

**INDIAN INSTITUTE OF TECHNOLOGY DELHI**  
**HAUZ KHAS, NEW DELHI – 110016**  
**NOTICE INVITING E-TENDER**  
**IITD/WORKS (SP-4046)/2022**

Executive Engineer [Electrical], Indian Institute of Technology Delhi, Hauz Khas, New Delhi – 100016 [Phone No. 011-26548437] on behalf of Board of Governors invites online Item Rate Tender from Firms / Contractors Registered in appropriate class and category with CPWD, MES, BSNL and Railways dealing with providing and fixing 11KV HT electrical equipments of sub-station works for the following work :

1	Name of Work	:	<b>Replacement of 11KV HT Supply OCB type HT Panel and Ring Main Unit Panel with 11KV VCB type HT Panel boards in Computer Sub-Station, Hospital Sub-Station and New Boys Hostel Sub-Station at IIT Delhi.</b>
2	NIT No.	:	<b>20/EW/IITD/2022-23/PSR-S/Stn.</b>
3	Estimated cost	:	<b>Rs. 82,76,691.00</b>
4	Earnest Money	:	<b>Rs. 1,65,534.00 (No Exemption Allowed)</b>
5	Period of completion	:	<b>3 Month</b>
6	Last date & time of bid submission	:	<b>26-12-2022 upto 03:00 PM</b>
7	Performance Bank Guarantee	:	<b>3 % of the tendered amount</b>

The bid forms and other details may be downloaded from Central Public Procurement Portal <http://eprocure.gov.in/eprocure/app>. Aspiring Bidders who have not enrolled / registered in e-procurement should enroll / register before participating through the website <http://eprocure.gov.in/eprocure/app>. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at 'Instructions for online Bid Submission'.

Bidders can access Quotation / tender documents on the website (For searching in the NIC site, kindly go to Quotation Search option and type 'IIT'. Thereafter, Click on "GO" button to view all IIT Delhi Quotations). Select the appropriate Quotation / tender and fill them with all relevant information and submit the completed Quotation / tender document online on the website <http://eprocure.gov.in/eprocure/app> as per the schedule given in the next page.

**No manual bids will be accepted. All bids (both Technical and Financial should be submitted in the E-procurement portal).**

**Executive Engineer [E],  
For & on Behalf of BOG, IIT Delhi**

**Ch. Head** : PLN12/01B [35.01.02(IOE)]  
**Work code** : 2021/006/0056

**Copy to: -**

1. Institute Engineer
2. D.A. (Works Accounts) - for opening of tenders in the office of D.R. [SPS]
3. A.E.E. (E) Plg.
4. A.E.E. (E) S/Stn.
5. D.R. (A/Cs)
6. D.R. [SPS]
7. Notice Boards.
8. Office Copy
9. Web site Administrator, IITD

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## SCHEDULE

1	Name of Organisation	:	Indian Institute of Technology Delhi
2	Tender / Quotation Type [open / limited / EOI / auction / single]	:	Open
3	Tender / Quotation Category [services / goods / works]	:	Goods & Works
4	Type / Form of Contract [work / supply / auction / service / buy / empanelment / sell]	:	Work & Supply
5	Product Category [civil works / electrical works / fleet management / computer systems]	:	Electrical Works
6	Is Multi Currency Allowed?	:	No
7	Date of issue / publishing /start	:	<b>14-12-2022 3:00 PM</b>
8	Document download start date	:	<b>14-12-2022 3:00 PM</b>
9	Document download end date	:	<b>26-12-2022 3:00 PM</b>
10	Last date & time of uploading of bids	:	<b>26-12-2022 upto 03:00 PM</b>
11	Date & time of opening of Technical Bids	:	<b>27-12-2022 at 03:00 PM</b>
12	Tender fee	:	Nil.
13	EMD	:	<p><b>Rs. 1,65,534.00 (No Exemption Allowed) [For EMD]</b>                      (To be paid through RTGS/NEFT. IIT Delhi Bank details are as under:                      Name of the Bank A/C : IITD Revenue Account                      SBI A/C No. : 10773572622                      Name of the Bank : State Bank of India, IIT Delhi, Hauz Khas, New Delhi-110016                      IFSC Code : SBIN0001077                      MICR Code : 110002156                      Swift No. : SBININBB547                      (This is mandatory that UTR Number is provided in the on-line quotation/bid. (Kindly refer to the UTR Column of the Declaration Sheet at Annexure-I)                      OR                      Demand Draft favouring Registrar, IIT Delhi Payable at SBI, IIT Delhi Branch. Scanned copy of DD needs to be uploaded alongwith the Technical Bid. Original DD shall have to be submitted to the tender inviting authority by the bidder as and when required after opening of bid.</p>
14	EMD	:	As per CPWD manual 2019 MSME firms registered in NSIC under PP policy are exempted from payment of EMD for supply of goods and services only. Accordingly EMD is not exempted in the instance case.
15	No. of covers [1/2/3/4]	:	<b>02</b>
16	Address for communication	:	Executive Engineer [Electrical], Works Organization, Hauz Khas, IIT Delhi, New Delhi – 110016
17	Contact No.	:	011-26548437 / 011-26591463
18	E-mail address	:	<a href="mailto:Ashish.Kumar.Vinodiya@admin.iitd.ac.in">Ashish.Kumar.Vinodiya@admin.iitd.ac.in</a> <a href="mailto:a25235@admin.iitd.ac.in">a25235@admin.iitd.ac.in</a> ;



## **INSTRUCTIONS FOR ONLINE BID SUBMISSION**

As per the directives of Department of Expenditure, this Quotation / tender document has been published on the Central Public Procurement Portal (URL:<http://eprocure.gov.in/eprocure/app>). The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at:

<http://eprocure.gov.in/eprocure/app>

### **REGISTRATION**

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL:<http://eprocure.gov.in/eprocure/app>) by clicking on the link “Click here to Enroll”. Enrolment on the CPP Portal is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

### **SEARCHING FOR QUOTATION /TENDER DOCUMENTS**

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active Quotations / Tender by several parameters. These parameters could include Quotation ID, organization name, location, date, value, etc. There is also an option of advanced search for Quotations, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a Quotation published on the CPP Portal.
- 2) Once the bidders have selected the Quotations they are interested in, they may download the required documents / Quotation schedules. These Quotations can be moved to the respective ‘My Quotations’ folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the Quotation document.
- 3) The bidder should make a note of the unique Quotation ID assigned to Nos. Quotation / Tender, in case they want to obtain any clarification / help from the Helpdesk.

### **PREPARATION OF BIDS**

- 1) Bidder should take into account any corrigendum published on the Quotation document before submitting their bids.
- 2) Please go through the Quotation / Tender advertisement and the Quotation / Tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of Nos. of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the Quotation document / schedule and generally, they can be in PDF / XLS / RAR / DWF formats. Bid documents may be scanned with 100 dpi with black and white option.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use “My Space” area available to them to upload such documents. These documents may be directly submitted from the “My Space” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

### **SUBMISSION OF BIDS**

- 1) Bidder should log into the site well in advance for bid submission so that he/she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the Quotation document.
- 3) Bidder has to select the payment option as “offline” to pay the Quotation fee / EMD as applicable and enter details of the instrument.
- 4) A standard BoQ format has been provided with the Quotation document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.

OR

In some cases Financial Bids can be submitted in PDF format as well (in lieu of BOQ).

- 5) The server time (which is displayed on the bidders’ dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.



- 6) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done.
- 7) The uploaded Quotation documents become readable only after the Quotation opening by the authorized bid openers.
- 8) Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 9) Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.

### **ASSISTANCE TO BIDDERS**

- 1) Any queries relating to the Quotation document and the terms and conditions contained therein should be addressed to the Quotation Inviting Authority for a Quotation or the relevant contact person indicated in the Quotation.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is 1800 233 7315.

### **GENERAL INSTRUCTIONS TO THE BIDDERS**

- 1) The Quotations will be received online through portal <http://eprocure.gov.in/eprocure/app> . In the Technical Bids, the bidders are required to upload all the documents in .pdf format.
- 2) Possession of a Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/e-token in the company's name is a prerequisite for registration and participating in the bid submission activities through <https://eprocure.gov.in/eprocure/app>. Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site <https://eprocure.gov.in/eprocure/app> under the link "Information about DSC".

Bidders are advised to follow the instructions provided in the 'Instructions to the Bidder' for the e-submission of the bids online through the Central Public Procurement Portal for e Procurement at <https://eprocure.gov.in/eprocure/app>

## INFORMATION AND INSTRUCTIONS TO BIDDERS FOR E-TENDERING

Executive Engineer [Electrical], Indian Institute of Technology Delhi, Hauz Khas, New Delhi – 100016 [Phone No. 011-26548437] on behalf of Board of Governors invites online Item Rate Tender from Firms / Contractors Registered in appropriate class and category with CPWD, MES, BSNL and Railways dealing with providing and fixing 11KV HT electrical equipments of sub-station works for the following work :

Sl. No.	N.I.T. No.	Name of work & Location	Estimated cost put to bid	Earnest Money	Period of completion	Last date & time of submission of bid (online mode)	Time & date of opening of Technical Bid	Time & date of opening of Financial Bid
[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]
1	<b>20/EW/IITD/2022-23/PSR-S/Stn.</b>	<b>N/W:- Replacement of 11KV HT Supply OCB type HT Panel and Ring Main Unit Panel with 11KV VCB type HT Panel boards in Computer Sub-Station, Hospital Sub-Station and New Boys Hostel Sub-Station at IIT Delhi..</b>	<b>Rs. 82,76,691.00</b>	<b>Rs. 1,65,534.00 (No Exemption Allowed)</b>	<b>03 Month</b>	<b>26-12-2022 upto 03:00 PM</b>	<b>27-12-2022 at 03:00 PM</b>	<b>To be intimated after assessing technical bid.</b>

- The successful bidders shall be required to submit a performance guarantee of 3% of the tendered amount in the form of Bank Guarantee or F.D.R. from a Nationalized / Scheduled Bank within 15 days of issue of letter of intent before award of work. In case of failure by the Contractor to submit the performance guarantee within the specified period, full earnest money will be forfeited and the tender shall be treated as null and void. **The performance guarantee shall be initially valid up to the stipulated date of completion plus 60 (sixty) days beyond that.**



2. Contractors who fulfill the following requirements shall be eligible to apply. Joint ventures are not accepted.
  - i) Firms/Contractors should have satisfactorily completed one similar work of value not less than **Rs. 66,21,400.00** or two similar works Nos. of value not less than **Rs. 49,66,000.00** or three similar works Nos. of value not less than **Rs. 33,10,700.00** during last 7 years ending previous day of last date of submission of bids.
  - ii) **Earnest Money (EMD) shall have to be deposited / submitted as stipulated in the schedule.**
3. **Similar work means Supplying, Installation, Testing and Commissioning of HT panel boards in sub-station of voltage rating not below 11KV.**
4. **The intending bidder must read the terms and conditions [both commercial & Additional] & IITD- 6 carefully** which will be the part of the Contract. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
5. Information and Instructions for bidders posted on website shall form part of bid document.
6. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website [e-procure.gov.in](http://e-procure.gov.in).
7. But the bid can only be submitted after depositing requisite EMD as specified in the schedule.
8. Copy of enlistment order and certificate of work experience and other documents as specified in the Press Notice / web notice shall be scanned and up-loaded to the e-Tendering website within the period of bid submission. However, certified / original copy of all the scanned and up-loaded documents as specified in press notice web / notice shall have to be submitted by the lowest bidder only within a week physically in the office of e-tendering authority.
9. Online bid documents submitted by intending bidders shall be opened only of those bidders, who has deposited requisite EMD and other documents scanned and uploaded are found in order.
10. Completion certificates are required to be got issued by an officer not below the rank of Executive Engineer of similar works completed by the Firm. The work experience certificates submitted by the bidders shall clearly indicate that:
  - a. The similar work executed shall be **as '3' above**
  - b. The completed cost of the work
  - c. Actual date of completion of the work
11. Copy of registration certificates to be submitted. Registration of firms/ Contractors must be valid on the day of submission of Tenders or extended date of submission of Tenders whichever is later.
12. Work means only work under Government/ Public Sector Undertaking / Central Autonomous bodies.
13. The value of executed work shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to last date of submission of financial bid.
14. IITD is committed to follow the principle of transparency, equity and competitiveness in public procurement. Before submission of bid, **Nos. bidder should sign integrity pact at respective places** and submit the bid. If duly signed integrity pact is not submitted by bidder, such bid shall not be considered.



15. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.
16. When bids are invited in two / three stages systems and if it is desired to submit revised financial bid it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.
17. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.
18. **The bid submitted shall become invalid if:**
  - a. The bidder is found ineligible.
  - b. The bidder does not upload all the documents (including GST registration) as stipulated in the bid document including the undertaking / declaration.
  - c. EMD not deposited as specified.
  - d. Not registered with EPFO & ESIC.

### **List of Documents to be scanned and uploaded within the period of bid submission:**

1. Annexure -I duly filled in and got signed.
2. Proof of EMD deposit / Scanned copy of DD submission (favouring 'Registrar, IIT Delhi').
3. Enlistment order of contractor.
4. Attested certificate of work experience as desired.
5. Certificate of Registration for GST.
6. Affidavit as per provision of the clause 1.3.2 of IITD-6 [To be submitted on stamp paper and date of purchase of stamp paper shall not be earlier than the publication of NIT. NIT number and Name of Work shall invariably be written on the original stamp paper of the Affidavit. Any deviation will lead to rejection of bid without further notice.]
7. Acceptance to execute INTEGRITY PACT [see integrity pact].
8. IITD 7/8 duly signed (At page 22– 23).
9. EPFO & ESIC Registration proof with upto date paid challan.
10. Valid Electrical Licence.
11. Any other document as specified in the NIT.

**Note:-** As per CPWD manual 2019 MSME firms registered in NSIC under PP policy are exempted from payment of EMD for supply of goods and services only. Accordingly EMD is not exempted in the instance case.

**Executive Engineer [Electrical]  
For & on Behalf of BOG, IIT Delhi**



**INDIAN INSTITUTE OF TECHNOLOGY DELHI  
NOTICE INVITING E-TENDER**

- 1.1 Executive Engineer [Electrical], Indian Institute of Technology Delhi, Hauz Khas, New Delhi – 100016 [Phone No. 011-26548437] on behalf of Board of Governors invites online Item Rate Tender from Firms / Contractors Registered in appropriate class and category with CPWD, MES, BSNL and Railways dealing with providing and fixing 11KV HT electrical equipments of sub-station works for the following work : **Replacement of 11KV HT Supply OCB type HT Panel and Ring Main Unit Panel with 11KV VCB type HT Panel boards in Computer Sub-Station, Hospital Sub-Station and New Boys Hostel Sub-Station at IIT Delhi.**
- 1.2 The work is estimated to cost **Rs. 82,76,691.00** This estimate, however, is given merely as a rough guide
- 1.2.1 The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids.  
For composite bid, besides indicating the combined estimated cost put to tender, should clearly indicate the estimated cost of Nos. component separately. The eligibility of bidders will correspond to the combined estimated cost of different components put to bid.
- 1.3 Intending bidder is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:

**Criteria of eligibility for submission of bid documents.**

**1.3.1 Criteria of eligibility for CPWD as well as non-CPWD contractors.**

Firms/Contractors should have satisfactorily completed one similar work of value not less than **Rs. 66,21,400.00** or two similar works Nos. of value not less than **Rs. 49,66,000.00** or three similar works Nos. of value not less than **Rs. 33,10,700.00** during last 7 years ending previous day of last date of submission of bids.

**1.3.2 To become eligible for issue of bid, the bidders shall have to furnish an affidavit as under :-**

“I /We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I / we shall be debarred for bidding in IIT Delhi in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee (Scanned copy to be uploaded at the time of submission of bid)”

[To be submitted on stamp paper and date of purchase of stamp paper shall not be earlier than the publication of NIT. NIT number and Name of Work shall invariably be written on the original stamp paper of the Affidavit. Any deviation will lead to rejection of bid without further notice]

**2. Agreement shall be drawn with the successful bidders on prescribed Form No. IITD 7/8**



which is available as IIT Delhi Publication. Bidders shall quote their rates as per various terms and conditions of the said form which will form part of the agreement.

3. The time allowed for carrying out the work will be 03 Month from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. The site for the work is available.
5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen from the web Site **e-procure.gov.in**.
6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of tender as notified.
7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of tender as notified.
8. If it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the tender submitted earlier shall become invalid.
9. Earnest Money as specified to be paid through RTGS / NEFT.

IIT Delhi Bank details are as under:

Name of the Bank A/C : IITD Revenue Account  
SBI A/C No : 10773572622  
Name of the Bank : State Bank of India, IIT Delhi,  
: Hauz Khas, New Delhi-110016  
IFSC Code : SBIN0001077  
MICR Code : 110002156  
Swift No : SBININBB547

(This is mandatory that UTR Number is provided in the on-line quotation/bid. Kindly refer to the UTR Column of the Declaration Sheet at Annexure-II)

Interested contractors who wish to participate in the bid has also to make following payments within the period of bid submission:

- (i) Copy of Enlistment Order and certificate of work experience and other documents as specified in the press notice shall be scanned and uploaded to the e-tendering website within the period of bid submission.
10. The bid submitted shall become invalid, if:
  - a) The bidder is found ineligible.
  - b) The bidder does not upload all the documents (including GST registration / Technical bid) as stipulated in the bid document.
  - c) EMD not deposited as specified
11. The contractor whose bid is accepted will be required to furnish **performance guarantee of 3% (Three Percent)** of the bid amount within the period specified in Schedule F. This guarantee shall be in the form of Deposit at Call receipt of any scheduled bank / Banker' cheque of any scheduled bank/ Demand Draft of any scheduled bank/Pay order of any Scheduled Bank (in case guarantee amount is less than Rs.1,00,000/-) or Government Securities or Fixed Deposit Receipts or irrevocable Bank Guarantee Bonds of any Scheduled Bank or the State Bank of India in



- accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F' including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor.
12. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and subsoil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.
  13. The competent authority on behalf of the Board of Governors does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidder shall be summarily rejected.
  14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
  15. The competent authority on behalf of the Board of Governors reserves to himself the right of accepting the whole or any part of the bid and the bidder shall be bound to perform the same at the rate quoted.
  16. The contractor shall not be permitted to bid for works in the IITD responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any Gazetted officer in the IIT Delhi. Any breach of this condition by the contractor would render him liable to be debarred from bidding process in future in IIT Delhi.
  17. No Engineer of Gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract liable to be cancelled, if, either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
  18. The bid for the works shall remain open for acceptance for a period of **ninety [90] days from the date of opening of financial bids**, if any bidder withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and

conditions of the bid which are not acceptable to the department, then the IIT Delhi shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the bidder shall not be allowed to participate in the re-bidding process of the work.

- 19.** This notice inviting bid shall form a part of the contract document. The successful bidder / contractor, on acceptance of his bid by the Accepting Authority shall **within 15 days** from the stipulated date of start of the work, sign the contract consisting of:-
- a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
- b) Standard IITD Form –7/8 or other Standard IITD Form as applicable.
- 20.** In case any discrepancy is noticed between the documents as uploaded at the time of submission of the bid online and hard copies as to be submitted physically in IIT Delhi, if so desired by the accepting authority, then the bid submitted shall become invalid and the IIT Delhi shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the bidder shall not be allowed to participate in the bidding process of the work.



**INTEGRITY PACT**

To

.....,  
.....,  
.....

**Sub: NIT No. 20/EW/IITD/2022-23/PSR-S/Stn.** for the work of **Replacement of 11KV HT Supply OCB type HT Panel and Ring Main Unit Panel with 11KV VCB type HT Panel boards in Computer Sub-Station, Hospital Sub-Station and New Boys Hostel Sub-Station at IIT Delhi.**

Dear Sir,

It is here by declared that IITD is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Bidder will sign the Integrity Agreement, which is an integral part of the tender/bid documents, failing which the tender/bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the IITD.

Yours faithfully,

Executive Engineer (E)

[TO BE SUBMITTED DULY SIGNED BY THE BIDDER ALONGWITH BID DOCUMENTS]

To

Executive Engineer (Elect.),  
IIT Delhi, Hauz Khas,  
New Delhi – 110016

**Subject:** Submission of Bid for the work of **Replacement of 11KV HT Supply OCB type HT Panel and Ring Main Unit Panel with 11KV VCB type HT Panel boards in Computer Sub-Station, Hospital Sub-Station and New Boys Hostel Sub-Station at IIT Delhi.**

Dear Sir,

I / We acknowledge that IITD. is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/bid document.

I / We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I / We will sign the enclosed integrity Agreement, which is an integral part of tender / bid documents, failing which I / We will stand disqualified from the tendering process. I / We acknowledge that THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

I / We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by IITD. I / We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I / We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, IITD shall have unqualified, absolute and unfettered right to disqualify the tenderer /bidder and reject the tender/bid in accordance with terms and conditions of the tender/bid.

Yours faithfully,

(Duly authorized signatory of the Bidder)





[To be signed by the bidder and same signatory competent / authorized to sign the relevant contract on behalf of IITD]

**INTEGRITY AGREEMENT**

This Integrity Agreement is made at ..... on this ..... day of..... 20.....

**BETWEEN**

The Board of Governors, IIT Delhi, Hauz Khas, New Delhi - 16 represented through **Executive Engineer (Elect.)**, IIT Delhi  
....., (Hereinafter referred as the **Principal/Owner**,  
(Address of Division)

**Principal/Owner**, which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

**AND**

.....  
.....  
(Name and Address of the Individual/firm/Company)

Through .....  
..... (Hereinafter referred  
(Details of duly authorized signatory)

to as the **Bidder/Contractor** and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

**Preamble**

WHEREAS the Principal /Owner has floated the Tender (NIT No. **20/EW/IITD/2022-23/PSR-S/Stn.**) (hereinafter referred to as **Tender/Bid**) and intends to award, under laid down organizational procedure, contract for **Replacement of 11KV HT Supply OCB type HT Panel and Ring Main Unit Panel with 11KV VCB type HT Panel boards in Computer Sub-Station, Hospital Sub-Station and New Boys Hostel Sub-Station at IIT Delhi.**

(Name of work) hereinafter referred to as the **Contract**.

AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s).AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as **Integrity Pact** or **Pact**), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under:

**Article 1: Commitment of the Principal / Owner**

- 1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles: No employee of the Principal / Owner, personally or through any of his / her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
  - (a) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.
  - (b) The Principal/Owner shall Endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
- 2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PoC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.
- 3) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PoC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

**Article 2: Commitment of the Bidder(s) / Contractor(s)**

- 1) It is required that Nos. Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of **fraud or corruption or coercion or collusion** of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
- 2) The Bidder(s)/Contractor(s) commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
  - a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
  - b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.

- c) The Bidder(s) / Contractor(s) will not commit any offence under the relevant IPC/PoC Act. Further the Bidder(s) / Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal / Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
  - d) The Bidder(s) / Contractor(s) of foreign origin shall disclose the names and addresses of agents / representatives in India, if any. Similarly Bidder(s) / Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.
  - e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
- 3) The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
  - 4) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practices **means a willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.**
  - 5) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

### **Article 3: Consequences of Breach**

Without prejudice to any rights that may be available to the Principal /Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of brNos. of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/ Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

- 1) If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. **Such exclusion may be forever or for a limited period as decided by the Principal/Owner.**

- 2) **Forfeiture of EMD/Performance Guarantee/Security Deposit:** If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.
- 3) **Criminal Liability:** If the Principal/Owner obtains knowledge of conduct a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal / Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

#### **Article 4: Previous Transgression**

- 1) The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
- 2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/Contractor as deemed fit by the Principal/ Owner.
- 3) If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

#### **Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors**

- 1) The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Sub-contractors/sub-vendors.
- 2) The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.
- 3) The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

#### **Article 6: Duration of the Pact**

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 13 Months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded.

If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority of IITD.



**Article 7: Other Provisions**

- 1) This Pact is subject to Indian Law, place of performance and jurisdiction is the Head Quarters of the Division of the Principal/Owner, who has floated the Tender.
- 2) Changes and supplements need to be made in writing. Side agreements have not been made.
- 3) If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by Board Resolution.
- 4) Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 5) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.

**Article 8: LEGAL AND PRIOR RIGHTS**

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

.....  
(For and on behalf of Principal / Owner)

.....  
(For and on behalf of Bidder / Contractor)

**WITNESSES:**

- 1. ....  
(Signature, name and address)
- 2. ....  
(Signature, name and address)

Place:

Dated:



N/W : Replacement of 11KV HT Supply OCB type HT Panel and Ring Main Unit Panel with 11KV VCB type HT Panel boards in Computer Sub-Station, Hospital Sub-Station and New Boys Hostel Sub-Station at IIT Delhi.

**IITD - 7/8**

**INDIAN INSTITUTE OF TECHNOLOGY DELHI**  
**HAUZ KHAS, NEW DELHI - 110016**  
**Percentage Rate Tender / Item Rate Tender & Contract for Works**

Tender for the work of **Replacement of 11KV HT Supply OCB type HT Panel and Ring Main Unit Panel with 11KV VCB type HT Panel boards in Computer Sub-Station, Hospital Sub-Station and New Boys Hostel Sub-Station at IIT Delhi.**

- (A) (I) To be submitted online by **26-12-2022 upto 03:00 PM**  
(II) To be opened on **27-12-2022 at 03:00 PM** online

**e-TENDER**

I / We have read and examined the Notice Inviting Tender, schedule, A, B, C, D, E & F, Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, Clauses of Contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I / We hereby tender for the execution of the work specified for the Board of Governors, IIT Delhi within the time specified in Schedule 'F' viz., schedule of quantities and in accordance in all respect with the specifications, designs, drawing and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respect of accordance with, such conditions so far as applicable.

We agree to keep the tender open for ninety (90) days from the due date of its opening / ninety days from the date of opening of financial bid in case tenders are invited on 2/3 envelop system (**strike out as the case may be**) and not to make any modification in its terms and conditions.

A sum of **Rs. 1,65,534.00 (No Exemption Allowed)** is hereby deposited in IIT Delhi Revenue Account No. 10773572622 as Earnest Money / **A Demand Draft of Rs. 1,65,534.00** favouring 'Registrar, IIT Delhi' has been scanned and uploaded with the Technical Bid. If I / We fail to furnish the prescribed performance guarantee within prescribed period I / We agree that the said The Board of Governors, IIT Delhi, Hauz Khas, New Delhi - 16 or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I / We fail to commence the work as specified, I / We agree that The Board of Governors, IIT Delhi, Hauz Khas, New Delhi - 16 or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise they said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form. Further, I / We agree that in case of forfeiture of Earnest Money & Performance Guarantee as aforesaid I / We shall be debarred for participation in the re-tendering process of the work.

I / We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I / We shall be debarred for tendering in IIT Delhi in future forever. Also, if such a



violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

I / We hereby declare that I / We shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information/derived there from to any person other than a person to whom I / We am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated:

Signature of Contractor

Witness:

Postal Address

Address:

Occupation:

**ACCEPTANCE**

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for an on behalf of The Board of Governors, IIT Delhi, Hauz Khas, New Delhi - 110016 for a sum of (Rupees.....).

The letters referred to below shall form part of this contract agreement:-

- (a)
- (b)

For & on behalf of Board of Governors, IIT Delhi

Signature .....

Dated:

Designation .....

## PROFORMA OF SCHEDULES

[Operative Schedules to be supplied separately to Nos. intending tenderer]

### SCHEDULE 'A'

Schedule of quantities (enclosed)

### SCHEDULE 'B'

Schedule of materials to be issued to the contractor

S.No.	Description of item	Quantity	Rates in figures & words at which the material will be charged to the contractor	Place of issue
←	Nil			→

### SCHEDULE 'C'

Tools and plants to be hired to the contractor

S.No.	Description	Hire charges per day	Place of Issue
←	Nil		→

### SCHEDULE 'D'

Extra schedule for specific requirements/document for the work, if any.

**■■■■■■■■■■■■■■■■■■■■ Nil ■■■■■■■■■■■■■■■■■■■**

### SCHEDULE 'E'

Reference to General Conditions of contract [GCC]

1	Reference to General Conditions of Contract	GCC for Maintenance work 2020 for CPWD works along with correction on slips / amendments issued upto last date of submission of bid.
2	Name of work	<b>Replacement of 11KV HT Supply OCB type HT Panel</b>



			<b>and Ring Main Unit Panel with 11KV VCB type HT Panel boards in Computer Sub-Station, Hospital Sub-Station and New Boys Hostel Sub-Station at IIT Delhi.</b>
3	Estimated cost of work	:	<b>Rs. 82,76,691.00</b>
4	Earnest Money	:	<b>Rs. 1,65,534.00(No Exemption Allowed)</b>
5	Performance Guarantee	:	3 percent of tendered value
6	Security Deposit	:	5 percent of tendered value

**SCHEDULE 'F'**

**GENERAL RULES & DIRECTIONS**

: Officer inviting tender

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2&12.3	:	See below
<b>Definitions:</b>		
2[v] Engineer – in - charge	:	<b>Executive Engineer [Elect]</b>
2[vi] Accepting Authority	:	<b>Institute Engineer</b>
2[x] Percentage on cost of materials and labour to Cover all overheads and profits	:	15 percent
2[xi] Standard schedule of rates	:	<b>DSR-2018 &amp; Market Rate</b>
2[xii] Department	:	E &W, IIT Delhi
9[ii] Standard IITD Contract Form	:	<b>Form 7 and 8</b> modified & Corrected up to date of submission of tender

<b>Clause 1:</b>		
[i] Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance	:	<b>15 days</b>
[ii] Maximum allowable extension with late fees @ 0.1% per day of performance guarantee amount beyond the period provided in (i) above	:	<b>1 to 15 days</b>
<b>Clause 2:</b>		
Authority for fixing compensation under clause 2	:	<b>Institute Engineer</b>
<b>Clause 2 A:</b>		
Whether Clause 2A shall be applicable	:	<b>No</b>
<b>Clause 5:</b>		
Number of days from the date of issue of letter of award for reckoning date of start	:	<b>10 [ten] days</b>

**Milestone(s) as per table given below:-**

Sl. No.	Description of Milestone (Financial)	Time allowed in days (from date of start)	Amount to be with-held in case of non-achievement of mile stone
---------	--------------------------------------	---	---

<b>N O T A P P L I C A B L E</b>			
----------------------------------	--	--	--

Time allowed for execution of work	:	<b>03 Month</b>
Authority to decide:		
Extension of time	:	Executive Engineer [Engineer-in-charge]
Rescheduling of mile stones	:	Executive Engineer
<b>Clause Applicable 6 or 6A:</b>	:	Clause 6A
<b>Clause 7:</b>		
Gross work to be done together with net payment / adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment	:	As per CPWD Specifications and manual
<b>Clause 10 A:</b>		
List of testing equipment to be provided by the contractor at site lab	:	As desired by the Engineer-in-charge relating to the work
<b>Clause 10B(ii):</b>		
Whether Clause 10 B (ii) shall be applicable	:	No
<b>Clause 10C:</b>		
Component of labour expressed as percent of value of work	:	<b>10 percent</b>

**Clause 10CA:**

S.N.	Material covered under this clause	Nearest Materials (other than cement, reinforcement bars and the structural steel) for which All India Wholesale Price Index to be followed	Base Price of all Materials covered under clause 10 CA*
1			
2			
3			
4			

\* Base price of all the materials covered under clause 10 CA is to be mentioned at the time of approval of NIT.

**Clause 10CC**

Clause 10 CC to be applicable in contracts with stipulated period of completion exceeding the period shown in next column	:	<b>18 months</b>
Schedule of component of other Materials, Labour, POL etc. for price escalation		
Component of civil (except materials covered under clause 10CA)/ Electrical construction Materials expressed as percent of total value of work	:	<b>X m : 75 percent</b>

Component of Labour expressed as percent of total value of work	:	<b>Y : 10 percent</b>
Component of P.O.L. expressed as percent of total value of work	:	<b>Not Applicable</b>

**Clause 11**

Specifications to be followed for execution of work	:	<b>CPWD General specifications for Electrical work Part-I (Internal) Part-II (External), Part-IV (Substation), with up to date modifications</b>
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**Clause 12**

Type of work	:	Maintenance works including works of up gradation, aesthetic, special repair, addition/alteration
Clause 12.2. & 12.3		
Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for building work	:	<b>30 percent</b>
Clause 12.5		
Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for foundation work	:	<b>100 percent</b>

**Clause 16**

Competent Authority for deciding reduced rates	:	<b>Executive Engineer</b>
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**Clause 18**

List of mandatory machinery, tools & plants to be deployed by the contractor at site:

1.....	2.....	3.....
4.....	5.....	6.....
7.....	8.....	9.....

**Clause 36 (i)**

Requirement of Technical Representative(s) and recovery Rate

S. No.	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical/ Technical Representative)	Minimum Experience (Years)	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36(i)	
						Figures	Words
1	Graduate or Diploma in Engg.	Electrical or Mechanical	Engineer	2 years for Graduate or 5 years for Diploma	1	15,000/-	Fifteen Thousand

Assistant Engineers retired from Government services that are holding diploma will be treated at par with Graduate Engineers

<< Organization Letter Head >>  
**DECLARATION**

I / We, \_\_\_\_\_ hereby declare that all the information and data furnished by our organization with regard to this tender specification are true and complete to the best of our knowledge. I / we have gone through the specification, conditions and stipulations in details and agree to comply with the requirements and intent of specification.

1	Name & Address of the bidder	:	
2	Phone	:	
3	E-mail	:	
4	Contact person name	:	
5	Mobile number	:	
6	GST number	:	
7	PAN number	:	
8	UTR no. With Date [for payment of EMD]	:	
9	DD / FDR / Banker's Cheque No. [if uploaded scanned copy] for EMD	:	
	<b>BANK DETAILS</b>		
10	Bank name	:	
11	Branch address	:	
12	Branch telephone no.	:	
13	MICR Code of the bank	:	
14	IFSC code	:	
15	Bank Account no.	:	
16	Type of account	:	

We further declare that our organization has not been blacklisted / delisted or put to any holiday by any Institutional agency / Govt. Department / Public Sector Undertaking in the last three years.

[Signature of the bidder]

Name:

Seal of the bidder



## **COMMERCIAL AND ADDITIONAL CONDITIONS**

### **1. GENERAL**

- 1.1. This specification covers supply and delivery of materials at site as per schedule of work, all preparatory work assembly and installation, testing and commissioning of Sub-Station equipments at site.
- 1.2. Name of Work and location: **Replacement of 11KV HT Supply OCB type HT Panel and Ring Main Unit Panel with 11KV VCB type HT Panel boards in Computer Sub-Station, Hospital Sub-Station and New Boys Hostel Sub-Station at IIT Delhi.**
- 1.3. The work shall be executed as per CPWD General Specifications for Electrical Works Part-I (Int.) 2013, Part-II (Ext.) 1994, Part-IV (Sub-Station) 2013, as applicable, as amended up to date, relevant I.E. Rules, BIS/IEC and as per directions of Engineer-in- Charge. These additional specifications/conditions are to be read in conjunction with above and in case of variations; specifications given in these additional conditions shall apply. However, nothing extra shall be paid on account of these additional specification and conditions, as the same are to be read along with schedule of quantities for the work.

### **2. COMMERCIAL CONDITIONS:**

- 2.1. **Type of contract:** The work to be awarded by this tender shall be treated as indivisible works contract.
- 2.2. **Submission and opening of Tenders:**
  - 2.2.1. The tender is in two parts:
    - 2.2.1.1. Part-I -Technical cum Un-priced commercial Bid
    - 2.2.1.2. Part-II-Price Bid
- 2.3. The tender shall be submitted online, duly completed as per NIT conditions within period of bid submission.
- 2.4. The tenderers are advised not to deviate from the technical specifications / item, commercial terms and conditions of NIT like terms of payment, guarantee, arbitration clause, escalation etc.
- 2.5. Technical cum un-priced commercial bid only shall be opened on the due date and time in the presence of tenderers or their authorized representative who wish to remain present.
- 2.6. Scrutiny/evaluation of the technical-cum-commercial bid shall be done by the department. In case, it is found that the technical-cum-commercial bid of a tenderer is not in line with NIT specifications/requirements and/or contains too many deviations, the department reserves the right to reject the technical bid of such firms(s) without making any reference to the tenderer(s).
- 2.7. Necessary clarifications required by the department shall have to be furnished by the tenderer within the time given by the department for the same. The tenderer will have to depute his representative to discuss with the officer(s) of the department as and when so desired. In case, in the opinion of the department a tenderer is taking undue long time in furnishing the desired clarifications, his bid will be rejected without making any reference.
- 2.8. After obtaining clarification from all the tenders, the department will intimate the tenders whose technical cum commercial bids are acceptable.
- 2.9. The price bids of only those tenderers shall be opened whose technical bids are found to be technically acceptable. The time and date of opening of price bid shall be fixed after the technical cum unpriced commercial bid is accepted and intimated to them by post/Fax/e-mail.
- 2.10. The department reserves the right to reject any or all the price bids and call for fresh prices/tenders as the case may be without assigning any reason.

### **3. TERMS OF PAYMENTS**

- 3.1. Payment shall be released after successful completion (Supply, Installation, Testing and satisfactory commissioning) of the work. Bidder should note that necessary documents (PAN card, Cancelled cheque, GST Reg. proof and RTGS mandate form as per prescribed proforma of IIT Delhi) be submitted as soon as the work is awarded to them. Separate Contractor's Code

shall be generated in IIT Delhi if the bidder is a new contractor to IIT Delhi ('Code' is perpetual in nature). Payment shall be processed after submission of Invoice and necessary documents / certificates (as mentioned in the NIT). There is a prevailing practice of pre-audit (for total tendered amount more than 3 lakhs) at IIT Delhi before releasing payment. Bidder shall have to comply all necessary documents as outlined in the Contract as to be desired by the Auditor and or by the Accountant. It may take one to two months in the whole process (from submission / acceptance of bill in CMB / MB by the contractor upto processing by Accounts section) to release payment subject to quick compliance of all submittals by the contractor. Applicable Taxes shall be got deducted from the bill as per prevailing orders of the Government. 'GST part of the bill' shall be released after submission of proof of payment of GST, i.e. B2B challan, etc. by the contractor.

#### **4. SECURITY DEPOSIT**

**4.1.** Security Deposit shall be deducted from each running bill and final bill to the extent of 5% of the gross amount payable. **The security deposit shall be released on the expiry of guarantee period stipulated in the contract.**

#### **5. PERFORMANCE GUARANTEE**

**5.1.** The successful tenderer shall submit an irrevocable performance guarantee of 3% of the tendered amount in addition to other deposit mentioned elsewhere in the contract for his proper performance of the contract agreement within 01 Month of issue of letter of acceptance of tender. This guarantee shall be in the form of Demand Draft/Pay order of irrevocable bank guarantee bond of any schedule bank or the State Bank of India in the specified perform a of Government Security, fixed deposit receipt pledged in favour of **Registrar, IIT Delhi** or as specified in the letter of acceptance of tender. The performance guarantee shall be initially valid up to the stipulated date of completion plus 60 days beyond. This bank guarantee shall be kept valid till the recording of completion certificate for the work by the competent authority.

**5.2.** Income tax, GST, labour cess & other statutory deduction etc. shall be made at source as per the prevalent laws. The deduction of Security Deposit, Income Tax, etc., shall be done after calculation for the above due payment as per clause 3 above and net payment shall reduce accordingly.

#### **6. RATES**

**6.1.** The rates quoted by the tenderer, shall be firm and inclusive of all taxes (including works GST & labour cess), duties, levies, etc. and all charges for packing forwarding, insurance, freight and delivery, installation, testing and commissioning etc. at site including temporary construction of storage, risks overhead charges, general liabilities/ obligations.

#### **7. COMPLETENESS OF TENDER**

**7.1.** All sundry equipments, fitting, unit assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections and all other items which are useful and necessary for efficient assembly and installation of equipment and components of the work shall be deemed to have been included in the tender irrespective of the fact whether such items are specially mentioned in the tender documents or not.

#### **8. STORAGE AND CUSTODY OF MATERIAL**

**8.1.** The agency has to make his own arrangement for storage. No separate storage accommodation shall be provided by the department Watch and ward of the storage and their safe custody shall be responsibility till the final taking over of the installation by the department.

#### **9. CARE OF THE BUILDING**

**9.1.** Care shall be taken by the contractor while handling and installing the various equipment and components of the work to avoid damage to the building. He shall be responsible for repairing all damages and restoring the same to their original finish at his cost. He shall also remove at his cost all unwanted and waste material arising out of the installation from the site of work.



**10. COMPLETION PERIOD**

10.1. The completion period indicated in the tender documents is for the entire work of planning, designing, approval of drawings etc, arrangement of materials & equipments, delivery at site including transportation, installation, testing, commissioning and handing over of the entire system to the satisfaction of the Engineer-in-charge.

**11. GUARANTEE**

11.1. All equipments shall be guaranteed for a period of 12 Months from the date of taking over the installation by the department against unsatisfactory performance and/ or breakdown due to defective design, workmanship or material. The equipment or component, or any part thereof, so found defective during guarantee period shall be forthwith repaired or replaced free of cost to the satisfaction of the Engineer-in- Charge. In case it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of Engineer-in-Charge in this regard shall be final & binding on the contractor.

11.2. The tenderer shall guarantee among other things, the following:

- 11.2.1. Quality, strength and performance of the material used as per manufacturer's standards.
- 11.2.2. Safe mechanical and electrical stress on all part under all specified conditions of operation.
- 11.2.3. Satisfactory operation during the maintenance period.

**12. POWER SUPPLY**

12.1. Power supply shall be made available by the department at one point near the site free of cost, if required. Further, the arrangement for tapping power supply from this point shall be made by the contractor.

**13. EXTENT OF WORK**

13.1. The work shall comprise of entire labour including supervision and all material necessary to make a complete installation and such tests and adjustment and commissioning as may be required by the department. The term complete installation shall not only mean major items of the plant and equipments covered by the specification but all incidental sundry components necessary for complete execution and satisfactory performance of installation with all layout charts whether or not those have been mentioned in details in the tender documents in connection with this contract as this is a turnkey job.

**14. VALIDITY**

14.1. Tenders shall be valid for acceptance for a period 90 days of days from the date of opening of price bid.

**15. COMPLIANCE WITH REGULATIONS AND INDIAN STANDARDS**

15.1. All works shall be carried out in accordance with relevant regulation both statutory and those specified by the Indian Standards related to the works covered by this specification in particular, the equipment and installation will comply with the following:

- 15.1.1. Factories Act
- 15.1.2. Indian Electricity Rules
- 15.1.3. B.I.S. & other standards as applicable
- 15.1.4. Workmen's compensation Act
- 15.1.5. Statutory norms prescribed by local bodies like fire department, CEA, Power Supply Co. etc.

**16. INDEMNITY**

16.1. The successful tenderer shall at all times indemnify the department, consequent on this works contract. The successful tenderer shall be liable, in accordance with the Indian Law and Regulations for any accident occurring due to any cause and the contractor shall be responsible for any accident or damage incurred or claims arising there from during the period of erection, construction and putting into operation the equipments and ancillary equipment under the supervision of the successful tenderer in so far as the latter is responsible. The successful

tenderer shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the successful tenderer on account of the above.

**17. ERECTION TOOLS**

17.1. No tools and tackles either for unloading or for shifting the equipments for erection purposes would be made available by the department .The successful tender shall make his arrangement for all these facilities

**18. COOPERATION WITH OTHER AGENCIES AND OCCUPANTS OF THE BUILDING**

18.1. The successful tenderer shall co-ordinate with other working contractors, if any and other occupants of different offices / Labs, etc., and exchange freely all technical information so as to make the execution of this work / contract smooth. No remuneration should be claimed from the department for such technical cooperation. If any unreasonable hindrance is caused to other agencies and any completed portion of the work has to be dismantled and re-done for want of cooperation and coordination by the tenderer during the course of work, such expenditure incurred will be recovered from the successful tenderer if the restoration work to the original condition or specification of the dismantled portion of work was not under taken by the tenderer himself.

**19. MOBILIZATION ADVANCE**

19.1. No mobilization advance shall be paid for this work

**20. INTERPRETING SPECIFICATION**

20.1. In interpreting the specification, the following order of decreasing importance shall be followed in case of contradictions:

20.1.1. Schedule of quantities

20.1.2. Technical Specification

20.1.3. Drawing (if any)

20.1.4. General Specification for Electrical Works of CPWD (relevant Parts)

20.1.5. Relevant BIS or other international code in case BIS code is not available.

**21. POLICY OF THE INSTITUTE**

Institute has a policy against sexual harassment and is committed to providing an environment free from sexual harassment of women at the workplace. Contractor shall have to abide by the policy of the Institute with due diligence. Any violation on the part of the contractor shall be dealt with the extant rules of the Institute.



## **SPECIAL TERMS & CONDITIONS**

1. The Work has to be completed within the stipulated time.
2. In case of delay beyond the control of the contractor due to unforeseen circumstances or force majeure reasons, EOT shall be considered.
3. In case it is noticed that the firm is intentionally delaying the work for one reason or the other, the firm could be debarred for future works i/c forfeiture of the EMD.
4. In case of any extra item, the contractor shall seek prior permission in writing from the Engineer-in-charge and submit analysis of rates.
5. The quantities are tentative and could be increased or decreased.
6. The material shall be got approved from the Engineer-in-charge before utilization. Inferior/substandard material shall have to be removed from the site immediately. In case the contractor fails to remove the inferior / substandard material the Board reserves the right to dispose it off.
7. In case of slow progress/intentional delay by the contractor the work can be withdrawn/rescinded in whole or part thereof and executed at the risk & cost of the defaulting contractor.
8. In case of any dispute, the arbitrator shall be appointed by the Director, IIT Delhi and his decision shall be Final as well as binding on both the parties.
9. Hindrance register shall be maintained by AEE (E) / JE (E) at site.
10. Instructions given in Site Order Book would be followed immediately by the contractor.
11. The work shall be carried out as per CPWD specification and to the entire satisfaction of Engineer-in-charge.
12. Non Judicial stamp paper worth Rs. 10/- (Ten Rupees only) will be submitted by the contractor which will have to be signed as token of acceptance.
13. No T& P would be supplied by the Institute and contractor will have to make his own arrangement.
14. The contractors are advised to get acquainted with the proposed work including specifications & its site and additional conditions carefully before quoting. No claim of any sort shall be entertained or account of any site conditions and ignorance of specifications & additional conditions. The work shall be carried out as per the availability of site.
15. The work shall be carried out as per CPWD specifications 2013 volume I & II & IV with up to date correction slips unless otherwise specified in the nomenclature of individual item or in the specification, additional conditions where specifications are silent, the decision of Engineer-in-Charge shall be final and binding on contractor.
16. The rates quoted by the contractor shall be taken as net and nothing extra shall be paid on any account i.e. Royalty, Cartage, GST & stacking of material required at places etc.

17. The rates for different items of work shall apply for Heights & Depths, Leads & Lifts unless otherwise specified in the agreement or specifications applicable in the agreement.
18. Any damage done by the contractor to any existing item / any part of the building during the course of execution of work shall be made good by at his own cost.
19. The contractor shall submit a detailed programme of work within 7 days of the date of award of work. The Engineer - in- Charge can modify the programme and the contractors have to work accordingly.
20. The contractor shall make his own arrangement for getting the permission with respect to trucks from the Traffic Police.
21. No payment shall be made to contractor for any damage caused by the rain, snowfall or any other natural causes what so ever during the execution of work.
22. Some restrictions may be imposed by the security staff of IIT Delhi etc. on the working and or movement of labour & material. **No labour camp/ huts shall be allowed in IIT Campus.**
23. The contractor shall be fully responsible for the safe custody of the material issued or brought at site by him for doing the work.
24. The Malba / Garbage generated at site due to construction activities shall be removed from the site immediately & shall be disposed off by the contractor to the approved dumping site of MCD.
25. The contractor shall clean the site thoroughly of scaffolding materials, rubbish, equipments left out of his work & dress the site around the building to the complete satisfaction of the Engineer-in-Charge before the work is treated as completed.
26. Taxes shall be deducted from the bill of contractor as applicable.

## ACCEPTABLE MAKE OF EQUIPMENTS AND MATERIALS

ACCEPTABLE MAKE OF EQUIPMENTS AND MATERIALS		
S.No.	Name of items	Approved Make
1.	11KV supply VCB type HT panels complete with accessories	ABB / Siemens / Kirloskar / Schneider / L&T / Crompton Greaves
2.	11KV supply Cable Joint Kit	Raychem / M-Seal / Densons / 3M

**N.B.:** For any item not covered in the above list, the contractor shall require to get the samples approved from the Engineer-in-charge before the supply is made.

## BID SUBMISSION

### ONLINE BID SUBMISSION:

The Online bids (Complete in all respect) must be uploaded online in **two** envelopes as explained below.

<b>Envelope – 1</b> (Following documents to be provided as single PDF file)			
Sl. No.	Documents	Content	File Types
1.	Technical Bid	Organization Declaration Sheet as per Annexure - I.	.PDF
2.		EMD submission proof.	.PDF
3.		Enlistment order of contractor.	.PDF
4.		Attested Certificate of work experience.	.PDF
5.		Certificate of registration for GST.	.PDF
6.		Affidavit as per provision of the clause 1.3.2 of IITD-6 <u>[To be submitted on stamp paper and date of purchase of stamp paper shall not be earlier than the publication of NIT. NIT number and Name of Work shall invariably be written on the original stamp paper of the Affidavit. Any deviation will lead to rejection of bid without further notice.]</u>	.PDF
7.		Acceptance to execute integrity pact.	.PDF
8.		IITD 7/8 duly signed by the bidder.	.PDF
9.		EPFO & ESIC Registration proof with upto date paid challan.	.PDF
10.		Valid Electrical Licence.	.PDF
11.		Any other document as specified in the NIT.	.PDF
<b>Envelope – 2</b>			
Sl. No.	Types	Content	
1.	Financial Bid	Price bid should be submitted in BOQ format.	.XLS

## SCHEDULE OF QUANTITY

**Name of work : Replacement of 11KV HT Supply OCB type HT Panel and Ring Main Unit Panel with 11KV VCB type HT Panel boards in Computer Sub-Station, Hospital Sub-Station and New Boys Hostel Sub-Station at IIT Delhi.**

S.N.	Description of items	Quantity	Rate [Rs]	Unit	Amount [Rs]
<b>1</b>	<p>Supplying, installation, testing &amp; commissioning of indoor type floor mounted metal clad, 11 KV VCB type 5 panel board with 5 Nos. VCBs totally enclosed and fully interlocked, horizontal draw out, horizontal isolation type breaker as per IEC 62271-100/ IS 13118, as amended up to date and additional specifications, having capacities as mentioned below, single break, trip free mechanism, motorized / manually charged and auto/ manually closing breaker suitable for use on 11 KV, 3 Phase, 50 Hz A.C. supply with Short circuit fault level of 500 MVA (26.30 kA) for 3 sec, Internal Arc Withstand capacity of 26.3 kA for 1 sec, complete with self contained, fully interlocked, rack in and rack out mechanism, air insulated but encapsulated copper bus bars of 630 Amps capacity, all the controlling &amp; protection circuits and spring charging motors shall be operated at 220 volts AC, breaker featured with mechanical ON/OFF indicator with hand trip device, spring release coil, 24 DC shunt trip coil and auxiliary switch of 6 NO + 6 NC ; Panels shall be tested for Seismic zone 4 as per IS1893, and equipped with accessories including connections suitable for 3x400 / 300 / 240 sq mm XLPE 11 KV cable (cable entry from bottom) end termination with heat shrinkable jointing material etc. as required including providing suitable size MS channel base frame, one no. earthing truck for complete 5 panel board to isolate cable and bus bar side along with following switchgears:-</p> <p><b>Note :-</b> The panel shall be fabricated only at the OEM's factory / works as per description of item and approved design of the manufacturer. User may go for stage inspection if required to monitor the progress of panels at OEM's factory. VCB shall be floor rolling trolley mounted type. Panel shall have IP 4X degree of protection. The test report shall be submitted for the type test and internal arc test for the panels. Cassette type VCB shall not be accepted.</p> <p>Make : ABB / Siemens / Kirloskar / Schneider / L&amp;T / Crompton Greaves</p>				
<b>1.1</b>	<p>630A VCB as Main Incomer / Outgoing ---- 3 Nos.</p> <p>(a) 3 Nos. - 11KV/110Volts PT Class 0.5 /3P accuracy and 100VA burden with Voltmeter (0-15 KV), digital type, selector switch for voltmeter and protection MCB for HT metering up to 12 KV on incomer.</p> <p>(b) 3 Nos. - (0-300A) digital Ammeter, selector switch for ammeter</p> <p>(c) 3 Nos. - Microprocessor based numerical relay with 3</p>				

	<p>nos. O/C + E/F with highest S/C protection and RS 485 communication port.</p> <p>(d) 3 Nos. - Set of dual core dual ratio 3CTs 300/150/5/5 A of 15VA (7.5 VA for each core) burden and accuracy Class-0.5 for metering and class 5P10 for protection.</p> <p>(e) 3 Nos. - Master Trip Relay</p> <p>(f) 3 Nos. - Digital Multifunction Meter having display of electrical parameters like I, V, Hz, PF, Active, reactive &amp; apparent power &amp; energy, THD, Max demand with RTC, Individual harmonics upto 31st order with RS 485 communication port.</p> <p>(g) 3 Nos. - Trip circuit supervision relay.</p> <p>(h) 3 Nos. - 6 window annunciator with hooter.</p> <p>(i) 3 Nos. - Under voltage relay</p> <p>(j) 3 Nos. - Over voltage relay</p>				
<b>1.2</b>	<p>630A VCB as Outgoing ---- 2 Nos.</p> <p>(a) 2 Nos. - (0-150A) digital Ammeter, selector switch for Ammeter.</p> <p>(b) 2 Nos. - Microprocessor based numerical relays with 3 nos. O/C + E/F with highest S/C protection and RS 485 communication port.</p> <p>(c) 2 Nos. - Set of dual core dual ratio 3CTs 150/75/5/5 A of 15VA (7.5 VA for each core) burden and accuracy Class- 0.5 for metering and class 5P10 for protection.</p> <p>(d) 2 Nos. - Master Trip Relay</p> <p>(e) 2 Nos. - Digital Multifunction Meter having display of electrical parameters like I, V, Hz, PF, Active, reactive &amp; apparent power &amp; energy, THD, Max demand with RTC, Individual harmonics upto 31st order with RS 485 communication port.</p> <p>(f) 2 Nos. – Auxiliary relay for transformer protection, alarm, trip, and winding.</p> <p>(g) 2 Nos. - Trip circuit supervision relay.</p> <p>(h) 2 Nos. - 6 window annunciator with hooter.</p>				
<b>1.3</b>	<p>Inbuilt Power Pack converter unit ---- 5 Nos.</p> <p>Inbuilt Power Pack converter unit with 220 Volt, AC input and 24Volts DC continuous output suitable for closing / tripping / indication of HT Panel board with 2 Nos. 12 Volts 7 AH SMF batteries, charging unit as per manufacture design.</p>	1		Set	
<b>2</b>	<p>Supplying, installation, testing &amp; commissioning of indoor type floor mounted metal clad, 11 KV VCB type 3 panel board with 3 Nos. VCBs totally enclosed and fully interlocked, horizontal draw out, horizontal isolation type breaker as per IEC 62271-100/ IS 13118, as amended up to date and additional specifications, having capacities as mentioned below, single break, trip free mechanism, motorized / manually charged and auto/ manually closing breaker suitable for use on 11 KV, 3 Phase, 50 Hz A.C. supply with Short circuit fault level of 500 MVA ( 26.30 kA) for 3 sec, Internal Arc Withstand capacity of 26.3 kA for 1 sec, complete with self contained, fully interlocked, rack in and rack out mechanism, air insulated but encapsulated copper bus bars of 630 Amps capacity, all</p>				

	<p>the controlling &amp; protection circuits and spring charging motors shall be operated at 220 volts AC, breaker featured with mechanical ON/OFF indicator with hand trip device, spring release coil, DC shunt trip coil and auxiliary switch of 6 NO + 6 NC ; Panels shall be tested for Seismic zone 4 as per IS1893 and equipped with accessories including connections suitable for 3x400 / 300 / 240 sq mm XLPE 11 KV cable (cable entry from bottom) end termination with heat shrinkable jointing material etc. as required including providing suitable size MS channel base frame, one no. earthing truck for complete 3 panel board to isolate cable and bus bar side along with following switchgears:-</p> <p><b>Note :-</b> The panel shall be fabricated only at the OEM's factory / works as per description of item and approved design of the manufacturer. User may go for stage inspection if required to monitor the progress of panels at OEM's factory. VCB shall be floor rolling trolley mounted type. Panel shall have IP 4X degree of protection. The test report shall be submitted for the type test and internal arc test for the panels. Cassette type VCB shall not be accepted.</p> <p>Make : ABB / Siemens / Kirloskar / Schneider / L&amp;T / Crompton Greaves</p>				
<b>2.1</b>	<p>630A VCB as Main Incomer / Outgoing ---- 2 Nos.</p> <p>(a) 2 Nos. - 11KV/110Volts PT Class 0.5 / 3P accuracy and 100VA burden with Voltmeter (0-15 KV), digital type, selector switch for voltmeter and protection MCB for HT metering up to 12 KV on incomer.</p> <p>(b) 2 Nos. - (0-300A) digital Ammeter, selector switch for ammeter</p> <p>(c) 2 Nos. - Microprocessor based numerical relay 3 nos. O/C + E/F with highest S/C protection and RS 485 communication port.</p> <p>(d) 2 Nos. - Set of dual core dual ratio 3CTs 300/150/5/5 A of 15VA (7.5 VA for each core) burden and accuracy Class-0.5 for metering and class 5P10 for protection.</p> <p>(e) 2 Nos. - Master Trip Relay</p> <p>(f) 2 Nos. - Digital Multifunction Meter having display of electrical parameters like I, V, Hz, PF, Active, reactive &amp; apparent power &amp; energy, THD, Max demand with RTC, Individual harmonics upto 31st order with RS485 communication port.</p> <p>(g) 2 Nos. - Trip circuit supervision relay.</p> <p>(h) 2 Nos. - 6 window annunciator with hooter.</p> <p>(i) 2 Nos. - Under voltage relay</p> <p>(j) 2 Nos. - Over voltage relay.</p>				
<b>2.2</b>	<p>630A VCB as Outgoing ---- 1 No.</p> <p>(a) 1 No. - (0-150A) digital Ammeter, selector switch for Ammeter.</p> <p>(b) 1 No. - Microprocessor based numerical relays 3 nos. O/C + E/F with highest S/C protection and RS 485 communication port.</p> <p>(c) 1 No. - Set of dual core dual ratio 3CTs 150/75/5/5A of 15VA (7.5VA for each core) burden and accuracy</p>				

**N/W : Replacement of 11KV HT Supply OCB type HT Panel and Ring Main Unit Panel with 11KV VCB type HT Panel boards in Computer Sub-Station, Hospital Sub-Station and New Boys Hostel Sub-Station at IIT Delhi.**

	Class- 0.5 for metering and class 5P10 for protection. (d) 1 No. - Master Trip Relay (e) 1 No. - Digital Multifunction Meter having display of electrical parameters like I, V, Hz, PF, Active, reactive & apparent power & energy, THD, Max demand with RTC, Individual harmonics upto 31st order with RS 485 communication port. (f) 1 No. – Auxiliary relay for transformer protection, alarm, trip, and winding. (g) 1 No. - Trip circuit supervision relay. (h) 1 No. - 6 window annunciator with hooter.				
<b>2.3</b>	Inbuilt Power Pack converter unit ---- 3 Nos. Inbuilt Power Pack converter unit with 220 Volt, AC input and 24Volts DC continuous output suitable for closing / tripping / indication of HT Panel board with 2 Nos. 12 Volts 7 AH SMF batteries, charging unit as per manufacture design.	2		Set	
<b>3</b>	Supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required. Make: Raychem / M-Seal / Densons / 3M				
<b>3.1</b>	120 sq. mm / 150 sq. mm	2		Each	
<b>3.2</b>	300 sq. mm / 400 sq. mm	2		Each	
<b>4</b>	Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including ferrules suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required : Make: Raychem / M-Seal / Densons / 3M 4.1 ---- 300 sq. mm / 400 sq. mm	2		Each	
<b>5</b>	Dismantling of existing 11KV OCB type 3 / 5 panel board / SF6 type Ring Main Unit including repairing of floor, disconnection of existing HT incoming and outgoing cables of size 3 x 150 sq. mm to 400 sq. mm in each panel, shifting and handing over of the same from Hospital Sub-Station, Computer Sub-Station and New Boys Hostel Sub-Station to Main Sub-Station (approx. 0.5 KM and 1 KM distance) in safe condition etc. complete as required.	3		Job	
	<b>Total</b>				

D'Man / STS Plg.

A.E.E. (E) S/Stn.

E.E. (E)

C.....Nil

I..... Nil

O..... Nil

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D'Man /J.E.

A.E.E.(E)S/Stn.

E.E.(E)