



The Bhagirathi Co-op. Milk Producers' Union Limited

(A Govt. of West Bengal Project)

BU/P&I/MAINT/0827

Date: 22.08.2025

NOTICE INVITING QUOTATION

The Bhagirathi Milk Union invites sealed quotation for Electrification of 1 no(s) Dairy Cooperative Society for installation of Automatic Milk Collection Units. Therefore, reliable, resourceful and bonafide firms/individuals/agencies/contractors with sufficient experience and expertise are requested to quote their best rate. The scope of Work and General terms and conditions of the Notice are as follows:

Timeline for Quotation:

Sl. No.	Particular	Date & Time
1.	Date of Publication of NIQ	22.08.2025 at 1400 hours
2.	Quotation submission starts date & time	22.08.2025 at 1500 hours
3.	Last date & time of submission of Quotation	29.08.2025 till 1500 hours
4.	Date & Time of opening of quotation in the office of the MD BCMPUL in the presence of willing bidders.	29.08.2025 at 1600 hours

Scope of work:

Electrification of 1 no(s) of Dairy Cooperative Society which includes the following job:

1. Dismantling of existing wiring with all fittings, switches, receptacles, main switch and distribution board with minimum damage (if unavoidable) to the building. Returning the dismantled materials to the owner. (where dismantling is applicable).
2. Earthing as per Annexure-A.
3. Installation of 2 no(s) 300mm long 25x3mm G.I earth bar on wall.
4. Connecting with D.B/Main with 2 no(s) 8 S.W.G earth wire from earth bars.
5. Installation of suitable box with DIN channel for installing SPD and Voltage Regulator.
6. Installation of 12way SPN DB on Wall.
7. Point wiring in 20mm diameter PVC rigid conduit with 1.0 mm² FRLS PVC copper conductor for 2 no(s) light point and one no fan point with regulator in PVC surface boxes with modular switches.
8. Installation of 3 no(s) 16A plug socket and switch on surface with modular switches with 1.5mm² FRLS PVSC copper wire in 20mm PVC rigid conduit for Inverter connection and bypass (in the event of Inverter failure).
9. Installation and connection with 1.0 mm² FRLS PVC copper conductor in 20mm diameter PVC rigid conduit for 3 no(s) PVC surface mounted switch board suitable for 4 no(s) 6A socket with 6A switch and earthing the third pin with 1.0 mm² FRLS PVC copper conductor.
10. Installation of 1 NO16A DP MCB as incomer in 12W SPN D.B and 6NOS 6A SP MCB in the existing D.B.



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11. Installation of 1 NO Single-Phase SPD and 1 No Automatic Voltage Regulator of suitable capacity in the Existing Box.

General Specifications of the Tender

1. Access to the works shall be allowed only to the Contractor/Supplier, Sub-Contractors or his duly appointed representatives. The Contractor/ Supplier shall not object to the execution of other works by other contractors or tradesmen and shall afford them every facility for execution of their several works simultaneously with his own. Work at the Purchaser's premises shall be carried out at such time as the Purchaser may approve but the Purchaser shall give the Contractor/ Supplier all reasonable facilities for the same. The Contractor/Supplier shall provide sufficient fencing, notice boards etc. to guard the works and warn the public. The Contractor shall obey Central, Local and State regulations and enactments pertaining to workmen and labour and the Engineer In-Charge shall have the right to enquire into and decide all complaints on such matters. The Contractor should comply with the Minimum Wages Act and should also ensure that safe practices are followed by his people at site.
2. Taking Over The equipment when erected at site shall be deemed to have been taken over by the Purchaser when the Engineer In-Charge will have certified in writing that the equipment has fulfilled the contract conditions.

Special Conditions to the Contract

1. This specification covers the supply of material as per the enclosed details and quantities and supervision of erection/installation, testing and commissioning of the material. The Contractor/Manufacturer/Supplier shall quote for all the materials along with accessories as mentioned in the enquiry. All the supply shall be in accordance with specifications and recognized standards as per Annexure A or IS Standard.
2. **Inspection & Testing of Material:** Contractor/Manufacturer/Supplier shall submit the lists of Type Tests and Routine Tests to be conducted on the material in the Technical Data Sheet. All the materials shall be tested at factory as per IS Specifications of material by Purchaser's Engineer In-Charge/Engineers before dispatch at the cost of Contractor/Manufacturer/Supplier. Contractor/Manufacturer/Supplier shall inform the concerned Engineer In-Charge for inspection and testing in accordance and fix up a suitable date for the same.
3. This specification is intended to cover the requirements of supply, installation, testing and commissioning of electrical wiring installation and other accessories required for its satisfactory operation. This covers the essential requirements or precautions regarding wiring installations for ensuring satisfactory and reliable service.
4. **Standards:** The Electrical wiring installations and other accessories shall comply with latest IS: 732 - 1989 and National Electrical code – 1985 and to the latest amendments from time to time. Lamps: All Light Fixtures, unless otherwise specified shall be hung at a height of not less than 2.5 m above the finished floor level (except if not applicable). Types of accessories to be used: All outlets, such as switches and sockets, may be either of flush mounting type or of surface mounting type. The switches and other outlets shall be mounted on such boxes. The metal box shall be efficiently earthed with the earth continuity wire run along the conduit. When crossing through expansion joints in buildings, the conduit sections across the joint may be through flexible copper bellows of the same size as PVC conduit. The Number of wires that can be drawn through a conduit shall be strictly as per IS 732.



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5. **Testing of Wiring:** The following tests may be carried out on all types of wiring on completion of the work and before energizing the installation: i) Insulation resistance test, ii) Electrical continuity test, iii) Earth continuity test, iv) Earth electrode resistance test, v) Switch polarity test.
6. **Distribution Boards:** All the distribution boards shall be with MCCBs/ MCBs as described in the respective schedule. The distribution boards shall be controlled by a switch fuse, miniature circuit breaker. Each outgoing circuit shall be provided either with MCB or a fuse on the phase. The neutral shall be connected to a common link and be capable of being disconnected individually for testing purposes. The distribution boards shall be located as directed by the Milk Union. The distribution boards shall be fixed on wall in the niche provided and marked with the details of circuits, source of supply, size of incoming wires etc. All marking shall be clear and legible. The total load of the consuming devices shall be evenly distributed between the numbers of ways of distribution board. The consuming devices circuit shall be connected to distribution board in proper sequence, so as to avoid unnecessary crossing of wires. Cables shall be connected to a terminal only by crimped lugs. Cables shall be rigidly fixed in such a manner that a clearance of at least 2.5cm is maintained between conductors of opposite polarity or phase and between the conductors and any material other than insulating material. The incoming and outgoing cables shall be neatly bunched.
7. **Mounting Heights:** The mounting heights of various fixtures shall be as specified in the Milk Union. Flexible conduits are strictly not envisaged; only industrial type GI Bind flexible conduit or PVC rigid conduit with ISI mark shall be used in a spot where the conduits and bends cannot be possible to run.
8. **General Codes:** All the supply and work shall be in accordance with the relevant I.S. Specification and recognized standards and modern approved practice and shall meet the requirement of the latest issue of applicable codes, factory rates and regulations, supply codes and all standard accepted practice in locality where the installation is to be made. All the materials and accessories provided by Contractor under terms of this contract shall conform to the relevant Indian Standard Specifications. **Samples of all equipment, materials and accessories to be supplied by the Contractor shall be submitted for the approval of the Engineer before they are supplied and used.** Contractor shall provide all necessary labour, tools, and other requisite work like drilling, cutting, welding etc. at his own cost. Good workmanship is the essence of this contract and shall be complied with at all times. The Contractor shall have the works supervised by qualified and experienced engineers. All the defects pointed out by the engineer shall be rectified immediately by the Contractor free of cost. The Contractor shall cooperate with other agencies in the area for the smooth execution of all works. Accidental damage to any property shall be reported immediately to site engineers and letter confirmed in writing. The equipment shall comply with the requirement of latest revision of following standard issued by BIS (Bureau of Indian Standards), unless otherwise specified.
9. **Earthing & Lighting Protection:** IS: 3043 – 1987 Code of practice for earthing. IS: 2309 – 1989 Code of practice for Protection of buildings and allied structures against lightning.
10. **Low Voltage Switchgear & Panel:** IS: 8623 – 1993 Specification for low voltage switchgear and control gear assemblies IS: 10118-1982 Code of practices for selection, installation and maintenance of switchgear and control gear. IS: 12063-1987 Classification of degrees of protection provided by enclosures of electrical equipment. IS :7752-1975 Guide for improvement of power factor in consumer installation. IS: 12360-1988 Voltage bands for electrical installations including preferred voltages and frequency. IS: 2147 – 1962 Degrees of Protection provided by enclosures for low voltage switchgear and control gear. IS :13947-1993 L.V. Switchgears and control gears IS:13032-1991 Miniature circuit breaker boards for voltage up to and including 1000 volts A.C. IS:13925-1998 Shunt capacitors for ac power systems having a rated voltage above 1000V. IS:12729-2004 Common specification for high voltage switchgear & control gear standards.



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11. **Internal (Point wiring, fans, fixtures):** IS: 4648 – 1968 Guide for electrical layout in Residential buildings. IS: 732 - 1989 Code of practice for electrical wiring installations. IS:6665- 1972 Code of practice for industrial lighting IS: 2268 – 1994 Electrical appliances electrical call bells and buzzers for indoor use. IS: 3646-1992 Code of Practice for interior illumination IS :11037-1984 Electronic type fan regulators. IS:9537-1980 Conduits for electrical installation IS:14768-2000 Conduits fittings for electrical installations general requirements. IS: 14927-2001 Cable trunking & ducting systems for electrical installations IS: 1913 - 1978 General and safety requirement for luminaries IS:3528-1966. Water-proof electric lighting fitting IS:1944-1970 Code of practice for lighting of public thorough fare.

General Terms & Conditions

1. The bidders are required to go through the Terms & Condition carefully, understand the requirement and then quote the most competitive rate in sealed envelope addressed to the Managing Director, The Bhagirathi Cooperative Milk Producers' Union Limited, Feeder Dairy, Panchanantala, Berhampore, Murshidabad, 742101 (WB).
2. Quotation shall only be accepted in sealed envelope subscribing the Enquiry No. and Item Type. No quotations shall be accepted through mail. Incomplete quotations are liable to be rejected.
3. Bidders must submit valid GST registration certificate and trade license along with their offer.
4. Site: Borderpara Dairy Cooperative Society, Block: MJ, Dist: Murshidabad.
5. Interested bidders must visit the site to understand the nature and extent of work involved before quoting their rates. Site inspection is mandatory. Rates quoted other than site inspection shall be rejected.
6. Ensuring clean and safe installation including labelling, tagging and circuit separation.
7. Any civil or mechanical work necessary for completion of the work must be done by the bidder.
8. Bidder must make the final testing of the entire setup in presence of the officials of the Milk Union.
9. Use of items other than mentioned makes shall not be accepted.
10. **Rate:** The rate quoted by the bidder should be inclusive of all taxes and levies, materials, labour, and F.O.R. the specified site as follows:

SL. No.	Particulars	Rate to be quoted inclusive of all taxes	Remarks
1	Electrification of Dairy Cooperative Society as per the scope of work	To be quoted by the bidder	To be quoted by the bidder

11. It is mandatory for the bidder to adhere to the payment terms and other general terms and conditions specified in this NIQ. No price escalation will be entertained after the submission of bids.
12. **Completion Time:** The work must be completed within 7 days from the date of acceptance of the work order.



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13. **Inspection:** The site shall be handed over to the Milk Union by the contractor in written wherein the Milk Union shall conduct all necessary test for inspection in compliance and conformation to the IS Standards.
14. **Payment:** Payment shall be made in NEFT/RTGS within 30 days after satisfactory completion of the job certified by competent authority.
15. **Warranty:** The bidder shall be responsible for any defects in workmanship or material for a period of 12 months from the date of completion. Any fault or issues within the warranty period must be rectified free of cost.
16. **Non-Conformation to standards:** If the job done is not as per the scope of the Work or as per the standards of the Milk Union, payment shall not be released to the contractor. Use of any material not approved by the Milk Union shall lead to non-release of payment.
17. **Cleanliness in the workspace:** The supplier shall ensure that the workplace remains clean and safe during the execution of work. Waste and leftover materials must be cleared after the completion of the work.
18. In case there is any discrepancy in quality the Milk Union may impose a penalty or reject the job. The subsequent company shall be blacklisted for 3 years.
19. In case any dispute between the supplier and Milk Union the decision of the Milk Union will be final and binding.
20. The Milk Union reserves full right to accept or reject any quotation/all quotations or to cancel the entire process at any point of time without assigning any reason thereof.

Sd/-

**Managing Director
The Bhagirathi Cooperative Milk
Procedures' Union Limited**

Copy forwarded for information to:

1. I/C P&I
2. I/C Store



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Annexure-A

Earthing

Technology	Earth Electrode (Gel type) maintenance free earthing. Mineral Filling Compound (MFC), Surrounded to earth electrode creates low resistance zone so that output is constant for longer life.
Pipe Material	Galvanized Pipe as per IS : 1239
Diameter (Outer Dia.)	48 mm
Length	3 Meter
Wall Thickness	2.5 mm
Primary Electrode	Mild Steel Strip
Mild Steel Strip	3.12 m long, 32 mm wide and 6 mm thick
MS Strip Hot dip Galvanized thickness	110 micron
Gel Filled	Highly non- corrosive compound
Earth wire to connect Electrode with Power supply.	25mm * 3mm GI Strip
Filling compound	Adequate
Civil works	Closed pit/chamber to secure the earthing. Earthing: Bidder should install and provide all inputs / material for proper earthing as per IS Code / Local Electricity Board Regulation. The scope of work includes excavation for earth pit, construction of chamber, filling with necessary materials (filling compound) and complete with cover. Supplier will test and demonstrate the resistance as per local EB requirement and furnish record as required.

Material to be used

Wires	Finolex, RR Cables, (Any suitable make as approved by the Milk Union)
Switch	Anchor, Legrand, (Any suitable make as approved by the Milk Union)
Sockets	Anchor, Legrand, (Any suitable make as approved by the Milk Union)
MCB	Anchor, Legrand, (Any suitable make as approved by the Milk Union)
SPD, VR	Anchor, Legrand, (Any suitable make as approved by the Milk Union)
Other	Any make as approved by Milk Union or BIS Standard

Sd/-

Managing Director

The Bhagirathi Cooperative Milk
Procedures' Union Limited