

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
SATISH DHAWAN SPACE CENTRE SHAR SRIHARIKOTA (SDSC SHAR)
NELLORE**

Tender for Phenolic Foam Thermal Insulation

Bids to be submitted online

Tender No.: SDSC SHAR/LSSF PURCHASE/SH202100162801 dated 24-12-2021

A. Tender Details

| | |
|------------------------|--|
| Tender No : | SDSC SHAR/LSSF PURCHASE/SH202100162801 |
| Tender Date : | 24-12-2021 |
| Tender Classification: | GOODS |
| Purchase Entity : | LSSF PURCHASE |
| Centre : | SATISH DHAWAN SPACE CENTRE SHAR SRIHARIKOTA (SDSC SHAR) |

Procurement of Phenolic Foam Thermal Insulation

Procurement of Phenolic Foam Thermal Insulation on PT Two part basis.

We are proposing to invite Tenders in Two Parts viz., Part-I Techno and Commercial & Part-II Price. All Tenderers are requested to follow carefully the following instructions before preparing their offer.

1.PART- I- TECHNO COMMERCIAL BID -

- (1)This part should contain detailed Specifications of the items quoted by you along with Technical Literature and Leaflets if any.
- (2)All the Commercial terms and Conditions applicable also should be indicated separately under separate heads.
- (3)The Commercial terms such as delivery terms, delivery period, payment terms, warranty, validity of the offer, Installation & Commissioning, Duties and Taxes etc shall come into this.
- (4)Either Technical Specifications or Terms & Conditions as above should be very clearly reflected items wise with reference to the items called for in the tender.
- (5)Please not those Prices should not be indicated in this part.
- (6)Any deviations from the Technical Specifications and Commercial Terms shall be indicated separately.

2.PART II PRICE BID

- (1)The prices applicable for the items, item wise in response to the tender shall come into this part.
- (2)Tender shall indicate very clearly item wise prices with reference to their Technical Offer.

A.1 Tender Schedule

Bid Submission Start Date : **24-12-2021 11:40**

Bid Clarification Due Date : **24-12-2021 15:00**

Bid Submission Due Date : **24-01-2022 16:00**

Bid Opening Date : **25-01-2022 14:30**

Price Bid Opening Date : **25-02-2022 14:30**

B. Tender Attachments

Technical Write-up/Drawings

Document : Spec

Document : QAP

Document : Deviations

Instructions To Vendors

4. We are proposing to invite Tenders in Two Parts viz., Part-I Techno and Commercial & Part-II Price. All Tenderers are requested to follow carefully the following instructions before preparing their offer.

1.PART- I- TECHNO COMMERCIAL BID -

(1)This part should contain detailed Specifications of the items quoted by you along with Technical Literature and Leaflets if any.

(2)All the Commercial terms and Conditions applicable also should be indicated separately under separate heads.

(3)The Commercial terms such as delivery terms, delivery period, payment terms, warranty, validity of the offer, Installation & Commissioning, Duties and Taxes etc shall come into this.

(4)Either Technical Specifications or Terms & Conditions as above should be very clearly reflected items wise with reference to the items called for in the tender.

(5)Please not those Prices should not be indicated in this part.

(6)Any deviations from the Technical Specifications and Commercial Terms shall be indicated separately.

2.PART II PRICE BID

(1)The prices applicable for the items, item wise in response to the tender shall come into this part.

(2)Tender shall indicate very clearly item wise prices with reference to their Technical Offer.

C. Bid Templates

C.1 Technical Bid - Phenolic Foam Thermal Insulation

1. INSULATION MATERIAL

for Pipe lines of size 15NB, Thickness 40mm

Item specifications for INSULATION MATERIAL

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|---------------------------|---|--------------------|-----------------------|--------|
| 1 | Material | Phenolic Foam | Yes / No / Explain | | |
| 2 | Pipe Size | 15NB as per ANSI B36.19 | Yes / No / Explain | | |
| 3 | Thickness of insulation | 40mm | Yes / No / Explain | | |
| 4 | External Surface | Aluminium foil, with 25 mm overlap along the length and Circumference | Yes / No / Explain | | |
| 5 | Length of each section | 1000 mm | Yes / No / Explain | | |
| 6 | No. of sections per meter | Two | Yes / No / Explain | | |

2. INSULATION MATERIAL

for Pipe lines of size 25NB, Thickness 40mm

Item specifications for INSULATION MATERIAL

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|-------------------------|---|--------------------|-----------------------|--------|
| 1 | Material | Phenolic Foam | Yes / No / Explain | | |
| 2 | Pipe Size | 25NB as per ANSI B36.19 | Yes / No / Explain | | |
| 3 | Thickness of insulation | 40mm | Yes / No / Explain | | |
| 4 | External Surface | Aluminium foil, with 25 mm overlap along the length and Circumference | Yes / No / Explain | | |

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|---|---------------------------|---------|--------------------|--|--|
| 5 | Length of each section | 1000 mm | Yes / No / Explain | | |
| 6 | No. of sections per meter | Two | Yes / No / Explain | | |

3. INSULATION MATERIAL

for Pipe lines of size 40NB, Thickness 40mm

Item specifications for INSULATION MATERIAL

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|---------------------------|---|--------------------|-----------------------|--------|
| 1 | Material | Phenolic Foam | Yes / No / Explain | | |
| 2 | Pipe Size | 40NB as per ANSI B36.19 | Yes / No / Explain | | |
| 3 | Thickness of insulation | 40mm | Yes / No / Explain | | |
| 4 | External Surface | Aluminium foil, with 25 mm overlap along the length and Circumference | Yes / No / Explain | | |
| 5 | Length of each section | 1000 mm | Yes / No / Explain | | |
| 6 | No. of sections per meter | Two | Yes / No / Explain | | |

4. INSULATION MATERIAL

for Pipe lines of size 50NB, Thickness 40mm

Item specifications for INSULATION MATERIAL

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|-------------------------|---|--------------------|-----------------------|--------|
| 1 | Material | Phenolic Foam | Yes / No / Explain | | |
| 2 | Pipe Size | 50NB as per ANSI B36.19 | Yes / No / Explain | | |
| 3 | Thickness of insulation | 40mm | Yes / No / Explain | | |
| 4 | External Surface | Aluminium foil, with 25 mm overlap along the length and Circumference | Yes / No / Explain | | |

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|---|---------------------------|---------|--------------------|--|--|
| 5 | Length of each section | 1000 mm | Yes / No / Explain | | |
| 6 | No. of sections per meter | Two | Yes / No / Explain | | |

5. INSULATION MATERIAL

for Pipe lines of size 100NB, Thickness 40mm

Item specifications for INSULATION MATERIAL

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|---------------------------|---|--------------------|-----------------------|--------|
| 1 | Material | Phenolic Foam | Yes / No / Explain | | |
| 2 | Pipe Size | 100NB as per ANSI B36.19 | Yes / No / Explain | | |
| 3 | Thickness of insulation | 40mm | Yes / No / Explain | | |
| 4 | External Surface | Aluminium foil, with 25 mm overlap along the length and Circumference | Yes / No / Explain | | |
| 5 | Length of each section | 1000 mm | Yes / No / Explain | | |
| 6 | No. of sections per meter | Two | Yes / No / Explain | | |

6. INSULATION MATERIAL

slabs for 60m3 tanks (2 tanks) cylindrical shell portion

Item specifications for INSULATION MATERIAL

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|-------------------------|---|--------------------|-----------------------|--------|
| 1 | Material | Phenolic Foam | Yes / No / Explain | | |
| 2 | Tank volume | 60,000 liters | Yes / No / Explain | | |
| 3 | Thickness of insulation | 50mm | Yes / No / Explain | | |
| 4 | External Surface | Aluminium foil is to be provided for exposed surface of Thickness ~ 50 Micron | Yes / No / Explain | | |

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|---|------------------|---|--------------------|--|--|
| 5 | Internal Surface | Glass cloth acing to be provided as per BS 3396 part-I, Type E approximate thickness: 0.3 to 0.43mm | Yes / No / Explain | | |
| 6 | Tank mounting | Horizontal | Yes / No / Explain | | |
| 7 | Tank ends | Torispherical dished ends | Yes / No / Explain | | |

Document : Drg

7. INSULATION MATERIAL

slabs for 60m³ tanks (2 tanks) dish end portion

Item specifications for INSULATION MATERIAL

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|-------------------------|---|--------------------|-----------------------|--------|
| 1 | Material | Phenolic Foam | Yes / No / Explain | | |
| 2 | Tank volume | 60,000 liters | Yes / No / Explain | | |
| 3 | Thickness of insulation | 50mm | Yes / No / Explain | | |
| 4 | External Surface | Aluminium foil is to be provided for exposed surface of Thickness ~ 50 Micron | Yes / No / Explain | | |
| 5 | Internal Surface | Glass cloth acing to be provided as per BS 3396 part-I, Type E approximate thickness: 0.3 to 0.43mm | Yes / No / Explain | | |
| 6 | Tank mounting | Horizontal | Yes / No / Explain | | |
| 7 | Tank ends | Torispherical dished ends | Yes / No / Explain | | |

Document : Drg

8. INSULATION MATERIAL

slabs for 3.5m³ tanks (2 tanks) cylindrical shell portion

Item specifications for INSULATION MATERIAL

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|-------------------------|---|--------------------|-----------------------|--------|
| 1 | Material | Phenolic Foam | Yes / No / Explain | | |
| 2 | Tank volume | 3500 liters | Yes / No / Explain | | |
| 3 | Thickness of insulation | 50mm | Yes / No / Explain | | |
| 4 | External Surface | Aluminium foil is to be provided for exposed surface of Thickness ~ 50 Micron | Yes / No / Explain | | |
| 5 | Internal Surface | Glass cloth acing to be provided as per BS 3396 part-I, Type E approximate thickness: 0.3 to 0.43mm | Yes / No / Explain | | |
| 6 | Tank mounting | Horizontal | Yes / No / Explain | | |
| 7 | Tank ends | 2:1 Ellipsoidal dished ends | Yes / No / Explain | | |

[Document : Drg](#)

9. INSULATION MATERIAL

slabs for 3.5m³ tanks (2 tanks) dish end portion

Item specifications for INSULATION MATERIAL

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|-------------------------|---|--------------------|-----------------------|--------|
| 1 | Material | Phenolic Foam | Yes / No / Explain | | |
| 2 | Tank volume | 3500 liters | Yes / No / Explain | | |
| 3 | Thickness of insulation | 50mm | Yes / No / Explain | | |
| 4 | External Surface | Aluminium foil is to be provided for exposed surface of Thickness ~ 50 Micron | Yes / No / Explain | | |

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|---|------------------|---|--------------------|--|--|
| 5 | Internal Surface | Glass cloth acing to be provided as per BS 3396 part-I, Type E approximate thickness: 0.3 to 0.43mm | Yes / No / Explain | | |
| 6 | Tank mounting | Horizontal | Yes / No / Explain | | |
| 7 | Tank ends | 2:1 Ellipsoidal dished ends | Yes / No / Explain | | |

Document : Drg

Common Specifications (Applicable for all items)

| SI No | Specification | Value | Compliance | Offered Specification | Remark |
|-------|--|--|--------------------|-----------------------|--------|
| 1 | Scope | The scope of supply includes manufacturing and supply of phenolic foam thermal insulation material of required thickness for pipes and tanks as per the enclosed specifications. | Yes / No / Explain | | |
| 2 | The bid and all correspondence incidentals to and concerning the bid shall be in the English Language. For supporting document and printing literature submitted in any other language, an accurate English Translation shall also be submitted. | Responsibility for correctness in translation shall lie with the Bidder. All the measurements shall be given in metric system | Yes / No / Explain | | |

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|---|--|---|--------------------|--|--|
| 3 | All direct and indirect costs associated with the preparation and submission of bid shall be to Bidder's account and SDSC SHAR will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bid process | To be agreed by bidder | Yes / No / Explain | | |
| 4 | Bid shall remain valid for acceptance for a minimum period of 120 days from the due date of submission of the Bid. | The Bidder shall not be entitled during the said period to revoke or revise his Bid or to vary the Bid except and to the extent required by SDSC SHAR in writing. Bid shall be revalidated for extended period as required by SDSC SHAR in writing. In such cases, unless otherwise specified, it is understood that validity is sought and provided without varying either the quoted price or any other terms & conditions of Bid finalized till that time. | Yes / No / Explain | | |
| 5 | Suppliers shall submit the bids in TWO-PART bid basis. Part-I shall be techno-commercial bid and Part-II shall be price bid. | To be agreed by bidder | Yes / No / Explain | | |

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|----|--|--|--------------------|--|--|
| 6 | The bidder shall necessarily be a manufacturer of phenolic foam thermal insulation material. Traders/Dealers/Agents need not quote | To be confirmed by bidder | Yes / No / Explain | | |
| 7 | Bids shall be submitted in the following order. | To be agreed by bidder | Yes / No / Explain | | |
| 8 | Part-1: Techno-Commercial Bid | To be confirmed without indicating prices | Yes / No / Explain | | |
| 9 | Schedule of prices shall not be filled in this format. Deviations in terms and conditions, assumptions etc. shall be stipulated in column specified in the portal. | Technical bid received with prices will be invalid and shall not be considered for further evaluation. | Yes / No / Explain | | |
| 10 | Part-2: Price Bid | To be filled in price bid format of e-portal only | Yes / No / Explain | | |
| 11 | Prices shall be filled in the price bid format of the e-portal only. The price bids will be opened only after evaluation and acceptance of the technical bid of the respective tenderer. | To be agreed by the bidder | Yes / No / Explain | | |
| 12 | Vendor evaluation by a technical team of SDSC SHAR has to be accepted by the party. | The vendor evaluation will be done after the opening of technical bid and before the opening of price bid if required. | Yes / No / Explain | | |

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| 13 | The bidder shall carryout the following tests on phenolic foam sample in the presence of SDSC SHAR technical team during the vendor evaluation. No extra charges shall be paid for these tests and to be done free of cost | Compression strength Density Thermal Conductivity Closed cell content Ignitibility Dimensional Stability Critical Oxygen Index | Yes / No / Explain | | |
| 14 | SDSC SHAR reserves the right to reject any or all the Bids without assigning any reasons thereof. | To be agreed by bidder | Yes / No / Explain | | |
| 15 | During evaluation, SDSC SHAR may request bidder for any clarification on the bid or additional documents. | To be agreed by bidder | Yes / No / Explain | | |
| 16 | Bidder must provide the point by point compliance to the technical specifications along with deviations if any. The tender will be rejected, if the deviations are not acceptable to the department. | To be agreed by bidder | Yes / No / Explain | | |
| 17 | Bids from the manufacturers of phenolic foam thermal insulation material will only be considered and the bidder shall confirm the same. | Offers from Traders/Dealers/Agents will not be acceptable | Yes / No / Explain | | |

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|----|--|---|--------------------|--|--|
| 18 | The bidder shall have necessarily executed atleast 1 order of more than 32 lakh (or) 2 orders of more than 20 lakh (or) 3 orders of more than 16 lakh confirming the manufacturing and supply of phenolic foam insulation material during the 3 financial years ending with March 2020 | Copies of purchase orders to be submitted along with the quotation, failing which the offer will not be considered. | Yes / No / Explain | | |
| 19 | The bidder shall submit the following along with the tender | a. Company's profile comprising of manpower and annual turnover for the past 3 years. b. Production capacity per annum. c. Orders executed for the past 3 financial years (2017-18, 2018-19, 2019-2020) for the supply of phenolic foam thermal insulation material. d. Orders in hand for the supply of phenolic foam thermal insulation material | Yes / No / Explain | | |
| 20 | Our general payment terms are within 30 days after receipt and acceptance of items at purchaser's (SDSC-SHAR, Sriharikota) site. | The bidders shall give point-wise confirmation to all the specifications without which the offer will not be considered. Deviations any shall be clearly indicated. | Yes / No / Explain | | |

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| 21 | Delivery of items is the essence of the contract. All the items shall be delivered to SDSC SHAR within 8 months from the date of release of PO. | To be agreed by bidder | Yes / No / Explain | | |
| 22 | Documentation: At the time of dispatch 2 sets of documents comprising all the test reports including copies of type test certificates shall be submitted | To be agreed by bidder | Yes / No / Explain | | |
| 23 | The basic insulation material shall have the following features: | To be agreed by bidder | Yes / No / Explain | | |
| 24 | Fire Resistance | To be confirmed by bidder | Yes / No / Explain | | |
| 25 | Non-flammable | Retains its shape and does not soften, melt or drip, when subject to fire. | Yes / No / Explain | | |
| 26 | No deterioration with time. | To be confirmed by bidder | Yes / No / Explain | | |
| 27 | Good adhesion to facings | To be confirmed by bidder | Yes / No / Explain | | |
| 28 | No emission of toxic fumes in the event of fire. | Toxicity index shall be < 1 (NCD1409) To be confirmed by bidder | Yes / No / Explain | | |
| 29 | Negligible smoke generation. | Smoke index < 5 as per NCD-1411 To be confirmed by bidder | Yes / No / Explain | | |
| 30 | Anti-static properties. | To be confirmed by bidder | Yes / No / Explain | | |
| 31 | Thermal Properties: | <ul style="list-style-type: none"> • Thermal Conductivity: < 0.02 W/m.K as per BS-4370: Part-2 • Thermal Range = -196 °C to +130 °C | Yes / No / Explain | | |

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|----|-------------------------|--|--------------------|--|--|
| 32 | Mechanical Properties: | <ul style="list-style-type: none"> • Density 40-50 kg/m³ as per BS-3927 of 1986 • Compressive strength: Not less than 150 kPa as per BS-4370 Part-2 • Tensile Strength, cross breaking strength, dimensional stability and closed cell contents as per BS-4370 | Yes / No / Explain | | |
| 33 | Moisture Properties: | <ul style="list-style-type: none"> • Water absorption = <4% by volume or as per ISO 2896 • Water Vapour transmission < 3per Inch as per BS4370: Part-2 | Yes / No / Explain | | |
| 34 | Fire Performance | BS-476 part 7, 1971 class-I BS 476 Part5:1979- Class P 55 + 5% < 5% (1976 Classifications) - Class 0 in accordance with BS 476 part 6 as per BS-5946 – Non punking | Yes / No / Explain | | |
| 35 | Surface spread of flame | BS-476 part 7, 1971 class-I | Yes / No / Explain | | |
| 36 | Ignitability: | BS 476 Part5:1979- Class P | Yes / No / Explain | | |
| 37 | Critical Oxygen Index: | 55 + 5 percent | Yes / No / Explain | | |
| 38 | Obscuration: | < 5 percent | Yes / No / Explain | | |
| 39 | Building regulation | (1976 Classifications) - Class 0 | Yes / No / Explain | | |
| 40 | Fire propagation | in accordance with BS 476 part 6 | Yes / No / Explain | | |
| 41 | Punking Behaviour | as per BS-5946 – Non punking | Yes / No / Explain | | |

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|----|--|--|--------------------|--|--|
| 42 | Outer Surface details of Phenotherm slabs for tanks: | Aluminium foil is to be provided for exposed external surface Thickness of Aluminium foil should be 50 Micron (as per CT-5, Lantec specs.) Aluminium foil covered with 2" extra on all side. | Yes / No / Explain | | |
| 43 | Inner Surface details of Phenotherm slabs for tanks: | Glass cloth acing to be provided on the curvature side of the slab As Per BS 3396 part-I, Type E (approximate thickness: 0.3 to 0.43mm). | Yes / No / Explain | | |
| 44 | Details of 60m3 tank: | As per the Drawing No. LSSF/ESPS/NST/01 | Yes / No / Explain | | |
| 45 | Overall details of Tank 60m3 | <ul style="list-style-type: none"> Storage tank of SS Construction Horizontal, cylindrical with torispherical dished ends | Yes / No / Explain | | |
| 46 | Cylindrical portion (Size of segments) | <ul style="list-style-type: none"> This portion of tank shall be insulated using curved segments. The slabs need to match the tank curvature, the dimensions shall be as per drawing. The complete cylindrical surface area shall be covered by maximum number of petals 48 for each tank | Yes / No / Explain | | |
| 47 | Torispherical dished ends: | <ul style="list-style-type: none"> This portion of the tank shall be covered in the form of petals. The complete both dished end area shall be covered by maximum number of petals 32 for each tank | Yes / No / Explain | | |
| 48 | Details of 3.5m3 Tank: | As per drawing no. LSSF/ESPS/PTU/02 | Yes / No / Explain | | |
| 49 | Overall Details of Tank 3.5m3 | <ul style="list-style-type: none"> Storage tank of SS Construction Horizontal, cylindrical with 2:1 ellipsoidal dished ends | Yes / No / Explain | | |

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|----|---|--|--------------------|--|--|
| 50 | Cylindrical portion (Size of segments) 3.5m ³ | <ul style="list-style-type: none"> • This portion of tank shall be insulated using curved segments. • The slabs need to match the tank curvature, the dimensions are given in the enclosed drawing. • The complete cylindrical surface area shall be covered by maximum number of slabs 12 for each tank | Yes / No / Explain | | |
| 51 | Ellipsoidal dished ends: | <ul style="list-style-type: none"> • This portion of the tank shall be covered in the form of petals. • The complete both dished end area shall be covered by maximum number of petals 16 for each tank | Yes / No / Explain | | |
| 52 | Pipe insulation suitable for stainless steel pipes | as per ANSI B36.19 | Yes / No / Explain | | |
| 53 | Facing of pipe section: | Aluminium foil, with 25 mm overlap along the length and Circumference. | Yes / No / Explain | | |
| 54 | The sections shall be supplied in 2 halves for each unit length of pipe. | The length of each section shall be preferably 1m i.e., each running meter pipe insulation comprises 2 halves of 1m each to suit for each meter of pipe | Yes / No / Explain | | |
| 55 | The Inner dimensions of Insulation Material should perfectly match with the outer dimensions of the specified pipe lines without any gap. | This Insulation Material will be fixed over pipelines with GI strapping and provision to remove & inspect the pipelines periodically. Since no adhesive material will be used for fixing insulation material over pipe lines, gap between pipeline and insulation material should be avoided. The same should be confirmed while quoting offer | Yes / No / Explain | | |

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|----|--|---|--------------------|--|--|
| 56 | Supplier has to submit the manufacturing drawings of the insulation slabs and quality assurance plan for testing of the material with in one month from the date of release of Purchase Order. | To be agreed by bidder | Yes / No / Explain | | |
| 57 | Insulation material shall be Inspected and tested as per standard practice/QAP and witnessed by the purchaser's representative /CLIP Member at the supplier's premises. | To be agreed by bidder | Yes / No / Explain | | |
| 58 | Supplier has to inform the purchaser, the readiness of the materials for inspection well in advance for arranging the purchaser's representative for inspection at works | The items shall be dispatched only after inspection, completed by the purchaser's inspection engineers at works and after dispatch clearance given by the purchaser | Yes / No / Explain | | |
| 59 | The supplier shall test the insulation material for the various properties like compressive strength, density, dimensional stability, closed cell content, fire resistance etc., | To be agreed by bidder | Yes / No / Explain | | |

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|----|---|------------------------|--------------------|--|--|
| 60 | Test certificates shall be furnished for properties like water absorption, thermal conductivity, toxicity index, oxygen index, smoke index, tensile strength, cross breaking strength, fire propagation, surface spread of flame and punking behaviour | To be agreed by bidder | Yes / No / Explain | | |
| 61 | The slabs shall fit for the tanks and pipes without gaps or clearances. | To be agreed by bidder | Yes / No / Explain | | |
| 62 | To avoid number of joints, tank insulation material shall have less number of petals: 60m ³ storage tank Cylindrical portion: 48 Nos, dished end: 32 Nos (2 sides), 3.5m ³ PTU tank cylindrical portion: 12 Nos, dished end: 16 Nos (2 sides), for each tank. | To be agreed by bidder | Yes / No / Explain | | |
| 63 | The materials shall be packed as per standard practice, to avoid damage during transportation and handling | To be agreed by bidder | Yes / No / Explain | | |

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|----|---|---|--------------------|--|--|
| 64 | The material shall be guaranteed for performance for a period of 12 months from the date of dispatch. | To be agreed by bidder | Yes / No / Explain | | |
| 65 | The purchaser reserves the right to procure/not procure the insulation material after receiving the quote from supplier | To be agreed by bidder | Yes / No / Explain | | |
| 66 | Payment:100 % will be made after receipt, inspection and acceptance of the material at SDSC SHAR, Sriharikota | To be agreed by bidder | Yes / No / Explain | | |
| 67 | Acceptance of QAP | To be agreed by bidder | Yes / No / Explain | | |
| 68 | Any deviations from the specifications shall be mentioned in the format enclosed. | Please mention NIL deviations in case of no deviations. | Yes / No / Explain | | |

Supporting Documents required from Vendor

1. Previous Order completion certificates if available
2. Deviations if any shall be mentioned in the attached format
3. signed and stamped specification document
4. previous purchase orders confirming the bid evaluation criteria
5. Necessary type test reports of the insulation material
6. catalogues pertaining to the phenolic foam thermal insulation material

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

| Sl. No. | Description | Compliance | Vendor Terms |
|---------|--|--------------------|--------------|
| 1 | The bidder should necessary be manufacturer of phenolic foam insulation material | Yes / No / Explain | |
| 2 | The supplier shall upload the necessary documents confirming the bid evaluation criteria | Yes / No / Explain | |
| 3 | The supplier shall confirm all the points in the general specifications | Yes / No / Explain | |
| 4 | P & F charges, if any, please mention percentage Note: Please state Whether Quoted percentage is Extra or Inclusive, if not it will be treated as included in the quoted cost. Please note that in Two part tenders, only percentage should be mentioned otherwise those offers shall be summarily rejected. | Yes / No / Explain | |
| 5 | Please mention your GST registration details GST No. for SHAR- GSTIN: 37AAAGS1366J1Z1 | Yes / No / Explain | |
| 6 | In case of Specific Brand items, Please provide Authorization certificate from OEM. | Yes / No / Explain | |
| 7 | Please specify whether you are a MSME if so please furnish the documentary evidence along with your offer. Vendors may please note that MSMEs are not exempted from the submission of security deposit. | Yes / No / Explain | |

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|----|--|--------------------|--|
| 8 | <p>As per Notification No. 05/2018 CUSTOMS Dtd. 25.01.2018 ISRO is eligible to reduced rate of customs duty @ 10.775% (CD@5% plus Surcharge@10% plus IGST@5%). In case of foreign component involved, We will provide Customs Duty Exemption Certificate in case of Import Orders/ imported supplies/ High Sea Sales. In this connection, tenderer has to provide the following.</p> <p>(i) Please indicate whether your rate is inclusive of this Customs duty @ 10.775% or extra. (ii) what would be the percentage of foreign exchange component you have considered in your quote. (iii) List of items with approximate quantities which require customs duty exemption certificate to be provided. Note: Please state Whether Quoted percentage is Extra or Inclusive, if not it will be treated as included in the quoted cost Please note that in Two part tenders, only percentage should be mentioned otherwise those offers shall be summarily rejected.</p> | Yes / No / Explain | |
| 9 | <p>Installation Charges, if any, (Please mention the percentage / amount). Note: Please state Whether Quoted percentage is Extra or Inclusive, if not it will be treated as included in the quoted cost Please note that in Two part tenders, only percentage should be mentioned otherwise those offers shall be summarily rejected.</p> | Yes / No / Explain | |
| 10 | <p>VALIDITY OF OFFER: - The validity of offers/tenders should be 90 days (In case of single part tender) and 120 days (In case of two part tender) from the date of opening of the tenders. Tenders shorter than offer validity mentioned above will not be considered for evaluation.</p> | Yes / No / Explain | |
| 11 | <p>Delivery Term:- FOR : SDSC SHAR In case of Foreign orders, FOB or FCA or EX-WORKS.</p> | Yes / No / Explain | |

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| 12 | <p>Freight charges, if any. If YES please mention the percentage / amount. Note: Please state Whether Quoted percentage is Extra or Inclusive, if not it will be treated as included in the quoted cost Please note that in Two part tenders, only percentage should be mentioned otherwise those offers shall be summarily rejected.</p> | Yes / No / Explain | |
| 13 | Delivery Period | Yes / No / Explain | |
| 14 | <p>Payment Term :- (a)100% payment shall be made through PFMS within 30 days of receipt and acceptance of the item at our site. (b)In case of Foreign orders, Payment term shall be SIGHT DRAFT / 90% BY IRREVOCABLE LETTER OF CREDIT AND BALANCE 10% BY WIRE TRANSFER AFTER RECEIPT & ACCEPTANCE OF THE ORDERED ITEM.</p> | Yes / No / Explain | |
| 15 | <p>Liquidated Damages (LD) :- Since delivery is the essence of this order, LD @ 0.5% per week or part thereof subject to a maximum of 10% of the order value for the delayed period of supply/ scope of work.</p> | Yes / No / Explain | |
| 16 | <p>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.</p> | Yes / No / Explain | |
| 17 | <p>Performance Bank Guarantee (PBG) :- You have to submit a PBG from a Nationalised / Scheduled Bank for 3 % of the order value at the time of supply valid till the completion of warranty period plus 60 days towards claim period. OR 3 % OF THE ORDER VALUE SHALL BE HOLD TILL THE COMPLETION OF WARRANTY PERIOD.</p> | Yes / No / Explain | |

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| 18 | Security Deposit (SD) :- 3 % value of the order shall be deposited with SDSC within 10 days from the date of the Purchase Order towards security deposit in the form of Bank Guarantee towards performance of the Contract valid till completion of the contract period plus sixty days towards claim period. (This will be returned by SDSC immediately on execution of the order satisfactorily as per order terms. If not, the amount will be forfeited). NOT REQUIRED FOR LANDED COST BELOW RS.5 LAKHS. | Yes / No / Explain | |
| 19 | In case, if parties are unable to provide two separate BGs, i.e., one for SD & one for PBG, they can submit a combined BG for SD & PBG for 3 % of the Order value valid till the completion of total contractual obligation (i.e., Supply period plus warranty period plus 60 days). Please confirm. | Yes / No / Explain | |
| 20 | 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 transport worthy packing. | Yes / No / Explain | |
| 21 | Validity of Offer :- The validity of the offers / tenders should be 120 days from the date of opening of the tenders. Tenders shorter than offer validity mentioned above will not be considered for evaluation. | Yes / No / Explain | |
| 22 | Remarks if any | Yes / No / Explain | |
| 23 | In case of foreign orders: (a) Please specify whether any Export clearance is required. (b) Please specify whether any agency commission is involved or not | Yes / No / Explain | |

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| 24 | <p>Special conditions against Indian Agents submitting quotations in Foreign Currency.</p> <p>(a) Foreign Principals proforma invoice indicating the commission payable to the Indian Agent and nature of after sales service to be rendered by the Indian Agent.</p> <p>(b) Copy of Agency agreement with the Foreign Principal, precise relationship between them and their mutual interest in the business.</p> <p>(c) The enlistment of the Indian Agent with Director-General of Supplies & Disposals under the Compulsory Registration Scheme of Ministry of Finance.</p> | Yes / No / Explain | |
| 25 | Please provide valid/currently using E-mail Id & Contact no. for seeking further clarifications if any | Yes / No / Explain | |
| 26 | <p>For this procurement, bids from Class-I & class-II Local Suppliers are admissible. Hence provisions contained in Public Procurement (Preference to Make in India), Order 2017 issued by Department for Promotion of Industry and Internal Trade (DIPP), Ministry of Commerce & Industries vide letter No. P-45021/2/2017-PP(BE-II) dated 04.06.2020 and subsequent amendment & directives shall be followed. Accordingly, offer will be evaluated & processed in conformation with above referred GOI order (Specially mentioned below). The bidder shall provide compliance and undertaking as per order and hereafter amendments: Order no: F.No.6/18/2019 PPD dated 23.07.2020 of Department of Expenditure), Ministry of Finance Under Public procurement division for the General Financial rule (GFRs).</p> <p>(a) Class-I local supplier means a supplier or service provider, whose goods, service or works offered for procurement, has local content equal to or more than 50%, as defined under order.</p> <p>(b) Class-II local supplier means a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%, as defined under this Order.</p> <p>IT IS ALSO REQUESTED TO PROVIDE MII CERTIFICATE FOR PROVING THE PERCENTAGE OF LOCAL CONTENT.</p> | Yes / No / Explain | |

C.3 Price Bid

| Sl. No. | Item | Quantity | Unit Price | Currency | Total Price | P&F IN PERCENTAGE | FREIGHT PERCENTAGE | Remark |
|---------|--|----------|------------|----------|-------------|-------------------|--------------------|--------|
| 1 | INSULATION MATERIAL for Pipe lines of size 15NB, Thickness 40mm | 100.00 m | | - | | | | |
| 2 | INSULATION MATERIAL for Pipe lines of size 25NB, Thickness 40mm | 100.00 m | | - | | | | |
| 3 | INSULATION MATERIAL for Pipe lines of size 40NB, Thickness 40mm | 150.00 m | | - | | | | |
| 4 | INSULATION MATERIAL for Pipe lines of size 50NB, Thickness 40mm | 550.00 m | | - | | | | |
| 5 | INSULATION MATERIAL for Pipe lines of size 100NB, Thickness 40mm | 500.00 m | | - | | | | |

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|---|--|-----------|--|---|--|--|--|--|
| 6 | INSULATION MATERIAL slabs for 60m3 tanks (2 tanks) cylindrical shell portion | 180.00 m2 | | - | | | | |
| 7 | INSULATION MATERIAL slabs for 60m3 tanks (2 tanks) dish end portion | 50.00 m | | - | | | | |
| 8 | INSULATION MATERIAL slabs for 3.5m3 tanks (2 tanks) cylindrical shell portion | 22.00 m2 | | - | | | | |
| 9 | INSULATION MATERIAL slabs for 3.5m3 tanks (2 tanks) dish end portion | 8.00 m2 | | - | | | | |