

**Kerala Paper Products Limited**  
(Government of Kerala Undertaking)

NEWSPRINT NAGAR P.O.,  
KOTTAYAM (DIST.)  
KERALA - 686616. INDIA.  
Web :www.keralapaper.in  
CIN: U21013KL1983GOI003735

INVITATION TO TENDER

18/05/2024

To,  
M/s.....  
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Inquiry No. : KPPL/CP/ELE/2013

Tender Due Date: 21/05/2024 .

Email ID: [tenders@kpplonline.in](mailto:tenders@kpplonline.in)

Dear

We invite you to submit your quotation for the following goods by e-mail in PDF format indicating our Inquiry No. and due date to [tenders@kpplonline.in](mailto:tenders@kpplonline.in), before due date.ie on 21/05/2024 and bids shall be opened on the same day.

Sl No	Item Name/ Description	Unit	Qty
1	VFD FOR 15 KQW LT MOTOR DETAILS OF AS PER ANNEXURE ATTACHED	No.	2

Terms of Delivery: Free Delivery at our KPPL Store.

Terms of Payment: Within 30 days after receipt subject to acceptance.

Delivery required in case of placement of an Order based on this enquiry: **Urgent requirement**

Your offer should be specific with following break-up:-

- |                   |  |                   |
|-------------------|--|-------------------|
| 1. Basis of price | 4. GST                                     | 7. Delivery Time: |
| 2. Basic Price    | 5. Discount offered %                      |                   |
| 3. Excise Duty %  | 6. Other charges%(Like P & F, Freight etc) |                   |

You may please indicate the **tender number as the subject of the mail.**

Yours faithfully  
For Kerala Paper Products Ltd.

AUTHORISED SIGNATORY



# TECHNICAL SPECIFICATIONS AND SCOPE OF SUPPLY FOR 15 KW VARIABLE FREQUENCY DRIVE FOR PULP MILL (WITHOUT PANEL)

## SCOPE OF SUPPLY AND SERVICES

The scope of supply shall include supply of the new drive unit, operating and maintenance instructions, test certificates and programming and trial test at site of AC variable frequency drives for the motor ratings indicated.

**Kw: 15 RPM: 1500**

### Variable Frequency Drive

Variable Frequency Drives shall be fully digital type microprocessor based, vector control

- a) Capacity : 15 KW (Heavy Duty)
- b) Input : 415V  $\pm$  10%, 3 Phase, 3 wire
- c) Frequency : 50Hz  $\pm$  5%
- d) Fundamental power factor : Approximately 0.98
- e) Output voltage : 3 Ph, 0 to maximum input voltage
- f) Analogue inputs (Current signal) : 4 to 20 mA Preferably 2 AIs (Programmable)
- g) Analogue outputs (Current signal) : 4 to 20 mA Preferably 2 AOs (Programmable)
- h) Operating control panel : Alphanumeric LCD display in plain English text indication of operating parameters / fault diagnostic indication and the following operations should be included:
  - i) Parameter settings : Digital parameter setting through soft touch key pad. Dip switches / selector switches not acceptable
  - j) Relay outputs : Preferably 2 nos. potential free relay outputs for Wiring to the existing panel.
  - k) Protection : Motor overheat protection, Motor single phasing protection, Momentary over-current protection, Overload protection, Over-voltage protection, Under voltage protection, Heatsink overheat, Braking resistance overheat protection, Stall prevention, Ground fault protection.

### Scope of supply

- i. VFD rated for line drive application.
- ii. Protections if any required for the drive other than semiconductor fuse.



- iii. Isolation if required for analog inputs and outputs.
- iv. Assistance for commissioning of the drive

The VFD shall be operated in two modes namely 'DCS' and 'Local'. In DCS mode, starting of drive shall be from DCS via digital input and speed reference is given by 4-20mA signal from DCS. In Local mode, drive shall be started and stopped from panel using push bottom, speed is varied by two push-button (one speed up push-button another speed down push-button).

Speed and current feedback shall be given as analog output 4-20mA to DCS. Necessary isolation for the analog input and output are to be provided by the bidder if required. Three potential free relay output for RUN, TRIP and READY are to be available in the drive module.

The VF drive shall be suitable for installation at a maximum distance of 200 m from the motor

**Special Notes:**

1. The model nos. & ratings of the VFDs offered should be properly stated in the offer.
2. The technical specifications of the offered VFDs should be given in detail.
3. The product catalogue showing complete technical specification of the VFD offered should be enclosed with technical bid.
4. Variable Frequency Drive offered should be designed with Input Voltage rating: 415Volts, 3Phase, 50Hz with a voltage variation of  $\pm 10\%$  on voltage and  $\pm 5\%$  on frequency.
5. Ambient temperature: 45 deg Celsius & Relative Humidity of 95%.The offered drive shall be suitable for existing motors with class B insulation.
6. The drive shall be suitable for all motors having starting torque of about 200% of rated torque or higher at starting.
7. One set each of Instruction – Configuration manuals (hard copy) to be supplied along with the drive.
8. All card used in VFD should be conformal coated.
9. The test certificates of the VFD to be submitted along with dispatch intimation of panel.

**Performance Guarantee:** Supplier shall provide performance guarantee for the drive including all components of drive(if any extra component is mandatory for providing warranty that also be included in the list of supply) for 12 months from the date of commissioning or 18 months from the date of despatch.

**Make of VFD: ABB, L&T, Yashkawa, Siemens or any reputed make with proven industrial track record in Pulp and Paper sector. KPPL shall be free to select the make/supplier based on the credentials stipulated.**

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## **CONDITIONS OF TENDER**

1. **Price** : It should be quoted item-wise with tax, duties etc. In case packing and forwarding charges are involved the same should be shown separately, if not it will be treated as inclusive. The rates quoted should be in words and figures invariably
2. **Excise Duty, Cess & GST** (a) : Taxes should be shown separately, wherever applicable  
(b) : Rates of taxes should be clearly indicated.  
(c) : Excise duty & cess payable should be indicated separately with rates of duty/cess.  
(d) : Other taxes should also be shown separately.  
(e) : MODVAT is not applicable for our purchase.

**Note** (a): If duty/cess and taxes are not shown specifically it will be assumed that the rates quoted are inclusive of the same for all purpose. However in the event of an order arising out of the offer, break-up of taxes and duties to be shown separately in the invoice.

(b) : In case you are a SSI Unit/ Khadi and village industry, the same may be indicated with registration number and copy of the certificate.

3. **Basis of price** : The price should be quoted indicating either F.O.R Dispatching station or F.O.R Destination basis. If no specific mention is made in your offer, price will be treated as FOR Destination.
4. **Validity of offer** : The tenders should be valid for a minimum period of 60 days from the due date.
5. **Delivery period** : A firm delivery date/period should be indicated. Delivery period reckoned shall be treated from the date of release of purchase order.
6. **Firm price** : In the event of order price shall be firm till complete execution of the order.
7. **Payment terms** : Our payment term is within 30 days after receipt subject to acceptance of materials. Offers with other payment terms is liable to the rejected/cost loaded.
8. **Correction and errors** : Quotation should be free corrections and errors.
9. **Technical details of offer** : Manufacturers name, country of origin and brand/make of the materials offered must be clearly specified. Complete/detailed illustrated, literature must accompany all quotations.
10. **I.S Marking** : Contracts as a result of this tender enquiry will be only for stores having I.S. marking and in case I.S. marked articles are not available ,stores strictly confirming to IS specification will be preferred.
11. **Penalty for Delay :** Penalty shall be imposed in the form of Liquidated damages at the rate of 0.5% per week or part thereof of the value of the goods for the delayed period beyond the stipulated delivery date in the order duly accepted by vendor. This recovery will be limited to 10% of value of goods without prejudice to the purchaser's other rights.
12. **Rights of acceptance or rejection of tender:** KPPL does not bind itself to accept the lowest or any tender or assign any reason for non acceptance. It further reserves the right to accept any tender wholly or in part at its option. It also reserves to itself the right to take 25% more/less of material on any orders placed against this enquiry.
13. **Acceptance of Full/part quantity** : Tenders should clearly mention whether the prices hold good when full quantity of enquiry is not ordered but only a part of it. Unless otherwise mentioned, it would be assumed that the rates hold good even for lesser quantities.
14. **Vendors Registration No.** : Please indicate in your quotation the registration No. allotted by us and its validity, if any.
15. **Non submission of offer:** :In case you are unable to submit the offer against this tender, please send a regret letter to that effect.
16. **Price Evaluation.** : Price evaluation shall be based on the terms and conditions mentioned in the tender. In case of any deviations in the terms and conditions or in the technical specifications or in any other requirement, the company reserves the right to reject the submitted bids or do the price evaluation based on the impact of deviations in the bids, if any.
17. **Submission of offer** The offers should be submitted by e-mail in PDF format indicating our Inquiry No and due date to [tenders@kpplonline.in](mailto:tenders@kpplonline.in), before due date.