B.E-II dt.15.06.2017, which is partially modified by Order No. P-45021/2/2017-PP(BE-II) dt.28.05.2018, Order No.P-45021/2/2017-PP(BE-II)dt. 29.05.2019, Order No. P-45021/2/2017-PP (BE-II) dt 04.06.2020 and Order No.P-45021/2/2017-PP (BE-II) dt16.09.2020 and subsequent Amendments issued by the Department for Promotion of Industries and Internal Trade, Ministry of Commerce and Industry regarding Class-I/Class-II local suppliers, Purchase preference, verification of local contents etc shall be applicable to this tender. Therefore, bidders may ensure compliance of the same while submitting tenders.

2. Class-I / Class- II local suppliers are only eligible to participate in this tender

3. Price Preference shall be extended to the MSEs under the Public Procurement Policy for MSEs. Such MSEs shall produce documentary proof of registration as per provisions of the Policy ie: registration with District Industries Centre (DIC) or Khadi and Village Industries Commission (KVIC) or Khadi and Industries Board (KVIB) or Coir Board or National Small Industries Commission (NSIC) or Directorate of Handicrafts and Handlooms or UdyogAadhar Memorandum or any other body specified by Ministry of MSME.

4. The tendered requirement is having local content more than 20%. Hence, the provision/evaluation of offers shall be as per the office orders mentioned above, issued by Govt. of India. Bidders have to submit all relevant documents as per the said office orders.

C. Bid Templates

C.1 Technical Bid - Helical compression springs for UCA

1. Helical Compression Springs (PU410-5200-1900.01)

Item specifications for Helical Compression Springs

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Load at 70mm compressed length	54.25 daN	Yes / No / Explain		
2	Stiffness	1.55 daN/mm	Yes / No / Explain		
3	Load at 92mm compressed length	20.15 daN	Yes / No / Explain		
4	Material	AISI 302 or Z10CN 18.09 Hard Drawn	Yes / No / Explain		
5	Max. Spring Load	69.75 daN	Yes / No / Explain		
6	Solid Length	60 mm	Yes / No / Explain		
7	Free length	105 mm	Yes / No / Explain		
8	Mean coil diameter	22 mm	Yes / No / Explain		
9	Wire diameter	4 mm	Yes / No / Explain		
10	Pitch	~7.5mm	Yes / No / Explain		
11	No. of effective coils	13	Yes / No / Explain		
12	Shear modulus	7300 daN/mm ²	Yes / No / Explain		
13	No. of end coils	1 coil	Yes / No / Explain		
14	Direction of winding	To left	Yes / No / Explain		
15	Perpendicularity	0.5	Yes / No / Explain		

16	Parallelism	0.5	Yes / No / Explain		
17	Ends	Squared and ground	Yes / No / Explain		

Document : Quality Clause

Document : Drawing

2. Helical Compression Springs (PL2E2-0.14120.06.02)

Item specifications for Helical Compression Springs

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Load at 55.5 mm compressed length	65 daN	Yes / No / Explain		
2	Stiffness	1.14 daN/mm	Yes / No / Explain		
3	Load at 70.5mm compressed length	48 daN	Yes / No / Explain		
4	Material	AISI 302 or Z10CN 18.09 Hard Drawn	Yes / No / Explain		
5	Max. Spring Load	66.8 daN	Yes / No / Explain		
6	Solid Length	54 mm	Yes / No / Explain		
7	Free length	112.5 mm	Yes / No / Explain		
8	Mean coil diameter	32 mm	Yes / No / Explain		
9	Wire diameter	4.5 mm	Yes / No / Explain		
10	Pitch	10.35 mm	Yes / No / Explain		
11	No. of effective coils	10	Yes / No / Explain		
12	Shear modulus	7300 daN/mm ²	Yes / No / Explain		
13	No. of end coils	1 coil	Yes / No / Explain		

14	Direction of winding	To right	Yes / No / Explain		
15	Perpendicularity	0.5	Yes / No / Explain		
16	Parallelism	0.5	Yes / No / Explain		
17	Ends	Squared and ground	Yes / No / Explain		

Document : Drawing

3. Helical Compression Springs (PL2E2-0.14120.07.02)

Item specifications for Helical Compression Springs

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Load at 25 mm compressed length	10.66 daN	Yes / No / Explain		
2	Stiffness	0.33 daN/mm	Yes / No / Explain		
3	Load at 41mm compressed length	5.33 daN	Yes / No / Explain		
4	Material	AISI 302 or Z10CN 18.09 Hard Drawn	Yes / No / Explain		
5	Max. Spring Load	12 daN	Yes / No / Explain		
6	Solid Length	21 mm	Yes / No / Explain		
7	Free length	57 mm	Yes / No / Explain		
8	Mean coil diameter	47 mm	Yes / No / Explain		
9	Wire diameter	3.5 mm	Yes / No / Explain		
10	Pitch	12.5 mm	Yes / No / Explain		
11	No. of effective coils	4	Yes / No / Explain		
12	Shear modulus	7300 daN/mm ²	Yes / No / Explain		

13	No. of end coils	1 coil	Yes / No / Explain		
14	Direction of winding	To right	Yes / No / Explain		
15	Perpendicularity	0.5	Yes / No / Explain		
16	Parallelism	0.5	Yes / No / Explain		
17	Ends	Squared and ground	Yes / No / Explain		

Document : Drawing

4. Helical Compression Springs (PL2E2-0.14120.37.02)

Item specifications for Helical Compression Springs

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Load at 62 mm compressed length	80 daN	Yes / No / Explain		
2	Stiffness	2.13 daN/mm	Yes / No / Explain		
3	Load at 92mm compressed length	17 daN	Yes / No / Explain		
4	Material	Z10CN 18.09 Hard Drawn	Yes / No / Explain		
5	Max. Spring Load	89 daN	Yes / No / Explain		
6	Solid Length	54 mm	Yes / No / Explain		
7	Free length	100 mm	Yes / No / Explain		
8	Mean coil diameter	26 mm	Yes / No / Explain		
9	Wire diameter	4.5 mm	Yes / No / Explain		
10	Pitch	9.1 mm	Yes / No / Explain		
11	No. of effective coils	10	Yes / No / Explain		

12	Shear modulus	7300 daN/mm ²	Yes / No / Explain		
13	No. of end coils	1 coil	Yes / No / Explain		
14	Direction of winding	To left	Yes / No / Explain		
15	Perpendicularity	0.5	Yes / No / Explain		
16	Parallelism	0.5	Yes / No / Explain		
17	Ends	Squared and ground	Yes / No / Explain		

Document : Drawing

Supporting Documents required from Vendor

1. Spring constant report

2. Dimensional inspection report

3. Visual inspection details

4. Passivation report

5. Heat treatment certificate

6. Raw material test certificates including chemical analysis and mechanical tests

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Springs should be packed individually in self sealinh polythene covers with details such as drawing number, PO number, Lot number and material pasted over the cover.	Yes / No / Explain	
2	Installation Charges, if any shall be mentioned (If mentioned as EXTRA OR INCLUDED in your quote, please mention the percentage in Vendor Terms Column).	Yes / No / Explain	
3	Payment Term: 100% payment shall be made through RTGS within 30 days of receipt and acceptance of the item at our site.	Yes / No / Explain	
4	P & F charges, if any, shall be mentioned (If mentioned as EXTRA OR INCLUDED in your quote, please mention the percentage in Vendor Terms Column).	Yes / No / Explain	
5	Delivery Term: FOR: LPSC, VALIAMALA	Yes / No / Explain	
6	Freight charges, if any, shall be mentioned (If mentioned as EXTRA OR INCLUDED in your quote, please mention the percentage in Vendor Terms Column).	Yes / No / Explain	
7	Whether applicable GST percentage mentioned in offer (If mentioned as EXTRA OR INCLUDED in your quote, please mention the percentage in Vendor Terms Column).	Yes / No / Explain	
8	Delivery Period (If any specific delivery period is mentioned in the tender, please comply the same. If not agreed, please mention your delivery period in Vendor Terms column OR if already mentioned in your quote please mention as already furnished in the quote	Yes / No / Explain	
9	Liquidated Damages (LD) If the ordered items are not supplied within the delivery schedule, LD shall be levied from your bill @ 0.5% per week for the undelivered items subject to a maximum of 10% of the order value for the delayed period.	Yes / No / Explain	

10	Warranty: Warranty for the offered item shall be from the date of installation/acceptance of the item at our site for a minimum period of one year or as specified in the tender document.	Yes / No / Explain	
11	Security Deposit (SD) (only for order value above Rs.5 Lakh): You have to furnish a Bank Guarantee from a Nationalised / Scheduled Bank in 200 Rs. Stamp Paper for 3% of the order value within 10 days of receipt of Order towards the faithful execution of the order valid till the completion of the scope of work as per order plus sixty days. (This will be returned to you immediately on execution of the order satisfactorily as per order terms. In case of non-performance / poor performance, the amount will be forfeited).	Yes / No / Explain	
12	Performance Bank Guarantee (PBG) : You have to submit a PBG from a Nationalised / Scheduled Bank in 200 Rs. Stamp Paper for 3% of the order value towards the performance of the system at the time of supply valid till the completion of warranty period plus 60 days as per the format provided by the Department. OR 3% OF THE ORDER VALUE SHALL BE WITH HELD TILL THE COMPLETION OF WARRANTY PERIOD PLUS 60 DAYS.	Yes / No / Explain	
13	In case, if parties are unable to provide two separate BGs, i.e., one for SD and one for PBG, they can submit a combined BG for SD & PBG within 10 days of receipt of order for 3% of order value valid till the completion of total contractual obligation (i.e., supply period plus warranty period plus 60 days) as per the format provided by the Department.	Yes / No / Explain	
14	Insurance : Being a Govt. Of India Dept., Insurance is not required at our cost. Please ensure the safe delivery of the ordered item with proper AIR / SEA / ROAD worthy packing	Yes / No / Explain	

15	Validity of Offer : (a)The validity of the offers should be 90 days (in case of single part tender) from the date of opening of the tenders. (b)The validity of the offers should be 120 days (in case two part tender) from the date of opening of the tenders. Note :-Tenders having shorter offer validity will not be considered for evaluation	Yes / No / Explain	
16	Bank Details, viz., Bank Name, Branch, Address, Account No., IFSC (Details to be given in Vendor Terms Column)	Yes / No / Explain	
17	PAN No. (Details to be furnished in Vendor Terms Column)	Yes / No / Explain	
18	GST No. (Details to be given in Vendor Terms Column)	Yes / No / Explain	
19	Purchase Order to be placed on whom (Please mention the Address, Phone No. & E-mail id)	Yes / No / Explain	
20	Local content involved in the quoted item shall be declared/ certified in percentage.	Yes / No / Explain	
21	Furnish the details of place(s) where the value addition for the quoted item takes place.	Yes / No / Explain	
22	State whether MSE or not. If yes, please provide the necessary documentary proof	Yes / No / Explain	
23	HSN Code of offered items	Yes / No / Explain	
24	Other terms, if any shall be mentioned in Vendor Terms column	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Other Costs, if any	Remark
1	Helical Compression Springs (PU410-5200-1900.01)	350.00 Nos.		-			
2	Helical Compression Springs (PL2E2-0.14120.06.02)	250.00 Nos.		-			

3	Helical Compression Springs (PL2E2-0.14120.07.02)	250.00 Nos.		-			
4	Helical Compression Springs (PL2E2-0.14120.37.02)	450.00 Nos.		-			

Common charges (Applicable for all items)

Additional Costs, if any	
Additional Costs, if any (Value)	