

**ENQUIRY**

To

Sub: Inviting offer for the Procurement of Multifunction Energy Meter for Steam Turbine Generator –Reg.,

QUOTATION TO BE:

Submitted on or before – 04.04.2025 -5 pm	Opened on 05.04.2025 - 12.00 P M
Kept valid for 3 months from the date of opening	Submitted in ONE part.

Sealed quotations are invited for the supply of Multifunction Energy Meter for Steam Turbine Generator as per the Specifications and as per the terms and conditions mentioned therein.

Terms and conditions:

1. The rate quoted should be firm and inclusive of all GST and other charges as admissible.
2. Applicable other charges, if any should be clearly mentioned. If not mentioned, it will be presumed that the rate quoted is inclusive of all other charges.
3. The materials should be original, specified make only.
4. The materials should be directly supplied to the PPCL site, T. R. Pattinam, Karaikal - 609 606, on door delivery basis.
5. **Payment:** 100% Payment will be made within 30 days from the date of receipt of your invoice after receipt of materials in good condition. The **bill in triplicate** along with **Advance stamp fixed and signed receipt** should be sent to the undersigned for effecting payment. Part payment will not be made for the supplied items.
6. The delivery period and mode of dispatch should be clearly specified.
7. The bidder should produce necessary test, Calibration & Guarantee/warranty certificate for the energy meter at the time of supply.
8. Any loss or damage during transit to site should be made good by the supplier free of charge provided the same is reported within 15 days of the arrival of material at site.
9. **Validity:** Your offer should be valid for 90 days from the date of tender opening.
10. Sealed quotations should be superscripted as "QUOTATION/ENQUIRY **NO.AB-103** for the supply of Multifunction Energy Meter for Steam Turbine Generator".
11. Quotations through fax /e-mail not accepted.
12. If the tender opening date happens to be a holiday, the tender will be opened on the next working day.
13. Our **GSTIN No.34AAACP6507E1ZS** is registered with Commercial Taxes Department, Puducherry. The GST number of the agency should be provided in the offer.
14. The undersigned reserves all rights to accept/reject any or all the quotations without assigning any reasons thereof.

14/03/2025
EXECUTIVE ENGINEER (MECH)-PLANT



Phone: 04368-233060

Email: ppclmmc@gmail.com

Telefax: 04368-233355.

Ref.No: AB-103/MMC/2024-25/ **2204**

GSTIN No.34AAACP6507E1ZS

Dt. **14**.03.2025.

ENQUIRY PAGE NO. 2

Offer Ref no:

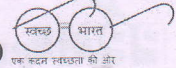
Date:

Sl. No.	Description	Qty Reqd.	Unit Rate (In Rs)	Total Amount(Rs.)
1	Multifunction Energy meter for Steam Turbine Generator Make: KRYKARD DiGi 720, Class: 0.2s CT Ratio: 800/1A, PT Ratio: 11KV/110V Dimensions: 96x96 mm Connection: 3-phase 4 wire. As per the annexure enclosed.	01 No		
Add: P&F Charges				
Add: Freight Charges				
Add: GST@ %				
Total Amount				

Commercial terms and Conditions:

Sl.No	Details	Terms in Tender	Terms Accepted by the Party
1	Price Quoted	FOR Site	
2	Payment Terms	As per the terms and conditions	
3	Validity	90 Days from date of opening of Tender	
4	Delivery	Vendor to specify	
5	Acceptance of All the Terms and Condition of the Enquiry	To be Accepted	

Signature with Seal of the Party

**Annexure****SPECIFICATIONS OF KRYKARD DiGi 720 MULTI-FUNCTION ENERGY METER****MEASUREMENTS**

- Voltage – 3U, 3V, Unbalance, • Current – 3I, In, Unbalance
- Powers – kW, kVA, kVA_r – phase wise and total, • PF – phase-wise and total
- Frequency, • kWh, kVA_rh, kVAh, • Demand & Max Demand – kW, kVA, kVA_r, I
- THD – V & I, • Individual harmonics upto 31st order, • Harmonic Energy (1st to 13th)
- Min & Max 1s – V, I, kW, kVA_r, • K factor, Crest Factor

FEATURES

- ToU - 4 tariff rates, 8 periods and 2 lists of tariff rate
- 2 Digital Outputs as standard for set-point alarms
- 3 Status input as standard, • Optional
- 8MB Memory for data logging & event recording
- 2 Analog Outputs (4-20mA), 2 Analog Inputs (4-20mA)
- True RMS upto 31st harmonic
- Voltage input upto 480V
- Phase sequence adjustment for easy installation
- SMPS power supply
- 3 line bright LCD display
- PT & CT programmable
- Password protection

INPUTS	
Voltage	400V LL nominal; 480V LL continuous max PT primary programmable up to 65kV
Current	5A nominal; 6A continuous max (measurement from 10mA) CT primary programmable up to 9999 CT secondary selectable as 1A or 5A
Burden	Voltage & Current input <0.2 VA per phase each
Overload	Current 50 A for 1 s
Sampling Rate	128 samples/cycle on all 3 voltage and 3 current channels simultaneously
Isolation	2kV
Impulse withstand voltage	4kV (peak) -1.2/50µs
DISPLAY	
Type	Backlit Custom LCD – 5 digit 3 line
AUXILIARY SUPPLY	
Rating	85 to 265 Vac 50Hz; 100 to 300Vdc
Burden	5 VA
COMMUNICATION	
Protocol	MODBUS® RTU with 16 bit CRC; 2-wire
Baud Rate	Baud rate - 2400 bps to 76,800 bps user-settable; Modbus ID-1 to 247 except 99
GENERAL	
	Temperature Operating:-10°C to +55°C ; Storage:-40°C to +70°C



Phone: 04368-233060

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Ref.No: AB-103/MMC/2024-25/ 2204

GSTIN No.34AAACP6507E1ZS

Dt/14.03.2025.

Humidity	<5% to 95% non condensing
IP Rating	IP52 front and IP30 Case
ACCURACY	
V	0.1% of Reading (10% to 120% nominal)
I	0.1% of Reading (1% to 120% nominal)
kW, kVA, kVAr	0.2% of Reading
PF	0.5% of Reading
Frequency	0.01 Hz
THD & Ind Harmonics	1% of Reading
kWh	Class 0.2 s as per IEC 62053-22
kVArh	Class 2 as per IEC 62053-23
MECHANICAL	
Terminals	Rising Cage. 4mm ² (12 AWG) cable max.
Case	PC/ABS Plastic FR Grade
Dimensions	96 x 96 x 58.6 mm (45.1mm behind panel for main unit/ Additional 11.5mm for optional unit)
Cut-out	90 x 90 mm (+/- 0.5mm)
Weight	550 gm