



CEMENT CORPORATION OF INDIA LIMITED

(A Govt. of India Enterprise)

An ISO 9001:2015 Certified Company

GSTIN No. 18AAACC0949B1Z3

Bokajan Cement Factory - 782 490

Dist. Karbi Anglong :: Assam

Phone 03675 - 246106/246109, Fax No. 03675-246107

E-mail ID: bokajanmm01@gmail.com & bokajacement@gmail.com



Tender No. BKJ/MM/HT APFC Panel/E-4262/24-25

Date: 24.09.2024

Due on: 10.10.2024

Dear Sir [s']

Please submit your most competitive offer for following as per terms and conditions given below/overleaf. You may depute your representative for attending the tender opening which will be made as 3.30 p.m. on the date in the Material Management Department.

Sl. No.	Material Code	Description of item	Qty.
01.	2412510832	Design, Supply, Supervision of Installation and Commissioning of HT APFC panel, outdoor type (450 kVAR) for HT Feeder in 33/11 KV Switch yard/Sub-Station, 11kV MV fixed capacitor bank (outdoor type), 3ph 3W 50Hz with 6% serious dry type aluminum wound serious reactor and per step RVT as per attached annexure I & II as F.O.R Bokajan alongwith 3 Core XLPE Cable 30 Mtrs with both side termination Kit and 11 kV, 1250 Amp. 26 kA for 1 sec. outdoor Vacuum Circuit Breaker with structure Make: Unistar, Jyoti, L&T,EPCOS, SHARDA,ABB	01 Set

Note: Please furnish your GSTIN & HSN Code of the material in the offer.

Delivery: -

Shall be made from ready stock (OR) in the shortest possible period within 8-10 Weeks.

1. Please submit your offer through e-tender mode.
2. Your offer should be valid for Minimum 120 days
3. Prices: FOR: Bokajan Basis strictly allowed only & Discount offered may please be indicated.
4. Payment: As per tender terms & conditions in Annexure X.
5. EMD: 31,120/-

HOD(MM)

LIST OF ANNEXURES

	Part-I - Instruction to tenderers
	Part-II General terms & conditions
Annexure-I	Covering letter
Annexure-III	Declaration that the officer of the Corporation are related to us/me
Annexure-IV	Unexecuted/ Present Contracts/Jobs in hand
Annexure-V	Additional information
Annexure-VI	Details of plant and machinery installed
Annexure-VII	Details of testing facility installed
Annexure-VIII	Details of orders executed including CCI during last three years
Annexure-IX	Declaration letter
Annexure-X	Part-III – Special Terms and Conditions
Annexure-XI	Part-IV- Technical Specification
Annexure-XII	Price Bid Performa

Note: - Part-I – Instruction to tenderers, Part-II General terms & conditions, all formats and submit the same along with Annexure-9 which is available in CCI web site www.ccilttd.in must be submitted by tenderer duly filled & signed.



Cement Corporation of India Limited

Bokajan Cement Factory-782 490

Dist. Karbi Anglong, Assam

E-mail: bokajancements@gmail.com

[Website:www.ccilttd.in](http://www.ccilttd.in)

Important instructions for E-Procurement

This is an E-Procurement event of CEMENT CORPORATION OF INDIA. The e-procurement service provider is NIC-Central Public Procurement Portal, New Delhi-110003

You are requested to read the terms & conditions of this tender before submitting your online tender. Tenderers who do not comply with the conditions with documentary proof (wherever required) will not qualify in the Tender for opening of price bid.

Process of E-tender :

Registration:

1. The process involves vendor's registration with tender wizard e-procurement portal. Only after registration, the vendor(s) can submit his/their bids electronically. Electronic Bidding for submission of Techno-Commercial Bid as well as Price Bid over the internet will be done. The Vendor should possess Class III signing type digital certificate. Vendors are to make their own arrangement for bidding from a P.C. connected with Internet. NIC-CPPP is not responsible for making such arrangement. (Bids will not be recorded without Digital Signature).

SPECIAL NOTE: THE PRICE BID AND THE COMMERCIAL BID HAS TO BE SUBMITTED ON-LINE AT www.etenders.gov.in .

1).Vendors are required to register themselves online with www.etenders.gov.in Register as Vendor Filling up details and creating own user id and password→ Submit.

2).Vendors will receive a system generated mail confirming their registration in their email which has been provided during filling the registration form. In case of any clarification, please contact CCI/NIC-CPPP portal, (before the scheduled time of the e-tender).

Contact person (Cement Corporation of India):

1. HOD (MM)

CCI, Bokajan Cement Factory,

Bokajan, Dist: Karbi Anglong Assam-782490

Contact No.: 8897856954

E-mail : bokajanmm01@gmail.com

2. HOD (E&I)

CCI, Bokajan Cement

Factory, Bokajan, Dist: Karbi

Anglong Assam-782490,

M: 8287932783.

E.mail:bkjelectrical@gmail.com

- A)** Help Desk (NIC-CPPP):(E-commerce):

For any technical related issue please call (24 X 7) 0120- 4001002 / 005

➤ 0120 – 6277787

B) System Requirement:

Windows 8,10 professional Operating System, internet browser-9,10 and 11 Signing

	<p>type III digital signature Java JRE 6 and above</p> <p>The vendors are advised to go through the <u>Help Manual</u> LINK at etenders.gov.in/eprocure/app for general guidance about tender process.</p>
2.	<p>(A) Part I Techno-Commercial bid will be opened electronically on specified date and time as given in the NIT. Bidder(s) can witness electronic opening of bid.</p> <p>(B) Part II Price bid will be opened electronically of only those bidder(s) whose Part I Techno-Commercial Bid is found to be Techno-Commercially acceptable by CCI. Such bidder(s) will be intimated date of opening of Part II Price bid, through valid email confirmed by them.</p> <p>Note: The tenderers are advised to offer their best possible rates. There would generally be no negotiations hence please submit your most competitive prices while submitting the price bid. However, in case the lowest rate appears to be reasonable taking into account the prevailing market conditions, the order may be awarded to the lowest bidder and if the rate is still considered high, action as per prevailing instruction/guideline shall be taken.</p>
3.	All entries in the tender should be entered in online Technical & Commercial Formats without any ambiguity.
4.	In case of failure to access the payment towards cost of tender document & EMD for any reason, the vender, in term, will not have the access to on line e-tender and no correspondence in this respect will be entertained and CCI will not be responsible for any such lapses on this account. Bidder(s) are advised to make remittance of tender fee and EMD through Online well in advance and verify completion of transaction in respect of tender fee and EMD. Vendors are instructed to upload documents in document library. Multiple documents can be uploaded. Maximum size of single document for upload is 5 MB. Once documents are uploaded in the library, vendors can attach documents through <i>Attach Document</i> link against the particular tender. For further assistance please follow instructions of Vendor Help Manual.
5.	All notices and correspondence to the bidder(s) shall be sent by email only during the process till finalization of tender by CCI. Hence the bidders are required to ensure that their corporate email I.D. provided is valid and updated at the stage of registration of vendor with Tender wizard (i.e. Service Provider). Bidders are also requested to ensure validity of their DSC (Digital Signature Certificate).
6.	The responsibility of downloading the related corrigenda, if any, will be that of the responsibilities of the parties.
7.	E-tender cannot be accessed after the due date and time mentioned in NIT.
8.	<p><u>Bidding in e-tender:</u> Bidding in e-tender & Reverse auction:</p> <p>a) Bidder(s) need to submit necessary EMD and Tender fees (If ANY) to be eligible to bid online in the e-tender. Tender fees are non-refundable. No interest will be paid on EMD. EMD of the unsuccessful bidder(s) will be refunded by CCI.</p> <p>b) The process involves Electronic Bidding for submission of Techno Commercial Bid as well as Price Bid is explained in Help Manual.</p> <ul style="list-style-type: none"> • In all cases, bidder should use their own ID and Password along with Digital Signature at the time of submission of their bid. • During the entire e-tender process, the bidders will remain completely anonymous to one another and also to everybody else. <p>c) The e-tender floor shall remain open from the pre-announced date & time and for as much duration as mentioned above.</p> <p>d) All electronic bids submitted during the e-tender process shall be legally binding on the bidder. Any bid will be considered as the valid bid offered by that bidder and acceptance of the same by the Buyer will form a binding contract between Buyer and the Bidder for execution of supply. Such successful tenderer shall be called hereafter supplier.</p>

	<p>e) It is mandatory that all the bids are submitted with digital signature certificate otherwise the same will not be accepted by the system. Buyer reserves the right to cancel or reject or accept or withdraw or extend the tender in full or part as the case may be without assigning any reason thereof.</p> <p>f) No deviation of the terms and conditions of the tender document is acceptable. Submission of bid in the e-tender floor by any bidder confirms his acceptance of terms & conditions for the tender.</p> <p>g) Unit of Measure (UOM) is indicated in the e-tender Floor. Rate to be quoted should be in Indian Rupee as per UOM indicated in the e-tender floor/tender document.</p>
9.	Any order resulting from this open e-tender shall be governed by the terms and conditions mentioned therein.
10.	No deviation to the technical and commercial terms & conditions are allowed.
11.	After submitting online bid, the bidder cannot access the tender, once it has been submitted with digital signature.
12.	CCI has the right to cancel this e-tender or extend the due date of receipt of bid(s) without assigning any reason thereof.
13.	The online tender should be submitted strictly as per the terms and conditions and procedures laid down in the website etenders.gov.in/eprocure/app of NIC-CPPP.
14.	The bidders must upload all the documents required as per terms of NIT. Any other document uploaded which is not required as per the terms of the NIT shall not be considered.
15.	The bid will be evaluated based on the filled-in technical & commercial formats.
16.	The documents uploaded by bidder(s) will be scrutinized. In case any of the information furnished by the bidder is found to be false during scrutiny, EMD of defaulting bidder(s) will be forfeited. Punitive action including suspension and banning of business can also be taken against defaulting bidders.
17.	Bidders are requested to read the vendor Help Manual in the home page etenders.gov.in/eprocure/app to familiarize themselves with the system before bidding.



Cement Corporation of India Limited

Bokajan Cement Factory-782 490

Dist. Karbi Anglong, Assam

Phone 03675-246106/246108, Fax No. 03675-246107

E-mail: bokajancements@gmail.com

[Website:www.ccilttd.in](http://www.ccilttd.in)

Annexure: X

PART-III: SPECIAL TERMS AND CONDITIONS

In addition to the General Terms and conditions of the tender Part- I & II the following Special terms and conditions also apply to the contract for the supply of above category of material. These special terms and conditions if contradictory to any of the conditions given in Part-I, II & IV shall prevail upon the conditions given therein:-

1.0 GENERAL TERMS & CONDITIONS:

- 1) Supply, supervision of erection and commissioning of HT APFC panel (450 kVAR) will be under the scope of supplier
- 2) Detail specification of all the individual accessories and components make, rating and other data should be provided with drawing.
- 3) List of panel mounted item with make and type etc. should be provided with drawing.
- 4) Digital input and output, Analog input & output should be provided as per standard norms of the panels.
- 5) Party should submit the work order in support of experience certificate wherever they supplied the same/related or above rated HT APFC panel (450 kVAR).
- 6) The tenderer should quote the item rates in accordance with items mentioned in the PRICE BID format.
- 7) The rates should be inclusive of all taxes, etc. where applicable, and shall be on firm quotation basis and shall be valid till the allotted work of HT APFC panel (450 kVAR) are completed.
- 8) If the HT APFC panel (450 kVAR) fails during guarantee period after installation, then the tenderer / supplier will have to replace the above items at his own cost and risk. If, however, the transportation is done by the Company, the charges of the same will be recovered from the tenderer / supplier.
- 9) The contractor shall be responsible for any damage caused to the HT APFC panel (450 kVAR) while carrying out installation. Any damage caused by the contractor is to be attended / repaired/ replaced by the party free of cost otherwise necessary amount will be deducted from the bill.
- 10) The contractor at his own cost can visit CCI site, before submitting their offer, if needed.

2.0 PAYMENT TERMS:

Sr. No.	Terms & Conditions of Payment after execution followed by bill submission
01	60% payment against satisfactory supply within 15 days plus Taxes on full.
02	30% payment against successful/ satisfactory installation and commissioning & load run within 30 days
03	10% payment shall be after successful completion of guarantee period (12 months).

- 3.0 **LIQUIDATED DAMAGES:** Liquidated damage in delay in completion of the work shall be levied @ ½% per fortnight or part thereof for the completion of work against time mentioned, subject to a maximum of 5% of the value of the order. The corporation will, however, not be bound to prove that it has suffered to the extent of the liquidated damages.
- 4.0 **PRICE:** The rates should be quoted in our prescribed Price Bid performa as per Annexure-XII indicating separately prices for different elements. Other conditions shall be same as per the clause 16 to 17 of Part II of documents.
- 5.0 **GUARANTEE / WARRANTY:** The tenderer shall stand guarantee/warranty towards the material used and workmanship for a period of 12 months from the date of installation/commissioning of the APFC panel at sub-station. If at any time during the guarantee period any deficiency is found to our requirement/specifications and/or don't meet the desired performance, tenderer to revise, modify, rectify and/or replace the design, engineering, as the case may be in a manner calculated by tenderer to make good, the deficiency or the unsatisfactory performance, at their own expense within a minimum time to be specified by CCI. In the event of tenderer not complying with the above within a reasonable time, the Corporation shall have the option to rectify, repair or replace the defective parts after expiry of two weeks' notice at your risk & cost.
- 6.0 **EARNEST MONEY DEPOSIT:** Rs. 31,120/- (Rupees Thirty One thousand One hundred twenty) only is to be furnished by to be paid through online (Debit Card/Credit Card/Net Banking & NEFT/RTGS Challah) in favour of M/s. Cement Corporation of India Ltd., Bokajan payable at S.B.I., Bokajan (Banker's Code No. 2028).
- 7.0 **SECURITY DEPOSIT:** a) Successful tender(s) shall have to furnish a Security Deposit equivalent to @ 5% (five percent) value of the order calculated on total value of order i.e. basic price plus taxes duties and freight by way of demand draft / bank guarantee from any nationalized bank (in CCI's format) in terms of clause 2 of part-II of the tender documents towards satisfactory performance of the contract. Security deposit is to be submitted at respective unit.
- b) Security Deposit shall be released within three months after completion of supplies and acceptance of material by the respective unit.
- 8.0 **PAYING AUTHORITY – HOD (FIN),** Unit Bokajan Cement Corporation of India Ltd.
- 9.0 **DELIVERY PERIOD/SCHEDULE :**
Delivery of the HT APFC panel will be within 90 days.
- 10.0 **DURATION OF CONTRACT / COMPLETION OF WORK :**
The work shall be completed within 45 days from the date of receipt of HT APFC panel (450 kVAR) and Controller at CCI-Bokajan.
- 11.0 **INSPECTION/ TESTING:**
Inspection call shall be accompanied with internal test report, 10 working days in advance intimation shall be provided for inspection of equipment.

12.0 **DISPATCH DOCUMENTS:**

All invoices/dispatch documents shall be in the name of:
M/s. Cement Corporation of India Ltd.
P.O. Bokajan
Dist. Karbi Anglong Assam-782490.

- a) Invoice giving details of item dispatch with price along with copy of LR. The purchase order number and date are to be clearly indicated.
- b) Material Dispatch clearance Certificate from CCI.
- c) Separate packing lists
- d) Test certificate, inspection certificate or waiver issued by CCI.
- e) Intimation letter to insurance during transit.

13.0 **TRANSPORTATION:** To be borne by the supplier.

14.0 **TAXES:**

- a) Should submit GST certificate. GST amount will be reimbursed on the basis of GSTR-2A report. In case non-filing of GSTR-1 return or wrong filing, the amount equivalent to GST will be deducted from party.
- b) Should submit PAN of firm/company

Signature of Tenderer



Cement Corporation of India Limited

Bokajan Cement Factory-782 490

Dist. Karbi Anglong, Assam

Phone 03675-246106/246108, Fax No. 03675-246107

E-mail: bokajacement@gmail.com

[Website:www.ccilttd.in](http://www.ccilttd.in)

Annexure-XI

PART-IV : TECHNICAL TERMS AND CONDITIONS

1.0 SCOPE OF WORK:

Design, Supply, Supervision of Installation and Commissioning of HT APFC panel ,outdoor type (450 kVAR) for HT Feeder in 33/11 KV Switch yard/Sub-Station.

1.1 SPECIFICATION OF APFC PANELS:

Technical Specification of APFC panel of 01 set. (450 kVAR) and material items for scope of supply mentioned below in details.

SCOPE OF SUPPLY:

A. Technical Data Sheet : 450 KVAR ,11KV HT APFC Capacitor Bank:

Sr. No.	Particulars	Specification
01	Make	Unistar, Jyothi, L&T,EPCOS, SHARDA, ABB
02	Operating Type	Automatic
03	Nominal System Voltage	11 kV
04	Maximum operational Voltage	12.87 kV
05	Frequency	50 Hz.
06	No. of Phase.	3 ph.
07	Rating of APFC Capacitor Bank	450 KVAR, 11 kV, 3 Ph.
08	Total stage & Stage configuration	Total Stage - 3 stage Stage Configuration 1 st Stage – 200 kVAR, 11 kV, 3 Ph. 2 nd stage – 150 kVAR, 11 kV, 3 Ph. 3 rd Stage – 100 kVAR, 11 kV, 3 Ph.

Capacitor Bank Step Details				
01	Banking Voltage	11 kV		
02	Bank kVAR	200 kVAR	150 kVAR	100 kVAR
03	Current in Amps.	10.50 Amp.	7.87 Amp.	5.25 Amp.
04	No. of Ph.	3 Ph		
05	BIL	28 kV / 75 kVp		
06	No of units per step	3 Nos,	3 Nos.	3 Nos.
Banking Details				
01	Type of Bank	Outdoor Structure Mounted		
02	Connection	Single Star Connected		
03	Series group per phase	1		
04	Bus Bar Material	Aluminum		
05	Basic Insulation Level a. Power frequency test voltage b. Impulse test voltage	28 kV rms 75 kV peak		

A. Capacitor Unit :

i) Technical Data Sheet –

for 200 kVAR,11 kV HV Capacitors Bank-Capacitor Unit: 66.67 KVar/Phase 6.35KV

Sr. No.	Description	Technical Data
01	Manufacturer & Make	Unistar, Jyothi, L&T,EPCOS, SHARDA,ABB
02	Reference	IS 13925:2012
03	Type of Capacitor	APP type, hermetically sealed NPCB oil cooled heavy duty HT Capacitor.
04	Rated Output (kVAR)	66.67 kVAR
05	Rated Voltage (kV)	11 kV Ac
06	Nominal System Voltage	11 kV
07	Maximum operational Voltage	12.87 kV
08	Rated Current (Amp.)	10.50 Amp.
09	Rated Capacitance (μF)	5.26 μF
10	Frequency (Hz)	50 Hz
11	Connection	Single Phase (1ø) Double bushing
12	Protection	Internal Fuse
13	Discharge Resistors	Internal Discharge Resistors Provided
14	Type of Foil Material	Aluminum Foil (99.9% Purity)
15	Impregnant	Non-toxic, NPCB Oil
14	Type of Dielectric	All Polypropylene (APP) type
16	Residual Voltage & Discharge time	75 Volt within 10 minutes
17	Dielectric loss	0.15 w/ kVAR
18	Temp. Cat.	50° C +/- 5° C

19	Max permissible over voltage	110% of rated voltage for 12 hrs. in a day of 24 hrs
20	Max. over current	130% of rated current
21	Inrush Current	100 times to the rated current for fraction of sec.
22	Humidity	Less than 95% RH
23	Altitude	1000 meter above sea level
24	Installation	Outdoor
25	Basic Insulation Level a. Power frequency test voltage b. Impulse test voltage	28 kV rms 75 kV peak

A. Capacitor Unit

ii) Technical Data Sheet –

for 150 Kvar, 11kV HV Capacitors Bank -Capacitor Unit :50 Kvar/per phase 6.35 KV

Sr. No.	Description	Technical Data
01	Manufacturer & Make	Unistar, Jyothi, L&T,EPCOS, SHARDA,ABB
02	Reference	IS 13925:2012
03	Type of Capacitor	APP type, hermetically sealed NPCB oil cooled heavy duty HT Capacitor.
04	Rated Output (kVAR)	50 kVAR
05	Rated Voltage (kV)	11 kV Ac
06	Nominal System Voltage	11 kV
07	Maximum operational Voltage	12.87 kV
08	Rated Current (Amp.)	7.87 Amp.
09	Rated Capacitance (µF)	3.95 µF
09	Frequency (Hz)	50 Hz
10	Connection	Single Phase (1Ø) Double bushing
11	Protection	Internal Fuse
12	Discharge Resistors	Internal Discharge Resistors Provided
13	Type of Foil Material	Aluminum Foil (99.9% Purity)
14	Impregnant	Non-toxic, NPCB Oil
15	Type of Dielectric	All Polypropylene (APP) type
16	Residual Voltage & Discharge time	75 Volt within 10 minutes
17	Dielectric loss	0.15 w/ kVAR
18	Temp. Cat.	50° C +/- 5° C
19	Max permissible over voltage	110% of rated voltage for 12 hrs. in a day of 24 hrs
20	Max. over current	130% of rated current
21	Inrush Current	100 times to the rated current for fraction of sec.
22	Humidity	Less than 95% RH
23	Altitude	1000 meter above sea level

24	Installation	Outdoor
25	Basic Insulation Level a. Power frequency test voltage b. Impulse test voltage	28 kV rms 75 kV peak

iii) Technical Data Sheet –

for 100 kVAR, 11kV HV Capacitors Bank- Capacitor Unit: 33.33 Kvar /Phase, 6.35 KV

Sr. No.	Description	Technical Data
01	Manufacturer & Make	Unistar, Jyothi, L&T, EPCOS, SHARDA, ABB
02	Reference	IS 13925:2012
03	Type of Capacitor	APP type, hermetically sealed NPCB oil cooled heavy duty HT Capacitor.
04	Rated Output (kVAR)	33.33 kVAR
05	Rated Voltage (kV)	11 kV Ac
06	Nominal System Voltage	11 kV
07	Maximum operational Voltage	12.87kV
08	Rated Current (Amp.)	5.25 Amp.
09	Rated Capacitance (µF)	2.63 µF
10	Frequency (Hz)	50 Hz
11	Connection	Single Phase (1Ø) Double bushing
12	Protection	Internal Fuse
13	Discharge Resistors	Internal Discharge Resistors Provided
14	Type of Foil Material	Aluminum Foil (99.9% Purity)
15	Impregnant	Non-toxic, NPCB Oil
16	Type of Dielectric	All Polypropylene (APP) type
17	Residual Voltage & Discharge time	75 Volt within 10 minutes
18	Dielectric loss	0.15 w/ kVAR
19	Temp. Cat.	50° C +/- 5° C
20	Max permissible over voltage	110% of rated voltage for 12 hrs. in a day of 24 hrs
21	Max. over current	130% of rated current
22	Inrush Current	100 times to the rated current for fraction of sec.
23	Humidity	Less than 95% RH
24	Altitude	1000 meter above sea level
25	Installation	Outdoor
26	Basic Insulation Level a. Power frequency test voltage b. Impulse test voltage	28 kV rms 75 kV peak

B) Series Reactor :

i) Technical Data Sheet –

for 200 kVAR 11 kV HV Capacitors Bank- Series Reactor : 0.13KVar,11KV

Sr. No.	Particulars	Technical Data
1	Make	Unistar, Jyothi, L&T,EPCOS, SHARDA,ABB
2.	Reference standard	ISS 2026-6
3.	Type of Reactor	Dry type, post insulator mounted, Epoxy resinImpregnant
4.	Core type	Air Core
5.	Winding Material	Aluminum
7.	Percentage of reactor	0.2%
8.	Rated Voltage & Frequency ,phase	11 kV, 50Hz, 1 Ph.
9.	Nominal System Voltage	11 kV
10.	Maximum operational Voltage	12.87kV
11.	Rated output, KVAR	0.13 kVAR
12.	Rated current, Amp	10.50 Amp.
13.	Reactance	0.12 ohm
14.	Max. Continuous current	130% of rated current
15.	Temperature rise &	Max.90° C by Resistance method
16	Class of insulation	‘F’ (155° C)
17.	Rated short time symmetrical RMS Current	16.66 times at rated current/2 sec.
18.	Installation	Outdoor Structure mounted
19	Terminal	Both side at incoming & outgoing by Aluminum Busbar.
20.	Basic Insulation level i) Power frequency withstand voltage kVrms ii) Impulse withstand voltage (kVP)	28 kV rms 75 kVp

B) Series Reactor :

ii) Technical Data Sheet –

for 150 kVAR 11 kV HV Capacitors Bank- Series Reactor : 0.1 KVar, 11KV

Sr. No.	Particulars	Technical Data
1	Make	Unistar, Jyothi, L&T,EPCOS, SHARDA,ABB
2.	Reference standard	ISS 2026-6
3.	Type of Reactor	Dry type, post insulator mounted, Epoxy resin Impregnant
4.	Core type	Air Core
5.	Winding Material	Aluminum
7.	Percentage of reactor	0.2%
8.	Rated Voltage & Frequency ,phase	11 kV, 50Hz, 1 Ph.
9.	Nominal System Voltage	11 kV
10.	Maximum operational Voltage	12.87kV
11.	Rated output, KVAR	0.1 kVAR
12.	Rated current, Amp	7.87 Amp.
13.	Reactance	0.16 ohm
12.	Max. Continuous current	130% of rated current
13.	Temperature rise &	Max.90° C by Resistance method
14.	Class of insulation	‘F’ (155° C)
15.	Rated short time symmetrical RMS Current	16.66 times at rated current/2 sec.
16.	Installation	Outdoor Structure mounted
17.	Terminal	Both side at incoming & outgoing by Aluminum Busbar.
18.	Basic Insulation level i) Power frequency withstand voltage kVrms ii) Impulse withstand voltage (kVP)	28 kV rms 75 kVp

B) Series Reactor :

iii) Technical Data Sheet –

for 100 kVAR 11 kV HV Capacitors Bank-- Series Reactor : 0.06 KVar, 11KV

Sr. No.	Particulars	Technical Data
1	Make	Unistar, Jyoti, L&T,EPCOS, SHARDA,ABB
2.	Reference standard	ISS 2026-6
3.	Type of Reactor	Dry type, post insulator mounted, Epoxy resinImpregnant
4.	Core type	Air Core
5.	Winding Material	Aluminum
7.	Percentage of reactor	0.2%
8.	Rated Voltage & Frequency ,phase	11 kV, 50Hz, 1 Ph.
9.	Nominal System Voltage	11 kV
10.	Maximum operational Voltage	12.87kV
11.	Rated output, KVAR	0.06 kVAR
12.	Rated current, Amp	Upto 10 Amp.
13.	Reactance	2.18 ohm
14.	Max. Continuous current	130% of rated current
15.	Temperature rise &	Max.90° C by Resistance method
16.	Class of insulation	‘F’ (155° C)
17.	Rated short time symmetrical RMS Current	16.66 times at rated current/2 sec.
18.	Installation	Outdoor Structure mounted
19.	Terminal	Both side at incoming & outgoing by Aluminum Busbar.
20.	Basic Insulation level i) Power frequency withstand voltage kVrms ii) Impulse withstand voltage (kVP)	28 kV rms 75 kVp

C. Breaker: 11 kV, 1250 Amp. 26 kA for 1 sec. outdoor Vacuum Circuit Breaker with structure

Note:

- The party has to supply free of cost any other items which is not included in the above list.
- Party has to provide bill of quantity (BOQ).
- Pls. include the any other items for above job which are not mentioned here but required to make HT APFC panel.
- Party may clarify Technical details in Pre-Bid meeting as per our requirement.



Cement Corporation of India Limited

Bokajan Cement Factory-782 490

Dist. Karbi Anglong, Assam

Phone 03675-246106/246108, Fax No. 03675-246107

E-mail: bokajancements@gmail.com

[Website:www.ccilttd.in](http://www.ccilttd.in)

ANNEXURE-XII

Tender No. : BKJ/MM/HT APFC Panel/24-25

Dated: 24.09.2024

PRICE – BID

Sub: Design, Supply, Supervision of Installation and Commissioning of HT APFC panel, outdoor type (450 kVAR) for HT Feeder in 33/11 KV Switch yard/Sub-Station.

Sl. No.	<u>DESCRIPTION OF JOB</u>	<u>QTY</u>	<u>Quoted Rate without GST (FOR Bokajan)</u>
1	Design, Supply, Supervision of Installation and Commissioning of HT APFC panel, outdoor type (450 kVAR) for HT Feeder in 33/11 KV Switch yard/Sub-Station, 11kV MV fixed capacitor bank (outdoor type), 3ph 3W 50Hz with 6% serious dry type aluminum wound serious reactor and per step RVT as per attached annexure I & II as F.O.R Bokajan alongwith 3 Core XLPE Cable 30 Mtrs with both side termination Kit and 11 kV, 1250 Amp. 26 kA for 1 sec. outdoor Vacuum Circuit Breaker with structure Make: Unistar, Jyoti, L&T,EPCOS, SHARDA,ABB	01 set	RS. _____
2	Total amount		RS. _____
3	Payment Terms: (As per tender T&C)		-
4	Validity Period: (As per tender T&C)		-
5	Delivery Period: (As per tender T&C)		-

Note:

1) L1 will be decided on overall lowest landed cost basis. GST applicable will be paid to the party on actual basis.

Signature of Tenderer :

Name of the Signatory :

Designation :

Name of the Party :

Place :

Date:.....

SEAL