



F.No.PI/NAHEP/CAAST DFSRDA/Quot./155/2020

Date: 15/09/2020

To,

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Dear Sir,

**Subject: RE-INVITATION OF QUOTATION FOR SUPPLY OF REFRIGERATED VAN**

1. You are invited to submit your most competitive quotation for the following Goods: -

Sr. No	Brief Description of the goods	Specifications*	Quantity ** (Unit)	Delivery Period	Place of Delivery	Installation requirement if any
1	<b>Refrigerated Van</b>	Technical Specifications Of Refrigerated Van are listed below:	1	After awarding the contract & the period of validity of quotation	Office of PI, NAHEP, NAHEP-CAAST, VNMKV, Parbhani	Yes, with installation and technical demonstrations.

**Refrigerated Van (Container) Technical Specification Part-I**

<b>Storage Capacity</b>	1. Refrigerated Compartment Capacity:
<b>Applications</b>	2. Preservation of perishable Products/seedlings and transport (Any Product like fruit, vegetable, milk, flower etc.
<b>Temperature recording</b>	1. Temperature between 0 degree to +20 degree Centigrade with full load or no load 2. The temperature gradient should not be more than 2 degree Centigrade across any two points in vaccine compartment. 3. There should be provision to continuously monitor the temperature of the storage compartment. 4. There should be a visual indicator at the dashboard for the driver to observe any temperature variation during the transport / storage of the vaccine load in the vehicle
<b>Structure</b>	1. The outer panels should be of hot rolled sheet & Inner Panels Should be of Stainless Steel. 2. Inner chamber should not be connected with outer enclosure or doors through any thermally conductive material or joints. 3. Internal ceiling-mounted LED lights
<b>Outer panel – roof and side walls</b>	1. HR 1.6 mm Corrugated Panel with 80 mm Thickness.
<b>Inner panel – side wall and ceiling</b>	1. Suitable SS with 0.6 mm sheet & minimum 4 mm marine grade water proof IS 710 Grade ply wood on walls. 2. All joints should be sealed with good quality durable sealants and fastened with SS screws.
<b>Floor</b>	1. Floor is with 12 mm Marine Grade Plywood, Waterproofing to be done on Floor Plywood & then Aluminum T Section to be fixed on Floor. 2. It should rest on reinforcements filled/ covered with PUF, over strong, steel /GRP/ wooden outer base 3. FRP Coating on flooring for leakage proof flooring.

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<b>Door</b>	<ol style="list-style-type: none"> <li>1. Door Hardware in Galvanized Steel/ with door Sealing EPDM 5 Leaf Door Sealers.</li> <li>2. Insulated Body will have double Loft-Insulated Doors fitted with inner &amp; outer seals and heavy door locking mechanisms.</li> </ol>
<b>Door opening</b>	<ol style="list-style-type: none"> <li>1. Opening angle Minimum 270°</li> <li>2. There should be adequate mechanism to block the door in its open position.</li> </ol>
<b>Insulation</b>	<ol style="list-style-type: none"> <li>1. Poly Urethane Foam (PUF) Material</li> <li>2. PUF 40kg /cubic meter, min. 120 mm panel for flooring, min. 100 mm for Side Walls &amp; Roof, Thermal Conductivity: Maximum 0.025w/m<sup>0</sup>K for PUF /0.6 W/m<sup>2</sup>K for cargo chamber at 10°C.</li> </ol>
<b>Refrigeration unit</b>	<ol style="list-style-type: none"> <li>1. The refrigerant must comply with the Montreal Protocol. It must be CFC-free and preferably HCFC-free. It is preferable to use a refrigerant that has low or 0 GWP.</li> <li>2. The refrigeration equipment should be independently diesel powered.</li> <li>3. There should be an automatic start-up and shut- down mechanism through electronic temperature control unit as defined in 17.</li> </ol>
<b>Unit installation</b>	<ol style="list-style-type: none"> <li>1. The refrigeration unit is installed on the body above the drivers' cabin of the vehicle.</li> <li>2. It should have suitable sized compressor, evaporator and control switches along with voltage stabilizer to maintain the temperature as defined in Para 3.0</li> </ol>
<b>Temperature Control</b>	
<b>Additional Accessories</b>	<ol style="list-style-type: none"> <li>1. A suitable size folding ladder should be provided.</li> <li>2. Footsteps and hand grips at the back for climbing in the cargo box should be provided.</li> <li>3. A hook for holding the cable of stand by motor at the inner side of the door should be provided.</li> <li>4. The vehicle, doors of the refrigerated body and all fuel cap should be fitted with security deadlocks</li> </ol>
<b>Feature</b>	<ol style="list-style-type: none"> <li>1. Low Weight, better Insulation, Weather Resistance</li> </ol>

**Base Vehicle Technical specifications Part-II**

<b>Engine</b>	1. m2DiCR 4 cyl 2.5L TB
<b>Capacity</b>	1. 2523 cm <sup>3</sup>
<b>Steering</b>	1. Power Steering
<b>Minimum KW/RPM</b>	1. Minimum 56 KW @ 3200 rpm/min
<b>Max Torque</b>	1. 200 Nm @1400-2200 r/min
<b>Transmission</b>	1. 5 speed, All Synchroneshed 5 Forward, 1 Reverse
<b>Clutch</b>	1. Dry single Plate
<b>Brakes</b>	1. Front: Disc Brakes, Rear: Drum Brakes
<b>Frame Section</b>	1. Rectangular
<b>Cooling</b>	1. Water Cooled
<b>Voltage</b>	1. Suitable : 12 / 24 Volts
<b>Battery</b>	1. Suitable of reputed and easily available brand
<b>Fuel Tank</b>	1. 60 Liters.
<b>Suspension</b>	1. Front: Rigid Leaf Spring Suspension, Rear: Rigid Leaf Spring Suspension





<b>Wheel Base</b>	1. 3264 mm
<b>Overall Length</b>	1. 5215 mm
<b>Overall Width</b>	1. 1700 mm
<b>Overall Height</b>	1. 1865 mm
<b>Load Body-(l*b*h)</b>	1. 2765mm*1700mm*650mm
<b>Weight Carrying capacity</b>	1. 1700 kg or more
<b>Gross Vehicle Weight (GVW)</b>	1. 3490 kg.
<b>Kerb Weight</b>	1. 1790 kg
<b>Seating Capacity</b>	1. D+1
<b>Emission Norms</b>	1. As per prevailing norms of Government of India and CPCB guidelines at the time of supply be BS-6 emissions norms.
<b>Standard Tool Kit</b>	1. Standard tool kit such as lifting jack, Wheel spanner, screw drivers etc. should be provided with each vehicle.
<b>Temperature Mapping</b>	1. Maximum difference between any 2 points of the storage compartment is less or equal to 2 degree Centigrade. 2. The minimum should never be below 0 degree Centigrade, and the maximum should never be above 10 degree Centigrade. When the average is respectively -2 and +8 degree Centigrade.
<b>Heat Leakage Test</b>	1. Once stabilized, temperature should not rise above 10 degree Centigrade in 3hours at 50 deg. Centigrade outside weather
<b>Certificates of Testing</b>	1. All above mentioned test should be conducted through an approved laboratory by the Government of India and the equipment should be supplied along with roadworthiness certificate from ARAI / other NABL bodies. 2. The temperature monitoring device should be supplied with a traceable certificate of calibration which must be renewed annually. 3. The certificate should be valid for the range of temperatures (-2 to +8 Degree Centigrade) that the device normally measures.
<b>Spare Parts</b>	1. A list of in country dealer network should be provided which holds the spare parts for the Vehicle as well as for refrigeration unit. 2. Provide a list of most commonly required spares along with cost.
<b>Workshop and Operating Manuals:</b>	<b>Provide the following manuals in English:</b> 1. User's operation manual for the refrigeration unit 2. Maintenance with trouble shooting manual for refrigeration unit

- The above price is including GST and other terms such as Technical support from purchase of goods from September 2020 up to March 2024.
  - **Place of Delivery:** CENTER OF EXCELLENCE FOR DIGITAL FARMING SOLUTIONS FOR ENHANCING PRODUCTION BY ROBOTS, DRONES and AGVs. Vasantnao Naik Marathwada Krishi Vidyapeeth Parbhani.  
  
\*\* Quantity of work may be varies.  
\* Where ISI certification marked Goods are available in market, procurement should generally be limited to goods with those or equivalent marketing only.
2. Government of India has received a financing from the International Bank for Reconstruction and Development World Bank towards the cost of the National Agricultural Higher Education Project



NAHEP (CAAST- DFRDA, VNMKV, Parbhani) and intends to apply part of the proceeds of this loan to eligible payments under the contract for which this invitation for quotations is issued.

### 3. Bid Price

- a) The contract shall be for the full quantity as described above. Corrections, if any, shall be by made by crossing out, initialing, dating and re writing.
- b) All duties, taxes and other levies payable on the raw materials and components shall be included in the total price.
- c) Sales tax in connection with the sale shall be shown separately.
- d) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- e) The prices shall be quoted in Indian Rupees only.

4. Each bidder shall submit only one quotation.

### 5. Validity of Quotation

Quotation shall remain valid for a period not less than 60 days after deadline date specified for submission.

### 6. Evaluation of Quotations

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

- a) are properly signed; and
- b) conform to the terms and conditions, and specifications.

The quotations would be evaluated for all the item together/ would be evaluated separately for each item. [*Select one of the options.*]

Sales tax in connection with sale of goods shall not be taken into account in evaluation.

### 7. Award of contract

The purchaser will award the contract to be bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation prices.

7.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process the reject all quotations at any time prior to the award of contract.

7.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the supply/ Purchase order.

8. Part payment or part supply orders will not be accepted. The payment will be made immediately after delivery of Goods/Setup/installation/Training/Assignment as per signed up/award of contract.

9. The necessary catalogue, leaf lets, operational manual or any other printed material related to goods/material should be provided during completion of contract.

10. Normal commercial warranty/ guarantee shall be applicable to the supplied goods.

11. The rates/prices should be FOR, VNMKV, Parbhani (MS) India. All leakages-breakage and losses in transit including shortages, if any will be borne by the firm/supplier. Offer should clearly mention the locations for which rates are quoted.

12. The firm should provide proof of GST registration no. / Tin no. / PAN no. and all legislative documents required as per world bank/ICAR New Delhi procedure.





13. **Onsite installation with technical demonstration and training** to core team member and technical staff should be provided by the supplier in consultation with expert team member of NAHEP-CAAST DFSRDA, VNMKV, Parbhani office.
14. In case, any holiday is declared by the Government on the day of opening, the bids will be opened on the next working day at the same time. The Principal Investigator, NAHEP - CAAST DFSRDA VNMKV Parbhani, reserves the right to accept or reject any or all the bids.
15. The bids of firm (s) which have either been black-listed by VNMKV, Parbhani or any other Govt. organization will not be accepted. In this regards, the firm has to give an undertaking on the enclosed format.
16. You are requested to provide your offer latest by **05.00 PM on or before 06/10/2020 in the name of Principal Investigator, NAHEP-CAAST-DFSRDA, VNMKV, Parbhani – 431 402**. The bids will be opened on the last day of submission at the same time.
17. All suppliers/firms are requested to be present in the chamber of undersigned. Write the title “Quotation for supply of **“Refrigerated Van”** on top line of envelopment.
18. We look forward to receiving your quotations and thank you for your interest in this project.

**Principal Investigator**  
**National Agricultural Higher Education Project**  
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FORMAT OF QUOTATION FOR SUPPLIER

Sl. No.	Description Goods	Specifications	Qty.	Unit	Quoted Unit Rate in Rs.	Total Amount	
						Rupees	
<b>TOTAL</b>	<b>In Figures</b>						
	<b>In Words</b>						
<b>GST</b>							

**Gross Total Cost: Rs. ....**

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. .... (Amount in figure) Rs. .... (Amount in words) within the period specified in the Invitation for Quotation.

We also confirm that the normal commercial warrantee/ guarantee of ..... Months shall apply to the offered goods.

We hereby certify that we have neither black-listed by VNMKV, Parbhani nor any other Govt. organization. We hereby certify that we have no "Conflict of Interest" with NAHEP-CAAST, DFSRDA VNMKV, Parbhani office or staff.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in corrupt, fraudulent, collusive, or obstructive practices (as defined in the prevailing World Bank's sanction procedures) in competing for or in performing the Contract.

**Signature of Supplier**

**\* Supplier should also mention the discount offered.**