



# उज्जैन सहकारी दुग्ध संघ मर्यादित,

मक्सी रोड, उज्जैन (म.प्र.) 456 010

एस.एस. इन्सुलेटेड बैरल निर्माण एवं स्थापना कार्य हेतु  
ई-निविदा

ई-निविदा क्रमांक उ.दु.स./नस्ती क्र. 131/यांत्रिकी/2020/402

दिनांक:02.10.2020

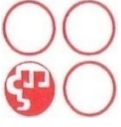
उज्जैन सहकारी दुग्ध संघ मर्यादित,

मक्सी रोड, उज्जैन (म.प्र.) 456010

फोन नं. 0734-2527071

ई-मेल: [udsplant@gmail.com](mailto:udsplant@gmail.com)

ई-निविदा प्रपत्र मूल्य:- रु. 5,000.00



# उज्जैन सहकारी दुग्ध संघ मर्यादित

Maksi Road P.B. No 106, UJJAIN - 456010, Madhya Pradesh

Phone : (0734) 2527071, [E-mail: udsplant@yahoo.com](mailto:udsplant@yahoo.com)



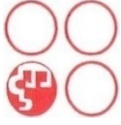
क्रमांक:उ.दु.स./यांत्रिकी/नस्ती क्र.131/2020/402

दिनांक: 02.10.2020

## —: ई-निविदा सूचना :-

उज्जैन सहकारी दुग्ध संघ मर्यादित उज्जैन द्वारा प्रतिष्ठित निर्माताओं/फैब्रिकेटर्स से अशोक लिलेण्ड के चैसिसों पर एस.एस. इन्सुलेटेड मिल्क बैरल निर्माण एवं स्थापना कार्य हेतु ई-निविदा आमंत्रित की जाती है। ई-निविदा मध्यप्रदेश ई-टेण्डर की वेबसाइट ([www.mptenders.gov.in](http://www.mptenders.gov.in)) से दिनांक 06.10.2020 से क्रय की जा सकती है। निविदा प्रपत्र मध्यप्रदेश दुग्ध महासंघ की वेबसाइट ([www.mpcdf.gov.in](http://www.mpcdf.gov.in)) पर भी देखा एवं पढ़ा जा सकता है। समस्त निविदा अथवा एक निविदा को स्वीकार अथवा अस्वीकार करने का अधिकार मुख्य कार्यपालन अधिकारी, उज्जैन सहकारी दुग्ध संघ मर्यादित, उज्जैन के पास सुरक्षित रहेगा।

मुख्य कार्यपालन अधिकारी



# उज्जैन सहकारी दुग्ध संघ मर्यादित

## UJJAIN SAHAKARI DUGDH SANGH MARYADIT



Maksi Road P.B. No 106, UJJAIN - 456010, Madhya Pradesh

Phone : (0734) 2527071

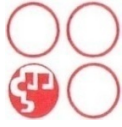
**E-mail: [udsplant@yahoo.com](mailto:udsplant@yahoo.com)**

**No. USDS/ENGG/F.No.131/2020/402**

**Date: 02-10-2020**

Schedule I	:General Terms and Conditions
Schedule II-	: Technical Specifications
Schedule III	: Mandatory Declaration Form
Schedule IV	: Commercial Price Schedule
Tender Form issue date and time	: 06-10-2020 Time 3:00 PM Onwards
Last date of purchase of Tender Form	: 27-10-2020 Time up to 2:00 PM
Time & Date of opening of Technical Bid and EMD	: 28-10-2020 Time 3:00 PM Onwards
Place of opening of Bids	:OFFICE OF UJJAIN SAHAKARI DUGDH SANGH MARYADIT, MAKSI ROAD, UJJAIN - 456010 (M.P)
Address for Communications	: CHIEF EXECUTIVE OFFICER, UJJAIN SAHAKARI DUGDH SANGH MARYADIT, MAKSI ROAD, UJJAIN - 456 010 (M.P)
Cost of Tender Form	: ₹ 5,000/- (Rupees Five Thousand only) (to be paid online)

Chief Executive Officer



# उज्जैन सहकारी दुग्ध संघ मर्यादित UJJAIN SAHAKARI DUGDH SANGH MARYADIT



Maksi Road P.B. No 106, UJJAIN - 456010, Madhya Pradesh

Phone : (0734) 2527071

E-mail: [udsplant@yahoo.com](mailto:udsplant@yahoo.com)

No. USD/F.No131/ENGG/2020/402

Date: 02-10-2020

## Online E-Tender for Fabrication/supply/ installation of Road Milk Tanker S.S. Barrels

The fabrication of Milk Barrels should be at the norms of NDDB/IDMC utilizing maximum chassis space and capacity but under load.

### SCHEDULE-I Terms & Conditions

#### 1. BASIC QUALIFICATION OF TENDERER

This tender is open for Registered and reputed manufacturers who provide satisfactory evidence of:-

- Bidder must have minimum experience for 3 years of manufacturing/supplying /installation of similar type of equipments.
- Preference will be given to reputed/experienced manufacturer who manufactured and supplied similar item to Government/Co-operative dairy federations
- Preference will be given to the tenderer having his own manufacturing facilities, Spare & Service Dept. and having sufficient Number of technical hands.

#### 2. EARNEST MONEY

The supplier to be done online payment the Earnest Money Amount (EMD) ₹ 50,000.00 (Rupees Fifty Thousand Only).

In case, the supplier withdraws his offer during the validity period, after placement of order, the EMD amount shall be forfeited.

There will be no exemption allowed to bidder.

#### RETURN OF EARNEST MONEY TO TENDERER

EMD shall be returned to the un-successful tenderer within 45 days on execution of agreement with successful tenderer. The EMD amount of second lowest tenderer shall be returned after the work has started by the successful tenderer. No interest shall be paid on EMD amounts.

#### 3. TAXES AND DUTIES

All taxes and duties should be included in the prices quoted. Any kind of taxes and duties shall not be paid extra. However, the breakup of taxes & duties must be indicated in the price bid separately.

#### 4. AMENDMENT IN SPECIFICATIONS

The UJJAIN SAHAKARI DUGDH SANGH MARYADIT, UJJAIN may revise or amend the specification and drawing, prior to the date notified for opening of Price Bid of tender. Such revision/ amendment, if any, will be communicated to all those tenderers through mpcdf/ mp tenders website.

**5. ALTERNATIVE TENDERS**

Tender should be submitted as per intent of tender documents; any alternative offers or offers without EMD are liable for rejection.

**6. MISTAKES IN TENDERS**

Rates should be quoted in both; figures and words. In case of ambiguity between rates in figures and words, lower of the two/beneficial to the UJJAIN SAHAKARI DUGDH SANGH MARYADIT, UJJAIN shall be considered. Such offers can also be rejected on recommendation of committee.

**8. Documents to be submitted with the Tender only online**

- a) Copy of Registration Certificate of the Firm / Organization (Tenderer).
- b) Copies of purchase orders last three year.
- c) Permanent Account Number (PAN) / G.S.T. Registration number.
- d) Client list.
- e) Completion/Performance certificates
- f) Income Tax returns of last three financial years.

**07. INCOMPLETE TENDERS**

Tender which is incomplete or obscure in any form is liable for rejection.

**08. ACCEPTANCE OF PART/WHOLE TENDERS-RIGHTS THEREOF**

CHIEF EXECUTIVE OFFICER, UJJAIN SAHAKARI DUGDH SANGH MARYADIT,UJJAIN reserves the right to accept/ reject wholly or partly any tender without assigning any reason whatsoever. The UJJAIN SAHAKARI DUGDH SANGH MARYADIT, UJJAIN in this regard shall not entertain any correspondence.

**09. AMBIGUITIES IN CONDITIONS OF TENDERS**

In case of ambiguous or self-contradictory terms/conditions mentioned in the tender, interpretation as may be advantageous to the UJJAIN SAHAKARI DUGDH SANGH MARYADIT, UJJAIN shall be taken without any reference to the tender.

**10. DEVIATIONS FROM TERMS & CONDITIONS**

Offers with deviations in the terms of payment, liquidated damages, EMD and performance guarantee are liable to be rejected out rightly.

**11. SUBMISSION OF TENDERS**

All Documents acceptable only those submitted by online

**12.** It may please be noted that the due date/ time of opening can be altered, extended, if felt necessary by the purchaser, without assigning any reason thereof. However, due intimation shall be communicated in such a case through mpcdf/mptenders website as well as other media.

### **13. OPENING OF E.M.D. & TECHNICAL BID**

Mandatory documents to be submitted as per S.No.11 above shall be part of Technical Bid. The concerned tender committee of USDS shall first open the Technical Bid from Online of all the Tenderer and verify the Earnest Money Deposit and Technical Bid submitted by the Tenderer. Committee shall check for the validity of Earnest Money Deposit as required. In case, the requirements are incomplete in EMD and Technical Bid other Price Bid of the concerned Tenderer shall not be opened. The requirement for EMD and Technical Bid shall be verified and thereafter, the second part, i.e. Price Bid submitted by the Tenderer shall be opened on the next date in respect of eligible Tenderer.

### **14. VALIDITY OF TENDERS**

The offers shall be valid for 90 days. Validity of the offer shall be counted from the date of opening of tenders. Those who do not agree for a validity of 90 days will do so at their own risk and their offers are liable to be rejected.

### **15. AUTHORISATION/LOCAL REPRESENTATIVE**

Only authorized representative, possessing necessary authority letter from the supplier who have participated in the tender shall be allowed to attend the tender opening.

### **16. ACCEPTANCE OF TENDER**

i) CHIEF EXECUTIVE OFFICER, UJJAIN SAHAKARI DUGDH SANGH MARYADIT, UJJAIN may reject any or all tenders or to accept any tender considering advantageous to UJJAIN SAHAKARI DUGDH SANGH MARYADIT,UJJAIN Whether it is the lowest offer or not.

ii) The UJJAIN SAHAKARI DUGDH SANGHA MARYADIT, UJJAIN-. may split the quantities against the tender on more than one supplier for the same item. The UJJAIN SAHAKARI DUGDH SANGH MARYADIT,UJJAIN-.shall assign no reasons for this and the same will be binding on the Tenderer.

### **17. PAYMENT TERMS:-**

Payment shall be made by A/c payee Cheque or RTGS only.

The Schedule of Payment shall be as follows:

30% along with purchase order against submitting Bank guarantee of any nationalized bank equal to 30% amount of total work order value.

60% after installation, Commissioning and safe receipt of tankers. 10% after submission of performance bank guarantee of 10% of total work order value with validity not less than 12 months from the date of tankers' handover.

In case the supplier did not submit bank guarantee equal to 30%, in this conditions 90% of total work order value will be released after safe receipt of tankers.

### **18. PRICES AND STATUTORY LEVIES**

Ujjain Sahakari Dugdh Sangh Maryadit Ujjain will took all the arrangements to deliver the chassis to the fabricators premises. The tenderer should quote price on the basis of ex-work (FOR – supplier's premise) including Erection, Installation & Commissioning and trial charges. However, break up of following elements may be indicated separately in the invoice:-

- (a) Unit Ex-works/Ex-godown rate including labour & raw material.
- (b) G.S.T on Ex-works price as on date of Tender.

(c) Revision of prices quoted in the price bid on any account shall not be allowed during execution of the order. Prices offered by the tenderer should be firm and free from all escalations. The Material must use as per ISI/ISO standard & as per Indian road transport rules and regulations

After rate approval, the supplier shall have to execute an agreement on Notarized a non-judicial stamp paper worth Rs. 1,000/- (Rs. One Thousand Only) to be executed with Ujjain Sahakari Dugdh Sangh Maryadit, UJJAIN.

(g) The original bills should be forwarded to the paying authority and should be marked "ORIGINAL". The bill should indicate Sales Tax Registration Number and date allotted to him under Sales Tax Act.

#### **19. TRANSIT RISK**

All necessary statutory taxes/certificates related to RTO, Insurance, Temporary permit etc. to transit the vehicle inside/outside M.P. will be provided by Ujjain Sahakari Dugdh Sangh Maryadit, UJJAIN. Any other document necessary for transit the Chasis/tankers from suppliers should be provided by the supplier.

#### **20. SUBMISSION OF DRAWING AND LITERATURE**

All the relevant drawings, layouts shall be submitted along with tender documents. The tenderer must submit the list of raw materials and other items which are using to fabricate the Milk Barrels showing quantity, quality certificates etc. after procuring the same before commencing the work.

**21. DELIVERY:** Erection, Installation, Commissioning & supply should be completed within the time mentioned in the tender form **(90 DAYS)**. In case the supplier fails to supply the same within the stipulated time period then Ujjain Sahakari Dugdh Sangh Maryadit Ujjain shall apply penalty mentioned as under :-

Sl. No.	Duration of delay	Liquidated Damages
1.	Up to 15 days	1% cost of the unit.
2.	Between 16 to 30 days	2% cost of the unit
3.	Beyond 30 days	Up to 5% cost of the unit.

#### **22. FORCE MAJEURE**

Force majeure condition is herein defined as:-

Natural phenomena, such as floods, draughts, earth-quakes and epidemics.

Act of any Government Authority, domestic or foreign, such as war, quarantines, embargoes, licensing control or production or distribution restrictions.

Accident and disruptions such as fire, explosions, increase in power cut with respect to date of tender opening, break-down of essential machinery or equipments etc.

Strikes slow down, lockouts continuing for more than three (3) weeks.

Failure or delay in the supplier's source of supply due to force majeure causes enumerated mentioned above, provided the supplier produces documentary evidence to show that there were no other alternative sources of supply available to him or if available, the lead time required was likely to be longer than the duration of the Force Majeure at the normal

source of supply. Any cause which is beyond the reasonable control of the supplier or purchaser as the case may be.

All the provisions of this clause shall apply whether the disrupting cause is total or partial in its effect upon the ability of the supplier to perform.

### **23. PERFORMANCE GUARANTEE**

28.1 If during the course of 12 months subsequent to the date of receipt of consignment any of the goods found to be defective in materials or workmanship or develops defects during service, they will have to be replaced/repared by the supplier, free of all charges. All necessary arrangements on these accounts will be made by the supplier.

24 The said material if required to be replaced, shall be collected by the supplier from the purchaser's site at his own cost and at his own responsibility. These materials will likewise be returned duly repaired/ replaced and tested subsequently by the supplier to the destination indicated on "FREIGHT PAID BASIS" at his cost in a reasonable time of 30 days from the date of intimation. The guarantee period shall also be applicable for repaired/replaced material, which shall however be counted afresh from the date of its delivery in our site.

25 Further, it is clarified that all the charges towards supply and fabrication of materials shall be borne by the supplier. The amount deposited under security deposit clause shall also cover the performance guarantee of the material.

All equipment/ line materials reported failed within the specified guarantee period may be replaced free of cost by the supplier.

26 Actual cost of dismantling and replacement of these equipments/ materials with the new ones may be charged to the supplier's account.

27 To and fro transportation cost of such failed equipment may also be borne by the supplier/ supplier.

28 In the event of the supplier's inability to adhere to the aforesaid provisions, suitable penal action will be taken, which may include blacklisting of the firm for future business with the UJJAIN SAHAKARI DUGDH SANGH MARYADIT, UJJAIN-. for a certain period.

### **29. COMPLETENESS OF EQUIPMENTS**

The equipment/material shall be completed in every respect with all minor fittings and accessories, even though these may not be specifically mentioned in the purchaser's specifications or the tender's offer. The supplier shall not be eligible for any extra price in respect of such minor fitting and accessories which can be considered as an essential part of the basic equipment even though not specifically mentioned in the specification or in the offer.

### **30. EXTENSION ORDER**

The UJJAIN SAHAKARI DUGDH SANGHA MARYADIT, UJJAIN Reserves right to place an extension order for any additional quantity to the extent of 100% quantity of the original order on the same rates, terms and conditions within six months from the date of order.

### **31. RECOVERIES FOR LIABILITIES AGAINST OTHER CONTRACTS**

All amount recoverable from the successful Tenderer against earlier contracts including orders on sister concern with the UJJAIN SAHAKARI DUGDH SANGH



MARYADIT,UJJAIN-.will be adjusted from payment due against the contract that may be awarded under this specification.

## **32. COMPLIANCE OF REGULATIONS**

The supplier should execute and deliver such documents, as may be needed, by the purchaser in evidence of compliance. All laws, Rules and Regulations are required to be incorporated in this reference. Any liability arising out of contravention of any of the laws shall be the sole responsibility of the supplier and the purchaser shall not be responsible in any manner whatsoever.

## **33. CANCELLATION OF ORDER**

**33.1** The UJJAIN SAHAKARI DUGDH SANGH MARYADIT, UJJAIN- may upon written notice of default, terminate contract in the circumstances detailed hereunder:-

a) If in the opinion of the UJJAIN SAHAKARI DUGDH SANGH MARYADIT,UJJAIN, the supplier fails to deliver the material within the time specified or during the period for which extension has been granted by the USDS.

b) If in the opinion of the UJJAIN SAHAKARI DUGDH SANGH MARYADIT, UJJAIN, the supplier fails to comply with any of the other provisions of this contract or material is found not in accordance with prescribed specifications and or the approved samples.

c) As a result of stage inspection, if applicable, it is revealed that material and/ or, workmanship is substandard which is likely to affect the performance of the finished product, a notice would be served by the UJJAIN SAHAKARI DUGDH SANGH MARYADIT,UJJAIN-. to the supplier to suspend further activities and to take urgent steps towards corrective measures, failing which the entire order would be cancelled.

**33.2** In the event of such termination, UJJAIN SAHAKARI DUGDH SANGH MARYADIT,UJJAIN shall exercise its discretion power as :-

a) To recover from the supplier the agreed liquidated damages.

OR

b) To purchase from elsewhere after giving due notice to the supplier on account and at the risk of the supplier such stores/ material not so delivered or others of similar description in respect of consignment not yet delivered.

OR

c) To cancel the contract reserving UJJAIN SAHAKARI DUGDH SANGH MARYADIT, UJJAIN's right to recover damages.

**33.3** Notwithstanding that the powers under clause (a, b & c) referred to above, are in addition to the rights and remedy available to the UJJAIN SAHAKARI DUGDH SANGH MARYADIT,UJJAIN under the general law of India relating to Contract.

**33.4** In the event of risk purchase of stores of similar description, the opinion of the UJJAIN SAHAKARI DUGDH SANGH MARYADIT,UJJAIN shall be final. In the event of action taken under clause above, the supplier shall be liable to pay for any loss, which the UJJAIN SAHAKARI DUGDH SANGH MARYADIT, UJJAIN may sustain on that account but the supplier shall not be entitled to any saving on such purchases made against the default.

**33.5** The decision of the Chairman ,UJJAIN SAHAKARI DUGDH SANGH MARYADIT, UJJAIN shall be final regarding the acceptability of the stores supplied by supplier and the UJJAIN

SAHAKARI DUGDH SANGH MARYADIT, UJJAIN shall not be required to give any reason in writing or otherwise at any time for the rejection of the stores/ material.

**35.6** In the event, UJJAIN SAHAKARI DUGDH SANGH MARYADIT,UJJAIN does not terminate the order as provided in clauses above, the supplier shall continue execution of order, in which case he shall be liable to the UJJAIN SAHAKARI DUGDH SANGHA MARYADIT,UJJAIN-.

**34. ARBITRATION**

In case of any dispute ,if arises between the parties relating to any terms and conditions of the Tender / Agreement and or regarding the agreement /tender before or after the filling of tender and /or execution of the agreement, any party may refer the dispute to a sole arbitrator who will be the Chairman UJJAIN Sahakari Dugdh Sangh Maryadit ,UJJAIN or a person nominated by him whose decision and award shall be final and binding to both the parties. The arbitration proceedings shall be under and accordance with provision of Arbitration and Conciliation Act 1996.

Supplies under the Contract shall be continued by the supplier during the arbitration proceedings, unless otherwise, directed in writing by the Purchaser or unless the matter is such that the work cannot possibly be continued until the decision of the arbitrators or of the Umpire, as the case may be, is issued.

**35. JURISDICTION**

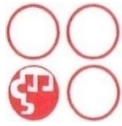
Any dispute or difference, arising under, out of, or in connection with this tender/ contract order shall be subject to exclusive jurisdiction of competent court at UJJAIN only.

**36. RANDOM TESTING-**

Concerned authority related to Ujjain Sahakari Dugdh Sangh Maryadit shall inspect the work on the suppliers premises at any time during the Barrel fabrication. Inspection of material after receipt or waiver of inspection will not relieve the supplier from his responsibility. The supplier should supply the material strictly in accordance with the specification. In case, the samples fail to withstand the required test, the entire lot will be liable to be rejected (i.e. unused material so supplied) and the supplier will have to refund the amount paid, including all taxes and duties, as well as the test charges thereof, after inspection. Such quantities or rejected material as identified, shall be removed by the supplier and replaced in full at his own cost.

**37. CORRESPONDANCE:-**

Copies of all important correspondence on subject should be sent to “CEO, UJJAIN Sahakari Dugdh Sangh Maryadit, UJJAIN”.



# उज्जैन सहकारी दुग्ध संघ मर्यादित UJJAIN SAHAKARI DUGDH SANGH MARYADIT



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No. USDS/ENGG/F. No.131/2020/402

Date: 02-10-2020

## SCHEDULE-II

### TECHNICAL SPECIFICATION

The fabrication of Single Compartment Milk Barrels should be at the norms of NDDDB/IDMC utilizing maximum chassis space and capacity but under load.

#### ROUND SHAPE BARREL 5KL & 9KL

**Dimension:** The length and diameter of the barrel is designed such that the available length and width of the chassis are fully utilized.

**Height:** The maximum overall height of the tanker shall be as per the standard design of NDDDB/IDMC and under load capacity as per Indian Road Transport Rules.

**Slope:** The barrel bottom of the inner shell has slope towards the outlet provided at the rear end of the barrel for free and complete drainage of liquid.

**Insulation:** The insulation is such that it can withstand high temperature up to 90°C during cleaning in place. It shall not permit more than 2°C rise in temperature in 24 hours when temperature gradient is 35°C. Insulation shall be expanded polyurethane and expanded polystyrene. Resin bonded glass wool shall be used at welding joints.

**CIP Lines:** There shall be single CIP connections on the man way and leading to a 4 no. stationary spray ball of 100mm dia. The connection shall be of 38mm size having SMS male connections.

**Blank Nuts:** All the blank nuts are of SMS type. The blank nuts are permanently fixed to barrel by SS chain of 3 mm rod links.

**Outlet:** The outlet is cup type with easy access from bottom and fully supported by SS gaskets. The inspection covers are bolted type and also 1/4" dia. SS pipe one side welded with cover plate and other side threaded. This will act as weeping hole.

**Finish:** All the visible welding joints are ground smooth. All the inner surface of inner shell is polished to 150 grits. The outside surfaces of outer shell are finished to either flame polish or original mill finish. SS footsteps and SS drain cum grab rail for access to the dimple walkways at the rear end of tanker shall be provided. Clear gap between rear portion of driver's cabin and front dished end of barrel after mounting shall be maintained in such a manner that shall adjust the load distribution as per the design capacity of chassis. The minimum gap shall not be less than 50mm.

**Inner Shell:** The inner shell is fabricated from SS sheet of 2mm thickness, conforming AISI 304.

**Inner dished ends:** The crown radius, knuckle radius and straight portion of inner dished ends shall be fabricated from 3mm thick SS sheet conforming to AISI 304. The dish shall be

formed by pressing and/or spinning. All the welding joints of inner barrel shall be done from inside as well as from outside. The External portion of the SS barrel have adequate numbers of stiffening rings fabricated from standard mild steel sections shall be provided on inner shell so as to form a complete cage type structure. Compressed asbestos flats of minimum 5mm thick shall be provided towards inner as well as outer shell on the stiffening rings to avoid Heat Bridge. The stiffening rings shall be welded to SS fabricated clits which shall be welded to inner barrel. Sufficient number of cleats shall be provided on circumference of inner shell to hold the stiffening rings in position and also to take care of expansion and contraction of the inner shell. Center to center distance between two cleats shall not be more than 500mm. There shall be proper supporting structure for outer shell and dished ends.

**Insulation:** insulation shall be provided as per following layers:

1st Layer : 15mm thick Polyurethane Foam (PUF) applied radially having Density of 35 Kg/m<sup>3</sup>.

2nd Layer : 15mm thick Polyurethane Foam (PUF) applied longitudinally having density of 35 Kg/m<sup>3</sup>.

3rd Layer : 50mm thick Expanded Polystyrene foam applied radially having density of 16-20 Kg/m<sup>3</sup>.

4th Layer : 15mm thick Polyurethane Foam (PUF) applied longitudinally having density of 35 Kg/m<sup>3</sup>.

5th Layer : Finally Aluminum foil of 0.07mm thick shall be covered over the insulation.

The inside of outer shell and outside of inner shell is coated with two coats of high melting point bitumen of 90/15 and 80/25 grade respectively. Wherever the welded joints of outer shell are coming in contact with insulation the entire length of the welding joint shall be insulated with 150mm wide and full depth with resin bonded fiber glass wool density 24 Kg/m<sup>3</sup>.

**Outer shell:** The outer shell is fabricated from SS sheet of 2mm conforming to AISI 304.

**Outer Dished Ends:** The crown radius, knuckle radius and straight portion of inner-dished ends shall be fabricated from 3mm thick SS sheet conforming to AISI 304. The dished end shall be formed by pressing and/or spinning. 4mm thick 50mm SS flat shall be provided to facilitate welding of outer dished ends to outer shell. The flat shall be properly supported from horizontal member of cage structure.

**MS Runner:** The complete insulated barrel is mounted on MS runner of suitable design. The thickness of MS runner shall be about 5mm. Barrel shall be fixed to chassis by EN8 U bolts and with double nuts to avoid any loosening. Suitably fabricated MS spacers shall be provided on the chassis wherever U bolts are provided. Suitable packing shall be provided between U bolt and chassis. Adequate numbers of gussets fabricated out of 3mm thick MS sheet shall be provided. Between MS gussets and outer shell of 75mm wide SS AISI 304, 3mm thick padding plate extending at least 25mm more than the gusset on both ends shall be provided. The gussets shall be full welded to padding plate and MS runner. The SS padding plate shall be welded to outer shell. The gusset shall cover at least 30% of the outer shell circumference. The MS runner shall be welded to 5mm thick MS plate of 100mm width which shall be bolted to the chassis. Wherever holes are available on the chassis the same shall be fully utilized to prevent sliding of the barrel on chassis. 12mm thick bellatte packing is provided through out the length between runner and chassis. A 3mm SS padding

plate is provided between outer shell and MS runner. Padding plate is continuous and full welded to outer shell. MS runner is full welded to SS padding plate.

**Top Platform:** SS 2.5 mm thick dimple platform shall be provided between two manhole with necessary supports. Rear Plate-form shall be fabricated from SS 304, 2mm thick dimple plate. SS ladder for access to the man way from the dimple walk way welded to the outer shell on both the side of the shell. SS man way of 500mm diameter shall be provided at the top of the barrel with slit type breathers and dust cover opening in suitable direction of top cat walk way shall be provided. The dust covers also shall be provided with suitable breathers which shall be of louver type, 90 Degree apart. The hinges of man way cover and dust cover shall have stoppers to permit the opening at least up to 100 Degree angle. The dust cover shall have rubber gasket at the edge. The dust cover shall have round dust cover resting bed. The gap between SS flange and man way neck and man way cover is not more than 0.5mm when man way cover is in closed position and gasket is not fixed.

**CIP arrangement:** The tanker shall be provided with CIP arrangement for through cleaning of inner barrel.

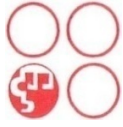
**Spray Balls:** 2 no. stationary spray balls of 100mm dia. shall be provided for each compartment. 1.6mm thick 38mm dia SS AISI 304 header is provided connecting the inlet with the all spray balls. A common CIP inlet adjustment is provided to man way neck and inside the dust cover.

**CIP inlet:** One CIP inlet with spray ball shall be provided. The SS inlets shall be of 38mm dia with IDF/SMS male part. These shall have SS blind nuts permanently fixed to the barrel by SS chain.

**Outlet:** Adequate size of cup type milk outlet fabricated from 3mm thick SS sheet conforming to AISI 304 with 63.5mm, 2mm pipe and SS 63.5mm IDF/SMS tow way SS butterfly valve having one end SS flange and other end SMS union with blank nut permanently fixed to valve box shall be provided. The SS butterfly type valve shall be as per our design having hole to hole distance of 100 x 70mm. The welded joint of outlet SS pipe with outlet cup shall be strong enough. The two way butterfly valves shall be properly supported by 25mm SS pipe. The outlet pipe shall be properly supported from barrel. The cup shall have proper supporting. The outlet pipe shall protrude out of the outer shell by about 80mm for convenient fixing and removal of mounting bolts.

**Valve Box:** A suitable size valve box housing butterfly valve shall be provided. The valve box floor shall be provided with drain pipe and floor shall be flushed with rear platform. There shall be sufficient space in the valve box for the use of C spanner on the SMS union and for tightening the mounting bolts on the flange side of the valve. The valve box shall be of adequate size to mount metering equipment, sampling bottles and other accessories. However supply of metering equipment's, sampling bottles and other accessories are not in the scope of IDMC Limited.

**Painting:** All the MS surfaces including MS runner, complete MS cage structure etc. shall be coated with two coats of anti-corrosive primer after de-rusting and degreasing. All the visible MS surfaces and mudguards shall be coated with two coats of ICI duco or equivalent automobile paint of approved colour.



उज्जैन सहकारी दुग्ध संघ मर्यादित  
UJJAIN SAHAKARI DUGDH SANGH MARYADIT



Maksi Road P.B. No 106, UJJAIN - 456010, Madhya Pradesh

Phone : (0734) 2527071

E-mail: [udsplant@gmail.com](mailto:udsplant@gmail.com)

No. USDS/ENGG/F.No. 131/2020/402

Date: 02-10-2020

**Schedule -III**

**Envelope (B-1)**

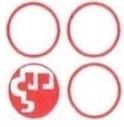
Technical Bid Form

1. Name and address of bidder :
  
2. Name and address of the firm/  
Company etc.
  - a Registered office :
  - b Postal Address :
  - c E-mail ID. :
  - d Mobile numbers :
  
4. Details of Earnest Money
  - i Amount of E.M.D. :
  - ii D.D. No./Bankers cheque No. :
  - iii Issuing bank/drawn on bank :
  - iv If in cash copy of money  
receipt to be enclosed. :
5. Person authorized to sign :  
the document on behalf of the unit, if any
7. PAN No. :
8. G.S.T. No. :

*Signature of Bidder .....*

*Name in full : .....*

*Seal of Tendering Company*



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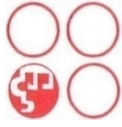
No. USDS/ENGG/F.No131/2020/402

Date: 02-10-2020

**Schedule -III**  
**Envelope (B-2)**

**DETAILS OF PAST EXPERIENCE OF SIMILAR WORK :-**

Sr. No	Particulars of works executed	Order placing authority Name & Address	Order No. & date and quantum of work	Value of contract, Completion period
01				
02				
03				



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**E-mail: [udsplant@yahoo.com](mailto:udsplant@yahoo.com)**

**No. USDS/ENGG/F.No.131/2020/402**

**Date: 02-10-2020**

**Schedule -VI**

**Price Bid**

**To,**

**The CEO,  
UJJAIN Sahakari Dugdh Sangh Maryadit,  
Maksi Road, UJJAIN (M.P.) 456010**

<b>Sr.</b>	<b>Description of Item</b>	<b>Basic Price (Without Tax)</b>	<b>Tax Amount</b>	<b>Amount with Tax</b>
<b>01</b>	<b>9000 Ltr Capacity S.S. Milk Barrel (Single Compartment)</b>			

**Date :**

**Place :**

**Signature :**

**Name :**

**Seal of the tenderer.:**