



The Bhagirathi Co-op. Milk Producers' Union Ltd.
Feeder Dairy: P.O-Baharampur: PIN -742101: Dist.-Murshidabad
e-mail: bhagirathi6@rediffmail.com; Website: www.bhagirathimilk.com

NOTICE INVITING TENDER

BU/E&T/M.VEHICLE/0967

Dated: 23. 07. 2020

The Bhagirathi Cooperative Milk Producers Union Limited (BCMPUL) invites **Tender** in Two bid systems for entering into rate contract for hiring Refrigerated /Insulated Covered Vehicles of various capacities along with driver and helper for transportation of Milk and Milk Products for a period of 3 three years for all routes (except Siliguri Route) w.e.f. 1st Oct' 2020- 30th ' 2023 or from the date as mentioned in the engagement letter. For **Siliguri** route contract period will be for **1** one year with effect from the date as mentioned in the respective engagement letters.

IMPORTANT DATE AND TIME SCHEDULE

Sl. No.	Particulars	Date and Time
1	Tender Publication Date	23.07.2020
2	Tender Submission Start Date	24.07.2020
3	Tender Submission End Date & Time	14.08.2020 till 05:00pm
4	Bid Opening Date (to be opened in presence of willing bidders)	17.08.2020 at 02:00pm

The details of work are given below:

Nature of Work	Service
Important Instructions for submission of bid	Technical bid shall be submitted in a separate sealed cover. Similarly, financial bid also will be submitted in a separate sealed cover. Both the cover of the of financial & technical bid shall be kept in a large sealed cover written on top of it's as " Bid for Refrigerated or Insulated (which is applicable) vehicle of Route- ". Address to :- The Managing Director of The Bhagirathi Cooperative Milk Producers' Union Limited, Feeder Dairy, Panchanantala, Berhampore, Murshidabad, West Bengal, 742101. Sealed cover to will be dropped in a drop box kept at the head office of The Managing Director of The Bhagirathi Cooperative Milk Producers' Union Limited at Berhampore within stipulated date and time on working day. Note:- Separate bid will have to submitted for the separate route.
Scope of Work	Rate contract for Hiring Refrigerated / Insulated Container / Covered Vehicle for different route, of various capacities (describe below / enclosed) for transportation of Milk and Milk Products.
Load Capacity per Crate	One Crate Milk =10 kg. Only Crate without Milk=1.2 to 1.3 kg (approx)
Estimated Cost of Work	<ol style="list-style-type: none">1. Rate to be offered by the bidder (Except Vehicles for Berhampore City Supply Route) per Km basis inclusive of all expenses i.e. Driver, Helper, Fuel, Mobil, Lubricant, Repairing & Maintenance cost etc. (directly & indirectly), except toll tax.2. Rate to be offered by the bidder for the Vehicles of Berhampore City Supply Route at fixed rate per day for both shift (morning & evening) basis inclusive of all expenses i.e. Driver, Helper, Fuel, Mobil, Lubricant, Repairing & Maintenance cost etc. (directly & indirectly), except toll tax, for supply of our products in both shift (Morning & Evening),

Area of operation	Within India. The Transporter should have National permit.
Contract Period	3 years
Bid Inviting Authority	The Managing Director of The Bhagirathi Cooperative Milk Producers' Union Limited
Estimated Cost of Work	Nil. Bidder should quote the rate depending upon prevailing market rate.
Security Deposit	<ul style="list-style-type: none"> • Rs.30, 000/- (Interest free). • Additional security deposit of Rs.5000/- or actual purchase price of GPS (interest free) will have to be deposited against supply and installation of GPS Tracker by the Bhagirathi Milk Union. The amount will be refunded once the contract is successfully executed subject to return of GPS Tracker in good working condition.
Eligibility Criteria	<p>Credentials:</p> <ol style="list-style-type: none"> 1. Experience: Preference will be given to bidders having experience in transporting milk or milk products for any reputed organization for a minimum period of 1 year. 2. Vehicle Number: Rate should be quoted for Commercial Vehicles only.
Statutory & Non Statutory Documents	<ol style="list-style-type: none"> 1. Company / Trade details, PAN Card & Bank Account, GST (if available). 2. RC Book / Authorized documents along with R.C, in case of hired vehicles. 3. Fitness Certificate, if applicable 4. Insurance Certificate 5. Permit for Transportation, if applicable. 6. Road Tax Certificate 7. Documents supporting to Identity and Address. 8. Experience Certificate of Milk Transportation. (Work Order/Certificate) 9. Separate bid against each and individual route with route name & Identification mark () enclosing the technical bid envelop and financial bid envelop is required to be submits.
Technical Bid Evaluation	The Technical Bid will be evaluated by the Tender Committee. Bidders shall submit all the necessary documents in the Technical Folder which will be verified and evaluated by the Tender Committee.
Financial Bid	The financial bid documents of the technically qualified bidders will only be opened. Rate shall be quoted in the Financial bid. Rate to be offered by the bidder per Km basis inclusive of all expenses (directly& indirectly), except toll tax.
Validity of Bid	1095 days
Award of Contract	The bidder selected after evaluation of financial bid by the tender committee will be given Award of Contract, subject to fulfillment of Terms and Conditions provided in the tender.
Publication of Tender	<ol style="list-style-type: none"> 1. Website of the Milk Union (www.bhagirathimilk.com) 2. Office Notice Board

GENERAL TERMS AND CONDITIONS

1. Toll tax and levies (except over loading charges) shall be reimbursed by the Milk Union on actual basis subject to submission of bill. In case, Milk union provides extra load (more than scheduled crates) then the over loading charges / penalty (if any) will be paid by the milk Union subject to submission of original fine receipt with the monthly bill.

2. The Bhagirathi Co-operative Milk Producers' Union Ltd. will not accept any variation in conditions stipulated in the tender. Any suggestion in the tender, for any modification of the tender conditions will not be entertained and the conditional offer will render the tender invalid.
3. The proposed vehicle which will be provided for transportation of milk and milk products should be in good condition. Preference will be given to new vehicles not more than 3 years old. Rate quoted for vehicles more than 3 to 7 years old shall only be accepted after proper inspection.
4. The transport vehicle staff shall also be responsible for collecting cheques/drafts/letters/Crates, Boxes and other related materials from distributors and submitting it to the official of the concerned Department.
5. Refrigerated vehicles should be insulated to maintain a continual temperature of 2⁰C to 4⁰C. The vehicle must strictly comply insulation and refrigeration norms. For any kind of damages to the vehicle or all kind of repairing charges are to be borne by the transporter. In case of breakdown of schedule vehicles, transporters are bound to arrange alternative vehicles of same capacity and same categories, for uninterrupted supply of milk & milk products. In default transporters are liable to compensate to milk union an amount not less than extra expenditure/ loss incurred/ suffer by the Milk Union in arranging alternative vehicles/ reprocessing of milk.
6. If the tenderer has already been blacklisted by any Government/ Government Undertakings/ Co-operative societies, his tender will be rejected. In case information about such black listing comes to the knowledge of the Union after awarding of the tender, the contract will be terminated, liquidated damages levied, apart from taking penal action.
7. BCMPUL reserves the right to accept or reject any or all tender wholly / partly without assigning any reason thereof at any time.
8. Successful bidder has to provide vehicle within one month or within admissible time as decided / mentioned by the milk union.
9. On selection, the contractor has to execute an agreement on Non-Judicial Stamp paper of Rs.100/- as per terms and conditions enclosed.
10. Vehicles will be run as per scheduled timetable of the Milk Union. The Managing Director of the Union reserves the right to add, subtract and modify any terms and conditions of the agreement with the consent of the Contractor during the contract period.

Precautions:

1. The tenderer must satisfy himself thoroughly about the geographical area to be covered, nature of work, route conditions /local conditions and the requirement of the Milk Union before submitting his tender.
2. The person signing the tender should be the Proprietor / Partner / Managing Director or any other person duly authorized to sign the tender document. In the latter case, authorization letter should be attached.
3. The tenderer should read every page and understand the implications fully and offer the tender only if he could discharge the obligations set out in the tender documents.
4. Required specification for refrigerated / insulated cover vehicles is attached along-with.
5. Successful bidder has to engage the vehicle within date as mentioned in engagement letter.
6. The tenderer can visit our office where the clarifications sought for by the tenderer will be given.

Other terms & Conditions

1. The Transporter (transporter for the mentioned route) will be liable to carry out and hand over the milk and milk products to the said distributor/retailer (according to challan). The contract will be valid for 3 years from the date of acceptance of the Work Order / placement of vehicles and the Transporter will be liable for providing the service for the stipulated time period.
2. If the service of the transporter is not found satisfactory or it is adverse to the interest of the Milk Union then the Milk Union may terminate the contract at any point of time, without assigning any reason. On termination of the contract the Security Deposit shall be forfeited and the transporter shall be blacklisted for 3 years and no claim in this regard shall be entertained.
3. The Transporter will be liable to receive the milk and milk products from Feeder Dairy according to the challan and time table, provided by the Marketing Section and transport them through insulated / refrigerated cover / container vehicles to the distributor/retailer lying in the concerned route. Accordingly the transporter is bound to return the empty crates, boxes, drafts, received copy of challan and other documents to the Milk Union as soon as the vehicle returns to dairy. If the transporter fails to fulfill the aforesaid responsibilities due to any reasons, which causes any economic loss or detrimental to the reputation of Milk Union then the transporter will be compelled to compensate the penalty amount imposed by the Milk Union which will be deducted from the monthly bill of the transporter.
4. As per the instruction of the Milk Union, the transporter has to maintain a proper record regarding the list of items returned by the distributors/retailers. The transporter will be responsible for any damage of consignment or return due to late arrival etc. which is caused by him/her to the distributors/retailers due any sort of mistakes/negligence .In such situation, the Milk Union will have the power to compensate the loss by deducting suitable amount from the bills of the transporter due to the negligence. The decision of the Milk Union will be final and binding on the transporter.
5. If the Bhagirathi Milk Union has to stop the supply of the milk and milk products of any distributor/retailer of the said route due to any reasons, the Bhagirathi Milk Union will not be bound to pay any compensation to the transporter. The transporter is bound to follow the instruction of the Union on this note. Bhagirathi Milk Union will inform the decision to the transporter well in advance.
6. If the engaged vehicle of the transporter is unable to supply milk and milk products due to any reason whatsoever then the transporter has to arrange an alternative vehicle to continue the transport service. If he fails to do so, he will be liable to pay the amount of extra expenditure incurred by the Milk Union in arranging such alternate vehicle along with penalty as fixed by the milk union and engagement letter / contract may be cancelled / terminated without assigning any reason. The corresponding amount along with penalty, if any, will be deducted from the bill of the transporter.
7. As transportation of milk and milk products belong to emergency service, the transporter will have to affix a board written “ON EMERGENCY MILK DUTY BHAGIRATHI MILK UNION” on the vehicle, such that it draws the attention of everyone and the transport service does not get interrupted.
8. The transporter shall have to maintain one reserved space in the transporting vehicle for one of the official of the Milk Union and in case of any accident, the rules of Motor Vehicles (MV) act will be followed.
9. During the transit the transporter shall not carry any passenger or any other materials without permission of Milk Union. If the transporter or his/her staff is associated with any illegal activities or any accidents took placed, Milk Union will not be responsible morally/legally regarding the aforesaid matters.

10. That the transporter shall have to deposit a refundable interest free **security Deposit of Rs. 30,000/-** in favour of The Bhagirathi Cooperative Milk Producers' Union Ltd.in Demand Draft in any Nationalized Bank payable at Berhampore at the time of issuance of work order in default said amount will be deducted from the transport bill in three installments.
11. **Additional security deposit of Rs.5000/-** or actual price of GPS (interest free) will have to be deposited against supply and installation of GPS Tracker by the Bhagirathi Milk Union. The said amount will be refunded once the contract is successfully executed, subject to return of GPS Tracker in working condition. G.P.S tracker installed by the Milk Union must be active during the trip.
12. The Milk Union may increase/decrease the number of distributors/retailers in the said route and the transporter will be bound supply the goods to the newly appointed distributors/retailers as per instruction of the Milk Union.
13. In case of increase in/decrease in the number of distributor/retailer, for which the total traversal increases/decreases, rate escalation/de-escalation shall be given by the Milk Union to the transporter as per prevailing market rate. Rate escalation on any other account shall not be entertained till the execution of the contract.
14. The transporter has to submit the transport bill (triplicate) within 7th day of next month. On this basis the bill amount will be paid within 21-30 days of the next month. In case of failure to submit the bill within 7th day of succeeding month, the Union will not be responsible for any delay in paying monthly bill. Income tax rules will be imposed accordingly.
15. The transporter will be fully responsible for any demurrage of milk and milk products for negligence to arrange the alternative vehicle or any other negligence from the end of the transporter or his/her staff. The demurrage and penalty amount will be decided by the Bhagirathi Milk Union and it will be deducted from the monthly bill of the transporter.
16. If required, the transporter will be liable to transport milk and milk products of other routes according to the challan and stipulated timetable provided by Marketing Section and at the time of carrying milk and milk products if any damage occurs, the transporter will be liable. In this case the approved rate of that route / type of vehicle will be considered.
17. The time table, for placing the vehicle to dock area for receiving the milk and milk products and for dispatching to the said route, shall be finally decided by Marketing Section and the transporter is bound to follow the instruction / time table.
18. No appeal for enhancement of rate will be entertained during the contract period. Due to any reason if the transport service is stopped or paused, the transporter has to pay the total transportation cost for any alternative arrangement made by the Milk Union and the security amount will be forfeited and suitable compensation will be imposed.
19. The transporter will be liable to submit time to time all the necessary valid documents related to the vehicle such as legal permit, token, vehicle insurance, fitness certificate etc of the vehicle before engaging the vehicle.
20. After accepting the contract, if the transporter fails to engage the vehicle according to the work order, his/her security deposit will be forfeited and he/she will not be able to participate in any kind of tender for three years.

21. If the transporter quits the job during the contract period, the demurrage cost due to this, will be collected from the transporter and the security money will be forfeited and a suitable penalty will be imposed.
22. If any kind of doubt arises regarding the contract or its briefing, both parties can appeal to the arbitrator. In this case the arbitrator will be Chairman / Special Officer of the Milk Union or any representative nominated by them.
23. If it is found that transporter /any staff of the transporter is involved /engaged in any kind of illegal activities then legal action will be taken accordingly and if any transporter /staff of the transporter misbehaves with any officials of the union, then the particular staff will have to be dismissed immediately.
24. The transporter will not carry any other items/goods than the materials provided by the Milk Union. If so, a suitable fine will be imposed to the transporter without assigning any reason, for each time or vehicle engagement letter may be canceled / terminated without assigning any reason.
25. If the dairy plant is required to be closed under any circumstances like shortage of power, strike, lock-out or any natural calamity and if the transportation service gets interrupted, the Union will not be liable to compensate any demurrage to the transporter.
26. This is completely a commercial contract, not for recruitment. No employee-employer relationship will be maintained between the transporter and the union. In addition to this the transporter has to follow the terms and conditions of the contract apart from this any instruction issued by the Milk Union will be followed by the Transporter.
27. If the service of the transporter is found not satisfactory and violating any of the terms and conditions of the contract, the Milk Union reserves the right to terminate / cancel his/her contract/engagement letter without any notice. Due to any reason if the service of the transporter is no more required then Milk Union will not be liable to pay any kind of demurrage to the Transporter for the respective day or for the stipulated time period.
28. The vehicle used by the transporter to transport milk and milk products should comply with the MV Act. In case of any kind of fine / penalty imposed, the amount shall be borne by the transporter.
29. No loading or unloading charges will be paid to the transporter. In addition to this, in case of sale enhancement of milk and milk product, the transporter will have bound to engage an extra vehicle at the same rate or at the rate as decided by the Union.
30. The transporter has to carry advertisement of Bhagirathi milk and milk products around the transporting vehicle provided by Milk Union.
31. The transporters of refrigerated vehicles have to maintain within 2-4 degree temperature and for the transporters of the insulated vehicles have to maintain within + 5 degree temperature during the transit / delivery period of milk and milk products to the distributors in default penalty will imposed as decided by the Milk union. Transit Insurance cost shall be borne by the transporter.
32. Transporter must have to engage 1 helper along with driver for the engaged vehicle. Bhagirathi Milk Union will not be responsible for compliance of any kind of legal, statutory obligations for the staffs engaged by the transporter.
33. Door of the engaged vehicles will remain locked with seal mentioning number during transit. If any damage / tampering/ variation are found upon enlisted seal without valid reason, suitable penalty will be imposed and deducted from transport bill.

34. One selection, the contractor has to execute an agreement on Non-Judicial Stamp paper of Rs.100/-.
35. The transporter has to notify the Milk Union before 3 months if he/she wants to withdraw the service. Failure to do so shall invite penalty as decided by the milk union along with forfeiture of Security Deposit. But, Bhagirathi Milk Union may terminate / cancel the contract / engagement letter by giving one (1) one month prior notice to the transporter.
36. Considering the urgency, refrigerated vehicles may be used in insulated condition @ decreased rate of Rs.3/- per Km from the existing rate of the individual vehicle proportionately. Any kinds of objection in this regard from the transporters are not accepted.
37. If, the transporter is unable to provide the scheduled refrigerated vehicles on or for any day / days for milk consignment due to any reason, then minimum guaranteed km will be reduced for that day / days in that month, proportionately.
38. If, required tenure may be extended further, subject to the satisfactory performance, depending upon mutual consent.
39. The transporter shall responsible to collect and return the challan (duly filled and signed by the distributor or his representative) as a token of acceptance of the milk & milk products along with all returnable containers (like Crates, Box etc.) in good condition to the designated official of the Dairy. Any shortage, pilferage, theft, loose or damaged caused to/of the containers / crates / products during the process of transportation then loss amount shall be recovered from the Transporter. The amount of recovery will be:-
 - A) Consumer price in case of milk and milk products.
 - B) Cost price of Milk Crates and Insulated boxes.
 - C) Cost price of packing materials along with fine as decided by the Milk Union.

We look forward to receiving your bids and thank you for your interest in this project.

Managing Director
The Bhagirathi Co-operative Milk
Producers' Union Limited

Copy forwarded to:

1. I/C- Marketing
2. MIS Officer, for publication in our Official Website (www.bhagirathimilk.com)
3. Office Copy

Encl.

- a. Technical Specification of Refrigerated / Insulated Vehicles.
- b. Financial Bid Format

FINANCIAL BID

I,.....S/o-.....,Vill/Word/Road-
 P.S-....., Dist-....., State-
Pin-....., Mobile No....., e-mail id-

Company /Trade Name:-

Director/Proprietor/ Partner:-

Relationship with Trade:-

Registered Address:-

E-mail id:-

Mobile No.

I am the bidder accept / abide by all the terms and conditions of this NIT and submit financial offer below:

<i>SL No.</i>	<i>Item Description (Route Description) &</i>	<i>Refrigerated / Insulated</i>	<i>Approx Km per day / Actual Km (To & Fro) or Minimum Guaranteed Km per Month</i>	<i>Required Vehicle Carrying Capacity Minimum</i>	<i>Quantity of Vehicle Required No(s)</i>	<i>Rate of vehicle per km basis inclusive of all expenses / Fixed rate per day only for Berhampore City Supply Route (Rs.). To be quoted by the bidder</i>
1	<i>F.D to Maldah /any other route as per requirement</i>	Insulated Cover Vehicle temperature + 5°C	<i>273 km per day / Km on actual basis</i>	<i>600+10% crates minimum</i>	1	Rs. /- Per km
3	<i>F.D to Raijanj via maldah or any other route as per requirement</i>	Insulated Cover Vehicle temperature + 5°C	<i>428 km per day / Km on actual basis</i>	<i>500+10% crates minimum</i>	1	Rs. /- Per km
4	<i>F.D to Gangarampur via Farakka, maldah or any other route as per requirement</i>	Insulated Cover Vehicle temperature + 5°C	<i>405 km per day / Km on actual basis</i>	<i>350+10% crates minimum</i>	1	Rs. /- Per km
5	<i>F.D to Lalgola via-Lalbagh or any other route as per requirement</i>	Insulated Cover Vehicle temperature + 5°C	<i>90 km per day / Km on actual basis</i>	<i>350+10% crates minimum</i>	1	Rs. /- Per km
6	<i>F.D to Arangabad, Murarai or any other route as per requirement</i>	Insulated Cover Vehicle temperature + 5°C	<i>220 km per day / Km on actual basis</i>	<i>350+10% crates minimum</i>	1	Rs. /- Per km

7	<i>F.D to Pakur or any other route as per requirement</i>	Insulated Cover Vehicle temperature + 5°C	<i>220 km per day / Km on actual basis</i>	<i>500+10% crates minimum</i>	1	Rs. /- Per km
8	<i>F.D to Salar + Dhubulia (Nadia) or any other route as per requirement</i>	Insulated Cover Vehicle temperature + 5°C	<i>320 km per day / Km on actual basis</i>	<i>230+10% crates minimum</i>	1	Rs. /- Per km
9	<i>F.D to Farraka, Dhuliyar or any other route as per requirement</i>	Insulated Cover Vehicle temperature + 5°C	<i>205 km per day / Km on actual basis</i>	<i>350+10% Crates minimum</i>	1	Rs. /- Per km
10	<i>F.D to Raghunathganj, Sanmotinagar or any other route as per requirement</i>	Insulated Cover Vehicle temperature + 5°C	<i>116 km per day / Km on actual basis</i>	<i>350+10% Crates minimum</i>	1	Rs. /- Per km
11	<i>F.D to Kolkata- (1) or any other route as per requirement</i>	Refrigerated Container Vehicle (Maintaining temperature within 2 °C-4°C)	<i>Minimum Guarantee under refrigerated condition is 7500 km per month</i>	<i>440 Crates minimum</i>	1	Rs. /- Per km
12	<i>F.D to Kolkata- (2) or any other route as per requirement</i>	Refrigerated Container Vehicle (Maintaining temperature within 2 °C-4°C)	<i>Minimum Guarantee under refrigerated condition is 7500 km per month</i>	<i>440 Crates minimum</i>	1	Rs. /- Per km
13	<i>F.D to Kolkata- (3) or any other route as per requirement</i>	Refrigerated Container Vehicle (Maintaining temperature within 2 °C-4°C)	<i>Minimum Guarantee under refrigerated condition is 7500 km per month</i>	<i>440 Crates minimum</i>	1	Rs. /- Per km
14	<i>F.D to Siliguri- (1) or any other route as per requirement</i>	Refrigerated Container Vehicle (Maintaining temperature within 2 °C-4°C)	<i>Minimum Guarantee under refrigerated condition is 7000 km per month</i>	<i>700 Crates minimum</i>	1	Rs. /- Per km
15	<i>F.D to Siliguri- (2) or any other route as per requirement</i>	Refrigerated Container Vehicle (Maintaining temperature within 2 °C-4°C)	<i>Minimum Guarantee under refrigerated condition is 7000 km per month</i>	<i>700 Crates minimum</i>	1	Rs. /- Per km
15	<i>F.D to Siliguri- (3) or any other route as per requirement</i>	Refrigerated Container Vehicle (Maintaining temperature	<i>Minimum Guarantee under refrigerated condition is 7000 km per month</i>	<i>600 Crates minimum</i>	1	Rs. /- Per km

		within 2 °C-4°C)				
16	<i>F.D to Siliguri- (4) or any other route as per requirement</i>	Refrigerated Container Vehicle (Maintaining temperature within 2 °C-4°C)	<i>Minimum Guarantee under refrigerated condition is 7000 km per month</i>	<i>600 Crates minimum</i>	1	Rs. /- Per km
17	<i>F.D to Siliguri- (5) or any other route as per requirement</i>	Refrigerated Container Vehicle (Maintaining temperature within 2 °C-4°C)	<i>Minimum Guarantee under refrigerated condition is 7000 km per month</i>	<i>600 Crates minimum</i>	1	Rs. /- Per km
18	<i>F.D to Siliguri- (6) or any other route as per requirement</i>	Refrigerated Container Vehicle (Maintaining temperature within 2 °C-4°C)	<i>Minimum Guarantee under refrigerated condition is 7000 km per month</i>	<i>600 Crates minimum</i>	1	Rs. /- Per km
19	<i>F.D to Siliguri- (7) or any other route as per requirement</i>	Refrigerated Container Vehicle (Maintaining temperature within 2 °C-4°C)	<i>Minimum Guarantee under refrigerated condition is 7000 km per month</i>	<i>600 Crates minimum</i>	1	Rs. /- Per km
20	<i>Berhampore City Supply (Morning & Evening) both shift in a day</i>	Insulated Cover Vehicle temperature + 5°C	<i>All distributors' point cover</i>	<i>350+10% Crates minimum</i>	1	Rs. /- Per day (Fixed)

Note:-

1. Considering the urgency/ requirement of the milk union, refrigerated vehicles may be used in insulated condition @ decreased rate of Rs.3/- per km from the existing rate of the individual vehicle proportionately. Any kinds of objection in this regard from the transporters are not accepted.

Thanking you,

Signature with seal of the bidder

[Name in Capital Letter]

Specification of Refrigerated / Insulated Vehicles

Description	Technical Particulars
Applications	A refrigerated vehicle comprises of an insulated container body and a refrigeration unit to give the required temperature inside for the Milk product transportation.
Temperature range	(+) 2°C to 4°C
Body Parameters	
Structure	The Body comprises of outer and inner panels and an insulating material, the outer and inner panels should be of CR sheet/stainless steel. The insulated material should be Poly Urethane Foam (PUF) having minimum density of 30 Kg/cub. Meter and minimum 100 mm thick. Load bearing column should be of HR steel as per IS 1079 having pressed formed sections. Proper lightening should be provided inside the cabin and thermal insulated container. No fluorescent tube should used for lightening purpose.
Outer panel – roof and side walls	Minimum 1 mm CR sheet bonded with insulation
Inner panel – side wall and ceiling	Minimum 0.3 mm stainless steel bonded with minimum 6mm marine grade ply wood. All joints should be sealed with good quality sealants and fastened with SS screws.
Floor	Bottom most sheet should be minimum 0.6 mm GP sheet bonded with insulation. Upper layer should be of 12 mm (minimum) ply wood and top most layer of minimum 2 mm aluminum checkered plate.
Door	Two leaves with outer and inner panels and insulation matching with box. It should be completely air sealed with FRP section and suitable EPDM rubber profile.
Door opening angle	Minimum 270°
Foam density	Minimum PUF 30 Kg/m ³
Thickness of insulation	Minimum 100 mm for side walls and 120 mm for roof and floor
Insulation thermal conductivity	Maximum 0.02 5w/m ² K
Hold Over Time	The container should hold the inside temperature at least for eight hrs at the ambient temperature of 45°C when it is not opened.
Refrigeration unit	
Unit installation	The refrigeration unit is installed on the body above the cabin of the vehicle and gives a range of temperatures. The unit should be powered by self-propelled truck engine. It should have suitable sized compressor, evaporator and control switches along with voltage stabilizer.

Temperature	The temperature variation is from +4 deg Celsius to + 2 deg Celsius
Temperature recording	The temperature is digitally displayed and recorded by the use of data-logger with an accuracy of +/- 0.5°C. The sensor should be placed inside the Milk & Milk products chamber and the recording should be displayed in the cabin. It should be an electronic device placed in closed chamber of Milk, which records the Milk product temperature after loading of the Milk Product, during traveling till it is unloaded. The minimum capacity of storing the data in data logger should be of 7 days. It should be an alarm system and as soon as the Milk product temperature crosses the safe range alarm alerts the handlers.
Stand by motor	A single phase stand by motor with a extension lead of 20 meters should be provided which should be powered by external electricity source; this electric motor will drive the compressor to maintain internal temperature at the desired level during extended stops and for pre-cooling the Milk & Milk product chamber.
Testing requirement	
Air tightness test	This test should be carried out after all the structural tests have been completed and prior to the heat leakage test. The temperatures inside and outside the thermal container shall be stabilized within 3K of each other and shall be both be within the range 288 K to 298K.
Heat Leakage test	Heat leakage test should be determining the heat leakage of the thermal container shall be taken for a continuous period of not less than 8hrs, during which the following conditions shall be satisfied: a) The test shall be performed with a mean wall temperature chosen between 288 K and 298 K. b) A thermal mapping should be conducted for the Milk product storage chamber and the max. Temp. difference between the warmest and the coldest inside points at any one time should not be more than 1deg.C
Certificates of testing	All above mentioned test should be conducted through an approved laboratory by the Government of India and the equipment should be supplied along with the test certificates.

Physical dimensions mentioned above in the specifications should be approximated to +/- 5% variation.