

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
ISRO PROPULSION COMPLEX (IPRC)
MAHENDRAGIRI**

Tender for Outsourcing work contract for SRMG/SRE

Bids to be submitted online

Tender No.: IPRC/PURGP2/IP202400051801 dated 17-05-2024

A. Tender Details

Tender No : **IPRC/PURGP2/IP202400051801**

Tender Date : **17-05-2024**

Tender Classification: **WORKS**

Purchase Entity : **PURGP2**

Centre : **ISRO PROPULSION COMPLEX (IPRC)**

Outsourcing work contract for SRMG/SRE

1. Kindly read all the instructions before quoting.
2. Foreign vendors are not permitted to quote.
3. Last minute clarification on tenders will not be entertained.
4. This is an E-Tender. Hence Postal/Fax/Email tenders will not be accepted.
5. Acceptance of SD & LD are specified in your offer.

A.1 Tender Schedule

Bid Submission Start Date : **17-05-2024 17:00**

Bid Clarification Due Date : **18-06-2024 15:00**

Bid Submission Due Date : **25-06-2024 14:00**

Bid Opening Date : **25-06-2024 14:10**

B. Tender Attachments

Technical Write-up/Drawings

Document : [Annexure 1](#)

Document : [Annexure-4](#)

Document : [Annexure-3](#)

Document : [Annexure-2](#)

Instructions To Vendors

C. Bid Templates

C.1 Technical Bid - Outsourcing work contract for SRMG/SRE

1. Sporadic Work Outsourcing Contract 1.a) Dimensional Inspection of Vikas Engine Components.

2. Sporadic Work Outsourcing Contract 1.b) Dimensional Inspection of In-house fabricated components like Adaptor, pipe fittings, clamps, brackets, high pressure adapter and CSM bottles (10 dimensions per component approx.).

3. Sporadic Work Outsourcing Contract 1.c) Online measurement at Assembly hall such as root gap, mismatch, surface roughness, scratch measurements, runout, level sensor and outer measurements of stage etc.

4. Sporadic Work Outsourcing Contract 1.d) Profile measurements, Engine mounting interface dimensions in tank, Engine alignment check and Thrust chamber measurements.

5. Sporadic Work Outsourcing Contract 1.e) Dimensional Inspection of Bought out items such as O rings, PTFE gaskets, Aluminum gaskets, springs, diaphragms, fasteners, shear pins etc.

6. Sporadic Work Outsourcing Contract 1.f) Dimensional Inspection of Semicryo Components

7. Sporadic Work Outsourcing Contract 2.a) NDT-X Ray Radiography of table/position welded joints per shot.

8. Sporadic Work Outsourcing Contract 2.b) NDT-X Ray Radiography of Thrust chamber and throat insert of Vikas engine

9. Sporadic Work Outsourcing Contract 2.c) NDT-Fibrosopic Inspection-Blockage screening of Rigid tubings

10. Sporadic Work Outsourcing Contract 2.d) NDT-Dye Penetrant testing of weld joint of water tanks, propellant tanks, Turbine casing.

- 11. Sporadic Work Outsourcing Contract 2.e) NDT-DP testing of aluminum alloy components full surface.**
- 12. Sporadic Work Outsourcing Contract 2.f) NDT-DP testing on weld joints of flight hardware.**
- 13. Sporadic Work Outsourcing Contract 3.a) Mechanical property evaluation at (300K) - i) Tensile test on different materials, ii) Lap shear test on bimetal, iii) Compression test on cement cubes, iv) Bend test on coated specimen.**
- 14. Sporadic Work Outsourcing Contract 3.b) Mechanical property evaluation at low temperature (77K, 20K etc) which includes- i) Tensile test on different materials, ii) Lap shear test on bimetal**
- 15. Sporadic Work Outsourcing Contract 3.c) Property measurements which includes Metallographic Analysis, Hardness measurement, Ferrite measurement, Stiffness measurement on springs and XRF analysis.**
- 16. Sporadic Work Outsourcing Contract 3.d) Torque wrench calibration, load verification of crane scale and load cells.**
- 17. Sporadic Work Outsourcing Contract 4.a) Quality control activities related to CUS & C25 stage, Hardware clearance verification and filing.**
- 18. Sporadic Work Outsourcing Contract 4.b) Drawing documentation and filing of Cryogenic Upper Stages and Cryogenic Engines.**
- 19. Sporadic Work Outsourcing Contract 4.c) Qualification and acceptance test of flight hardware for Cryogenic Upper Stages and Cryogenic Engine. The work includes i) Hydro test, ii) Pneumo test, iii) MSLD test.**
- 20. Sporadic Work Outsourcing Contract 4.d) MSLD leak check of tank weldments for Cryogenic Upper Stages and Cryogenic Engines.**
- 21. Sporadic Work Outsourcing Contract 4.e) Surface cleaning of pipe lines, tanks and sub-system of flight hardware for Cryogenic Upper Stages & Engine i) Pickling & Passivation of**

pipe lines and hardware, ii) Cleaning of pipe lines and hardware.

22. Sporadic Work Outsourcing Contract 4.f) Surface cleaning of flight tanks and sub-system hardware for Cryogenic Upper Stages and Cryogenic Engines.

23. Sporadic Work Outsourcing Contract 4.g) Visual inspection of Thermal insulated tanks and sub-system for Cryogenic Upper Stages.

24. Sporadic Work Outsourcing Contract 4.h) Coating thickness measurement of Thermal insulation.

25. Sporadic Work Outsourcing Contract 4.i) Foam trial verification like beaker test, carton test, M/C parameter setting for Cryogenic Upper Stages.

26. Sporadic Work Outsourcing Contract 5.a) Testing of 50 Litre capacity gas Cylinder.

27. Sporadic Work Outsourcing Contract 5.b) Testing of 1000 lit and 2200 lit capacity gas cylinders.

28. Sporadic Work Outsourcing Contract 5.c) Preparation of Cylinder Test Reports.

29. Sporadic Work Outsourcing Contract 5.d) Calibration of 8T, 6T and 300kg Weighing machines.

30. Sporadic Work Outsourcing Contract 5.e) Cleaning & Lubrication of internal cleaning machine for 50 lit. Capacity gas cylinders.

31. Sporadic Work Outsourcing Contract 5.f) Cleaning & Lubrication of hydraulic actuated fixture for 2.2 m³ gas cylinders testing.

32. Sporadic Work Outsourcing Contract 5.g) Cleaning and lubrication of 25 nos. of slings at a time.

33. Sporadic Work Outsourcing Contract 5.h) Painting of equipment's available at GCTF.

34. Sporadic Work Outsourcing Contract 5.i) GN2 filling in 50 lit. Cylinders.

35. Sporadic Work Outsourcing Contract 5.j) Filling in 1 m3 cylinder mounted on trailer.

36. Sporadic Work Outsourcing Contract 5.k) Dismantling and assembly of Pressure gauges for calibration (25 nos.)

37. Sporadic Work Outsourcing Contract 5.l) Operation of DM water plant.

38. Sporadic Work Outsourcing Contract 5.m) Transfer of DM water from 40m3 Storage tank to 8m3 DM water tank/ tanker.

Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Name of the Bidder		-		
2	Full address		-		
3	Landline telephone number		-		
4	Cellular mobile telephone number		-		
5	Fax number		-		
6	Email ID		-		
7	Name of the Proprietor/ Manager/ President/ Secretary/ Chief Executive/ Authorized signatory with Job title (Designation) and Affiliation (Department)		-		

8	Status of the Bidder as to whether Central/ State Government Department/ Enterprise/ Autonomous body or Private company or Firm or Agency or Society, etc		-		
9	Rule/ Act under which the Bidder is registered.		-		
10	Registration number of the Bidder. Attach copy of registration certificate.		-		
11	Income tax Permanent Account Number (PAN). Attach copy of card.		-		
12	Income Tax Assessee "Status" of the Bidder. Attach Income Tax return acknowledgement or relevant document for the assessment year previous to the one in which the Tender enquiry is floated		-		
13	Aadhaar/ Udyog Aadhaar number. Attach copy of card/ letter.		-		
14	Goods & Service Tax (GST) Identification Number. Attach copy of certificate.		-		

15	Employees Provident Fund (EPF) Registration number. Attach copy of certificate.		-		
16	Employees State Insurance (ESI) Registration number. Attach copy of certificate.		-		
17	Name of the Banker, Branch and City/ Town/ Village		-		
18	Bank account number		-		
19	IFSC code of Bank		-		
20	Has the Bidder completed any work with any Central/ State Government Department/ Enterprise/ Autonomous body of nature similar to that of the subject SWOP during the last 7 years. Attach copy of work order/ work completion certificate.		-		
21	Confirm compliance with Terms & conditions given in Annexure 1. Deviation, if any, is to be explicitly spelt out under the "Remark" column.		-		

22	Confirm compliance with Scope of work given in Annexure 2. Deviation, if any, is to be explicitly spelt out under the "Remark" column.		-		
23	Confirm that the Instructions to Bidders given in Annexure 3 are read and understood thoroughly.		-		

Supporting Documents required from Vendor

1. Any other documents

2. MSME Registration

3. Last 5 years Balance Sheet

4. GST

5. Previous workorder/Experience

6. EPF CODE

7. ESI CODE

8. Pan Card

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Validity of Offer (specify)	Yes / No / Explain	
2	Delivery Period (specify)	Yes / No / Explain	
3	Delivery Terms: Normal delivery terms - FOR Destination (i.e., IPRC, Mahendragiri)	Yes / No / Explain	
4	Payment Terms: Pro-rata monthly payment for completed works.(No advance payment is acceptable). Specify your Payment Terms.	Yes / No / Explain	
5	Security Deposit: The Supplier shall provide Bank Guarantee for an amount equivalent to the 5% (FIVE PERCENT) of the total Order value towards Security Deposit for the due performance of the Purchase Order. The Security Deposit can be submitted in the form of Bank Guarantee or Fixed Deposit Receipt obtained from any Nationalized/ Scheduled Bank and it shall be kept valid for a period of sixty days beyond the date of completion of the Purchase Order. This Security Deposit will be returned to the Supplier only upon successful completion of all the contractual obligations or shall be adjusted/ forfeited against non-fulfilment of any of the contractual obligations. The Security Deposit shall be submitted within 30 days from the date of receipt of Purchase Order.	Yes / No / Explain	
6	Confirm: Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA	Yes / No / Explain	
7	Liquidated Damages: In the event, the Contractor fails to complete the work specified within the time (by not engaging the required manpower as envisaged in the Contract or any other reason attributable to the Contractor) an amount equivalent to 0.5% per week shall be recovered for the delayed period subject to a maximum of 10% Contract value.	Yes / No / Explain	
8	Name of PRINCIPAL, Address, Contact No, E-mail Id etc. (specify):	Yes / No / Explain	

9	Name of INDIAN AGENT, Address, Contact No, E-mail Id etc. (specify):	Yes / No / Explain	
10	Currency quoted (specify)	Yes / No / Explain	
11	Taxes and other costs, if any: (Specify).	Yes / No / Explain	
12	Percentage of local content:	Yes / No / Explain	
13	Confirm MSME, if so provide MSME certificate	Yes / No / Explain	
14	Any other Remarks:	-	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	Sporadic Work Outsourcing Contract 1.a) Dimensional Inspection of Vikas Engine Components.	5315.00 Nos.		-		
2	Sporadic Work Outsourcing Contract 1.b) Dimensional Inspection of In-house fabricated components like Adaptor, pipe fittings, clamps, brackets, high pressure adapter and CSM bottles (10 dimensions per component approx.).	8898.00 Nos.		-		

3	Sporadic Work Outsourcing Contract 1.c) Online measurement at Assembly hall such as root gap, mismatch, surface roughness, scratch measurements, runout, level sensor and outer measurements of stage etc.	2966.00 Nos.		-		
4	Sporadic Work Outsourcing Contract 1.d) Profile measurements, Engine mounting interface dimensions in tank, Engine alignment check and Thrust chamber measurements.	30.00 Nos.		-		
5	Sporadic Work Outsourcing Contract 1.e) Dimensional Inspection of Bought out items such as O rings, PTFE gaskets, Aluminum gaskets, springs, diaphragms, fasteners, shear pins etc.	4450.00 Nos.		-		

6	Sporadic Work Outsourcing Contract 1.f) Dimensional Inspection of Semicryo Components	1088.00 Nos.		-		
7	Sporadic Work Outsourcing Contract 2.a) NDT-X Ray Radiography of table/position welded joints per shot.	18788.00 Nos.		-		
8	Sporadic Work Outsourcing Contract 2.b) NDT-X Ray Radiography of Thrust chamber and throat insert of Vikas engine	50.00 Nos.		-		
9	Sporadic Work Outsourcing Contract 2.c) NDT-Fibroscopic Inspection-Blockage screening of Rigid tubings	2274.00 Nos.		-		
10	Sporadic Work Outsourcing Contract 2.d) NDT-Dye Penetrant testing of weld joint of water tanks, propellant tanks, Turbine casing.	4252.00 m		-		

11	Sporadic Work Outsourcing Contract 2.e) NDT-DP testing of aluminum alloy components full surface.	1237.00 Nos.				
12	Sporadic Work Outsourcing Contract 2.f) NDT-DP testing on weld joints of flight hardware.	7416.00 Nos.				
13	Sporadic Work Outsourcing Contract 3.a) Mechanical property evaluation at (300K) - i) Tensile test on different materials, ii) Lap shear test on bimetals, iii) Compression test on cement cubes, iv) Bend test on coated specimen.	989.00 Nos.				
14	Sporadic Work Outsourcing Contract 3.b) Mechanical property evaluation at low temperature (77K, 20K etc) which includes- i) Tensile test on different materials, ii) Lap shear test on bimetals	446.00 Nos.				

15	Sporadic Work Outsourcing Contract 3.c) Property measurements which includes Metallographic Analysis, Hardness measurement, Ferrite measurement, Stiffness measurement on springs and XRF analysis.	1237.00 Nos.		-		
16	Sporadic Work Outsourcing Contract 3.d) Torque wrench calibration, load verification of crane scale and load cells.	494.00 Nos.		-		
17	Sporadic Work Outsourcing Contract 4.a) Quality control activities related to CUS & C25 stage, Hardware clearance verification and filing.	7118.00 Nos.		-		
18	Sporadic Work Outsourcing Contract 4.b) Drawing documentation and filing of Cryogenic Upper Stages and Cryogenic Engines.	3560.00 Nos.		-		

19	Sporadic Work Outsourcing Contract 4.c) Qualification and acceptance test of flight hardware for Cryogenic Upper Stages and Cryogenic Engine. The work includes i) Hydro test, ii) Pneumo test, iii) MSLD test.	2469.00 Nos.				
20	Sporadic Work Outsourcing Contract 4.d) MSLD leak check of tank weldments for Cryogenic Upper Stages and Cryogenic Engines.	950.00 m				
21	Sporadic Work Outsourcing Contract 4.e) Surface cleaning of pipe lines, tanks and sub-system of flight hardware for Cryogenic Upper Stages & Engine i) Pickling & Passivation of pipe lines and hardware, ii) Cleaning of pipe lines and hardware.	1661.00 Nos.				

22	Sporadic Work Outsourcing Contract 4.f) Surface cleaning of flight tanks and sub-system hardware for Cryogenic Upper Stages and Cryogenic Engines.	3263.00 m2		-		
23	Sporadic Work Outsourcing Contract 4.g) Visual inspection of Thermal insulated tanks and sub-system for Cryogenic Upper Stages.	712.00 m2		-		
24	Sporadic Work Outsourcing Contract 4.h) Coating thickness measurement of Thermal insulation.	9493.00 Nos.		-		
25	Sporadic Work Outsourcing Contract 4.i) Foam trial verification like beaker test, carton test, M/C parameter setting for Cryogenic Upper Stages.	277.00 Nos.		-		
26	Sporadic Work Outsourcing Contract 5.a) Testing of 50 Litre capacity gas Cylinder.	361.00 Nos.		-		

27	Sporadic Work Outsourcing Contract 5.b) Testing of 1000 lit and 2200 lit capacity gas cylinders.	291.00 Nos.					
28	Sporadic Work Outsourcing Contract 5.c) Preparation of Cylinder Test Reports.	1745.00 Nos.					
29	Sporadic Work Outsourcing Contract 5.d) Calibration of 8T, 6T and 300kg Weighing machines.	58.00 Nos.					
30	Sporadic Work Outsourcing Contract 5.e) Cleaning & Lubrication of internal cleaning machine for 50 lit. Capacity gas cylinders.	58.00 Nos.					
31	Sporadic Work Outsourcing Contract 5.f) Cleaning & Lubrication of hydraulic actuated fixture for 2.2 m3 gas cylinders testing.	58.00 Nos.					
32	Sporadic Work Outsourcing Contract 5.g) Cleaning and lubrication of 25 nos. of slings at a time.	70.00 Nos.					

33	Sporadic Work Outsourcing Contract 5.h) Painting of equipment's available at GCTF.	14.00 Nos.					
34	Sporadic Work Outsourcing Contract 5.i) GN2 filling in 50 lit. Cylinders.	70.00 Nos.					
35	Sporadic Work Outsourcing Contract 5.j) Filling in 1 m ³ cylinder mounted on trailer.	29.00 Nos.					
36	Sporadic Work Outsourcing Contract 5.k) Dismantling and assembly of Pressure gauges for calibration (25 nos.)	14.00 Nos.					
37	Sporadic Work Outsourcing Contract 5.l) Operation of DM water plant.	70.00 Nos.					
38	Sporadic Work Outsourcing Contract 5.m) Transfer of DM water from 40m ³ Storage tank to 8m ³ DM water tank/ tanker.	70.00 Nos.					