



**ESI-PGIMSR, ESIC MEDICAL COLLEGE &
EMPLOYEE'S STATE INSURANCE CORPORATION HOSPITAL & ODC (EZ)**
(A Statutory Body Under Ministry of Labour, Govt. of India)
DIAMOND HARBOUR ROAD, P.O.: JOKA, KOLKATA-700 104
An ISO 9001:2008 Certified
Fax: 033 2467 2795, Phone: 033 2467 2799 / 6280 / 1764

E-TENDER NO. /2018

Tender No. 412.W.11/17/ESIC/Elec/computer DG/97 HK

Dated: 26.10.2018

Sub: Invitation of E-tender for Supply, Installation, Testing and commissioning of two in nos. 1600 KVA (33KV/433V) Transformer, Indoor Type with Accessories at ESIC Medical College & Hospital Joka.

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Tender No. 412.W.11/17/ESIC/Elec/computer DG/97 HK

Date: 26.10.2018

NOTICE INVITING FOR -E-TENDER
TENDER NO. /2018

Dean invites online e-tender for supply, installation, testing & commissioning of 1600 KVA (33KV/433V) Transformer, Indoor Dry type with accessories at ESIC Hospital Joka, through e-procurement portal of ESIC-<https://esictenders.eproc.in>. The tenderer should ensure that they fulfill all the terms and conditions as specified in the tender documents prior to final submission of bid.

Bidding documents along with complete terms and conditions may be viewed online or downloaded from website-www.esic.nic.in, www.eprocure.gov.in, www.esi-pgimsrkolkata.org.in, <https://esictenders.eproc.in> & www.esichospitals.gov.in/Kolkata-joka-home

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All the bidders are requested to check further notifications/updates if any on ESIC website-www.esic.nic.in, www.eprocure.gov.in, www.esi-pgimsrkolkata.org.in, www.esichospitals.gov.in/kolkata-joka-home & e-procurement portal of ESIC- <https://esictenders.eproc.in>.

It is mandatory for all tenderers to submit online tender documents within stipulated time, failing which the tender is liable to be rejected. Firms debarred by ESIC for participation need not apply.

Further any notification /clarification/update (if any), will only be circulated through website i.e. www.esic.nic.in, www.eprocure.gov.in, www.esi-pgimsrkolkata.org.in, www.esichospitals.gov.in/kolkata-joka-home & e-procurement portal of ESIC- <https://esictenders.eproc.in>

Dean reserves the right to reject any or all tender without assigning any reason whatsoever.

Sd-
Dean



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E-TENDER NO. /2018

Tender No.No.412.W.11/17/ESIC/Elec/Computer DG/97 HK

Dated: 26.10.2018

Sub: Invitation to Open E- Tender for Supply, installation , testing and commissioning Two in nos. of 1600 KVA (33 KV/433 V) transformer, Indoor Dry type with all accessories at ESIC Medical College & Hospital Joka.

From:

**The Dean,
ESIC Hospital & O.D.C. (E.Z),**

**Diamond Harbour Road,
P.O.: Joka, Kolkata: 700 104.**

To:

Sir(s),

The Dean invites open e-tender for Supply, Installation, testing & commissioning of of 1600 KVA (33 KV/433 V) transformer, indoor Dry type with accessories. The "**Tender Documents**" comprising the General Terms and Conditions of Contract (Annexure D) and the Special Terms and Conditions of Contract (Annexure F) which will govern any contract made, the Tender Application Form (Annexure G), specifications of items/plant (Annexure J), and the Schedule of contract/proforma for quoting rates (Annexure-K) are enclosed herewith. If you are in a position to quote for the contract in accordance with the requirements stated in the attached schedule as per the terms and conditions stated, please submit your quotation to this office.

E-Tenderers are requested that, before quoting their rates or filing tender, the tender form may please be read out thoroughly (line by line), otherwise purchaser will not be held responsible for any error / oversight of his own.

The form is a Standard Form of e-Tender. Certain clause /clauses may not be applicable in some cases. So, e-Tenderers are requested to ignore such clause /clauses, which are not applicable in the instant case.

All the payment shall be made by **Demand Draft** drawn in favour of **ESI Fund A/c No.1, payable at kolkata; Cheques/cash will not be accepted.**

If any modification of the schedule is considered necessary same will be updated of following; website- www.esic.nic.in, www.eprocure.gov.in www.esi-pgimrskolkata.org.in , www.esichospitals.gov.in/kolkata-joka-home & e-procurement portal of ESIC- <https://esictenders.eproc.in>

Dean, ESIC Hospital & ODC (E.Z), Joka, does not pledge himself to accept the lowest or any e-tender and reserves the right of accepting or rejecting the whole or any part of the tender without assigning any reason thereof and you shall supply the same / execute the work at the rate quoted by you.

Acceptance by the e-Tenderer shall be communicated in due course. You are requested that the instructions contained in the said communication should be acted upon immediately / as asked for.

THE FIRM IS REQUESTED TO FOLLOW THE CHECK LIST AT THE TIME OF SUBMISSION OF E-TENDER DOCUMENT AND UPLOAD & SUBMIT THE DOCUMENTS,WITHOUT WHICH THE OFFER IS LIABLE TO BE CANCELLED

CHECK LIST/Eligibility Criteria		
1	Earnest Money Deposit by Demand Draft only	Uploaded & Submitted [Yes/No]
2	Valid Trade Licence	Uploaded & Submitted [Yes/No]
3	Valid Firm/Company Registration certificate	Uploaded & Submitted [Yes/No]
4	Certificate to the effect that the equipment quoted is not a refurbished one.Satisfactory performance Certificate from a Govt. Institution/ Reputed Institution for last three years	Uploaded & Submitted [Yes/No]
5	Specific authorization letter from manufacture for supply of equipment	Uploaded & Submitted [Yes/No]
6	PAN/TAN other statutory documents	Uploaded & Submitted [Yes/No]
7	IT returns for last years 2017-18	Uploaded & Submitted [Yes/No]
8	GST Registration Certificate.	Uploaded & Submitted [Yes/No]
9	Warranty Certificate two years	Uploaded & Submitted [Yes/No]
10	Valid Electrical contractor Liance.	Uploaded & Submitted [Yes/No]
11	Name & address of Service Centre in KOLKATA	Uploaded & Submitted [Yes/No]
12	Whether hard copies of uploaded tender documents have been deposited in tender box located near Medical Superintendent Office of ESIC Hospital Joka, before closing date and time.	[Yes/No]

Note: If valid trade licence constitutes/consists of more than one certificate/page then all pages are to be enclosed failing which tender is liable to be cancelled.

Enclosures:

- **Annexure – A (Tender Notice)**
- **Annexure – B (Tender Inviting)**
- **Annexure – C (Instruction of bidder)**
- **Annexure – D (General Tender Terms & Conditions)**
- **Annexure – E (Eligibility Criteria)**
- **Annexure – F (Special Tender Terms & Conditions)**
- **Annexure – G (Tender Application Form)**
- **Annexure – H (Contract Agreement)**
- **Annexure – I (Bank Gurrantee Profama)**
- **Annexure – J (specifications)**
- **Annexure – K (Price bid)**

Yours faithfully,

Dean



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E-TENDER NO. /2018

Tender No. 412.W.11/17/ESIC/Elec/computer DG/97 HK

Dated: : 26.10.2018

Sub: Invitation of E-tender for Supply, Installation, Testing and commissioning of 1600 KVA (33KV/433V) Transformer, Indoor Dry Type with all Accessories at ESIC Medical College & Hospital Joka.

Important Instructions for Bidders regarding Online Payment

All bidders/contractors are required to procure Class-IIIB Digital Signature Certificate (DSC) with Both DSC Components i.e. Signing & Encryption to participate in the ETenders.

Bidders should get Registered at <https://esictenders.eproc.in>.

Bidders should add the below mentioned sites under Internet Explorer -> Tools -> Internet Options -> Security -> Trusted Sites -> Sites of Internet Explorer :

<https://esictenders.eproc.in>
<https://www.tpsi-india.in>
<https://www4.ipg-online.com>

Also, Bidders need to select "Use TLS 1.1 and Use TLS 1.2" under Internet Explorer -> Tools -> Internet Options -> Advanced Tab -> Security.

Bidder needs to submit Bid Processing Fee charges of Rs. 2495/- (non-refundable) in favour of M/s. C1 India Pvt. Ltd., payable at New Delhi via Online Payment Modes such as Debit Card, Credit Card or NetBanking for participating in the Tender.

Bidders can contact our Helpdesk at <https://esictenders.eproc.in/html/Support.asp>



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Dated: : 26.10.2018.

GENERAL TERMS AND CONDITIONS

Period for submission of e-Tender form through e-procurement portal of ESIC- https://esictenders.eproc.in .	From. 29.10. 2018 to 19.11.2018 Upto 2.00 PM
Pre-Bid Meeting	
Last date and time for submission of e-tender	19.11 .2018 upto 2.00 PM
Date and time for opening of bid	19.11.2018 at 3.00 PM
Bid Security / Earnest Money	Rs. 1,04,079.00
Performance security / Security Deposit Money	A Sum equivalent to 10 % of the bill value

1. PREPARATION OF E- TENDER:

The e-Tenderer shall give full assistance and information as may be required in connection with the contract to the Dean or any other officer nominated by him to inspect the premises of the e- tenderer at all reasonable times.

2. SIGNING OF e-TENDER:

- a) The e-tender is liable to be rejected if complete information is not given therein or if the particulars and date (if any) asked for in the tender are not duly & fully filled in. Particular attention may be given to the dates of delivery and also to the particulars referred to in the conditions of contract so as to comply with them.
- b) Individuals signing e-tender or other documents connected with the contract must specify:
 - i) Whether signing as a 'Sole Proprietor' of the firm or his Attorney?
 - ii) Whether signing as a 'Registered Active Partner' of the firm or his Attorney?
 - iii) Whether signing for the firm 'Per Procreation'?

In the case of companies and firms registered under the Indian Partnership Act, the capacity in which signing e.g. Secretary, Manager, and Partner etc. or their attorney and produce copy of documents, empowering him to do so, if called upon to do so.

NOTE: In case of unregistered firms, all the members or all Attorneys duly authorised by all of them or the Manager of the firm should sign the tender and subsequent documents.

3. LATEST HOUR FOR RECEIPT OF THE E-TENDER:

E-Tender shall be submitted within the stipulated date and time. In the event of the stipulated date of opening of the tender being declared a closed holiday for Govt. Offices, the date of opening of the tender (s) will be the next working day.

4. Submission of Tender

I. TECHNICAL BIDS:

- a. TECHNICAL BIDS in one separate envelope, sealed, super scribed with the wordings "TECHNICAL BID".
- b. The original copy of tender duly completed and signed on each page, should be submitted/returned back, enclosed along with the "TECHNICAL BID".
- c. The "Technical Bid shall contain Earnest Money in the form of demand drafts as prescribed herein and all the technical details & documents along with commercial terms and conditions in support of the quoted service.
- d. The Earnest Money Deposit (EMD) should be submitted in separate envelope super scribed with the wordings "EMD".
- e. No rate/should be quoted in the technical bid.
- f. This should be followed meticulously failing which the tender is liable to be cancelled.

II. PRICE (FINANCE) BID

- a. PRICE (FINANCIAL) BID is to be submitted in SEPARATE sealed envelopes, super scribed with the wordings "PRICE (FINANCIAL) BID". This should be followed meticulously failing which the tender is liable to be cancelled.
 - b. The "Price/Financial Bid" will contain item-wise price / cost for the items mentioned quoted in the technical bid.
- Both the Technical Bid envelope and the Price (Financial) Bid envelope, prepared as above are to be kept in a larger single envelope super-scribed with "**Invitation of E-tender (Two bid system) for Supply, installation, testing and commissioning of 1600 KVA (33 KV/433V) Transformer, Indoor type with Accessories at ESIC Hospital & Medical College, Joka**" along with "Tender No. /2018", so as to give a double cover protection. Failing which the tender is liable to be rejected.
 - The outer cover should also be sealed and addressed to 'The Dean', ESIC Hospital & O.D.C. (E.Z), Diamond Harbour Road, P.O.: Joka, Kolkata, 700104, West Bengal'.

5. Eligibility Criteria:-

- A. The tenderer should have minimum two years experience in last five years for similar nature of works.
- B. The tenderers should have undertaken /completed the following work of similar nature in a Govt./PSUs/Autonomous Bodies set up in the last three (3) years as on 30.09.2018.
 - i) Three (3) similar works value not less than 40 % of the estimated Cost.
OR
 - ii) Two (2) similar works value not less than 50 % of the estimated Cost.
OR
 - iii) One (1) similar works value not less than 80 % of the estimated Cost.

In addition to above, bidders have to submit following documents:

1. The bidder Earnest Money Deposit by Demand Draft
2. Valid Trade Licence
3. Valid Firm/Company Registration certificate
4. Certificate to the effect that the equipment quoted is not a refurbished one. Satisfactory performance Certificate from a Govt. Institution/ Reputed Institution for last three years
5. Specific authorization letter from manufacture for supply of equipment
6. PAN/TAN other statutory documents
7. IT returns for last years 2017-18
8. GST Registration Certificate

9. Warranty Certificate two years
10. Valid Electrical contractor Liance
11. Name & address of Service Centre in KOLKATA
12. Whether hard copies of uploaded tender documents have been deposited in tender box .
13. ESI and EPF Registration Certificate

5. PERIOD FOR WHICH THE OFFER WILL REMAIN OPEN:

- i) All e- tenders should remain valid for acceptance for a **period of twelve months** from the date of opening of the tender or for such period as stated in Special Terms & Conditions.
- ii) The contract / tender, if awarded, shall be valid **for one year from the date of award of Contract** subject to continuous satisfactory performance. On failure on this aspect by the contractor, the Competent Authority will reserve the right to terminate the contract.
- iii) Vague and indefinite expressions such as 'subject to immediate acceptance'; 'subject to prior sale' etc in the e-tender documents will not be considered, i.e. conditional tender is liable to be rejected.

6. OPENING OF E- TENDER:

The e-tender shall be opened on the date and time mentioned here in the document.

7. PRICES:

Prices quoted must be meaningful and measurable in the context.

Price must be clearly shown in **figures and words in Indian Currency**. In case of any discrepancy between figures and words, words will prevail.

E-Tenderers should clearly specify whether prices quoted are inclusive of duties/statutory charges or such charges as extra. Where no specific mention is made other duties, prices quoted shall be deemed to be inclusive of such taxes/charges.

8. DELIVERY TERMS

- a) The delivery of the stores / execution of work / providing the services etc. are required within a period as specified and as the place mentioned therein.
- b) The e-tenderer shall deliver the stores/ execute the work at the destination / space defined to the consignee / authority in good order (of which the Dean, ESIC Hospital & ODC (EZ), Joka, Kolkata shall be the sole judge) within the limits of the time as deemed reasonable and specify in such quantities/qualities as may be ordered by him from time to time.
- c) Time for and date of delivery: The essence of contract: - The time for and the date of delivery of the stores / date of execution of work as stipulated in the schedule shall be deemed to be the essence of contract and delivery / execution must be completed not later than the date(s) specified.
- d) The Dean may allow additional time under special circumstances such as strikes, lockouts, fire accidents, riots etc.

9. INSPECTION OF STORES /WORK:

Supplies shall be accepted/work shall be certified as completed subject to inspection by Dean, ESIC Hospital & ODC (EZ), Joka or his assigned representative. Any defect found in the materials / work done will render the supplies/work open to rejection and decision of the Dean, ESIC Hospital & ODC (EZ), Joka, shall be final and legally binding. The rejected store shall be returned to the suppliers/work may be executed through others, at the risks and costs of contractor.

10. OTHER TERMS

- A. **Responsibility for executing Contract:** The Contractor/Supplier is to be entirely responsible for the execution of the contract in all respects in accordance with the terms and conditions as specified in the acceptance of tender.

- B. The Contractor/Supplier shall not sublet transfer or assign the contract to any part thereof without the written permission of the Dean. In the event of the Contractor/Supplier contravening this condition, Dean be entitled to place the contract elsewhere on the Contractors/Suppliers account at his risk and the Contractor/Supplier shall be liable for any loss or damage, which the Dean, ESIC Hospital & ODC (EZ), Joka, may sustain in consequence or arising out of such replacing of the contract.

Earnest Money: The e-tenderer shall have to deposit earnest money **Bid Security / Earnest Money to be deposited in the Tender box Rs. 1,04,079.00 (Rupees one lakh four thousand seventy nine only)** with their tender, failing which the tender is liable to be rejected. The earnest money is to be paid by **Demand Draft** drawn in favour of **ESI Fund A/c No. 1, payable at Kolkata. NO CHEQUES WILL BE ACCEPTED.** In the event of the withdrawal / revocation of tenders before the date specified for acceptance, the earnest money shall stand forfeited. In the event of acceptance of the e-tender the earnest money may be adjusted towards the amount of security required to be deposited by the contractor in terms of Clause mentioned below, the earnest money will however, be returned without interest to the tenderer whose tender is not accepted. **Earnest Money demand draft must be sent deposited in the tender box near Medical Superintendent Office of ESIC Medical College & Hospital Joka, before the closing date and time of the e-tender to the following address to 'The Dean', ESIC Medical college & Hospital & O.D.C. (E.Z), Diamond Harbour Road, P.O.: Joka, Kolkata, 700 104, West Bengal'.** At the top of the cover, the following words should be written in block letters **"Invitation to Open E-tender for Supply, installation, testing & commissioning of 1600 KVA (33KV/433 V) transformer, indoor Dry type with all accessories at ESIC Medical College & Hospital Joka"** along with **"E-Tender No. /2018"**, failing which the tender is liable to be rejected.

c. Security Deposit: On acceptance of the e-tender, within the period specified by the Dean, the contractor shall deposit as security deposit of the tender.

d. The hospital authority shall be entitled to forfeit the Security Deposit or any part thereof without prejudice to any other remedies provided in the contract or available under the law. The security shall be in the form of **Demand Drafts payable at Kolkata in favour of ESI Fund A/c. No. 1 or in the form of Bank Guaranteee.**

- a) If the contractor fails in fulfilling above-mentioned terms and conditions, such failure will constitute a breach of the contract and the Dean shall be entitled to make other arrangements at the risk and expense of the contractor.
- b) On due performance and completion of the contract in all respects, the Security Deposit will be returned to the contractor without any interest on presentation of an absolute 'No Demand Certificate' in the prescribed form and upon return in good condition of any specifications, samples or other property belonging to the purchaser, which may have been issued to the contractor.

e. Recovery of sums due: Whenever any claim for the payment of a sum of money arises out of or under this contract against the contractor the purchaser shall be entitled to recover of such sum by appropriating, in part or whole the security/earnest money deposited by the contractor, when the balance or the total sum to be recoverable, as the case may be shall be deducted from any sum then due or which at any time thereafter may become due to recoverable under this or any other contract with the purchaser. Should this sum not be sufficient to cover the full amount recoverable, the contractor shall pay to the purchaser on demand the remaining balance due.

f. Insolvency and breach of contract: The Dean may at any time by notice in writing summarily terminate the contract without compensation to the contractor in any of the following events, that is to say:-

- i) If the contractor being an individual or if firm, any partner in the contractor's firm, shall at any time be adjudged insolvent or shall have a receiving order or orders for administration of his estate made against him or shall take any proceedings for liquidation or composition under any insolvency not for the time being in force or shall make any convenience or assignment of his efforts or enter into any arrangements or composition with his creditors or suspend payment of if the firm be dissolved under partnership act, or
- ii) If the contractor being a company shall pass a resolution or the court shall make an order for the liquidation of the affairs or a receiver of Manager on behalf of the debenture holder shall be appointed or circumstances shall have arisen which entitled the court or debenture holders to appoint a receiver or Manager.
- iii) If the contract commits any breach of this contract not herein specifically proved for: Provided always that such determination shall not prejudice any right of action or remedy which shall have accrued or shall accrue

thereafter to the purchaser and provided also that the contractor shall be liable to pay the purchaser for any extra expenditure, he is thereby put to but shall not be entitled to any gain on repurchased.

- g. Arbitration:** In the event of any dispute or difference arising out of the terms and conditions laid down in this tender, the same shall be referred to Arbitrator appointed by the Dean. The procedure of the Arbitration will be governed by the provisions Arbitration Act 1996.
- h. Document:** The tenderer should have a valid **Trade licence, GST, PAN / TAN** and produce/upload self attested copies of such certificates along with the tender papers, **failing which the tender is liable to be rejected.**
- i. Statutory requirements:** In case the agency appoints manpower / labour in excess of or equal to the number as specified by law, the agency should comply with all statutory enactments including Contract Labour Regulation and Abolition Act, 1970; Minimum Wages Act where applicable; Payment of wages Act, where applicable; ESI Act, 1948, where applicable; EPF Act, 1952, where applicable; etc. All existing statutory liabilities relating to engagement of personnel related to labour laws shall be sole responsibility of the agency. In that case the successful agency will have to obtain a licence from the licensing officer after collecting the requisite certificate in form V from the hospital authority. The successful agency will have to maintain various registers and records, display notices, abstracts of the rules, etc., and issue employment card to the engaged labours. The list of workers employed by the contractor shall be communicated to the authority from time to time.
- j.** The successful bidder/tenderer shall obtain a valid license under the Contract Labour (R & A) Act, 1970 & Rules framed there under and shall continue to hold it till completion of the contract wherever applicable,
- k. Right to accept / reject:** The hospital authority reserves the right to **reject** any or all tender without assigning any reason whatsoever. Also, the hospital authority reserves the right to **award** any or part or full contract to any successful agency at its discretion and this will be binding on the tendered.
- l. Assistance to contractor:** The contractor shall not be entitled to assistance either, in the procurement of raw materials required for the fulfilment of the contract or in the securing of transport facilities.
- m.** The e-tenderer should have authorised service centre /service provider in and around Kolkata and the complete Postal Address, Telephone / Mobile / Fax / E-mail address, etc. should be provided, while submitting the completed e-tender form.
- n.** The list of personal deployed to be intimated to the authority from time to time. The personal employed by the tenderer should have proper uniform for identification. The persons so deployed shall not have any claim for permanent absorption in the hospital and such claim if raised shall be violation of the terms and conditions of the agreement of the hospital authority shall have the right to cancel the agreement to terminate such deployment termination.
- o.** The contractor will be responsible for such conduct of the persons engaged by him in the hospital, which will be conducive for maintaining as harmonious atmosphere as expected in the hospital and will be responsible for any act & omission of such persons.
- p.** In the event of any violation of laws, rules, statutory provisions by the contractor, this will amount to breach of contract and in such case, the hospital will have the right for terminating the contract, forthwith, without giving any notice or assigning any reason.
- q. Validity of Contract:** The contract, if awarded, shall be valid **initially for two (02) years from the date of commission** subject to continuous satisfactory performance. The period of the contract can be extended for further period at the discretion of the Competent Authority, to a maximum of one year, on terms and conditions of the hospital, while accepting the tender subject to continuous satisfactory performance. However, on failure on this aspect by the contractor, the hospital will have the right to terminate the contract forthwith in addition to forfeiting the security amount deposited by the contractor and initiating administrative actions for black listing, etc. solely at the discretion of the hospital authority. This period of one year can further extended to a maximum of one year at the sole discretion of hospital authority without prejudice to any other right of the hospital authority. After the period of 2 years warranty, the venhas to enter in to annual comprehensive maintenance contract, if awarded by the competent authority.
- r.** The Tenderers will quote the rates in respect of jobs / services as described in **Annexure – J** and shall fill **Annexure –G** appended herewith along the Tender Application form.
- s.** The successful agency shall have to enter in to an agreement with the Hospital and the cost incurred in this connection, shall have borne by the contractor.
- t.** The rate once accepted by the hospital shall remain unaltered through the period of contract ,including any extended period

- u. Dean, ESIC Hospital & ODC (E.Z), Joka, does not pledge himself to accept the lowest or any tender and reserve to himself the right of accepting the whole or any part of the tender or portion the quantity offered and you shall supply the same /execute the work at the rate quoted by you. You are liberty to tender for the whole or any part.
- v. Acceptance by the purchaser shall be communicated in due course. You are requested that the instruction contained in the said communication should be acted upon immediately/as asked for.
- w. The hospital authority reserve the right to award any part or full contract to any successful agency (ies) at its discretion and this will be binding on the Tenderers.
- x. **Failure and Termination:** If the contractor fails to deliver the stores or any instalments thereof within the period prescribed for such delivery in the contract or any time liquidation the contract before the expiry of such period, Dean may without prejudice to his right to recover damages for breach of the contract, be entitled at his option.
- a. To recovery from the contractor as agreed liquidated damages, by way of penalty a sum equivalent to 2% of the price of any stores/services which the contractor has failed to deliver within the period fixed for delivery for the schedule for **each week or part of the week** during which the delivery of such stores may be in arrears **subject to maximum 10% of the total value of order /orders**, where delivery thereof is accepted after expiry of the aforesaid period, or
 - b. To purchase elsewhere, without notice to the contractor, on his account and at the risk of the contractor, the stores/services not delivered or store/services of similar description (where stores/services exactly complying with the particulars are not in the opinion of the Dean, ESIC Hospital & ODC (E.Z), Joka, readily procurable such opinion being final). Without cancelling the delivery in respect of the consignments not yet due for delivery or
 - c. To cancel the contract or a portion thereof, and if so decided to purchase or authorise to purchase of store/services not so delivered or other of a similar description (where store/services exactly complying with the particulars are not, in the opinion of the Dean readily procurable, such opinion being final) at the risk and cost of the contractor.

Dean



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Dated: 26.10.2018

Eligibility Criteria

Sub: Invitation of E-tender for Supply, Installation, Testing and commissioning of 1600 KVA (33KV/433V)Transformer, Indoor Dry Type with all Accessories at ESIC Medical College & Hospital Joka.

THE FIRM IS REQUESTED TO FOLLOW THE CHECK LIST AT THE TIME OF SUBMISSION OF E-TENDER DOCUMENT AND UPLOAD & SUBMIT THE DOCUMENTS,WITHOUT WHICH THE OFFER IS LIABLE TO BE CANCELLED

Eligibility Criteria		
1	Earnest Money Deposit by Demand Draft only	Uploaded & Submitted [Yes/No]
2	Valid Trade Licence	Uploaded & Submitted [Yes/No]
3	Valid Firm/Company Registration certificate	Uploaded & Submitted [Yes/No]
4	Certificate to the effect that the equipment quoted is not a refurbished one.Satisfactory performance Certificate from a Govt. Institution/ Reputed Institution for last three years	Uploaded & Submitted [Yes/No]
5	Specific authorization letter from manufacture for supply of equipment	Uploaded & Submitted [Yes/No]
6	PAN/TAN other statutory documents	Uploaded & Submitted [Yes/No]
7	ESI Registration Certificate with last six months challan.	Submitted [Yes/No]
8	PF Registration Certificate with last six months challan.	Submitted [Yes/No]
9	IT returns for last years 2017-18	Uploaded & Submitted [Yes/No]
10	GST Registration Certificate.	Uploaded & Submitted [Yes/No]
11	Warranty Certificate two years	Uploaded & Submitted [Yes/No]
12	Valid Original manufacture /contractor/ supplier Licence.	Uploaded & Submitted [Yes/No]
13	Name & address of Service Centre in KOLKATA	Uploaded & Submitted [Yes/No]
14	Whether hard copies of uploaded tender documents have been deposited in tender box located at ESIC PMD branch at Saltlake Sector 3 office , before closing date and time.	[Yes/No]

Note: If valid trade licence constitutes/consists of more than one certificate/page then all pages are to be enclosed failing which tender is liable to be cancelled.

Yours faithfully,

Dean



**ESI-PGIMSR, ESIC MEDICAL COLLEGE &
EMPLOYEE'S STATE INSURANCE CORPORATION HOSPITAL & ODC (EZ)**
(A Statutory Body Under Ministry of Labour, Govt. of India)
DIAMOND HARBOUR ROAD, P.O.: JOKA, KOLKATA-700 104
An ISO 9001:2008 Certified
Fax: 033 2467 2795, Phone: 033 2467 2799 / 6280 / 1764

No. 412.W.11/17/ESIC/Elec/computer DG/97 HK

dt. 26.10.2018

SPECIAL TERMS AND CONDITIONS

The following special terms and conditions shall apply for supply, installation, testing & commissioning of **“1600 KVA (33 KV/433 V) transformer, indoor type with accessories”** at ESIC Hospital & O.D.C. (E.Z), Joka.

.1. a. **Hard copies of uploaded tender documents should be submitted in tehe tender box**

Before closing date & time to the following address:-

**“ To the Dean , ESIC Medical College & Hospital & ODC (EZ), Diamond Harbour Road , P.O-
Joka, Kolkata-700104 West Bengal, Phone No . 033-2467 6280/1764 , Fax No. 033-
24672795”**

b. All the pages should be signed and stamped by the bidder.

c. Tender No. , Tender Name and bidder Name should invariable by written on the envelope containing the bid documents.

d. **Tender will be evaluated only on the basis of documents uploaded in e- tender**

2. WARRANTY / GUARANTEE:

Along with the **Technical Bid** the following information are to be provided exclusively.

All the **equipments** shall be carrying **2 (two) years warranty / guarantee** against defects of manufacturer/workmanship and poor quality of components. Accordingly, the **tenderers shall indicate clearly** and exhaustively the mandatory warranty / guarantee offered by them / by the manufacturing / supplying firms, its duration, as well as the various Terms & Conditions involved therein, at the time of submission of the Technical Bid papers.

3. SAMPLES / DEMONSTRATION

The firms should be prepared to demonstrate their item(s) / arrange for demonstration of items **within 3 (Three) weeks from the date of opening of tender for verification / inspection**, etc., or at a later date as decided by the competent authority. The firm shall have to comply with such conditions failing which the tenderer shall be liable for rejection and forfeiture of the Earnest Money. The tenderer / firm / company shall arrange for demonstration of equipment / Item / article at his own cost and risk. Tenderer who fails to demonstrate the equipments/ instruments quoted will not be considered for selection.

4. PROCEDURE FOR SUBMISSION OF TENDERS/ BIDS:

The tender should be submitted in **‘TWO BIDS’ SYSTEM** in both online and offline: -

III. TECHNICAL BIDS:

g. TECHNICAL BIDS in one separate envelope, sealed, super scribed with the wordings **“TECHNICAL BID”**.

h. The original copy of tender duly completed and singed on each page, should be submitted/returned back, enclosed along with the **“TECHNICAL BID”**.

- i. The “Technical Bid shall contain Earnest Money in the form of demand drafts as prescribed herein and all the technical details & documents along with commercial terms and conditions in support of the quoted service.
- j. The Earnest Money Deposit (EMD) should be submitted in separate envelope super scribed with the wordings “EMD”.
- k. No rate/should be quoted in the technical bid.
- l. This should be followed meticulously failing which the tender is liable to be cancelled.

IV. PRICE (FINANCE) BID

- a. PRICE (FINANCIAL) BID is to be submitted in SEPARATE sealed envelopes, super scribed with the wordings “PRICE (FINANCIAL) BID”. This should be followed meticulously failing which the tender is liable to be cancelled.
 - b. The “Price/Financial Bid” will contain item-wise price / cost for the items mentioned quoted in the technical bid.
- Both the Technical Bid envelope and the Price (Financial) Bid envelope, prepared as above are to be kept in a larger single envelope super-scribed with **“Invitation of E-tender (Two bid system) for Supply, installation, testing and commissioning of 1600 KVA (33 KV/433V) Transformer, Indoor type with Accessories at ESIC Hospital & Medical College, Joka”** along with **“Tender No. /2018”**, so as to give a double cover protection. Failing which the tender is liable to be rejected.
 - The outer cover should also be sealed and addressed to **‘The Dean’, ESIC Hospital & O.D.C. (E.Z), Diamond Harbour Road, P.O.: Joka, Kolkata, 700104, West Bengal’**.

2. OPENING OF E- TENDER:

The e-tender shall be opened on the date and time mentioned here in the document.

4. Evaluation Criteria

1. Technical Criteria:- Bids of only those bidders who fulfil all the eligibility criteria (Annexure – E) & tender terms & condition will be evaluated.
2. Financial Criteria :-
 - (i) Bids of only technically qualified bidder will be evaluated.
 - (ii) Lowest quoted cumulative rate of technically qualified bidder as mentioned in column “K” of Annexure –J” would be considered for selection, subject to satisfaction of competent authority.

Dean

TENDER APPLICATION FORM

1	Name of the firm:-	
2	Year of Registration	
3	Type of Firm	
2	A	Full Postal Address:-
	B	Cell Phone No.
	C	Telephone No:-
	D	Fax No.
	E	Email Id:
3		Register Details
	A	PAN/GIR No
	B	Service Tax Registration No
	C	E.S.I P.F Registration
	Name and Address of your Bankers stating the name in which the Account stands:-	i. Name of Bank ii. Name of Branch iii. A/c. No. iv. IFSC Code v. MICR Number
4	Are you in the list of approved contractors of any other organisations /institutions, if any give details:-	
6	Any other information which you consider necessary to furnish:	

UNDERTAKING

- a) I, the undersigned certify that I have gone through the terms and condition mentioned in the tender document and undertake to comply with them.
- b) The rates quoted by me are valid and binding upon me for the entire period of contract and it is certified that the rates quoted and the lowest quoted for any other institution/hospital in India.
- c) The Earnest Money of Rs. _____ to be deposited by me has been enclosed herewith vide Demand Draft No. _____ dated _____ drawn on bank _____ Branch _____.
- d) I/We give the rights to Dean to forfeit the Earnest Money/Security money deposit by me/us if any delay occur on my/agent's part or fail to supply the articles within the appointed firms of desired quality.
- e) There is no vigilance/CBI case or court case pending against the firm.
- f) I hereby undertake to supply the items as per directions given in the tender document/supply order within stipulated period.
- g) Whether signing as - (please refer to point 02 of annexure -1)

Date:-
Place:-

Signature of the tenderer:-
Full Name:-

Designation:-
(Office seal of the tenderer)

Contract Agreement

(Agreement to be executed on a Non- judicial Stamp of Rs. 100/= value))

This AGREEMENT (hereinafter called the ‘Contract’) is made on this day of the month.....2018 between ESI-POST GRADUATE INSTITUTE OF MEDICAL SCIENCES & RESEARCH & EMPLOYEE’S STATE INSURANCE CORPORATION HOSPITAL & ODC (EZ), D.H road, P.O- Joka Kolkata -700104, on the one hand (hereinafter called the Employer)on and the other hand M/s (hereinafter called the Contractor)

WHEREAS

1. The service provider has tendered to the Competent authority ESIC Medical College & Hospital for providing –(JOB) as per the instruction given at the prices of rates mentioned in the Bid from and whereas such tender has been accepted and the contract has deposited with the sum of Rs. (Rupees.....) as performance Security for the fulfillment of this Agreement.
2. The Competent Authority has accepted the offer of the Contractor to provide certain services/works for (Job details/work order subject at ESIC Hospital, Joka. In persunce of e-tender no /2018 vide ref no. dt.
3. The contractor, having represented to the client that they have required professional and technical resources have agreed to provide the services/works on the terms and conditions set forth in this contract Agreement .

Now it is hereby agreed between the two parties as follows:-:

1. the following documents attached hereto shall be deemed to form an integral part of this contract:
Annexure B to Annexure-K
2. and the Contractor shall be as set forth in the contract; in particuiar:
 - A. The contractor shall carry out the services/works in accordance with the provisions of the contract.
 - B. The office shall make payments to the contractor in accordance with the provisions of the contract.
3. The contractor has accepted the contract on the terms and condition listed in the Tender Documents of the Tender Notice no..... which will hold good during the period of this agreement.
4. Upon breach by the contractor of any of the conditions mentioned anywhere in the Tender document, the Government may issue a notice in writing , and put an end to this agreement without prejudice to the right of the Govt. to claim damages for antecedent breaches thereof on the part of the service provider and also to reasonable compensation for the loss caused by the failure of the contractor to fulfill the agreement as certified in wring by the Government whose certificate shall be the conclusive evidence of the amount of such compensation payable by the contractor to the Government.
5. The Service provider has deposited with the Government a performance security Deposit of Rs. as security for compliance in accordance with the Contact. Upon the completion of the contract, the Performance Security Deposit shall after the expiry of months from the date of signing the agreement be returned to the Service provider, without interest, and after deducting any sum due by the Service provider to the Government under the terms and conditions of this agreement.
6. This agreement shall remain in force 3 months after the expiry of the Contract period.

Warranty Period :-

Warranty at least one (1) year from the completion of works.

The agency should provide preventive maintenance as per manufacture recommended schedule during the warranty period.

DURATION/TENURE OF CONTRACT AGREEMENT -

The Contract price:-

As per work order value/contract amount (including all taxes & charges)

That no escalation will be admissible during the pendency of the contract even in the event of any increase of price of materials.

----- **works:-**

Termination:-

In the event of unsatisfactory progress of Contractor, the Contractor will be given a notice of 7 (seven) days in order to cover up the delay for gearing up of work with due expedition. Further, in the event of no improvement in performance of Contractor, the competent authority reserves his right to terminate the contract and get the balance job executed at the risk and cost of yourself.

Security Deposit:

The service provider/contractor has deposited a Performa Security deposit of Rs. as Security deposit /performance money to be submitted in the form of Demand drafts in favour of ESI Fund A/c No. 1 payable at kolkata, within 7 days from the date of acceptance& It will be released after 1(one) years after completion of the warranty period in all respect.

General Terms and Condition

2. The contractor shall and hereby agrees and confirms to comply with all the provisions of labour laws and industrial laws in respect of the labour employed thereof.
 - A)The contract shall duly maintain a register giving particulars of the contract labour employed, nature of work, rate of wages, etc.
 - B)The contractor shall also ensure the compliance of the following labour legislations:
 - i) Minimum Wages Act
 - ii) Employees Provident Fund
 - iii) Employees State insurance Act
 - iv) Other statutory liabilities.
3. The contractor shall ensure that the compliance with the provisions of the contract labour (regulation and abolition) Act, 1970 and other labour legislations is current and up to date at all times during the performance of the works specified in Annexure I / contract document / tender.

4. The contractor shall be solely responsible to adhere to all the rules and regulations relating to labour practices and service conditions of its workmen and at no time it shall be the responsibility of the Office.
5. The contractor or its workmen shall not at any point of time have any claim whatsoever against the Office.
6. The contractor shall indemnify the Institute in so far as liability incurred by the office on account of any default by the contractor.
7. Neither the contractor nor his workmen can be treated as employees of the office for any purposes. They are not entitled for any claim, right, preference etc over any job/regular employment of the office.
8. If the contractor fails to discharge his duties or neglects to perform the work agreed to done under the agreement, the office is entitled to terminate this agreement a get the work done by / through others and claim reimbursement of actual expenses incurred and also damages for the loss incurred on account of failure on the part of the contractor to discharge the duties or to perform the work under the agreement.

9. Submission of bill

The office shall pay the contractor, claim bill for services/works rendered under the provisions of this Agreement. Provided however, that such remuneration shall be payable only if the contractor has duly performed all its obligations and covenants under this agreement and has discharged all its functions and responsibilities to the satisfaction of the office. An under taking regarding compliance of all statutory liabilities i.e minimum wages, ESI,PF, labour laws etc (as applicable) must have to submit along with bill. The payment will be made exclusively in the shape of ECS/RTGS enclose with the bill

10. The claim bill payable by the office shall be as per contract document / tender.
11. The claim bill payable shall be subject to deduction of tax at source.
12. The contractor shall not assign, delegate, transfer, etc., any of their right/s and / or obligation/s under this agreement to any third person/s, concern/s, firm/s, company/ies or entity/ies.
13. The contractor shall at all times during the agreement and thereafter, indemnify and keep indemnified the office, its officers, employees and representatives, from all or any claims, losses, demands, damages, etc., which the office, its officers, employees and representatives may or are likely to suffer by reason of acts, defaults, deeds, things, omissions and commissions committed by the contractor, while performing the conditions of this agreement.
14. All notices required to be given under this agreement shall be deemed to be sufficiently given if they are forwarded by registered post ESI-POST GRADUATE INSTITUTE OF MEDICAL SCIENCES & RESEARCH & EMPLOYEE'S STATE INSURANCE CORPORATION HOSPITAL & ODC (EZ), D.H road, P.O- Joka Kolkata -700104, acknowledgment . The Contractor at: M/s

.....(hereinafter called the Contractor)
THE ORIGINAL OF THIS AGREEMENT SHALL BE WITH THE OFFICE AND THE SIGNED DUPLICATE OR XEROX COPY OF THE AGREEMENT SHALL BE HANDED OVER TO THE CONTRACTOR.

In witness whereof the parties hereto have caused this contract to be signed in their respective names as of the day and year first above written
 FOR AND ON BEHALF OF(CLIENT)

ESI-Post Graduate Institute of Medical Science & Research
 Employee's State Insurance corporation Hospital & ODC(EZ)
 D.H Road , P.O Joka
 Kol- 700104

FOR AND ON BEHALF OF
 (CONTRACTOR)

Performance Security Bank Guarantee Bond

TO
THE Dean
ESI-POST GRADUATE INSTITUTE OF MEDICAL SCIENCES & RESEARCH &
EMPLOYEE'S STATE INSURANCE CORPORATION HOSPITAL & ODC (EZ)
DIAMOND HARBOUR ROAD, P.O.: JOKA, KOLKATA-700 104

Dear Sir,

Subject :- Performance Guarantee for M/S -----
Granted by the Medical Superintendent.

This Deed of Guarantee executed by the -----(Bank name) a Scheduled Bank within the meaning of the Reserve Bank of India Act and carrying out banking business including guarantee business and having its head office at -----(hereinafter referred to as " the Bank ") in favour of Dean having its office at the ESIC MEDICAL COLLEGE Hospital ODC (EZ) Joka Kol-104 (hereinafter referred to as " Medical superintendent " for an amount of Rs (Rupees.....) at the request of -----(Agency Name) (Hereinafter referred to as the "Agency)

This Guarantee is issued subject to the condition that the liability of the Bank under this Guarantee is limited to a maximum of Rs(Rupees) and the Guarantee shall remain in force upto ----- (one year from the date of issue of this Bank Guarantee) and cannot be invoked , otherwise than by written demand or claim under this guarantee served on the bank on or before -----by the Medical Superintendent Joka.

Whereas -----(Supplier Name) having its office at ----- (address) , has undertaken other terms & conditions mentioned in the work order no.....dt -----

And whereas the bank -----(Name & Address) has agreed to give on behalf of the Supplier a Guarantee:

Therefore, we hereby affirm that we Guarantee and are responsible to you on behalf of the supplier , upto a total amount of Rs. (Rupees.....) and we undertake to pay you, upon your first written demand declaring the Agency to be in default in compliance of guidelines for the (Job/AMC)..... and other terms & conditions mentioned in the work order and any sum or sums as specified by you within the limit of Rs.....(Rupees.) as aforesaid , without your need to prove or to show grounds or reasons for your demand of the sum specified therein. This Guarantee shall not be affected by any change in the Constitutions of the Bank.

NOTWITHSTANDING ANYTHING CONTAINED HEREIN:

The Bank hereby covenants and declares that the guarantee hereby given is an irrevocable one and shall not be revoked by a Notice or otherwise.

The Bank agrees that the amount hereby guaranteed shall be due and payable to Dean Joka on serving us with a notice before expiry of Bank Guarantee requires the payment of the Amount and such notice shall be deemed to have been served on the bank either by actual delivery thereof to the Bank or by dispatch thereof to the Bank by registered post at the address

Of the Bank

This guarantee shall remain in force upto dt----- provided that if so desired by Medical superintendent , Joka this guarantee shall be renewed for a further period as may be indicated by them on the same terms and conditions as contained therein.

Our liability under this guarantee is restricted to Rs.....(Rupees.....) , and this guarantee is valid upto----- . We shall be released and discharged from all liabilities here in under unless a written claim for payment or extension of under this guarantee is lodged in us on or before--- -----irrespective of whether or not the Original guarantee is returned to us.

Dated At

This

Day of

SEALED & SIGNED BY THE BANK

Secification of 1600 KVA DG Set

3.3 DRY TYPE DISTRIBUTION TRANSFORMERS

3.3.1 General Construction

3.3.1.1 The Transformers shall comply with the following Indian Standards as amended up to date:

- (i) IS 11171: 1985 - Dry type power transformers.
- (ii) IS 10028 (Part II & III) - Installation and Maintenance of Transformers.
- (iii) IS 2099 - Bushing
- (iv) IS 2705 - Current Transformers.

3.3.1.2 Constructional Features

All the MS parts shall be either Hot dipped galvanized or cold galvanized to make them corrosion free. The core shall be made up of high grade low loss cold rolled grain oriented silicon steel. Both low & high voltage windings shall be made of copper conductor. The class of winding insulation shall correspond to class 'F'. The construction of the windings of the transformer shall be such that no creepage path is found even in dusty & corrosive ambient conditions. The core coil assembly shall be housed in a prefabricated enclosure. The enclosure shall be fabricated with mild steel CRCA sheets with adequate provision for ventilation. The enclosures shall undergo the seven tank process. Finally, the external and internal surfaces of the enclosure shall be powder coated with the required paint shade.

3.3.2 General Requirements

The transformer shall be indoor type. the transformer in addition shall have thermal and dynamic ability to withstand external short-circuit as per clause 9 of IS 2026 (Part I): 1977 and clause 5 of IS 11171: 1985.

3.3.3 Capacity and Rating

The KVA ratings for three phase transformers are given below: -
1600

Continuous rating specified shall be irrespective of tapping position.

3.3.4 Indoor transformers shall be suitable for IP-23 protection.

3.3.5 Temperature Rise

The reference ambient temperatures assumed for the purpose of this specification are as follows:-

- (a) Maximum ambient air temperature 50°C.
- (b) Maximum daily average ambient air temperature 40°C.
- (c) Maximum yearly weighted average ambient temperature 32°C.
- (d) Minimum yearly weighted average ambient temperature (-) 5°C.
- (e) Class of insulation F

The temperature rise limit at the above conditions and at the altitude not exceeding 1000 meters shall be as specified. If the site conditions indicated for a particular job is more severe than the referred ambient temperature mentioned above, the temperature rise above ambient shall be suitably scaled down such that the hot spot temperature shall not exceed the values for the reference conditions 90°C (F class insulation).

3.3.6 (A) Tap Changing Device

Preferred tapping range is +5% to -7.5% in 2.5 percent steps by means of off load tap changing links or tap switch. The device shall be provided on HV for HV Voltage to keep LV Voltage constant.

(B) Terminal Markings Connections

Relevant provisions of IS 2026 (Part-IV): 1977 shall be applicable.

3.3.7 Voltage Ratio

the transformer shall be suitable for a voltage ratio of 33 KV/ 433 V.

3.3.8 Vector Group

In case of step down transformers, the winding connections shall conform to vector group Dyn11.

3.3.9 Cooling

The transformer cooling shall be air and naturally cooled (AN).

3.3.10 Accessories

The transformer shall be with enclosure or with HV and MV terminations as specified both on HV and MV side. The MV side shall be suitable to receive bus bar trunking or MV cable inter-connection suitable for full load current of the transformer.

3.3.11 Fittings

The transformer shall be complete with the following fittings: -

- (a) Off load type tap changing link or tap switch.
- (b) RTD temperature controller.
- (c) Lifting lugs for all transformers.
- (d) Bi-directional / Unidirectional Rollers to be specified.
- (e) Rating diagram and terminal marking plate for all transformers.
- (f) Additional Neutral separately brought out on a bushing for earthing for all transformers.
- (g) Earth terminals (2 Nos.) for body earthing for all transformers.
- (h) Necessary hardware, clamps, lugs etc. for termination on HV/MV etc. for all transformers.
- (i) Current transformer in the Neutral Grounding for necessary protection.

3.3.12 Rating Plates

A rating plate of weather proof material bearing the data specified in clause-8 of IS 11171: 1985.

3.3.13 Joints and Gaskets

All gaskets used for making gas tight joints shall be of proven material.

3.3.14 Parallel Operation

For parallel operation of transformers, the transformers shall have the same percentage impedance, same voltage ratio, same vector group, phase sequence etc. Where ever more than one Transformer is to be installed in the same Sub-Station, capacity of each Transformer shall preferably be same.

3.3.15 Tests

3.3.15.1 Tests at Works

All routine and other tests prescribed in IS 11171: 1985 shall be carried out at the manufacturer's works before the dispatch of the transformer in the presence of inspecting officer. Copies of the test certificates shall be furnished to the department. In addition to the prescribed routine tests, temperature rise test shall be invariably done on one transformer of each design. A copy of the impulse test certificate done on the same type/design of the transformer shall be furnished in accordance with IS 11171: 1985 for purpose of record. If no impulse test was done in an earlier unit of the same design and type, one transformer will be subjected to impulse test in consultation with the Inspector at the firm's cost. Copies of the certificates of type test for short circuit shall be supplied to the Department.

3.3.15.2 Tests at Site

In addition to tests at manufacturer's premises, all relevant pre-commissioning checks and tests conforming to IS code of practice No. 10028 shall be done before energization. The following tests are to be particularly done before cable jointing or connecting up the bus bar trunking.

- (a) Insulation test between HV to earth and HV to MV with 5000 volts Megger.
- (b) Insulation test between MV to earth with 500 volts Megger.
- (c) All test results are to be recorded and reports should be submitted to the department.

3.3.16 Installation and Commissioning

3.3.16.1 The transformer shall be installed in accordance with IS 10028-Code of practice for Installation and maintenance of transformer. Necessary support channels shall be grouted in the flooring.

3.3.16.2 The transformer shall be moved to its location and shall be correctly positioned. Transformer wheels shall be either locked or provided with wheel stoppers.

3.3.16.3 Wiring of devices shall be carried out as per drawings; Earthing of neutral and body of the transformer shall be done in accordance with section (7) of these specifications.

3.3.16.4 All devices shall be checked for satisfactory operation.

3.3.16.5 All tests specified in 3.2.14 of these specifications shall be carried out by the contractor in the presence of inspecting officer/ consignee free of cost.

3.3.17 Maximum Allowable Power Transformer Losses

Power transformers of the proper ratings and design must be selected to satisfy the minimum acceptable efficiency at 50% and full load rating. In addition, the transformer must be selected such that it minimizes the total of its initial cost in addition to the present value of the cost of its total lost energy while serving its estimated loads during its respective life span.

Total losses for dry type distribution transformers should conform as per the following table:

Maximum allowable losses for dry type distribution transformer with highest voltage for equipment 33 kV, at 50% and 100% of the load		
Transformer Capacity (kVA)	Maximum Allowable losses at 50% kVA or load	Maximum Allowable losses at full load/Rated kVA
100	1.88%	2.44%
160	1.61%	2.07%
200	1.50%	1.90%
250	1.36%	1.73%
400	1.19%	1.51%
500	1.12%	1.45%
630	1.06%	1.40%
1000	0.90%	1.20%
1600	0.79%	1.05%
2000	0.75%	1.00%

Note:- The losses given above are based on the available data, nonetheless the losses of actual equipment should be as per the latest ECBC guidelines regarding 33 KV / 433 V cast resin Dry Type transformer.

PLEASE QUOTE RATE

Description of works	Quantity	Rate	Total GST	Total amount
Supply of 1600 KVA, indoor type, cast resin, Dry type, natural Air-cooled, 33000/433 volt no-load ratio step-down delta/star power Transformer complete with all fitting and accessories as per specification, including mounting of loose accessories, including supply & grouting of bolts on pedestal fixing of transformer after levelling, fitting of all brought out component, making necessary connection etc. complete as required, the submission of test result are also to be made for parallel operation, including carrying out charge Rate should be quoted as per Specification of Annexure-J Make:- Crompton Greaves/Volt amp/Kriloskar HSN:- 85042200	2nos			
Installation, testing & Commissioning of Transformer @ 5% of the transformer value	2nos			
Dismantling of OLD transformer	2nos			
Transport charges/insurance of all	1 No			
Total amount of Rs.				

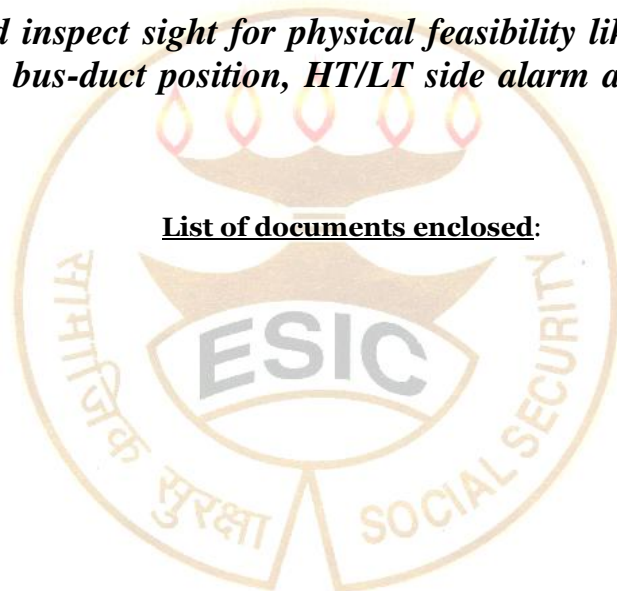
Total Estimated Price: Rs. 52, 03,950/- (Fifty Two Lakh Three Thousand Nine Hundred Fifty including 18% GST)

Note: the vender should inspect sight for physical feasibility like the ground clearance, line alignment, and LT side bus-duct position, HT/LT side alarm and safety etc. before starting manufacturing process.

List of documents enclosed:

- 1.
- 2.
- 3.
- 4.

Date:
Place:



**Signature & Seal of the Tenderer
Full Name of the Tenderer:**