

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

Tender for Supply of Liquid Methane road tankers

Bids to be submitted online

Tender No.: IPRC/PURGP2/IP202400048001 dated 13-05-2024

A. Tender Details

Tender No :	IPRC/PURGP2/IP202400048001
Tender Date :	13-05-2024
Tender Classification:	GOODS
Purchase Entity :	PURGP2
Centre :	ISRO PROPULSION COMPLEX (IPRC)

Supply of Liquid Methane road tankers

This is a two-part bid. Price details shall NOT be mentioned in technical Bid/attachments, failing which the offer will not be considered.

Foreign vendors are not permitted to quote.

Only Class-I and Class-II Local suppliers as per Make in India (MII) Policy are eligible to participate in the bid and submit the MII declaration certificate which is mandatory.

The percentage of local content is mandatory and it should be specifically mentioned in the offer.

Preference will be given to Class-I Local Supplier and in their absence, Class-II Local Supplier will be considered.

MSME preference is applicable only against the claim of the manufacturer and production of documentary evidence by the manufacturers for the registration of particular item under MSME.

Last minute clarification on tenders will not be entertained.

This is an e-Tender. Hence Postal/Fax/Email tenders will not be accepted.

Acceptance of Guarantee / Warranty, PBG, SD, LD shall be complied.

Please mention your Government E market Place (GeM) Seller ID for our reference.

A.1 Tender Schedule

Bid Submission Start Date :	15-05-2024 14:00
Bid Clarification Due Date :	22-05-2024 11:00
Bid Submission Due Date :	12-06-2024 11:30
Bid Opening Date :	18-06-2024 14:00

Price Bid Opening Date :

18-06-2024 14:05

B. Tender Attachments

Technical Write-up/Drawings

Document : Specification of LCH4 road tankers

Document : QAP

Instructions To Vendors

3. General Instructions

1. Last minute clarification on tenders will not be entertained.
2. This is an E Tender. Hence Postal/Fax/Email tenders will not be accepted.
3. If a vendor is not able to submit bid against this tender due to any reason, such vendor is requested to post their REGRET message in the e-procurement portal with clear reasons or email to psogroup2@iprc.gov.in. Non submission of bids without regrets will be viewed seriously.
4. IPRC reserves the right to split the tendered quantity in part or whole on its sole discretion without assigning any reason.
5. IPRC has the right to cancel the tender without assigning any reason etc.
6. If any vendor submits forged / false documents along with the tender, offer of such vendors will be summarily rejected and such bidders will be blacklisted for all future tenders.
7. Option Clause:-The purchaser reserves the right to increase/decrease the ordered quantity by up to 25-30 percent at any time, till final delivery date (or the extended delivery date of the contract), by giving reasonable notice even though the quantity ordered initially has been supplied in full before the last date of the delivery period (or the extended delivery period)

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

1. 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.
2. As per the Rule 144(xi) of General Financial Rule, 2017, any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including

consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the competent authority ie., Department for Promotion of Industry and Internal Trade (DPIIT).

3. Hence, Vendors or Agents of a Vendor (Indian or others) from a country sharing border with India shall submit copy of valid registration made with Department for Promotion of Industry and Internal Trade (DPIIT), Government of India along with the tender mandatorily, without which the offer will be treated as invalid.

4. Model Certificate for Tenders

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered

5. 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.

5. Format for Self Certification under Preference to MAKE IN INDIA Policy CERTIFICATE

1. In line with Government Public Procurement Order No. P-45021/2/2017-BE-II dt. 15.06.2017, as amended from time to time and as applicable on the date of submission of tender, we hereby certify that we M/s. _____(supplier name) are local supplier meeting the requirement of minimum Local content _____% as defined in above orders for the materials against Tender Enquiry No.

_____Dt:_____ The items considered for local value addition are:

2. 1. -----

2. -----

3. -----

(if required add more rows and items)

Details of location at which local value addition will be made is as follows:

3. We also understand, false declarations will be in breach of the Code in Integrity under Rule 175(1) (i) (h) of the General Financial Rule 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.

4. For (COMPANY NAME)

Authorized Signatory

6. GeM Seller ID

1. GeM Seller Registration: All vendors shall register themselves in GeM Portal (gem.gov.in) and provide GeM Seller unique ID in the tender documents, as this ID is mandatory for award of contract.

7. [GENERAL TERMS AND CONDITIONS]

1. (I) GST where legally leviable and intended to be claimed should be distinctly shown separately in the tender.

2. (II) a) Facility of after sales service to be confirmed with details. b) Permanent Account Number (PAN) allotted by Income-Tax authorities shall be furnished with documentary proof. Otherwise, documentary proof for having applied for PAN should be provided. Also PAN should be in the name of Company/Firm, if quoted by the Company/Firm and in the name of Individual, if quoted by individual. c) GST No. d) PAN No. e) Local office in Tirunelveli / Nagercoil is preferable. Note: (b) to (e) are applicable for Indian Companies only.

3. (III) Our standard delivery term is FOR, IPRC. In case any vendor offers delivery term of Ex-works, Packing and Forwarding charges if any should be indicated separately in Your quotation/E-procurement Price Bid. In case of imported items (stores), Ex-Works/FOB/FCA prices should be indicated.

4. (IV) PAYMENT: Our standard payment term is 100% within 30 days after receipt and acceptance of

the items at our site (after installation and commissioning in cases where installation and commissioning is required)-for Indigenous supply.

5. (V) Guarantee / Warranty period as applicable shall be indicated, along with the quote. Guarantee/Warranty shall commence from the date of installation and acceptance of the complete equipment supplied under the contract/purchase order.

6. (VI) LIQUIDATED DAMAGES: Delivery is the essence of the contract. Items shall be delivered within stipulated period. If delivery is delayed beyond the stipulated delivery period mentioned in the purchase order or any extension thereof, an amount equal to 0.5% per week shall be recovered, subject to a maximum of 10% of the order value shall be deducted from your bills due. For Staggered supply, maximum of 10% of value respective staggered supply lot.

7. (VII) PERFORMANCE BANK GUARANTEE : (If Warranty is applicable/sought in our Tender enquiry) The Supplier shall guarantee the successful and satisfactory performance/commissioning of equipment/machinery under the conditions specified in the Purchase Order. As a performance security, the SUPPLIER shall furnish a performance bank guarantee (format enclosed) from Nationalized Bank/Scheduled Bank for an amount equal to the sum of 3% of the order value ensuring the due performance of equipment/machinery in accordance with all the specifications and terms specified in the Purchase Order herein valid for the warranty period. On due performance, the performance bank guarantee shall be automatically cancelled and returned to the Supplier within 30 days after expiry of the Warranty period. The performance bank guarantee shall have claim period of six months.

8. (VIII) SECURITY DEPOSIT : Wherever the offer price is Rs. 5.00 Lakhs or above, the successful tenderer should submit Security Deposit @ 3% of the order value by way of Bank Guarantee / FD Receipt/DD duly endorsed in favour of Accounts Officer, IPRC or by way of Bank Guarantee (in the prescribed format) within 20 days after receipt of order and valid up to the successful execution of the order. In case if Security Deposit is submitted and the contractor fails to execute the order, then the security deposit will be forfeited.

9. Note: SD, LD and PBG clauses are mandatory [which will be indicated in Tenders] and offers of the vendors who have not agreed for the above conditions will be excluded from the procurement process. Micro and Small Vendors are not exempted from the submission of Security Deposit. Only Govt Departments/PSUs/PSEs can submit Indemnity Bond instead of Bank Guarantee towards SD/PBG.

10. (IX) IPRC reserves the right to accept or reject any quotation in full or part thereof by recording the reasons.

11. (X) IPRC shall not be responsible for failure of vendors in submitting bids online caused due to technical reasons at vendor end such as network or power failures, computer failure, internet-browser, mistakes / errors in filling the bids on line by vendor etc.

12. (XI) Last minute request for the extension of the due date w.r.t. any technical issue at Vendors/Suppliers side will not be considered. You may submit your quotation online well in advance instead of waiting till the last date to ensure that Internet problem and network condition does not cause problem.
13. (XII) Offers sent through post, telegram, fax, e-mail, courier will not be considered. Partially completed / incomplete tenders shall not be considered.
14. (XIII) Only authorized dealers/agents or their accredited representatives for original manufacturers have to submit the quotation with documentary evidence.
15. (XIV) The goods or material offered should be strictly as per our specifications. Change(s) in specifications, if any, should be clearly indicated by the supplier in his quotation. The supplier should also indicate make/type No. of the materials or equipment offered. Vague terms such as Best quality, Best Indian, Best Indigenous and Imported make should not be used.
16. (XV) Please upload the Technical Details / Catalogue / Data Sheets (wherever applicable) along with your offer.
17. (XVI) The offer should be valid for a period of minimum 90 days from the date of opening of Tender and 180 Days for PT Two Part (120 Days for Technical Bid and 60 Days for Price Bid from the date of opening).
18. (XVII) If any bidder submits forged / false document along with the tender, offer of such vendors will be summarily rejected and such bidders will be blacklisted for all future tenders.
19. (XVIII) Wherever the tenderer is asked to submit sample for evaluation of tenders, the same shall be submitted along with your quote.
20. (XIX) The purchaser shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portions of the quantity offered and the tenderer shall supply the same at the rates quoted.
21. (XX) Purchase preference to eligible vendors are applicable as per extant notifications issued by the Government of India. In case the vendor falls in the category of Small Scale Industries(SSIs), who are registered with NSI, Public Sector Undertakings (PSUs) and Micro & Small Enterprises (MSMEs) the same shall be mentioned in their quote for evaluation. Class-I and II Local Suppliers should provide necessary Local Content Declaration[as per the Make in India Notification of Govt. Of India], along with their quote.
22. (XXI) ISRO PROPULSION COMPLEX (IPRC) is exempted from payment of Customs Duty under

Notification No. 50/2017-Customs dated 30.06.2017 and as amended by Notification No.5/18 Customs dt:25/1/18. For imported items/components in the quoted product [as eligible as per Make In India policy of Govt. Of India], IPRC will provide Customs Duty Partial Exemption Certificate for availing Concessional CD and IGST for the import items/components in the quoted products.

23. (XXII) The bids shall be in INR only.

24. (XXV) Wherever the tenderer is asked to submit sample for evaluation of tenders, the same shall be submitted along with your quote.

8. STANDARD TERMS AND CONDITIONS (DOS PM:19)

1. a. Prices are required to be quoted according to the units indicated in the annexed tender form. When quotations are given in terms of units other than those specified in the tender form, relationship between the two systems of unit must be furnished.

2. Arbitration in the event of any dispute or difference arising under these terms & conditions or any condition contained in the Purchase Order or in connection with this Contract. (except as to any matter the decision of which is specially provided for by these conditions), the same shall be referred to the sole arbitration of the Head of the Purchase Office or of some other person appointed by him, and the dispute further processed in terms of the Arbitration & Conciliation Act, 1996. There will be no objection that the arbitrator is a Government Servant that he had to deal with matter which the Contract relates to or that in the course of his duties as Government Servant has expressed views on all or any of the matters in dispute or difference. The award of the arbitrator shall be final and binding on the parties of this Contract.

3. As per the Rule 144(xi) of General Financial Rule, 2017, any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the competent authority ie., Department for Promotion of Industry and Internal Trade (DPIIT).

Hence, Vendors or Agents of a Vendor (Indian or others) from a country sharing border with India shall submit copy of valid registration made with Department for Promotion of Industry and Internal Trade (DPIIT), Government of India along with the tender mandatorily, without which the offer will be treated as invalid.

4. b. Corrections, if any, in the quotation must be attested. All amounts shall be indicated both in words as well as in figures. When there is difference between the amount quoted in words and figures, the amount quoted in words shall prevail.

5. GST/ other duties/levies, where legally leviable and intended to be claimed, should be distinctly shown separately in the tender.

6. Guarantee: The stores offered should be guaranteed for a minimum period of twelve months against defective stores design, operation or manufacture. For defects noticed during the guarantee period, replacement/repair should be arranged free of cost within a reasonable period of such notification. In cases where our specifications call for a guarantee period more than 12 months specifically, then such a period shall apply

7. If the arbitrator is a person appointed by the Head of the Purchase Office, In the event of his denying or neglecting or refusing to act, or resigning or being unable to act, for any reason, shall be lawful for the Head of the Purchase Office either to proceed with the reference himself or to appoint another person as arbitrator in place of the outgoing arbitrator subject, as aforesaid, to the Arbitration and Conciliation Act, 1996, and the rules thereunder and any statutory modifications thereof for the time being in force shall be deemed to apply to the arbitration proceeding under the clause. The Arbitrator shall have the power to extend with the consent of the Purchaser and the Contractor the time for making and publishing the award. The venue of arbitration shall be the place as the Purchaser in his absolute discretion may determine. Work under the Contract shall, if reasonably possible, continue during Arbitration Proceedings.

8. If the arbitrator is the Head of the Purchase Office :

(i) In the event of his being transferred or vacating his office by resignation or otherwise, it shall be lawful for his successor in office either to proceed with the reference himself for to appoint another person as arbitrator, or In the event of his being unwilling or unable to act for any reason, it shall be lawful for the Head of the Purchase Office to appoint another person as arbitrator

9. Late Tenders will not be considered

10. Model Certificate for Tenders:

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered

11. Packing and Forwarding: The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air, to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense to the Contractor.

12. Payment terms are full payment within 30 days from the date of receipt and acceptance of

material ordered. Our Bankers are State Bank of India, Mahendragiri.

13. Quotation should be valid for at least 120 days from the date of opening of the tender.

14. Specifications: Stores offered should strictly conform to Purchasers specifications. Deviations, if any, shall be clearly indicated by the tenderer in his quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotation. Test certificate, wherever necessary, should be forwarded along with supplies. Wherever options are called for in our specifications, the tenderer should address all such options, wherever specifically mentioned by us, and the tenderer could suggest changes to specifications with appropriate response for the same. Even in such case, the tenderer should state why he cannot meet our specifications and why he is suggesting the change.

15. Successful tenderer will have to furnish in the form of a Bank Guarantee or in any other form as called for by the Purchaser towards adequate security for the materials/property provided by the purchaser for the due execution for the Contract.

16. TERMS AND CONDITIONS OF TENDER:

Price quoted should be on the basis of FOR IPRC, Mahendragiri or delivery at site. The Purchaser will not pay separately for transit insurance, and the risk and cost during transit shall be exclusively the responsibility of the Contractor and the purchaser shall pay only for such stores as are actually received in good condition in accordance with the Contract.

17. The Contractor shall at all times indemnify the Purchaser against all claims which may be in respect of the stores for infringement of any right protected by Patent, Registration or design or Trade Mark and shall take all risks of accidents or damage which may cause a failure of the supply from whatever causes arising and the entire responsibility for the sufficiency of all means used by him for the fulfilment of the Contract.

18. The Purchaser reserves the right to accept or reject any quotation fully or partly without assigning any reason therefore.

19. The time for and the date of delivery of the stores stipulated in the Purchase Order shall be deemed to be the essence of the Contract and delivery must be completed not later than the date specified therein, and failure to do so, without adequate justification, may involve cancellation of the Contract at the discretion of the Purchaser.

20. Vendors may please note that in case of two-part tender, the price details shall be mentioned only in the price-bid template. If the price details either in part or full are indicated

in the technical bid, the bid will be disqualified.

21. Where counter terms and conditions/printed or cyclostyled conditions of sale have been offered by the tenders, the same shall not be deemed to have been accepted by the Purchaser unless the Purchaser's specific written acceptance thereof is obtained

9. STANDARD TERMS AND CONDITIONS (DOS PM: 20)

1. ACCEPTANCE OF STORES:

(a) The stores shall be tendered by the Contractor for inspection at such places as may be specified by the purchaser at the Contractor's own risk, expense and cost.

(b) It is expressly agreed that the acceptance of the stores Contracted for, is subject to final approval by the purchaser, whose decision shall be final.

(c) If, in the opinion of the purchaser, all or any of the stores do not meet the performance or quality requirements specified in the Purchase Order, they may be either rejected or accepted at a price to be fixed by the purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the Contractor.

(d) If the whole or any part of the stores supplied are rejected in accordance with Clause No. 8 (c) above, the purchaser shall be at liberty, with or without notice to the Contractor, to purchase in the open market at the expense of the Contractor stores meeting the necessary performance and quality Contracted for in place of those rejected, provided that either the purchase, or the agreement to purchase, from another supplier is made within six months from the date of rejection of the stores as aforesaid.

2. DELIVERY:

(a) The time for and the date of delivery of the stores stipulated in the Purchase Order shall be deemed to be the essence of the Contract and delivery must be completed on or before the specified dates.

(b) Should the Contractor fail to deliver the stores or any consignment thereof within the period prescribed for such delivery, the purchaser shall be entitled at his option either.

(i) to recover from the Contractor as agreed liquidated damages and not by way of penalty, a sum of 0.5% per week of the price of any stores which the Contractor has failed to deliver as aforesaid or during which the delivery of such store may be in arrears subject to a minimum of 10%, or

(II) to purchase from elsewhere, without notice to the Contractor on the account and at the risk of the Contractor, the stores not delivered or others of a similar description (where others exactly complying with the particulars, are not, in the opinion of the purchaser, readily procurable, such opinion being final) without cancelling the Contract in respect of the consignment (s) not yet due for delivery, or

(iii) to cancel the Contract or a portion thereof and if so desired to purchase or authorise the purchase of stores not so delivered or others of a similar description (where others exactly if complying with the particulars are not, in the opinion of the purchaser, readily procurable, such opinion final) at the risk and cost of the Contractor.

In the event of action being taken under sub-clause (ii) & (iii) of clause 10 (b) above, the Contractor shall be liable for any loss which the purchaser may sustain on that account, provided that the re-purchase or if there is an agreement to re-purchase then such agreement is made within six months from the date of such failure. But the Contractor shall not be entitled to any gain on such re-purchase made against default. The manner and method of such re-purchase shall be at the discretion of the purchaser, whose decision shall be final. It shall not be necessary for the purchaser to serve a notice of such re-purchase on the defaulting Contractor. This right shall be without prejudice to the right of the purchaser to recover damages for breach of Contract by the Contractor.

3. DISPATCH:

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

4. ERECTION OF PLANT & MACHINERY:

Wherever erection of a plant or machinery is the responsibility of the Contractor as per the terms of the Contract and in case the Contractor fails to carry out the erection as and when called upon to do so within the period specified by the purchaser, the purchaser shall have the right to get the erection done through any source of his choice. In such an event, the Contractor shall be liable to bear any additional expenditure that the purchaser is liable to incur towards erection. The Contractor shall, however, not be entitled to any gain due to such an action by the purchaser.

5. EXTENSION OF TIME:

As soon as it is apparent that the Contract dates cannot be adhered to, an application shall be sent by

the Contractor to the purchaser. If failure, on the part of the Contractor, to deliver the stores in proper time shall have arisen from any cause which the purchaser may admit as reasonable ground for an extension of the time (and his decision shall be final) he may allow such additional time as he considers it to be justified by circumstances, of the case without prejudice to the purchaser's right to recover liquidated damages under clause 10 thereof.

6. GUARANTEE & REPLACEMENT:

- (a) The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance.
- (b) For a period of twelve months after the acceptance of the stores, if any defects are discovered therein or any defects therein found to have developed under proper use, arising from faulty stores design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called upon to do so within a period of 14 months from the date of acceptance thereof by the purchaser who shall state in writing in what respect the stores or any part thereof are faulty.
- (c) If, in the opinion of the purchaser, it becomes necessary to replace or renew any defective stores such replacement or renewal shall be made by the Contractor free of all costs to the purchaser, provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said period of 14 months from the date of acceptance thereof.
- (d) Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores.
- (e) The decision of the purchaser notwithstanding any prior approval or acceptance or inspection thereof on behalf of the purchaser, as to whether or not the stores supplied by the Contractor are defective or any defect has developed within the said period of 12 months or as to whether the nature of the defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor.
- (f) To fulfill guarantee conditions outlined in clause 4 (a) to (e) above, the Contractor shall, at the option of the purchaser, furnish a Bank Guarantee (as prescribed by the purchaser) from a Bank approved by the purchaser for an amount equivalent to 3% of the value of the Contract along with first shipment documents. On the performance and completion of the Contract in all respects, the Bank Guarantee will be returned to the Contractor without any interest.
- (g) All the replacement stores shall also be guaranteed for a period of 12 months from the date of arrival of the stores at purchaser site.
- (h) Even while the 12 months guarantee applies to all stores, in case where a greater period is

called for by our specifications then such a specification shall apply in such cases the period of 14 months referred to in para 4 (b) & (c) shall be the guarantee period plus two months.

7. PERFORMANCE BANK GUARANTEE:

Supplier has to submit an interest free Performance Bank Guarantee for an amount equivalent to 3% (THREE PERCENT) of order value obtained from any scheduled Banks executed on Rs.200/- non-judicial stamp paper and shall be valid for a period of sixty days beyond expiry date of warranty period. The same shall be submitted along with Invoice towards final payment.

8. PACKING FORWARDING & INSURANCE:

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

9. PRICES:

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

10. REJECTED STORES:

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

11. SECURITY DEPOSIT(SD):

The Supplier shall provide Bank Guarantee for an amount equivalent to the 3% (Three 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 (format enclosed) 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.

12. TEST CERTIFICATE:

Wherever required, test certificates should be sent along with the dispatch documents.

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

10. GENERAL TERMS AND CONDITIONS

1. a) Facility of after sales service to be confirmed with details.
 - b) Permanent Account Number (PAN) allotted by Income-Tax authorities shall be furnished with documentary proof. Otherwise, documentary proof for having applied for PAN should be provided. Also PAN should be in the name of Company/Firm, if quoted by the Company/Firm and in the name of Individual, if quoted by individual.
 - c) GST No.
 - d) PAN No.
 - e) Local office in Tirunelveli / Nagercoil is preferable.
- Note: (b) to (e) are applicable for Indian Companies only.

2. All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted in words and figures, amount quoted in words shall prevail.

3. GST where legally leviable and intended to be claimed should be distinctly shown separately in the tender.

4. Guarantee / Warranty period as applicable shall be indicated, along with the quote. Guarantee/Warranty shall commence from the date of installation and acceptance of the complete equipment supplied under the contract/purchase order.

5. If an Indian agent submits bid on behalf of the Principal/OEM, the same Indian agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product

6. In a tender, either the Indian Agent on behalf of the Principal/OEM or Principal/ OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.

7. In case of imported items (stores), Ex-Works/FOB/FCA prices should be indicated. In case of indigenous stores the quotation should be on FOR-Destination / Door delivery basis.

8. In case the vendor falls in the category of Small Scale Industries(SSIs), who are registered with NSI, Public Sector Undertakings (PSUs) and Micro & Small Enterprises (MSMEs) the same shall be mentioned in their quote for evaluation.
9. Indian Agents while quoting on behalf of their principals shall attach necessary authorization letter from their Principals along with the bid.
10. IPRC reserves the right to accept or reject any quotation in full or part thereof by recording the reasons.
11. IPRC shall not be responsible for failure of vendors in submitting bids online caused due to technical reasons at vendor end such as network or power failures, computer failure, internet-browser, mistakes / errors in filling the bids on line by vendor etc.
12. ISRO PROPULSION COMPLEX (IPRC) is exempted from payment of Customs Duty under Notification No. 50/2017-Customs dated 30.06.2017 and as amended by Notification No.5/18 Customs dt:25/1/18. For imported items IPRC will provide Customs Duty Exemption Certificate for availing Concessional CD and IGST.
13. Last minute request for the extension of the due date w.r.t. any technical issue at Vendors/Suppliers side will not be considered. You may submit your quotation online well in advance instead of waiting till the last date to ensure that Internet problem and network condition does not cause problem
14. LIQUIDATED DAMAGES:Delivery is the essence of the contract. Items shall be delivered within stipulated period. If delivery is delayed beyond the stipulated delivery period mentioned in the purchase order or any extension thereof, an amount equal to 0.5% per week shall be recovered, subject to a maximum of 10% of the order value shall be deducted from your bills due. For Staggered supply, maximum of 10% of value respective staggered supply lot.
15. Offers sent through post, telegram, fax, e-mail, courier will not be considered. Partially completed / incomplete tenders shall not be considered.
16. Only authorized dealers/agents or their accredited representatives for original manufacturers have to submit the quotation with documentary evidence.
17. PAYMENT: 100% through RTGS within 30 days from the date of receipt and acceptance of items at our site is the normal payment for Indigenous supply. In the case of direct Import, normal terms of payment are by Sight Draft / Wire Transfer after receipt of items. However, other terms of payment like establishment of Letter of Credit may be considered by the Purchaser on such terms and conditions as may be agreed upon.

18. PERFORMANCE BANK GUARANTEE :

The Supplier shall guarantee the successful and satisfactory performance/commissioning of equipment/machinery under the conditions specified in the Purchase Order. As a performance security, the SUPPLIER shall furnish a performance bank guarantee (format enclosed) from Nationalized Bank/Scheduled Bank for an amount equal to the sum of 3% of the order value ensuring the due performance of equipment/machinery in accordance with all the specifications and terms specified in the Purchase Order herein valid for the warranty period. On due performance, the performance bank guarantee shall be automatically cancelled and returned to the Supplier within 30 days after expiry of the Warranty period. The performance bank guarantee shall have claim period of six months.

19. SECURITY DEPOSIT : Security Deposit @ 3% of order value shall be submitted in the form of DD/FDR duly endorsed in favour of Accounts Officer, IPRC or by way of Bank Guarantee (in the prescribed format) within 20 days after receipt of order and valid up to the successful execution of the order.

20. The goods or material offered should be strictly as per our specifications. Change(s) in specifications, if any, should be clearly indicated by the supplier in his quotation. The supplier should also indicate make/type No. of the materials or equipment offered. Vague terms such as Best Indian, Best Indigenous and Imported make should not be used.

21. The offer should be valid for a minimum period of 120 days from the date of opening of the bids (Technical bid in case of 2-part tender).

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

23. Wherever the tenderer is asked to submit sample for evaluation of tenders, the same shall be submitted along with your quote.

C. Bid Templates

C.1 Technical Bid - Supply of Liquid Methane road tankers

1. Cryogenic Tanker : Design, Detail engineering, instrumentation , fabrication, testing and mounting on suitable semi trailer and delivery of super insulated road tanker for liquid methane application as per the specifications and QAP attached

2. Cryogenic Tanker : Third party inspection charges

3. Cryogenic Tanker : Spares for trouble free operation for a period of two years

4. Cryogenic Tanker: Transportation charges

Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Liquid Expulsion flow rate from tanker during usage.	5 kg/s of LCH4	Yes / No / Explain		
2	Expected service life	20 years	Yes / No / Explain		
3	Type of thermal insulation	Super insulation [Double-walled construction with vacuum and multi-layer super insulation in the annular jacket]	Yes / No / Explain		
4	Vacuum pressure in the jacket (at atmospheric temperature)	1×10^{-3} mbar	Yes / No / Explain		
5	Expected periodicity of re-evacuation	Once in 5 years (to be confirmed during Detail Engineering Review)	Yes / No / Explain		

6	Design code Note: Cold stretched/ pressure strengthened material should not be used.	Inner vessel: Section VIII, Division 1 of Boiler & Pressure Vessel (BPV) code by American Society of Mechanical Engineers (ASME). Outer vessel: CGA 341:2007 (or) EN 13458-2: 2002.	Yes / No / Explain		
7	Wind speed	Wind load shall be calculated as per IS 875 (Part 3 – 1987) with basic wind speed of 39 m/s. Probability factor (risk coefficient) K1 of 1.08, Terrain, height & structure size factor K2 for terrain category 1 of specific to width & height of structure and Topography factor K3 of 1.36 shall be considered.	Yes / No / Explain		
8	Acceleration load Note: The design consideration regarding dynamic loads shall account for the horizontal mode transportation of tanker. The speed limit for road transportation on trailer shall be defined.	1.5 g in vertically upward direction 2 g in vertically downward direction 1.5 g in transverse (horizontal) direction 2 g in longitudinal (horizontal) direction	Yes / No / Explain		
9	Allowable internal pressure of outer vessel (not more than the set pressure of outer vessel safety devise)	0.15 MPa (a)	Yes / No / Explain		
10	Allowable external pressure of outer vessel (External overpressure) with full vacuum inside	0.2 MPa (a)	Yes / No / Explain		

11	Safety system to prevent inner vessel from over pressure due to loss of vacuum in jacket and fire engulfed condition:	Bidder shall suitably size the safety relief devices as per code and specify during Detail engineering review. The inner vessel shall be protected against internal over pressure by Safety Relief Valves. Each set comprises a burst disc and safety relief valve. All vents shall be connected and relieved through common vent header.	Yes / No / Explain		
12	MATERIAL OF CONSTRUCTION		-		
13	Inner vessel	ASTM A 240 304L / 316L	Yes / No / Explain		
14	Outer vessel	ASTM A 516 Gr. 70	Yes / No / Explain		
15	Pipes & tubes	ASTM A 312 TP 304L / 316L	Yes / No / Explain		
16	Pipe fittings	ASTM A 403 WP 304L / 316L	Yes / No / Explain		
17	Flanges	ASTM A 182 F 304L / 316L / 321	Yes / No / Explain		
18	Bolts	ASTM A 320 B8	Yes / No / Explain		
19	Nuts	ASTM A 194 8	Yes / No / Explain		
20	Note for material of construction:	Cold stretched/ pressure strengthened material should not be used."	Yes / No / Explain		
21	Configuration details of tanker (a)	The inner vessel of the tanker shall be designed for MAWP and also for vacuum.	Yes / No / Explain		
22	Configuration details of tanker (b)	The inner & outer tank shall be of cylindrical configuration	Yes / No / Explain		

23	Configuration details of tanker (c)	The fill / drain port of the tanker shall be provided with suitable anti-vortex baffles.	Yes / No / Explain		
24	Configuration details of tanker (d)	The pressurization / vent ports of the tanker shall be provided with diffuser.	Yes / No / Explain		
25	Configuration details of tanker (e)	All the nozzles of DN 50 and smaller sizes shall be suitably stiffened with gusset plates.	Yes / No / Explain		
26	Configuration details of tanker (f)	Suitable earthing bosses shall be provided for protection against lightning and static electricity.	Yes / No / Explain		
27	Configuration details of tanker (g)	LCH4 in the tanker will be expelled by pressurizing with self pressurization at ambient temperature. Evaporator coil arrangement is required for self pressurization.	Yes / No / Explain		
28	SPECIFICATION OF CRYOGENIC TANKER		-		
29	SCOPE OF WORK	Design, detail engineering, sourcing of raw materials and bought-out flow components & instruments, fabrication, testing, coordination for inspection (including third party inspection), mounting on suitable semi trailer, temporary registration of trailer, transportation and delivery of super insulated road tanker for Liquid Methane (LCH4) service to IPRC, Mahendragiri.	Yes / No / Explain		
30	Service fluid	Liquid Methane (LCH4)	Yes / No / Explain		
31	Gross (geometrical) volume/ Nominal Water capacity (WC)	≈ 46 Cu.m. (46,000 litres)	Yes / No / Explain		

32	Usable volume (Gross volume – Ullage volume)	41.4 Cu.m.	Yes / No / Explain		
33	Maximum Expected Operating Pressure (MEOP) of Inner Vessel	0.7 MPa (a) max. and at vacuum	Yes / No / Explain		
34	Design pressure of Inner Vessel	0.8 MPa (a)	Yes / No / Explain		
35	Working temperature of inner vessel at design pressure	75 – 350 K	Yes / No / Explain		
36	Working temperature of outer vessel	290 to 350 K	Yes / No / Explain		
37	Permissible evaporation loss rate Note: To be specified by the results of calculations during Detail engineering review and demonstrated during performance test at IPRC	Less than 0.1% per day with 90% filled condition	Yes / No / Explain		
38	Configuration details of tanker (h)	Bottom withdrawal line shall be DN 65 and top fill line size shall be DN 40.	Yes / No / Explain		
39	Configuration details of tanker (i)	The following Manual valves shall be envisaged in the flow diagram / P&I 1.Purge valve 2.Upper filling valve 3. Flow diverter valve 3.Pressurization outlet valve 4. Pressurization inlet valve 5. Lower filling valve 6. Vapour equalisation valve, etc.,	Yes / No / Explain		

40	Configuration details of tanker (j)	Remaining nozzle size shall be provided in the offer with flow diagram / P&I. Flow scheme diagram indicating different nozzles, valves, vents, fluid temperature measurement, level measurement and safety systems to be enclosed with the offer and it will be finalized during Detailed Engineering Review (DER).	Yes / No / Explain		
41	Configuration details of tanker (k)	Thermal fuse arrangement shall be provided in air line for preventing spread of fire from external sources.	Yes / No / Explain		
42	Configuration details of tanker (l)	Electro-pneumatic valves shall be provided in the Filling / withdrawal lines, self pressurization line, Gas / Vapour equalization line and suitable command gas circuit shall be designed.	Yes / No / Explain		
43	Configuration details of tanker (m)	Other valves, piping & Fittings shall be provided as per standard provision for LCH4 transport tankers.	Yes / No / Explain		
44	Safety features to be ensured	Inner vessel with two sets of relief valve and rupture disc as per the design code with a flow diverter valve.	Yes / No / Explain		
45	Safety features to be ensured (a)	Safety disc on the outer vessel.	Yes / No / Explain		
46	Safety features to be ensured (b)	Thermal safety valves to relieve entrapped liquid in blind / blocked segments.	Yes / No / Explain		
47	Safety features to be ensured (c)	Over flow circuit.	Yes / No / Explain		
48	Safety features to be ensured (d)	Road safety relief valve with isolation valve.	Yes / No / Explain		

49	Configuration details of Trailer	The semi-trailer shall be suitably designed to accommodate the LCH4 tanker on it. Details shall be provided in your quotation.	Yes / No / Explain		
50	Configuration details of Trailer (a)	The semi trailer shall have fifth wheel coupling of reputed make to suit with standard prime movers available with IPRC. The requirements for the fifth wheel coupling shall be finalized during DER.	Yes / No / Explain		
51	Configuration details of Trailer (b)	During the operation of tanker the prime mover will be detached by engaging leg support. Accordingly the leg support of the tanker shall be designed considering load and moments.	Yes / No / Explain		
52	Instrumentation	Level gauge for Liquid Methane with isolation and equalizing valves.	Yes / No / Explain		
53	Instrumentation (a)	Two additional ports shall be provided to mount pressure and level transmitter in road tankers. These transmitters are under the scope of IPRC, Mahendragiri	Yes / No / Explain		
54	STATUTORY CLEARANCES	The supplier shall obtain design / fabrication approval from PESO for the LCH4 transportation tanker before commencing fabrication.	Yes / No / Explain		
55	STATUTORY CLEARANCES (a)	Approval from State Transport Authority shall be obtained for semi-trailers.	Yes / No / Explain		
56	STATUTORY CLEARANCES (b)	The supplier shall obtain temporary registration (in the name of Director, IPRC) for the trailer before delivering the tanker at IPRC, Mahendragiri.	Yes / No / Explain		

57	Forming	All the forming works of the tank shall be carried out by suitable forming process. After forming, the parts shall be suitably stress-relieved.	Yes / No / Explain		
58	Welding	The welding on stainless steel parts of the tank shall be carried out by Gas Tungsten Arc Welding (GTAW) with Gaseous Argon of 99.995 % purity as the purge medium. All the welding on carbon steel parts of the outer vessel of the tanks shall be carried out by Shielded Metal Arc Welding (SMAW). Prior to commencement of welding on the tanks, welding procedure qualification and welder's performance qualification tests shall be carried out in accordance with Section IX of ASME BPV code.	Yes / No / Explain		
59	Surface Treatment	The following procedure shall be employed for surface treatment of the tanks.	Yes / No / Explain		
60	Cleaning of stainless steel surfaces	After fabrication, the interior and exterior surfaces of the inner vessel and the interior surfaces of the nozzles, interconnecting pipelines and flow components shall be cleaned, employing the following procedure.	Yes / No / Explain		

61	Mechanical cleaning	All the metallic surfaces with scales and newly welded surfaces shall be cleaned by scrubbing with stainless steel metallic wire brush. The loose scales and particles obtained from mechanical cleaning shall be removed by blowing with dry air, sucking with vacuum cleaner or washing with water.	Yes / No / Explain		
62	Degreasing	The surfaces shall be degreased to Oxygen service standard as per CGA G-4.1 (Compressed Gases Association Inc, USA) or MIL-C-52211 or ASTM G-93 or equivalent.	Yes / No / Explain		
63	Pickling	"In order to remove rusts and scales, the surfaces are pickled with a solution containing Hydrofluoric acid (HF) and Nitric acid (HNO ₃). The composition of pickling solution and duration are to be adjusted after trial test on a sample piece to remove uniformly less than 25 µm thick material. Mostly, the composition is as follows HF : 5 % (by mass) HNO ₃ : 15 to 20 % Water : Remainder This is followed by rinsing with water." "	Yes / No / Explain		

64	Passivation	"In order to form a protective layer, the surfaces are passivated with a solution of the following composition: HNO ₃ : 25 % (by volume) Water : Remainder Duration : 2 h (minimum) This is followed by rinsing with De-Mineralized (DM) water." "	Yes / No / Explain		
65	Drying	The surfaces of the tanker shall be dried by purging with dry Air or Gaseous Nitrogen until the moisture content in the medium is brought down to 20 ppm,v. Before transportation, the inner vessel be kept pressurized at 0.15 MPa(a) with Gaseous Nitrogen.	Yes / No / Explain		
66	Buffing	The exterior surface of inner vessel shall be finished by buffing.	Yes / No / Explain		
67	Cleaning of carbon steel surfaces	The interior and exterior surfaces of the outer vessel shall be sand-blasted and mechanically cleaned.	Yes / No / Explain		
68	Vacuum components	The outer vessel of the tank shall be fitted with a vacuum safety disc, a vacuum pump-out port cum seal-off valve. The vacuum safety disc shall be set to relieve at an internal pressure of 0.13 MPa (a) to 0.15 MPa(a). However, during normal period, the vacuum safety disc shall withstand an external pressure of 0.1 MPa(a) with full vacuum inside. Vacuum measurement instrument shall be provided.	Yes / No / Explain		

69	Material certificates	The material test certificates shall be provided for all the principal and pressure-bearing parts of the tanks (including plates, nozzles, interconnecting pipes, flow components, etc) to ascertain the physical and chemical properties. This shall include chemical composition and impact strength	Yes / No / Explain		
70	Ultrasonic test	All the plates used for the fabrication of inner vessel & outer vessel and the pipes used for the nozzles and interconnection shall be subject to 100% ultrasonic test.	Yes / No / Explain		
71	Radio graphic test	All the (100 % of the) stainless steel butt weld joints on the inner vessel as well the nozzles, interconnecting pipelines, etc. and 10 % of the butt weld joints on the outer vessel shall be subject to radiographic test with X-rays to 2T sensitivity.	Yes / No / Explain		
72	Inner vessel pressure test	The inner vessel shall be pneumatic pressure tested with Gaseous Nitrogen or dry Air. The pneumatic test pressure shall be as per design code. Alternatively, hydraulic pressure test at a pressure as specified by the design code may be conducted. In such case, the water with pH at 6.5 to 7.5 and chloride content < 30 ppm shall be used. After draining water, the vessel shall be dried down to a residual moisture content less than 20 ppm(v).	Yes / No / Explain		

73	Outer vessel pressure test	The outer vessel (in assembled form) shall be pneumatic pressure tested with Gaseous Nitrogen or dry Air. The pneumatic test pressure shall be as per design code.	Yes / No / Explain		
74	Leak test	The leak tightness across the inner vessel as well as the outer vessel shall be tested with Gaseous Helium Mass Spectrometer Leak Detector (MSLD) as per Article 10, Section V of ASME BPV code by hood technique. While leak-testing the inner vessel, the internal volume shall be charged with a mixture of 75 % Gaseous Nitrogen + 25 % Gaseous Helium and the annular volume between the inner vessel and the outer vessel be evacuated and connected to MSLD. While leak-testing the outer vessel, the exterior surface of the outer vessel shall be shrouded by synthetic bag with a mixture of 75 % Gaseous Nitrogen + 25 % Gaseous Helium and the annular volume between the inner vessel and the outer vessel be evacuated and connected to MSLD. The global leakage rate thus measured and extrapolated for 100% Helium shall be finer than 1E-7 Pa.m3/s.	Yes / No / Explain		

75	Vacuum retention test	<p>The annular space between inner and outer vessel (vacuum jacket) to be evacuated & sealed and the vacuum pressure in the jacket (at atmospheric temperature) shall be 1×10^{-3} mbar. Subsequently the vacuum level shall be periodically monitored and recorded for a minimum period of 120 hrs and there should not be deterioration in the vacuum level. The vacuum pressure should stabilize at 1×10^{-3} mbar (at atmospheric temperature). Vacuum measuring instrument shall be supplied along with the tanker. Model number of the vacuum measuring instrument should be mentioned in your quotation along with pamphlet.</p>	Yes / No / Explain		
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76	Performance test	<p>"The performance test with Liquid Nitrogen shall be conducted by supplier at their premises. The tank shall be properly chilled and then filled with Liquid Nitrogen and the evaporation loss rate to be measured using a gas flow meter, pressure & temperature in the vent line. The measured evaporation loss rate with Liquid Nitrogen shall be extrapolated to that with the working fluid (Liquid Methane) by theoretical computation. The evaporation loss rate thus measured and extrapolated to the working fluid (Liquid Methane) shall be less than the value specified. The test procedure shall be finalized during DER. LN2 required at parties works shall be arranged by party. Performance test shall also be conducted at IPRC. LN2 shall be provided at free of cost by IPRC for conducting performance test at IPRC only.</p> <p>a) On the day of performance test the vacuum level in the vacuum jacket shall be measured and recorded before start of chill down.</p> <p>b) After completion of performance test and draining LN2 & warm up, the vacuum level in the jacket shall be measured and ensure that the vacuum level is not deteriorated.</p>	Yes / No / Explain		
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77	The in-process (stage) and pre-delivery inspection of the tanks shall be carried out by one of the following Third Party Inspection (TPI) agencies:	a. Lloyds Register Industrial Services Pvt Ltd (LRIS) b. Det-Norske Veritas (DNV) c. Technischer Uberwachungs Verein (TUV-NORD) d. Technischer Uberwachungs Verein (TUV-SUD) It shall be the responsibility of the Supplier to arrange for and coordinate with the TPI agency.	Yes / No / Explain		
78	Inspection	Review and approval of the design calculations, fabrication drawings and QAP.	Yes / No / Explain		
79	Inspection (a)	Identification of raw materials and review of the material test certificates for compliance with the relevant requirements.	Yes / No / Explain		
80	Inspection (b)	Review of test and calibration certificates for compliance with the specification and visual examination of the bought-out flow components and instruments.	Yes / No / Explain		
81	Inspection (c)	Witnessing and certification of welding procedure qualification and welder's performance qualification tests. If the welders already possess the performance certificate, the TPI agency shall review and authorize the same.	Yes / No / Explain		
82	Inspection (d)	Review of X-ray films of radiographic tests for possible defects in the weld joints.	Yes / No / Explain		
83	Inspection (e)	Witnessing of formed head solution annealing and simulation test coupon results.	Yes / No / Explain		

84	Inspection (f)	Inspection at any stage of fabrication to ensure that the methodology employed for fabrication is in compliance with the requirements of standard codes and practices and the approved documents.	Yes / No / Explain		
85	Inspection (g)	Witnessing of inner vessel final volume measurement test.	Yes / No / Explain		
86	Inspection (h)	Witnessing of pressure test.	Yes / No / Explain		
87	Inspection (i)	Witnessing of leak test.	Yes / No / Explain		
88	Inspection (j)	Review of vacuum retention test.	Yes / No / Explain		
89	Inspection (k)	Witnessing of performance test.	Yes / No / Explain		
90	Inspection (l)	"Issuance of Pre-Delivery Inspection (PDI) certificate and stamping on the tanks. Note: Apart from inspection by the TPI agency, the Purchaser's representative(s) shall also witness any test as may be deemed necessary at their discretion.	Yes / No / Explain		

91	PRE-QUALIFICATION CRITERION	<p>The Bidder's capability shall be evaluated based on the following Pre-Qualification (PQ) criteria. The Bidders shall suitably fill-up the information solicited in "Item specification" and submit as part of the Techno-Commercial Bid (TCB). Those Bidders who comply with the PQ criteria only will be screened-in for opening and evaluation of Price Bid. The information to be submitted in the Techno-commercial bid shall be complete in all respects substantiated by attached documents and there shall not be any further opportunity for the Bidders to submit any information or document unless the Purchaser solicits so at their own discretion. Any lack of information or incomplete/ambiguous information or false information or information non-compliant with the PQ criteria shall be treated as sufficient cause to reject such Bids.</p>	Yes / No / Explain		
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92	PRE-QUALIFICATION CRITERION (a)	The bidder shall be a regular Supplier of vacuum jacketed (VJ) cryogenic road tanker. The bidder should have manufactured & supplied at least 3 VJ cryogenic tankers of at least 10m ³ (10000 liters) volume and 1.0 MPa (10 bar) pressure. during last three years. The claim shall be substantiated by purchase order(s) and inspection release note(s)/ acceptance certificate(s) by third-party inspection agency or client dated between 01/04/2017 and 31/03/2024.	Yes / No / Explain		
93	PRE-QUALIFICATION CRITERION (b)	Financial turn over for the last year shall be at least Rs.81 Lakhs	Yes / No / Explain		
94	PRE-QUALIFICATION CRITERION (c)	Balance sheet with profit or loss statement shall be submitted for the last three years for evaluation	Yes / No / Explain		
95	DOCUMENTATION	The following documents (in English) in 2 hard prints/ copies as well as in electronic/ soft copy shall be furnished at different stages specified thereupon.	Yes / No / Explain		

96	Detail engineering review	<p>Within 2 months from placement/ award of the Purchase order, the Purchaser shall conduct the Detail Engineering Review (DER). The following documents duly reviewed and approved by the TPI agency for compliance with the requirements of the relevant design codes as specified in the Purchase order and statutory regulations, shall be submitted to the Purchaser during the DER. These documents are subject to review by the Purchaser and only upon approval of the same by the Purchaser, the Supplier shall proceed with fabrication. However, the Purchaser's approval shall not absolve the Supplier of their responsibility to comply with the specifications of the Purchase order.</p>	Yes / No / Explain		
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97	Detail engineering review (a)	a. An overall dimensioned General Arrangement (GA) drawing of the tanker, showing the assembled view along with all accessories shall be provided. The details of the interconnecting pipelines and their location with respect to the tanker shall also be shown in the GA drawing. The interface details for both fluid connections and instrument connections, including the relative positioning among the interfaces, their location with respect to the tanker and the end connection/ preparation details for each interface shall also be shown in the GA drawing.	Yes / No / Explain		
98	Detail engineering review (b)	b. The detailed design calculations for the tanker (thermal & structural) and trailer shall be provided.	Yes / No / Explain		
99	Detail engineering review (c)	c. A detailed Quality Assurance Plan (QAP) shall be provided in compliance with IPRC requirements given.	Yes / No / Explain		
100	Detail engineering review (d)	d. A schedule chart detailing the various activities involved in fabrication and the time required for completing the same, so as to comply with the specified overall delivery period, shall be furnished.	Yes / No / Explain		
101	Detail engineering review (e)	e. The make, model number and specifications of the flow components and instruments along with the relevant catalogues shall be provided.	Yes / No / Explain		

102	Detail engineering review (f)	f. Detailed procedure shall be provided for conducting performance test including chilldown procedure and the methodology of computing evaporation loss rate of actual working fluid from the measured evaporation loss rate of LN2.	Yes / No / Explain		
103	Detail engineering review (g)	g. Detailed procedure shall be provided for commissioning at Purchaser's site.	Yes / No / Explain		
104	On completion of DER	The bidder shall obtain PESO approval of drawings / documents within one month from the date of completion of DER.	Yes / No / Explain		
105	On completion of DER(a)	The bidder shall obtain approval from State transport Authority for semi-trailer.	Yes / No / Explain		
106	During the course of fabrication	The details of activities completed by the end of every month shall be sent to the Purchaser. The delay, if any, from the agreed schedule and the reasons, if any, therefore shall be highlighted. The schedule chart shall also be updated in such cases.	Yes / No / Explain		

107	Pre-delivery review	<p>"On completion of fabrication and testing, but prior to delivery of the consignment, the Purchaser shall conduct a pre-delivery review. During the review, the following documents, duly approved by the TPI agency, shall be submitted to the Purchaser. The Purchaser shall review the same to ensure compliance with the specification of the Purchase order. On being satisfied, the Purchaser shall issue a "Purchaser's delivery clearance", only upon receipt of which the Supplier shall proceed with delivery of the consignment.</p> <p>a. The certificates of all tests and calibration (including those for the bought-out flow components and instruments) shall be provided. Each page of the certificates shall be duly counter-signed and stamped by the TPI agency.</p> <p>b. PDI certificate by the TPI agency.</p> <p>c. Warranty certificate.</p> <p>d. Calibration chart for the level gauge with respect to water column, liquid Nitrogen and liquid Methane.</p>	Yes / No / Explain		
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108	Inspection plan for Department	<p>a. Approval of P&I diagram and general arrangement drawing with overall dimension</p> <p>b. Review of test certificates and visual examination of bought out components</p> <p>c. Inspection at critical stages of fabrication as mutually agreed upon to ensure the compliance of fabrication as per QC plan</p> <p>d. Witnessing vacuum stabilization / hold tests, pressure tests (ambient & cold condition), leak tests, moisture content in the inner vessel, evaporate rate measurement test etc.</p>	Yes / No / Explain		
109	Along with supply: The supplier shall send the documents along with supply.	<p>"a. Warranty certificate</p> <p>b. PDI certificate by the TPI agency.</p> <p>C. As-built GA and fabrication drawings – 2 sets</p> <p>d. Design reports / documents mentioned under DER</p> <p>e. Instruction manual for commissioning, operation, trouble-shooting and maintenance.</p> <p>f. Test certificates of tanker.</p> <p>g. Test certificates of flow components used.</p> <p>h. Temporary registration of Trailer.</p> <p>i. PESO approval document.</p> <p>j. State Transport approval document.</p>	Yes / No / Explain		

110	COMMISSIONING	<p>After receipt of the tanker at the Purchaser's site at IPRC, Mahendragiri, the tanker shall be commissioned by the Purchaser based on the documents to be provided by the Supplier for the same. The commissioning shall comprise pressure test up to the MEOP with Liquid nitrogen and functional check of the flow components and instruments. Though commissioning is NOT included under the Supplier's scope of responsibility, in case any discrepancy or ill-performance is observed during commissioning, it shall be the Supplier's responsibility to rectify/replace the defective/ill-performing subsystems or the entire tanker. The Supplier may, at their discretion, depute their representative(s) to witness the commissioning, but at their own expense. In case the defective/ill-performing subsystems or the entire tanker require rectification/ rework to be carried out at the Supplier's works, it shall be Supplier's responsibility to transport the same to the Supplier's works and item back to the Purchaser's site.</p>	Yes / No / Explain		
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111	DELIVERY TERM:	The tanker shall be delivered in total integrated and ready-to-use form on FOR Mahendragiri basis. The supplier shall make their own arrangement to deliver the road tanker at IPRC, Mahendragiri. The supplier shall arrange for temporary registration and transit insurance. The supplier shall furnish the Temporary registration of semi-trailer.	Yes / No / Explain		
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112	DELIVERY PERIOD	<p>a. The delivery period shall not exceed 10 months from the date of Purchase Order. The delivery period of 10 months include the period for DER, obtaining PESO and State Transport Authority approvals and the work shall be deemed to have been executed after the tanker is received at IPRC, Mahendragiri. In case the delivery stretches beyond the stipulated period, the Purchaser shall recover from the Supplier, as Liquidated Damage (LD).</p> <p>b. Wherever Purchaser's approval is required on the documents submitted by the Supplier, the Purchaser will dispatch/ transmit their approval or comments within 10 calendar days from the date of receipt of such documents at the Purchaser's end. Wherever Purchaser's representatives are required (for Detail Engineering Review, Pre-Delivery Inspection, etc.) at the Supplier's premise, the Purchaser will depute their representative within 15 calendar days from the date of readiness of documents for review or hardware for inspection and receipt of intimation from Supplier.</p>	Yes / No / Explain		
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113	Warranty	The tank shall be warranted for satisfactory performance over a period of 24 months from the date of receipt of the tanks at the port of entry in the Purchaser's country in case of import or Mahendragiri in case of indigenous supply. The Supplier shall furnish a Performance Bank Guarantee (PBG) for 10 % of the value of the Purchase Order for the Warranty period.	Yes / No / Explain		
114	DOCUMENTATION ALONG WITH THE QUOTATION	"Along with the quotation, the following documents shall be furnished in English. Any lack of the following details in the quotation will be treated as sufficient cause for rejection of the bidder. 1. A complete technical description of the tanker offered shall be furnished. Technical deviations, if any, from the tender specification shall be explicitly indicated in the quotation. The following details shall be specifically highlighted: a. Overall dimensions (outside diameter & length) of the inner vessel of the tanker. b. Overall dimensions (outside diameter & length) of the outer vessel of the tanker. c. Overall size of the trailer. d. Tentative P&ID	Yes / No / Explain		
115	DOCUMENTATION ALONG WITH THE QUOTATION (a)	A detailed profile of the bidder, in terms of the design and fabrication shall be provided in the quotation.	Yes / No / Explain		

116	DOCUMENTATION ALONG WITH THE QUOTATION (b)	The capability to meet Pre Qualification Criteria shall be substantiated with documentary evidences in the form of Purchase order/ Contract and Inspection/ acceptance certificate by TPI agency or Client.	Yes / No / Explain		
117	DOCUMENTATION ALONG WITH THE QUOTATION (c)	A list of clients (including address, telephone and fax numbers and contact person) to whom tanks of similar specification have been supplied shall be furnished.	Yes / No / Explain		
118	DOCUMENTATION ALONG WITH THE QUOTATION (d)	"Suggested list of vendors for flow components is given below. If the bidder proposes alternate sub vendors other than listed, such details may be submitted in the bid. The decision of the IPRC in regard to acceptance/ rejection of the sub vendor proposed by the bidder shall be the final. "	Yes / No / Explain		
119	DOCUMENTATION ALONG WITH THE QUOTATION (e)	Spare valves, Safety relief valves, rupture discs and pressure regulators and essential spares like seat, disc, nozzle, gaskets, O-rings shall be quoted for hassle free operation of the road tanker for a period of two years.	Yes / No / Explain		
120	Extended stem EP & Manual bellow sealed globe valves :	a. M/s. Herose GmbH, Gurgaonb. b. M/s. Ireland SA, France c. M/s.MIL Controls Ltd, Aluva, Kerala d. M/s. Samson controls Pvt. Ltd, Pune	Yes / No / Explain		

121	Manifold valves, Needle valves & bellow sealed needle valves:	a. M/s. Swagelok b. M/s. Parker c. M/s. Weka AG Switzerland d. M/s. Schneider e. M/s. Hoke	Yes / No / Explain		
122	Safety Relief valves:	a. M/s. LESSER India, Mumbai b. M/s. Herose GmbH, Gurgaon c. M/s. Tyco Sanmor, Chennai	Yes / No / Explain		
123	Burst discs :	a. M/s. BS&B Safety systems (India) Ltd, Chennai b. M/s. FIKE India Ltd, Pune	Yes / No / Explain		
124	Pressure gauges	Make : Samson/Wika/Burton	Yes / No / Explain		
125	Pressure regulators	Make : Cash valve, USA / Swagelok, England/ RHPS, France / Tescom, UK Note : Flow components of make other than specified in the document shall be mentioned in the quotation and approval shall be obtained from Department for usage	Yes / No / Explain		
126	Quality assurance plan	QAP for the road tanker shall be provided along with the quotation. Tentative QAP of the road tanker is enclosed herewith. Kindly go through it and offer your comments. Kindly include	Yes / No / Explain		
127	Additional requirements	1. Cattle arrester 2. Electronic braking system 3. Pneumatic suspension 4. Spare tyre 5. Tool kit in in-build tool box of semi-trailer.	Yes / No / Explain		

128	Terms and conditions	Design, fabrication, testing and supply of horizontal, cylindrical, double walled (Vacuum jacketed) tank with super insulation mounted on suitable semi trailer for Liquid Methane service. The tanker shall be designed for Liquid Methane service.	Yes / No / Explain		
129	Terms and conditions (a)	2. The supplier shall submit the bid in two parts in e-procurement portal one part has technical & commercial bid including technical details, drawings, detailed quality assurance & testing/inspection plan, commercial terms and conditions. The other part is the price bid which contains the cost of road tankers, third party inspection charges, etc. If any price details are revealed in the technical bid, the offer will be summarily rejected	Yes / No / Explain		
130	Terms and conditions (b)	3.The design and fabrication of the tanker must be as per the specified standards. Necessary approvals/certification must be obtained by the party.	Yes / No / Explain		
131	Terms and conditions (c)	4.The design and fabrication shall be approved by the reputed third party inspection agency. The name of the inspection agency is to be given in the offer.	Yes / No / Explain		
132	Terms and conditions (d)	5.The supplier must furnish the compliance statement with respect to the technical specification and terms & conditions indicating clearly deviations if any.	Yes / No / Explain		

133	Terms and conditions (e)	6.The supplier shall make arrangement to transport and deliver the tanker at IPRC, Mahendragiri. Transit insurance shall be taken by the supplier and the cost shall be quoted separately.	Yes / No / Explain		
134	Terms and conditions (f)	7.Tankers will be accepted only after carrying out evaporation loss rate test at IPRC, Mahendragiri.	Yes / No / Explain		

Supporting Documents required from Vendor

1. P&ID of tankers

2. Detailed schedule chart

3. Quality Assurance Plan

4. Catalogues all flow components like valves, pressure gauges, regulators, etc.

5. Document related to LCH4 tankers

6. Price bid (Price Bid Related)

7. Company profile & ISO certification

8. Deviation statement

9. Document related to Pre Qualification Criteria

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	The tankers shall be delivered at IPRC, Mahendragiri	Yes / No / Explain	
2	Fabrication of tankers shall be started after Detailed Engineering Review and PESO approval	Yes / No / Explain	
3	Taxes and other costs, if any: (Specify). IPRC/ISRO is eligible to avail Concessional rate of GST@5% shall be paid extra against Ministry of Finance, Dept. of Revenue Notification No. 1/2017 Integrated Tax (Rate), Schedule-I; Sl. No. 243B dated 28/06/2017 as amended by Notification No. 07/2018 & 25/2018 Integrated Tax (Rate) dated 31.12.2018 and Government of Tamil Nadu, Commercial Taxes & Registration (B1) Department G.O(Ms) No.18 Dtd. 25/01/2018 & Schedule-I; Sl. No. 243 B as per the amendment dated 31.12.2018 (Amendment G.O(Ms)No.170 dated 31/12/2018). Please note and quote accordingly.	Yes / No / Explain	
4	Delivery Period (specify)	Yes / No / Explain	
5	Delivery Terms: Normal delivery terms - FOR Destination (i.e., IPRC, Mahendragiri)	Yes / No / Explain	
6	Payment Terms: 100% within 30 days after receipt and acceptance of items (No advance payment is acceptable). Specify your Payment Terms.	Yes / No / Explain	

7	Security Deposit: The Supplier shall provide Bank Guarantee for an amount equivalent to the 3% (THREE 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	
8	Confirm: Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA	Yes / No / Explain	
9	Liquidated Damages: The delivery period / completion period shall be the essence of the Purchase Order. If the Supplier fails to meet delivery date within the time specified above or any extension thereof, the Department will recover from the Supplier as Liquidated Damages (LD) a sum of 0.5% of the total order value for each calendar week of delay subject to a maximum of 10% of the total order value. Confirm your acceptance.	Yes / No / Explain	
10	Name, Address, Contact No, E-mail Id etc. (specify):	Yes / No / Explain	
11	Currency quoted (specify)	Yes / No / Explain	
12	Warranty / Guarantee Period: (specify)	Yes / No / Explain	
13	Validity of Offer (specify) [Minimum 120 days required]	Yes / No / Explain	

14	Performance Bank Guarantee: Performance Bank Guarantee (PBG) for 3% of the order value shall be submitted along with your Invoice/prior to final payment. It shall be valid till the warranty/ guarantee period and shall have an additional claim period of 60 days.	Yes / No / Explain	
15	Only Class-I and Class-II Local suppliers as per Make in India Policy are eligible to participate in the bid. Percentage of Local Content for the offered item / items shall be specified	Yes / No / Explain	
16	MSME preference is applicable only against the claim of the manufacturer and production of documentary evidence by the manufacturer	Yes / No / Explain	
17	Bank Details (State Bank of India, Mahendragiri, Tirunelveli (Dist) - 627 133) Details of your bank shall be furnished.	Yes / No / Explain	
18	Percentage of Local Content	Yes / No / Explain	
19	Any other terms:	-	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	Cryogenic Tanker : Design, Detail engineering, instrumentation, fabrication, testing and mounting on suitable semi trailer and delivery of super insulated road tanker for liquid methane application as per the specifications and QAP attached	2.00 Nos.		-		

2	Cryogenic Tanker : Third party inspection charges	1.00 Lumsm		-		
3	Cryogenic Tanker : Spares for trouble free operation for a period of two years	1.00 Lumsm		-		
4	Cryogenic Tanker: Transportation charges	2.00 Times		-		