



The Bhagirathi Co-op. Milk Producers' Union Ltd.

(A Govt. of West Bengal Project)

Feeder Dairy: P.O-Berhampore: PIN -742101: Dist.-Murshidabad

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NOTICE INVITING E-TENDER

BU/PUR/ENGG/2175

Dated: 07/11/2022

The Bhagirathi Cooperative Milk Producers' Union Limited invites Online Tender (E-Tender) in two bid system for Supply, Installation and Commissioning of 800 KVA Power Transformer at Feeder Dairy.

IMPORTANT DATE AND TIME SCHEDULE

Sl. No.	Particulars	Date & Time
1	Date of uploading (Publishing) of N.I.T. Documents (Online)	07.11.2022 at 1600 hrs
2	Documents download start date (Online)	07.11.2022 at 1605 hrs
3	Technical Bid proposal submission start date (Online)	09.11.2022 at 1600 hrs
4	Bid Submission end date (Online)	14.11.2022 at 1600 hrs
5	Technical bid opening date	16.11.2022 at 1600 hrs
6	Pre bid Meeting & Site Inspection Mandatory	08.11.2022 to 12.11.2022 from 1100 hrs to 1600 hrs
7	Financial Bid Opening date	To be notified later

The details of work are given below:

Nature of Work	Detailed in NIT
Scope of Work	Detailed in NIT
Estimated Cost of Work	Rate to be offered by the bidder as per prevailing market rate.
Statutory & Non Statutory Documents	<ol style="list-style-type: none">1. GST Registration Certificate2. Copy of valid PAN Card3. Trade License4. Documents in support of Credential i.e. Work Completion Certificate for execution of similar nature of Work5. Experience: Bidder should have minimum 3 (Three) year experience in Supply, Installation & Commissioning of same nature of work. Work Completion Certificate in support of this claim must be attached. <p>N.B: All these documents are mandatory. Failure to upload the documents will result in disqualification during technical bid. No document is to be sent physically.</p>
Earnest Money Deposit	<p>The EMD amounting to Rs. 11,111/- should be deposited online through Net Banking, NEFT/RTGS in favour of The Bhagirathi Cooperative Milk Producers' Union Limited payable at Berhampore.</p> <p>EMD shall not carry interest.</p> <p>Tenderers will select the Tender to bid and initiate payment of pre-defined EMD for that tender by selecting from either of the following payments modes (vide Finance Department Memorandum no. 3975-F(Y) Dt. 28/07/2016) :</p>

1. Net banking (any of the banks listed in the ICICI Bank Payment gateway) in case of payment through ICICI Bank Payment Gateway.

2. RTGS/NEFT in case of offline payment through bank accounts in any Bank.

Payment procedure

a) Payment by Net Banking (any listed bank) through ICICI Bank Payment Gateway :

1. On selection of net banking as the payment mode, the bidder will be directed to ICICI Bank Payment Gateway webpage (along with a string containing a Unique ID) where he will select the Bank through which he wants to do the transaction.

2. Bidder will make the payment after entering his Unique ID and password of the bank to process the transaction.

3. Bidder will receive a confirmation message regarding success/failure of the transaction.

1. If the transaction is successful, the amount paid by the bidder will get credited in the respective Pooling account of The Bhagirathi Cooperative Milk Producers' Union Limited maintained with the Focal Point Branch of ICICI Bank at R.N. Mukherjee Road, Kolkata for collection of EMD/Tender Fees.

2. For transaction failure, the bidder will again try for payment by going back to the first step.

b) Payment through RTGS/NEFT:

1. On selection of RTGS/NEFT as the payment mode, the e-Procurement portal will show a pre-filled challan having the details to process RTGS/NEFT transaction.

2. The bidder will print the challan and use the pre-filled information to make RTGS/NEFT payment using his Bank account.

3. Once payment is made, the bidder will come back to the e-Procurement portal after expiry of a reasonable time to enable the NEFT/RTGS process to complete, in order to verify the payment made and continue the bidding process.

4. If verification is successful, the fund will get credited to the respective Pooling account of The Bhagirathi Cooperative Milk Producers' Union Limited maintained with the Focal Point Branch of ICICI Bank at R.N. Mukherjee Road for collection of EMD/Tender Fees.

3. Hereafter, the bidder will go to e-Procurement portal for submission of his bid.

4. But if the payment verification is unsuccessful, the amount will be returned to the bidder's account.

B. Refund/Settlement Process:

i. After opening of the bids and technical evaluation of the same by the Quotation inviting authority through electronic processing in the e-Procurement portal of the State Government, the Quotation inviting authority will declare the status of the bids as successful or unsuccessful which will be made available, along with the details of the unsuccessful bidders, to ICICI Bank by the e-Procurement portal through web services.

	<p>ii. On receipt of the information from the e-Procurement portal, the Bank will refund, through an automated process, the EMD of the bidders disqualified at the technical evaluation to the respective bidders' bank accounts from which they made the payment transaction. Such refund will take place within T+2 Bank Working Days where T will mean the date on which information on rejection of bid is uploaded to the e-Procurement portal by the Tender inviting authority.</p> <p>iii. Once the financial bid evaluation is electronically processed in the e Procurement portal, EMD of the technically qualified bidders other than that of the L1 will be refunded, through an automated process, to the respective bidders' bank accounts from which they made the payment transaction. Such refund will take place within T+2 Bank Working Days where T will mean the date on which information on rejection of financial bid is uploaded to the e-Procurement portal by the Quotation inviting authority.</p> <p>iv. If the L1 bidder accepts the LOI and the same is processed electronically in the e-Procurement portal and the information on Award of Contract (AOC) to the L1 bidder is uploaded to the e-Procurement portal by the tender inviting authority.</p> <p>v. As soon as the L1 bidder is awarded the contract (AOC) and the same is processed electronically in the e-Procurement portal –</p> <p>a) EMD of the L1 bidder for tenders of State Government offices will automatically get transferred from the pooling account to the State Government deposit head “8443-00-103-001-07” through GRIPS along with the bank particulars of the L1 bidder.</p> <p>b) EMD of the L1 bidder for tenders of the State PSUs/Autonomous Bodies/Local Bodies/PRI, etc will automatically get transferred from the pooling account to their respective linked bank accounts along with the bank particulars of the L1 bidder.</p> <p>In both the above cases, such transfer will take place within T+1 Bank Working Days where T will mean the date on which the Award of Contract (AOC) is issued.</p> <p>vi. The Bank will share the details of the GRN No. generated on successful entry in GRIPS with the E-Procurement portal for updation.</p> <p>vii. Once the EMD of the L1 bidder is transferred in the manner mentioned above, Tender fees, if any, deposited by the bidders will be transferred electronically from the pooling account to the Government revenue receipt head “0070-60-800-013-27” through GRIPS for Government tenders and to the respective linked bank accounts for State PSU/Autonomous Body/Local Body/PRI, etc tenders.</p> <p>viii. All refunds will be made mandatorily to the Bank A/c from which the payment of EMD (if any) were initiated.</p>
Bid Document	The bid document is available in the E-Tendering Portal of Govt. of West Bengal https://wbtenders.gov.in .
Technical Bid Evaluation	The Technical Bid will be evaluated by the Tender Committee. Bidders shall upload all the necessary documents in the Technical Folder which will be verified and evaluated by the Tender Committee.
Financial Bid	Rate shall be quoted in the Financial bid The bidder shall quote the rate online through Computer only in the space marked for quoting rate in the Bill of Quantities (BOQ). Only downloaded copies of the above documents, digitally signed by the bidder are to be uploaded (Excel file).

	The rate quoted by the tenderer shall be inclusive of all elements of taxes and duties, demands, tolls etc. The tenderer shall include income tax, GST etc as applicable, octroi if any and all other charges if applicable while quoting the rate, FOR (freight on road) delivery of the material in the place of delivery.
Validity of Bid	90 days
Award of Contract	The bidder/bidders shall be selected after item-wise evaluation (Financial Evaluation shall be done separately) 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	1. E-Procurement Portal Govt. of West Bengal (https://wbtenders.gov.in) 2. Website of the Milk Union (www.bhagirathimilk.com) 3. Office Notice Board

TECHNICAL SPECIFICATIONS

Sl. No.	Particulars	Quantity
Scope of Supplies and Works:		
01	i. Construction of 6' × 6' Foundation made of PCC 3 feet height above GL for resting 800 KVA Transformer. ii. Carrying out necessary inspection, testing and obtaining subsequent approval by Directorate of Electricity of 800 KVA Transformer. iii. Over head laying of 60 meter 3½ Core 300 sq mm aluminum armoured LT cable with necessary support structure. iv. Installation of 11KV/433 V 800 KVA Transformer with proper leveling, termination of HT and LT cable, termination of earthing. v. Supply installation of 10 sets of double compression type gland for 3½ core 300 sq mm Aluminum armoured cable. vi. Supply installation of 10 sets of flat socket for 3½ core 300 sq mm Aluminum armoured cable. vii. Supply installation of 1 set of 11 KV indoor type HT joining kit suitable for 3 core 120 sq mm XLPE cable. Note: <ul style="list-style-type: none"> • Being emergency production unit complete shutdown cannot be provided for the above works. Partial shutdown can be arranged with consultation and consent of Maintenance In charge. • No worker will be allowed to work without Accidental / Health Insurance. • Site inspection is obligatory. 	1 job

General Terms & Conditions

1. It is a two part bid which consists of Technical & Financial bid separately. The applicants must upload the credentials Statutory & Non Statutory documents in the Technical Folder. Technical & Financial quote must not be sent through post / physically. Bhagirathi may physically verify documents if required.
2. The intending bidders are required to quote the rate online only. Financial Bid will contain rate of items only. No other document will be sent in the financial bid (Folder).
3. Price quoted by the bidder should be inclusive of all taxes levies packing, forwarding, transportation and any other incidental charges & FOR Feeder Dairy Berhampore. Transit Insurance charges shall be borne by the supplier.
4. Parties not appearing in site inspection shall be disqualified in the tender.

5. EMD of successful bidder shall be converted to security deposit. EMD of unsuccessful bidders shall be refunded. EMD shall not carry any interest. The EMD which has been converted to Security Deposit shall be released after 6 month of successful execution of the Contract.
6. Time being the essence of contract, Supply, Installation and Commissioning of the ordered item with all necessary repairing work must be completed within 45 days and must be commenced with 7 days of acceptance of the contract.
7. Penal Clause: Liquidated Damage of 0.5% of the total cost shall be charged if there is any delay in supply of goods, installation and commissioning subjected to a maximum of 10% of the total cost and the amount shall be recovered from the bills. If the Milk Union makes alternative arrangements due to negligence of the party, the cost of the consignment arranged from the different source shall be deducted from the party.
8. Force Majeure: For delay in supply of goods for which neither the supplier or the Milk Union is responsible like strikes, lockouts, war, catastrophe shall be termed as "Force Majeure" and penalty clause will not be applicable.
9. Payment Terms:
 - 50% payment shall be released after receiving the goods in good condition along with 3 (three) copies of Invoice.
 - 40% payment shall be released after successful commissioning, installation and trial run by the supplier or his authorized representatives duly certified by the officials of the Milk Union.
 - 10% after 12 months of successful completion of job. This shall serve as Performance Guarantee.
 - Payment shall not be released if there is a manufacturing defect in the material as a result of poor workmanship. If such situation occurs the supplied materials shall be immediately replaced.
10. The Requisitioning Authority will certify the quality of goods received at the store. In case if any consignment is not conforming prescribed specification and quality, penalty shall be imposed and the cost will be deducted from the bill accordingly.
11. In case of any dispute between the Milk Union and the bidder the decision of the Milk Union shall be binding.
12. The Milk Union reserves the right to cancel the Contract if the Supplier fails to supply the goods as well as Installation & Commissioning in due time or compromises with the quality of the goods/job. On termination of contract the security deposit shall be forfeited.
13. The Milk Union reserves the right to accept or reject any tender/all tenders or to cancel the entire process without assigning any reason thereof.

Sd/-
Managing Director
The Bhagirathi Cooperative Milk
Producers' Union Limited

Copy forwarded to:

1. E-Procurement portal of Govt. of West Bengal (<https://wbtenders.gov.in>)
2. Official Website (www.bhagirathimilk.com)
3. Office Notice Board

TECHNICAL SPECIFICATION OF 800 KVA TRANSFORMER

1.01. GENERAL SPECIFICATIONS

1	Rated KVA	800
2	Service & Duty	Continuous
3	Make	Globe Rectifier/VOLTAMP Baroda/Schneider Electric
4	Type	Core Type - Oil Immersed
5	Location	Outdoor
6	Specifications & Standard as per IS	IS 1180
7	Type of Cooling	ONAN
8	Wound	Copper Double Wound

1.02. SYSTEM PARTICULARS

1	Nominal Voltage (V)	11000
2	Highest System Voltage (V)	12000
3	No. Of Phases	3
4	Frequency (Hz)	50
5	Voltage Variation	+ / - 5%
6	Frequency Variation	+ / - 3 %
7	Combined Voltage & Frequency Variation	+ / - 5%
8	Terminal Arrangement	HV Bare Bushings Porcelain
		LV Bus duct Epoxy moulded

1.03. RATING

1	Rated Voltage of H.V. (Volts)	11000	Current: 42 amps
2	Rated Voltage of L.V. (Volts)	433	Current: 1066.73 amps
3	Max. Temperature rise above 50 C ambient temperature of winding by resistance method. (Deg. C)	55	
4	Max. Temperature rise in oil by thermometer above 50 C ambient temperature (Deg. C)	50	
5	Over load capacity	As per IS: 6600	

1.04. WINDING CONNECTION DETAILS

1	Connections	
	a. H.V. Winding	Delta
	b. L.V. Winding	Star
	c. Neutral brought out for earthing	Yes
2	Tapings	Manual
	a. No. of Positions	17
	b. Range	+ 10% to -10 % in steps of 1.25 %
3	Vector Symbol	Dyn11

1.05. LOSSES AND OTHERS

1	No load losses at rated frequency and Voltage (Watts)	1200
2	Copper losses at rated current and rated frequency at 75 deg. C (Watts) At Normal Tap.	12500
		Subject to IS Tolerance
3	Percentage Impedance at 75 deg. C at Normal Tap.	6.00
4	No load Current Approx	1.5% of full load current
5	Regulation at full load at 75 deg. C u.p.f.	1.270%
6	Regulation at full load at 75 deg. C 0.8 u.p.f.	3.89%

1.06. EFFICIENCY			
1	Efficiency at 75 deg. C	U.P.F.	0.8 P.F.
	a. 100 % full load	98.73	98.42
	b. 75% full load	98.97	98.71
	c. 50 % full load	99.16	98.95
	d.25% full load	99.18	98.98
2	Load at which Max. efficiency occurs KVA	352.62	
3	Maximum Efficiency	99.22	
1.07. CONSTRUCTIONAL DETAILS			
1	Type of Construction	Core Type	
2	Insulation between laminations	Carlit	
3	Type of joint between core limb and yoke	Mitered	
4	Type of Winding		
	a. HV Winding	Disc/Crossover	
	b. LV Winding	Spiral / Helical	
1.08. WINDING INSULATION LEVEL			
	a. HV Winding (KV uniform)	11	
	b. LV Winding (KV uniform)	1.14	
1.09. INSULATION OF CONDUCTORS			
	a. HV Winding turn Insulation	DPC	
	b. LV Winding turn Insulation	DPC	
	c. Between HV and LV Winding	Oil Duct + Solid Cylinder + Oil Duct	
	d. Between LV Winding and Core	Solid Cylinder	
1.10. TYPE OF JOINTS IN WINDING			
		Brazed	
1.11. MINIMUM CLEARANCES			
	H.V.to Earth (mm)		
	In Oil	25	
	Out of Oil	280	
	L.V. to Earth (mm)		
	In Oil	7	
	Out of Oil	20	
1.12.TEST VOLTAGES			
	a. Impulse (1.2 / 50 micro second wave)		
	withstand voltage		
	H.V. Winding (KV peak)	75	
	L.V. Winding (KV peak)	N. A.	
	b. One minute power frequency		
	withstand voltage		
	H.V. Winding (KV)	28	
	L.V. Winding (KV)	3	
1.13. DETAILS OF TANK AND MATERIALS M.S.			
1	Thickness of side plates (mm)	5	
2	Thickness of bottom plates (mm)	8	
3	Thickness of cover plates (mm)	8	
4	Thickness of radiator (pipes or sheets)	1.2mm	
1.14. WEIGHTS AND DIMENSIONS (APPROX.)			
1	Net un tanking Weight (Kg.)	1530	
	(Core and windings with clamps)		
2	Volume of insulating Oil (Ltr.)	800+200 Ltrs	
3	Tank and fittings (Kg.)	1670	
4	OLTC Weight (Kg) with Oil	610	
5	Total Weight of Transformer (Kg.)	3300	
6	Overall dimensions of the Transformer	Length	Breadth
	(approx.) in mm	1720	1150
			Height
			1750

1.15. STANDARD FITTINGS AND ACCESSORIES		
Sl. No.	DESCRIPTION	QTY.
1	Rating and terminal marking plate	One
2	Earthing Terminals	Two
3	Lifting Lugs	Four
4	On Load Tap changer OLG make surge relay	One
5	Conservator with Drain plug	One
6	Oil filling hole with cap	One
7	Oil Level Indicator	One
8	Dehydrating Silicagel Breather	One
9	Air release device	One
10	Thermometer Pockets	Two
11	Drain valve with blanking plate	One
12	Filter valve with blanking plate	One
13	Explosion vent with double diaphragm	One
14	Detachable Radiators	Four
15	Uni-directional Flat Rollers	Four
16	Separate Neutral Bushing	One
17	GOR with A&T Contacts	One
18	Oil Temp Indicator with A&T	One
19	Winding Temperature Indicator with A&T	One
20	Magnetizing Oil Gauge with A&T	One
21	Marshaling Box	One
22	HV Bare Bushings	Three
23	L.V Busduct	Four
24	Jacking pads	Four
25	RTCC Pnel	One
26	AVR	One
1.16. PAINTING		
1	Surface preparation	By Grit Blasting
2	Paint	Enamel Light Grey, Shade No.631, of IS : 5
1.17. TESTS		
1	ROUTINE TESTS	
	As per IS: 2026 all the routine tests are carried out.	

NOTE: The transformer make should be approved as per the CEIG / CEA norms.