



**INTER-UNIVERSITY ACCELERATOR CENTRE (IUAC)
NEW DELHI**

TENDER NO: IUAC/NIT/ 30-R/ UGN/ 2021-2022

TENDER DOCUMENTS FOR

“Refurbishing of LT Panel at Inter-University Accelerator Centre (IUAC)”

**INTER-UNIVERSITY ACCELERATOR CENTRE (IUAC)
ARUNA ASAF ALI MARG
POST BOX NO. 10502
NEW DELHI – 110 067**

INTER - UNIVERSITY ACCELERATOR CENTRE
(An Autonomous Centre of UGC)
Aruna Asaf Ali Marg, New Delhi - 110067

NOTICE INVITING E - TENDER

Tender Number : IUAC/NIT/30R/UGN/2021-22

Date : 15.02.2022

Inter - University Accelerator Centre (IUAC) invites online bids on behalf of the Director IUAC, New Delhi through e-procurement Portal under two bid system, viz., Technical and Financial bids, from eligible / experienced parties for the “**Refurbishing of LT Panel at Inter-University Accelerator Centre (IUAC)**”

Tender Documents may be downloaded from Central Public Procurement (CPP) Portal free of cost <https://eprocure.gov.in/eprocure/app>. Aspiring Bidders who have not enrolled / registered in e-procurement portal should enroll / register before participating through the website <https://eprocure.gov.in/eprocure/app>. Bids should be submitted online only at website: **<https://eprocure.gov.in/eprocure/app>**. Tenderers / Bidders are advised to follow the instructions provided in the e-procurement portal. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned documents.

Only bids received through e-procurement portal will be considered for opening. Bids not covering full scope of work/supply of the products/goods will be rejected and only complete bids will be considered. IUAC reserves the right to accept / reject any / all tenders in part / full without assigning any reasons whatsoever, and the decision of IUAC in this regard will be binding on all the bidders.

Bidder has to select the payment option as “online” to pay the EMD as applicable by going to the link <https://services.sabpaisa.in/pages/iuac.html> . The Earnest Money Deposit shall be in the form of online payment and it should be deposited before the bid opening. Bidders registered with MSME/ NSIC are exempted from payments of EMD however, they have to submit Bid Security Declaration Form. Tenderers registered with MSME/NSIC (the unit being registered for the item/work tendered) are required to upload copy of valid registration certificate in the website <https://eprocure.gov.in/eprocure/app> along with technical bid.

Bidders are advised to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard .XLS BOQ Format with the tender document, then the same is to be downloaded and to be filled and submitted online without modifying the format. **If the BOQ file is found to be modified by the bidder, the bid will be rejected.**

Any Corrigendum / Amendments in respect of above tender shall be issued on website **<https://eprocure.gov.in>** and www.iuac.res.in only. Bidders should take into account any corrigendum published on the tender document before submitting their bids. The Director, IUAC reserves the right to accept/reject any/all tenders in part/full without assigning any reasons thereof.

INTER-UNIVERSITY ACCELERATOR CENTRE (IUAC) NEW DELHI

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**INTER-UNIVERSITY ACCELERATOR CENTRE
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NEW DELHI-110067**

E-TENDER DOCUMENT

Name of the Work : **“Refurbishing of LT Panel at Inter-University Accelerator Centre (IUAC)”**

Estimated Amount : Rs.24,000/-

Last Date and Time of Submission of : 08/03/2022 at 3.00 PM
Tender

Date & Time for Opening of Tender : 09/03/2022 at 3.30 PM
(Tech. Bid-Part-A)

Date & Time for Opening of Tender : To be intimated to technically qualified bidders
(Price Bid-Part-B)

Contact persons : Administrative Officer (S&P),
Email : iuacstores@gmail.com
Phone : 2412 6018, 2412 6022

For Technical
In-charge , Electrical
Phone : 2412 6018, 2412 6022

SECTION-I

1. INSTRUCTION TO BIDDERS FOR ONLINE BID SUBMISSION

The bidders are required to submit soft copies of their bids electronically on the CPP Portal. 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: <https://eprocure.gov.in/eprocure/app> .

1.1 REGISTRATION

- a) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link “Online bidder Enrollment” on the CPP Portal which is free of charge.
- b) As part of the enrollment process, the bidders will be required to choose a unique user name and assign a password for
- c) 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.
- d) Bidder then logs in to the site through the secured log-in by entering their user ID / password

1.2 SEARCHING FOR TENDER DOCUMENTS

- a) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, 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 tender published on the CPP Portal.
- b) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective “My Tenders” folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- c) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Help desk.

1.3 PREPARATION OF BIDS

- a) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- b) Please go through the tender advertisement and the 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 each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- c) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS /JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.

- d) 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” or „“Other Important Documents”” 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.

1.4 SUBMISSION OF BIDS

- e) Bidder should log into the site well in advance for bid submission so that they can 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.
- f) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- g) Bidder has to select the payment option as “online” to pay the tender fee / EMD as applicable by going to link:<https://services.sabpaisa.in/pages/iuac.html>..
- h) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. 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 file name. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
- i) 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.
- j) 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. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- k) The uploaded tender documents become readable only after the tender opening by the authorized bid openers. Upon the successful and timely submission of bids (ie after Clicking “Freeze Bid Submission” in the portal), 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.
- l) The bid summary has to be printed and kept as an acknowledgment of the submission of the bid. This acknowledgment may be used as an entry pass for any bid opening meetings.

1.5 ASSISTANCE TO BIDDERS

- m) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- n) 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 Help desk. The contact number for the help desk is 1800 3070 2232.

SPECIAL INSTRUCTIONS TO BIDDERS FOR REGISTRATION WITH COMPETENT AUTHORITY

Bidders Registration

- 1) Any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the Competent Authority constituted by the Department for Promotion of Industry and Internal Trade (DPIIT).
- 2) **“Bidder”** for the purpose of this tender (including the term 'tender', 'consultant' 'vendor' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several person, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated here in before, including any agency, branch or office controlled by such person, participating in a procurement process.
- 3) **“Bidder from a country which shares a land border with India”** for the purpose of this tender means:
 - a) An entity incorporated, established or registered in such a country; or
 - b) A subsidiary of an entity incorporated, established or registered in such a country; or
 - c) An entity substantially controlled through entities incorporated, established or registered in such a country; or
 - d) An entity whose beneficial owner is situated in such a country; or
 - e) An Indian (or other) agent of such an entity; or
 - f) A natural person who is a citizen of such a country; or
 - g) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above
- 4) **“The Beneficial owner”** for the purpose of (3) above will be as under:
 - 1) In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person(s), has a controlling ownership interest or who exercises control through other means.

Explanation: -

 - a) “Controlling ownership interest” means ownership of, or entitlement to, more than twenty-five per cent of shares or capital or profits of the company;
 - b) “Control” shall include the right to appoint the majority of the directors or to control the management or policy decisions, including by virtue of their shareholding or management rights or shareholder’s agreements or voting agreements;
 - 2) In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;
 - 3) In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
 - 4) Where no natural person is identified under (i) or (ii) or (iii) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;

- 5) In case of a trust, the identification of beneficial owner(s) shall including identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

“**An Agent**” for the purpose of this Order is a person employed to do any act for another, or to represent another in dealings with third persons.

Sub-contracting in works contracts

In works contracts, including turnkey contracts, contractors shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

***Please note that the bidders shall provide the mandatory Certificates in the following formats on their registered Company's letter heads:**

Certificate for Tenders involving procurement

“I/We have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I/we certify that we are not from such a country or, if from such a country, have been registered with the Competent Authority, I/we hereby certify that we fulfill all requirements in this regard and are eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached]”

Certificate for Tenders for Works involving possibility of subcontracting

“I/We have read the clause regarding restrictions of procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; I/we certify that we are not from such a country or, if from such a country, have been registered with the Competent Authority and will not sub-contract any work to a contracting from such countries unless such contractor is registered with the Competent Authority. I/we hereby certify that we fulfill all requirements in this regard and is/are eligible to be considered. [Where applicable, evidence of valid registration by the competent Authority shall be attached.]”

Tenderer’s Signature and seal

2: GENERAL TERMS AND CONDITIONS

2.1 Submission of Tender: Tenders should be uploaded on GEM portal in two parts separately, i.e. "Technical Bid" (Part-A) and "Price Bid / BOQ" (Part-B). No other mode of submission will be accepted. Any clarifications/amendments/corrigenda etc., to NIT before last date of submission of bid will only be available on our website: www.iuac.res.in. Therefore bidders are advised to keep visiting our website.

2.2 Technical Bid (Part-A) :

Pre-qualification of Bidder

The bids from Electrical Contractors/ panel fabricators / Electrical agencies. Required warranty cover of the manufacturers for the product will be provided by such supplier. IUAC reserves the right to visit the working sites mentioned by bidders as proof of experience to ascertain the quality of service rendered. The bidder will have to arrange for such visit. Following documents are essentially to be submitted along with technical bid for technical qualification. Price bid of only those bidders will be opened who are technically qualified.

Mandatory documents to be submitted are;

- i)** Profile of the Bidder (on bidders letter head)
- ii)** Tender acceptance letter. (on bidders letter head)
- iii)** Copy of EMD submission proof (on bidders letter head)
- iv)** Bid Security Declaration (on bidders letter head)
- v)** Declaration by bidder (on bidders letter head)
- vi)** Average annual financial turnover during the last three financial years ending 31st March, 2021[2018-19, 2019-20 & 2020-21] shall be at least Rs.15.0 lakhs. Duly audited financial statement/balance sheet/certified by CA to be submitted as supporting documents.
- vii)** Declaration for Code of Integrity and Conflict of Interest
- viii)** Declaration of Local Content
- ix)** Entire NIT (except Price bid) duly signed & stamped by the bidder as a token of acceptance of the NIT conditions
- x)** Copy of work orders for "SITC/fabrication/refurbishing of electrical panels" successfully executed during the last 7 years for Govt / Autonomous Body / PSU / Ltd / reputed Pvt. Ltd. companies in the following manner:
One similar work, each of the value not less than Rs9.6 lakh
OR
Two similar works, each of the value not less than Rs 6 lakh
OR
Three similar works, each of the value not less than Rs 4.8 lakh
- xi)** Satisfactory work completion certificate of above works from client with contact details. The work order and completion certificate should be for the same work.
- xii)** Self attested copies of PAN and GST registration

2.3 Price Bid (Part-B):

In this bid the bidder is required to quote his rates/prices in Annexure-XII. The quoted prices shall be excluding all the taxes levied by statutory Govt. bodies. These shall be charged and

payable extra as applicable from time to time on actual basis. The bidders should quote unconditional rates.

No payment other than as specified in the price schedule for each item and which has been accepted by the bidder, shall be payable to the successful bidder.

2.4 Decision on reasonability of rates:

- i) IUAC reserves right to take a view on the reasonability of the amount of all rates and overhead & profit charges. The decision of the Centre in this regard shall be final and binding. No representation will be entertained and replied to.
- ii) If the Centre considers that the rates quoted by the bidder is not feasible, such tender shall be treated as non-responsive and the tender with the next higher rate shall be evaluated and this process will be iterated till a tender with reasonable rates is found and the work will be awarded to such bidder only.

2.5 Earnest Money Deposit:

Bidder has to select the payment option as “online” to pay the EMD as applicable by going to the link <https://services.sabpaisa.in/pages/iuac.html> . The Earnest Money Deposit shall be in the form of online payment and it should be deposited before the bid opening. Bid Security shall be refunded to the un-successful bidders on award of tender and to successful bidders on receipt of Performance Security as per T&C point no. 8 below.

EMD is the mandatory requirement however the MSMEs/NSIC registered with Government Agencies are exempted from payment of Earnest Money Deposit (EMD) subject to conditions given below: -

- i) MSMEs participating in the tender must submit valid & authorized copy of certificate of registration. The MSME’s Bidder to note and ensure that nature of services and goods/items manufactured mentioned in MSME’s certificate matches with the nature of the services and goods /items to be supplied as per Tender.
 - ii) The registration certificate issued by agencies must be valid as on Bid closing date of the tender. Bidder shall ensure validity of registration certificate in case bid closing date is extended.
- i) The MSMEs who have applied for registration or renewal of registration with any of the authorised agencies / bodies, but have not obtained the valid certificate as on close date of the tender, are not eligible for exemption / preference.

2.6 Bid Opening and Evaluation of Bids

Opening of Bids

The E-bids shall be opened on-line. The technical bids will be evaluated to shortlist the eligible bidders. The technical bids of only eligible bidders shall be considered for further processing (technical evaluation).

Bidder whose technical bid is found to be acceptable and meeting the eligibility requirements as specified in this tender will be considered as technically qualified.

IUAC will open commercial bids of only the technically qualified/short-listed bids.

In case, the day of bid opening is declared a holiday by the government, the E-bids will be opened on the next working day at the same time. No separate intimation shall be sent to the bidders in this regard

Since E-bid is an on-line process, the E-bid opening or any other process may be delayed due to

any technical/server issue. If any such issue arises, this will not be tantamount to process delay and IUAC will not be responsible for the same.

On opening of bids on-line, accepting the bid would not mean that the firm is technically or financially qualified.

2.7 Clarification of Bids and shortfall documents

- i)** During the evaluation of Technical or Financial Bids, IUAC may, at its discretion, but without any obligation to do so, ask Bidder to clarify its bid by a specified date. Bidder should answer the clarification within that specified date (or, if not specified, 7 days from the date of receipt of such request). The request for clarification shall be submitted in writing or electronically, and no change in prices or substance of the bid shall be sought, offered, or permitted that may grant any undue advantage to such bidder.
- ii)** If discrepancies exist between the uploaded scanned copies and the Originals submitted by the bidder, the original copy's text, etc., shall prevail. Any substantive discrepancy shall be construed as a violation of the Code of Integrity, and the bid shall be liable to be rejected as non responsive in addition to other punitive actions under the Tender Document for violation of the Code of Conduct.
- iii)** IUAC reserves its right to, but without any obligation to do so, to seek any shortfall information/ documents only in case of historical documents which pre-existed at the time of the tender opening, and which have not undergone change since then and does not grant any undue advantage to any bidder.

2.8 Validity of Tender: The Tender shall be valid for our acceptance without any change in rates and NIT conditions for a period of 90 days from the date of opening of tender.

2.9 Completion Time: The completion time for the works shall be 90days. The time allowed for the completion of work to be reckoned from the 10th day after the date of issuance of award letter/purchase order whichever is earlier. Any delay in completion of the work/supply due to reasons attributable to the vendor / manufacturer is liable to liquidated damages as per clause 2.20 of this NIT. However, under the force-majeure conditions as per clause 2.21 of NIT, IUAC may grant suitable time extension for which vendor has to request along with the justification / reasons well in advance to the Director, IUAC for approval without any prejudice or price escalation.

2.10 Terms of Payment

Following payment terms will be applicable

- i)** 60% payment will be made after supply of all the material and satisfactory refurbishing the panel against the invoice by bidder with supporting test certificates/documents and certification by IUAC person.
- ii)** Balance 40% will be released after satisfactory installation testing and commissioning of the refurbished panel against submission of final bill. Release of final amount is subjected to submission of PBG equivalent to 10% value of project cost. Please refer cl no.2.13.3 for alternate options.

2.11 Technical terms and conditions (Scope of Work): Detailed scope of work, special terms and conditions of this contract, equipment covered and other details are enclosed with this NIT as per Section-IV.

2.12 Labour Laws: The Bidder shall abide by all the prevalent rules and regulations related to labour laws, accident, workmen compensation act, workmen insurance, ESI, EPF, etc. This will be the sole responsibility of the Bidder. IUAC will not be a party at any stage in any of the disputes relating to the above. In case, any liability arises due to non-conformance by the Bidder, under no circumstances IUAC will be liable for the same. 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.

2.13 Securities/guarantees:

2.13.1 Performance Security deposit: Performance Security for Works Contract period

The supplier shall submit the Performance Security equivalent to five percent of contract value in the form of Fixed Deposit Receipt/Bank guarantee issued/ confirmed from any of the commercial bank in India safeguarding the Purchaser's interest in all respects **within 15 days from the date of LOI/LOA/PO**. In case of a JV, the BG towards performance security shall be provided by all partners in proportion to their participation in the project. Performance Security should remain valid for a period of 60 (sixty) days beyond the date of completion. The performance security will be forfeited and credited to the procuring entity's account in the event of a breach of contract by the contractor. It will be refunded to the contractor after the supplier duly performs and completes all the works, within 60days from date from the date taking over.

2.13.2 Performance Bank Guarantee for Warranty period:

The successful bidder has to submit Performance Security in the form of Bank Guarantee (BG)/ Fixed Deposit Receipt (FDR) for 10 % of final project cost, after completing the project/work valid for 1year and 2 months from date of taking over towards defect liability period. In case bidder fails to submit the Performance Bank Guarantee/FDR equivalent amount will be withheld from final bill till submission of PBG or date of end of ONE years and TWO months from taking over of the systems by IUAC whichever is earlier. PBG/FDR will be released after two months OF successful completion of defect liability period.

The supplied material should be guaranteed from manufacturing / engineering defect and bad material/workmanship for a minimum period of one year from the date of acceptance of the goods by IUAC. During this period if any replacement/repairs/rectification of any of the supplied item etc. is needed, the supplier shall do the same free of cost to IUAC. If the equipment/ part needs to be shipped to the service centre for repair/rectification during the guarantee period, the shipment charges should be borne by the supplier. The supplier shall guarantee that all equipment shall work satisfactorily and that the performance and efficiency of the equipment shall not be less than the specified values.

2.14 Deviations: The tenderers are advised not to deviate from the technical specifications/items, commercial terms and conditions, terms of payment and arbitration etc.

2.15 Site Conditions: The tenderer in his own interest, visit the site and familiarize himself with site conditions before quoting his rates. No Compensation on account of any site difficulties will be entertained, at a later date, after award of the works. The plant and machinery will be handed over to the Bidder on "As is where is basis" and the entire liability of smooth Operation and Maintenance of the systems will rest with the successful bidder.

2.16 Location: IUAC campus is located on Aruna Asaf Ali Marg, near Kishangarh village, Vasant Kunj, New Delhi-110067, on the way to Fortis Hospital Vasant Kunj from Ber Sarai.

2.17 Correspondence: All the correspondence in respect of tender/contractual obligation shall be addressed to A.O. (S&P), and for technical queries Mr. U. G. Naik/ Raj Kumar, Inter-University Accelerator Centre (IUAC), P.B. No. 10502, Aruna Asaf Ali Marg, New Delhi-110067.

2.18 Tender once submitted will remain with IUAC and will not be returned to the bidders.

2.19 Termination of Contract:- The Director, IUAC reserve the right to terminate the contract immediately on account of poor workmen ship, failure to mobilize the site within 15 days, non-compliance of set norms/ specifications for the works, delay in progress of work, violation of any contract provisions by the Bidder.

2.20 Liquidated Damages Clause:

As time is the essence of the contract, delivery period mentioned in the Purchase Order should be strictly adhered to otherwise IUAC will have to forfeit EMD/PS and also LD clause will be applicable /enforced. If the supplier fails to supply, install and commission the system as per specifications mentioned in the order within the due date, the Supplier is liable to pay liquidated damages of 0.5% of order value per week of delay subject to a maximum of 10% of order value (exclusive of taxes) beyond the due date. Such money will be deducted from any amount due or which may become due to the supplier. However, in case the works are delayed beyond the scheduled completion/ contract period, IUAC reserves the right to get the work done by any other contractor at the risk and cost of the tenderer and amount to this affect will be deductible from tenderer's bills/dues with an additional amount @ 10% as departmental charges. The liquidated damages shall be levied on the delivered price of the delayed Goods or unperformed services or contract value. The maximum amount of penalty shall be 10% of the order value.

i) Calculation of liquidated damages

Liquidated damages will be calculated on the basis of contract/ supply order price of services/materials excluding duties and taxes, where such duties/taxes have been shown separately in contract/supply order.

ii) Extension in delivery period due to delay on the part of IUAC when the extension of time is required due to any delay on the part of IUAC, extension of delivery time with or without LD waiver for the period of such delay involved may be granted provided the firm produces documentary evidence of the delay.

2.21 Force majeure:

IUAC may grant an extension of time limit set for the supply items in case it is delayed by force majeure beyond the supplier's control. Force majeure is defined an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, tsunami etc.), the direct and indirect consequences of wars (declared or undeclared), national emergencies, pandemics/epidemics, quarantine restrictions, civil commotions and strikes (only those which exceeds a duration of ten continuous days) at successful Tenderer's factory. Apart from the extension of the time limit, force majeure does not entitle the successful tenderer to any relaxation or to any compensation of damage or loss suffered. The decision of the Director, IUAC will be final and binding for the bidder.

2.22 Negotiation

Normally, there shall not be any negotiation. Negotiations, if at all, shall be an exception and only in the case of items with limited source of supply and where there are possibilities of

getting cartel formation. Negotiations shall be held with the lowest evaluated responsive bidder only.

2.23 Arbitration

Any dispute arising out of this contract will be subjected to jurisdiction of New Delhi/Delhi.

In the event of any dispute or difference relating to, arising from or connected with the contract, such dispute or difference shall be referred by either party to the arbitration of one of the Arbitrators to be appointed by Director, IUAC. The Arbitration and Conciliation Act 1996 shall not be applicable to the arbitration under this clause. The award of the arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make a further reference for setting aside or revision of award to the Law Secretary, Department of Legal Affairs, Ministry of Law & Justice, Government of India. Upon such reference, the dispute shall be decided by the Law Secretary or the Special Secretary/ Additional Secretary, when so authorised by Law Secretary, whose decision shall bind the parties finally and conclusively. The parties in the dispute will share equally the cost of arbitration as intimated by the Arbitrator.

2.24 Director, IUAC reserves the right to accept or reject any tender without assigning any reason and does not bind himself to accept the lowest tender.

2.25 Special conditions:

- i)** Delivery/Completion Schedule: Complete activities (including supply of material, execution of work at site plus transportation time, postal time and for arranging road permit, handing over of system etc.) must be completed tentatively within 12-16 weeks. For all purposes exact date of completion shall be as stipulated in PO and to be counted from date of issue of PO.
- ii)** Inspection of Materials: Joint Inspection by representative of IUAC will be carried out at bidder's/manufacturer's premises. However, the Completion certificate will be issued by I/C Electrical, IUAC or his representative.
- iii)** The special conditions of contract shall be read in conjunction with the General conditions of the contract and all other documents forming part of this contract. Notwithstanding the sub divisions of the document into these separate sections, every part of each shall be deemed to be supplementary to and complementary of every other part and shall be with and into the document as far as it may be applicable to do so.
- iv)** Where any portion of the general conditions of the contract is repugnant to or at variance with any provision of special conditions of contract, then unless a different intention appears, the provision of special conditions of contrary shall be deemed to override the provisions of general conditions of the contract and shall be to the extent of such repugnance or variance prevail.

Accepted

(Signature of Bidder)

Note:- Entire NIT (except price bid) is to be attached with "Technical bid (Part-A)" duly signed & stamped by the bidder.

<On Organization Letter Head>
PROFILE OF THE TENDERER

Name of the Firm / Organization :

Address :

Telephone No. / Mobile No. & Name of
the Contact Person :

Fax No. :

E-mail ID :

Month and Year of establishment :

Name of proprietor / partners/director :

No. of years of experience in this field,
with Reference, Certificates :

Annual Turnover during the last three
years (Enclose copies of Audited
Financial Statement)

2018-19 :
2019-20 :
2020-2021 :

Whether the firm is an Income Tax
Assessee? If so please give the
details of PAN No. :

GST Registration No. :

12. Name of the OEM and address : (if applicable)

Signature of the Bidder_____

Name_____

Seal of the Company

<On Organization Letter Head>
TENDER ACCEPTANCE LETTER

Date:

To,
The Director
IUAC, New Delhi-67

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: IUAC/NIT/

Name of Tender / Work: -

Dear Sir,

I/ We have downloaded / read and examined the tender document(s) for the above mentioned Tender /Work from the web site(s) namely:

as per your advertisement, given in the above mentioned website(s).

- 1) I / We hereby certify that I / we have read the entire terms and conditions of the tender documents (including all documents like annexure(s), schedule(s), etc., which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
- 2) The corrigendum(s) issued from time to time by your department/ organization too have also been taken into consideration, while submitting this acceptance letter.
- 3) I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.
- 4) I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.
- 5) I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy.

Yours Faithfully,

Signature of the Bidder_____

Name_____

Seal of the Company

<On Organization Letter Head>
BID SECURING DECLARATION FORM
TO BE SUBMITTED BY MSME ONLY ON COMPANY LETTER HEAD

Tender/Bid No.:

Date:

To

The Director

Inter University Accelerator Centre (IUAC)

New Delhi

Dear Sir/Madam,

We, the undersigned, solemnly declare that:

We understand that, according to the conditions of this Tender Document, the bid must be supported by a Bid Securing Declaration in lieu of Bid Security.

We unconditionally accept the condition of this Bid Securing Declaration. We understand that we shall stand automatically suspended from being eligible for bidding in any tender in IUAC for a period of two years from the date of opening of this bid if we breach our obligation under the tender conditions, if, we,

- withdraw/amend/impair/derogate, in any respect, from our bid, within the bid validity; or
- being notified within the bid validity of the acceptance of our bid by IUAC

(i) fail or refuse to sign the contract, or (ii) failed or refused to produce the original documents for scrutiny or the required Performance Security within the stipulated time under the conditions of the tender documents.

We know that this Bid Securing Declaration shall expire if the contract is not awarded to us, upon:

- receipt by us of your notification
 - of cancellation of the entire tender process or rejection of all bids or
 - of the name of successful bidder or
- Forty-five days after the expiration of the bid validity or nay extension to it.

Signed:

Name:

Dated on _____ day of _____

Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)

<On Organization Letter Head>
DECLARATION BY THE BIDDER

(Affidavit on Non-Judicial Stamp Paper of Rs.10/- duly attested by Notary / Magistrate) This is to certify that We, M/s. _____, in submission of this offer confirm that:-

- i. Certified that I/ we have visited the site of work and seen the working conditions, approach road / path, availability of water, electricity and other relevant requirements connected with the work on _____ and assessed the nature and amount of work involved before submitting our offer. I we will be able to complete the work within stipulated time and to execute the works to suit the site condition.
- ii. I/we undertake that I/we visited the place for “Refurbishing of LT Panel at Inter-University Accelerator Centre (IUAC)” at Inter-University Accelerator Centre (IUAC). No extra cost will be claimed by us later on for any difficulties/ modifications involved during execution of work as mentioned in the tender. I/we also understand that the work is related with already operational/functional Institute.
- iii. We have neither concealed any information/document which may result in our disqualification nor made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
- iv. As on date, no Central / State Government Department/ Public Sector Undertaking or Enterprise of Central / State Government has banned/suspended business dealings with us.
- v. We have submitted all the supporting documents and furnished the relevant details as per prescribed format.
- vi. We have not failed to service the principal amount or interest or both of a loan account/credit limit from any Bank or Financial Institution during a period of one year prior to the deadline for submission of bids.
- vii. We understand that in case any information/document which may result in our disqualification is concealed by us or any statement/information/document furnished by us or to be furnished by us in connection with this offer, or issued by Bank/Agency/Third Party is subsequently found to be false or fraudulent or repudiated by the said Bank/Agency/Third Party, all future business dealings with us will be banned.

Signature of the Bidder _____

Name _____

Seal of the Company

<On Organization Letter Head>

“Refurbishing of LT Panel at Inter-University Accelerator Centre
(IUAC)”

Performance Statement

Statement of Supplies During Last Five Years and Outstanding Current Orders

(To be submitted as part of Technical bid)

(on Company Letter-head)

Tender Document No. Tend No./ xxxx; Tender Title:

Bidder’s Name _____

[Address and Contact Details]

Bidder’s Reference No. _____ Date.....

Note to Bidders: Fill up this Form your past performance highlighting their qualification to supply relevant Goods. Statements and Documents to the Performance Statement may be mentioned/ attached here. The list below is indicative only. You may attach more documents as required to showcase your past performance. Add additional details not covered elsewhere in your bid in this regard.

Order issued by	Order No. & Date	Qty ordered	Quantity supplied	Price at which supplied	The total value of the order	Status as on date----

.....
(Signature with date)

.....
(Name and designation)

Duly authorized to sign bid for and on behalf of

.....
.....

[name & address of Bidder and seal of company]

ANNEXURE-VI

<On Organization Letter Head>
Bank Details for Payment Purpose

Electronic Payment mechanism (viz. NEFT/RTGS /ECS).

In all cases, except the cases involving payment through ‘Letter of Credit’ or payment in foreign currency, IUAC shall make payments only through Electronic Payment mechanism (viz. NEFT/RTGS /ECS).

Bidders should invariably provide the following particulars along with their offers:

Sl.No.	Description	Details to be filled by the bidder
1	Name & Complete Address of the Supplier / Contractor as per Bank records.	
2	Name & Complete Address of the Bank with Branch details.	
3	Type of Bank account (Current / Savings/ Cash Credit).	
4	Bank Account Number	
5	IFSC / NEFTCode (11 digit code) / MICR code, as applicable, along with a cancelled cheque leaf.	
6	Permanent Account Number (PAN) under Income Tax Act	
7	GST No and Service Tax Registration Number (for supply of Services), as applicable.	
8	e-mail address of the vendor / authorized official (for receiving the updates on status of payments)	
9	Confirmation as to whether the bidder belong to the category of Micro, Small and Medium Enterprises as defined in the “Micro, Small and Medium Enterprises Development Act, 2006 (MSMEDA)”. If yes, specify the category of Micro, Small or Medium Enterprises and whether the enterprise is in manufacturing or service industry, alongwith valid documentary evidence.	

Certified that the particulars furnished above are correct as per our records.

Signature of the Bidder_____

Name_____

Seal of the Company

Format for Declaration by the Bidder for Code of Integrity & Conflict of Interest

No:

Date :.....

To,
The Director IUAC
New Delhi

Sir,

With reference to your Tender No.....dated.....I/We hereby declare that we shall abide by the Code of Integrity of Public Procurement as in your Tender document and have no conflict of interest.

It is certified that we are not associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have engaged by the Purchaser to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of goods to be purchased under this Invitation of Bids/Tender.

The details of any previous transgressions of the code of integrity with any entity in any country during the last three years or of being debarred by any other Procuring Entity are as under:

- a
- b
- c

We undertake that we shall be liable for any punitive action in case of transgression/contravention of this code.

Thanking you,

Yours
sincerely,

Signature
(Name of the authorized signatory)
Company Seal

<On Organization Letter Head>

(For Goods/ Services Contracts)

No. _____
Dated: _____

CERTIFICATE

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby certify that this bidder is not from such a country.

OR (whichever is applicable)

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby certify that this bidder is from _____ (Name of Country) and has been registered with the Competent Authority. I also certify that this bidder fulfills all the requirements in this regard and is eligible to be considered.

) [Where applicable, evidence of valid registration by the Competent Authority shall be attached]”

Signature of the Bidder _____

Name _____

Seal of the Company

<On Organization Letter Head>

ANNEXURE-IX
(For Works Contracts, including Turnkey contracts)

No. _____

Dated: _____

CERTIFICATE

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries and hereby certify that this bidder is not from such a country and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority.

OR (whichever is applicable)

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries and hereby certify that this bidder is from _____ (Name of Country) and has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I also certify that this bidder fulfils all the requirements in this regard and is eligible to be considered.

[Where applicable, evidence of valid registration by the Competent Authority shall be attached]”

Signature of the Bidder _____

Name _____

Seal of the Company

<On Organization Letter Head>
STAGE/FINAL INSPECTION

.....
.....

NO.

DATE :

TO

In-charge, Electrical Group,
INTER UNIVERSITY ACCELERATOR CENTRE.

SUB: INTIMATION REGARDING READINESS OF MATERIALS FOR
STAGE/FINAL INSPECTION.

REF : SUPPLY ORDER NO. _____ DATED _____

Sir,

Against subject supply order, the materials are ready for inspection as follows (strike out which is not applicable) :

- i) Full Quantity as specified in the Supply Order.
- ii) Materials ready only in part quantities

Item No.	Qty. Ordred	Qty. Ready
.....

- iii) Materials are ready for Ist/IInd/Final Stage as per Quality Plan already approved.
- iv) Materials are ready after Ist Rework/IInd Rework in full quantity.

Our factory is closed on _____ for weekly off.

Kindly arrange to inspect the materials accordingly.

On arrival, please contact Mr. _____ of our firm (Phone No. _____), who will coordinate the job of inspection.

Signature of the Bidder _____

Name _____

Seal of the Company

Section-III

TECHNICAL PART

BACK GROUND: The Input LT panel and Output LT Panel in the scope were exposed to fire in UPS room. The plastics/ wiring mounted on front panels and the fixtures got melted. Hence bidder must make a visit to site to analyse and make his own judgement of the damages and prepare his bid.

SCOPE OF WORK :

- 1.1 Scope of the order shall to refurbish the Input panel and Output panel as per the scope put in the Schedule and conditions included in the note of schedule of prices.
- 1.2 completeness of the equipment shall be the responsibility of the bidder. Any equipment, fittings and accessories, which may not be specifically mentioned in the specification or drawing(s) or schedule but which are usual or necessary for the satisfactory functioning of the Panels shall be provided by the supplier without any extra cost.
- 1.3 The equipment shall be refurbished in accordance with sound engineering and good industry standards and also the bidder shall in all respect design, engineer, procure and supply the same within delivery period to the same within delivery period to the entire satisfaction of IUAC.
- 1.4 The panel must be refurbished in the installed position, all the panel ACB/MCCB/Switchgears/ Indicator/Meters/ doors needing replacements or repair may be dismantled and taken to factory at their own cost. Incase the bidder wants to dismantle the entire panel and take it to the factory for repair then all the expenses for dismantling, transportation, reinstallation shall all be borne by bidder and nothing extra shall be paid.
- 1.5 Through cleaning of the panel shall be made, pre anti-rusting coat if required to be applied before giving two coats enamel paint to the panels. This has to be considered in the miscellaneous works item. In case panel in full or part is taken to the bidders factory then powder coating technology shall be adopted.

SPECIFICATION, DRAWING, TECHNICAL MANUALS :

- 2.1 The SUPPLIER shall furnish two copies of technical documents, final drawing, test certificates, spare parts catalogue before dispatch of the equipment to Engineer –In Charge, IUAC

TECHNICAL DETAILS AND CONFIGURATION OF THE PANELS TO BE REFURBISHED AND PROCEDURE TO BE FOLLOWED

SPECIFICATION OF UPS INPUT DB :

This panel is indoor type floor mounted with IP -52 degree of protection rated for 415 volt 3 phase 4 wire system and comprises with following switch gears and general technical specifications as detailed below.

INCOMING:

1. 2 nos.-1250 A, 415V, 50 KA (Ics=Icu=Icw =50 KA for 1 second), 4 Pole, Electrically operated, draw out type, Micro-processor based release (for over current, Short circuit and Earth fault protections), metering with LCD display ACB with Auto Transfer facility from Synchronisation panel of DG Set including all indications, metering, protections, push buttons etc. complete in all respects.
2. ATS switch: It should have ABB make Auto Transfer Switch ATS021 OR equivalent L&T, Socomec make for interlocking of both ACB of Main line and DG. Auto/ manual transfer operation during power failures & restoration.
3. Digital flush type class-I accuracy multifunction meter 0-1200A, showing V, A , KWH, KVAR, PF etc. with 3 Nos. current transformers of 1200/5 Amp ratio, 15 VA Class 1.0 metering with digital output through RS 485 communication port of approved make. - 3sets.
4. It should have all hardware, sensors, transducers, control wiring between ATS & ACB's and up to DG Set controller complete for auto DG set operation during power failures.
5. 2Sets of three phase R, Y, B indicating lamps along with 2A SP MCB backup protection.
6. Control switch for auto/manual/test/off selection, push buttons etc as required.- 1 set.
7. Control MCB, control terminals & wiring as required. definite time relay - 1 No

OUTGOINGS:

- 6 Nos.-400 A, 415V, 35 kA, 4 Pole, thermal-magnetic trip unit (for over current, Short circuit protections) MCCB with operating handles.
- 1 No.-630 A, 415V, 35 kA, 4 Pole, thermal-magnetic trip unit (for over current, Short circuit protections) MCCB with operating handle as required.
- 2 Nos.-250 A, 415V, 35 kA, 4 Pole, thermal-magnetic trip unit (for over current, Short circuit protections) MCCB with operating handle.
- **BUSBAR:** :Bus Bars are rated for 1200 Amps. Aluminum E91E grade of adequate section suitable for 3 phase, 4 wire, 415 volt 50HZ AC supply and with short circuit current rating of 50 kA. Bus bar for the neutral and earth are of same size as phase bus.

TECHNICAL SPECIFICATION OF UPS OUTPUT DB:

This panel shall be indoor type floor mounted with IP -52 degree of protection rated for 415 volt 3 phase 4 wire system and shall comprise with following switchgears and general technical specifications as detailed below.

INCOMING:

4 Nos.- 4 pole, 400 Amps, 35 kA, MCCB with thermal-magnetic trip unit (for over current, Short circuit protections) with operating handle, RYB indication lamp with control MCB & wiring.

OUTGOINGS:

4 Nos.- 4 pole, 400 Amps, 35 kA, MCCB with thermal-magnetic trip unit (for over current, Short circuit protections) with operating handle as required.

4 Nos- 4 pole, 250 Amps, 35 kA, MCCB with thermal-magnetic trip unit (for over current, Short circuit protections) with operating handle as required.

TECHNICAL SPECIFICATION OF REMOTE CONTROL PANEL:

Remote control panel with emergency stop for 6 breakers. This is to be mounted in substation room complete with multi core armoured copper cables of size not less than 2.5 sq mm. these emergency stop button will be controlling the following breakers.

- Mains supply
- DG Supply
- Battery breaker-4nos

TECHNICAL SPECIFICATION OF AIR CIRCUIT BREAKERS

1250A, 4pole, 50KA, EDO, with microprocessor based protection module for O/C, S/C and E/F RELEASE type mechanism. The short circuit mechanism and breaking capacity as shall be supported by test certificate.

- a) Ambient temperature compensated type and there should not be de-rating of ACB current carrying capacity at 50°C. The testing of ACB for the temperature rise shall be carried out by the manufacturer as per the prevailing, IS / IEC or any other international standards.
- b) ACB shall be provided with very sensitive overload and short circuit release. Short circuit release should have settable value as required with an adjustable times having setting range of 40 – 460 m seconds, to have a proper co-ordination with short circuit release of outgoing MCCBs.
- c) 3 phase, 4 wire, neutral earthed having link arrangement.
- d) Rated current thermal current - as required
- e) Service voltage - 415 volts
- f) No. of break / pole - one
- g) Frequency - 50 c / s
- h) Rated insulation voltage - 1000 volts
- i) Rated short circuit breaking capacity
- j) Rated services S/C breaking capacity I_{cs} (rms) – 50kA
- k) Rated ultimate S/C breaking capacity I_{cu} (rms) – 50kA
- l) Break Time - less than 40ms
- m) S/C making capacity 1cm (peak) - 105kA
- n) Rated short time withstands current - I_{cw} 50kA for 1 sec.
- o) Suitable for outdoor installation.
- p) It shall conform to IS 13947 / pt.2 / 1993 with latest amendment, if any.
- q) Performance category ²⁸ - Utilization category – B.

- r) Overload releases should be settable from 50% to 100% of the rated current In.
- s) The status of open and close shall be clearly visible.
- t) The trip indication separated for overload and individual phase wise trip indication for short circuit to be provided.
- u) The ACB shall have the provision to lock the operating mechanism in off position.
- v) The operating mechanism should be form front and the compartment should have the degree of protection IP – 54.
- w) Separator shall be provided between all phases inside.
- x) ACB enclosed to prevent travel of arc during short circuit.
- y) The CT's mounted for thermal overload release shall have secondary winding inaccessible including tripping mechanism of O/L and magnetic releases to avoid tampering CT's should also have provision of separators.
- z) Two nos. earthing bolts for propose of earthing of ACB may also be provided & suitable for G.I stay wire of size 7 / 10 SWG.
- aa) The bus bar size shall be confirming to relevant IS and the neutral bus bar shall be of same wire of size as phase bus bar and should be suitable for connecting neutral.
- bb) The ACB shall be tested in accordance with the provision of IS: 13947 – Part I or relevant IEC ACB shall have motor operated charging system.
- cc) Necessary independent manual spring closing mechanism with mechanical ON/OFF indicator as well as electrical ON/OFF indication to be provided at front panel.
- dd) Necessary set of auxiliary switches and indication, metering requirements such as ON/OFF indication, selector switches fuses.

MCCB's:

- i) 630A, 4pole, 50KA with microprocessor based module for O/C, S/C and E/F protection release. Shall have extended handle and spreaders The short circuit mechanism and breaking capacity as shall be supported by test certificate. – 2Nos (Existing MCCB is Schneider (Easypact CVS))
- ii) 400A, 4pole, 50KA with microprocessor based module for O/C, S/C and E/F protection release. Shall have extended handle and spreaders The short circuit mechanism and breaking capacity as shall be supported by test certificate. – 4Nos (Existing MCCB is Schneider (Easypact CVS))
- iii) These shall be 250A, 4pole, 36KA with microprocessor based module for O/C, S/C and E/F protection release. Shall have extended handle and spreaders The short circuit mechanism and breaking capacity as shall be supported by test certificate. – 5Nos (Existing MCCB is Schneider (Easypact CVS))

INSTRUMENTS – Power analyzers capable of displaying line & neutral currents, phase & line voltages, kW, kVA, kWh, kVAH and power factor on all phases. Meters shall be confirming to IS 1248 and accuracy class –1 with RS 485 PORT.

INDICATING LAMPS: On off and 3 phase indicator lamps shall be LED type indicating lamps suitable to work on 200-230V AC supply. Colored lamps shall be used for indicating correctly. All control circuits and lamps shall be connected through MCB's where phase indicator lamps are provided.

CURRENT TRANSFORMER: CT ratio shall be selected as per the loading/rating of feeders with suitable burden (but shall not be less than 15VA). The protection CT shall be such that they will saturate at 10 times the rated primary current. They shall be of accuracy class **10 P 10** of IS 2705 part-III 1964. The metering CT shall saturate on twice the full load

current and shall conform to the metering ratio and to accuracy class 1 of IS 2705 (part-I, II & III). All the CT's shall be rated for 1 kV.

CONTROL WIRING: All control wiring, indication etc. shall be carried out using 650V grade 1.5 sq.mm copper conductor cables PVC insulated conforming to IS 1554 Part-I. CT wiring shall be with 4/2.5 sq.mm copper conductor with suitable CT shorting links. Wiring shall be suitably protected within the switchboard. Runs of wires shall be neatly bunched and suitably supported and clamped. Means shall be provided for easy identification of the wires. Identification ferrules shall be used at both the ends of the conductors.

PANEL EARTHING: The panel shall be provided with Al earth bus running throughout its length. Suitable earthing eyes/bolts shall be provided on the main earthing bus to connect the same to the earth grid at site. Sufficient no. of star washers shall be provided at joints to achieve earth continuity between panels and sheet metal parts. All the bus section including earth bus are intact in the panel

MOUNTINGS: Circuit breakers/switch gears shall be mounted such that they are accessible from the front of the panel. The breaker shall be mounted in separate compartment. Instruments shall be provided on the door of the compartment.

WIRING: All the interconnections between the incoming, bus and the outgoing of 100A and above rating shall be done by the insulated bus links/strips of suitable sizes. The power inter connections shall be carried out by means of bolted connections with washers. The wiring shall be terminated by using crimping sockets. Wiring shall be laid out neatly in bunches which are firmly fastened to the steel members of the panel. All the potential circuits shall be protected by fuses mounted near the tap-off point from the main connections.

TERMINALS: All the control, instrumentation and protection wiring shall be provided with printed PVC ferrules at both ends. For terminating control cables on to the equipments in the panels, suitable terminal blocks shall be provided. The terminal shall also be numbered for easy identification and maintenance.

SURFACE TREATMENT: All sheet metal accessories and components of panels shall be thoroughly cleaned, degreased, de-rusted and phosphatized before red oxide primer is applied. The panel shall be powder coated to the required finish if taken to the factory.

PRE-COMMISSIONING TESTS AND COMMISSIONING:

PANEL TESTING: The panels shall be tested at site after assembling of all components and completion of all interconnections and wiring. All the main & auxiliary bus connections shall be checked and tightened. All the wiring terminations & bus bar joints shall be checked and tightened. Wiring shall be checked for correctness as per the drawings. All wiring shall be tested for insulation resistance by 1000 V megger & a high voltage test with 2.5 kV for one minute shall be applied between the poles and the earth. Test shall be carried out on each pole in turn with the remaining poles earthed all units racked in position and breakers closed. All Relays and protective devices shall be tested for correctness of settings & operation by introducing a current generator & an ammeter in the circuit. Original test certificate shall be submitted along with panel. The Panel will be cleared for dispatch to sit only when the testing is declared successful by the authorized representative/ Engineer-in-charge. The panels shall be commissioned only after the successful completion of the following tests.

SCHEDULE OF REQUIREMENT

NAME OF WORK: “Refurbishing of LT Panel at Inter-University Accelerator Centre (IUAC)”

(TO BE FILLED BY BIDDERS)

Break up quantity of components required under items in price schedule and their prices

	Item Description	Quantity	Unit price (Rs.)	Total Price (Rs.)
1.	<p>Incoming: 1250 A, 415V, 50 KA (Ics=Icu=Icw =50 KA for 1 second), 4 Pole, Electrically operated, draw out type, interlocked, Micro-processor based release (for over current, Short circuit and Earth fault protections) ACB with all indications, metering, protections, push buttons etc. complete in all respects as mentioned in specifications and as required.</p> <p>SITC of Digital flush type class -I accuracy multifunction meter (MFM) with RS 485 0-1250A , for V,A,KWH,KVAR, PF etc.</p> <p>Set of three phase R,Y,B indicating lamps along with 2A SP MCB backup protection</p>	2Sets		
2.	Supply, Installing, Testing and Commissioning of Automatic Transfer Switch -ABB make Auto Transfer Switch ATS021 or equivalent /L&T/Socomec make and interlocking of both incomers with complete wiring for two sources with priority to mains supply.	1no.		
3.	Outgoing: MCCB : 4 pole, 630 Amps, 50 kA with electronic release	-1no.		
4.	Outgoing: MCCB with operating handles: 4 pole, 400 Amps, 50 kA with electronic release	-3nos		
5.	Outgoing: MCCB with operating handles; 4 pole, 250 Amps, 36 kA with thermal magnetic release	-2nos		
6.	SITC of extended rotary handle and connecting rod for 250-400A MCCB.	-7nos		
7.	Miscellaneous works: Replacing all control wiring/ replacement of all melted items such as gaskets, fuses, 3 ^{phase}	1 Lot		

	separators of MCCBs and other switchgears, MCBS, LED indication lamps, bus supports, VSPD-1 no. Replacement/ repair of Front doors for input panel wherever required including primer and painting etc for Panel size Input panel- 3150mmx2225mmx1250mm Output Panel-4200mmX1975mmX400 mm Ref.: Drawings for technical details(page 44 and 52)			
8.	Remote control panel with emergency stop for 6 breakers. (to be mounted in substation room complete with multi core armoured copper cables of size not less than 2.5 sq mm)	1 set		
9.	Supplying and laying of 1CX120 sq.mm (608/0.4) copper flexible	300mtrs		
10.	Supplying and laying of 1.1kV grade Aluminum, strip/round armoured, XLPE power cable as per specifications			
	3.5 Core X 240 sq.mm,	50mtrs		
	3.5 Core X 120 sq.mm,	50mtrs		
	4 Core X 50 sq.mm,	100mtrs		
11.	Providing and fixing end termination with proper thimbles and double compression glands for Aluminum, armoured XLPE power cable as required.			
	3.5 Core X 240 sq.mm,	2Nos		
	3.5 Core X 120 sq.mm,	2Nos		
	4 Core X 50 sq.mm,	2Nos		
12.	Providing and making heat shrinkable straight through joint with proper thimbles for Aluminum, 3.5CX240 sq.mm armoured XLPE power cable as required.			
	a) 3.5 Core X 240 sq.mm,	2Nos		
	b) 3.5 Core X 120 sq.mm,	2Nos		
	c) 4 Core X 50 sq.mm,	2Nos		
13.	Providing and fixing end termination with proper thimbles for 1CX120 sq.mm (608/0.4) copper flexible.	16nos		
14.	Ex- works Price			
15.	Freight + Packing & Forwarding Charges			
16.	GST + Excise duty as applicable (Indicate the present rates)			

	TOTAL COST	
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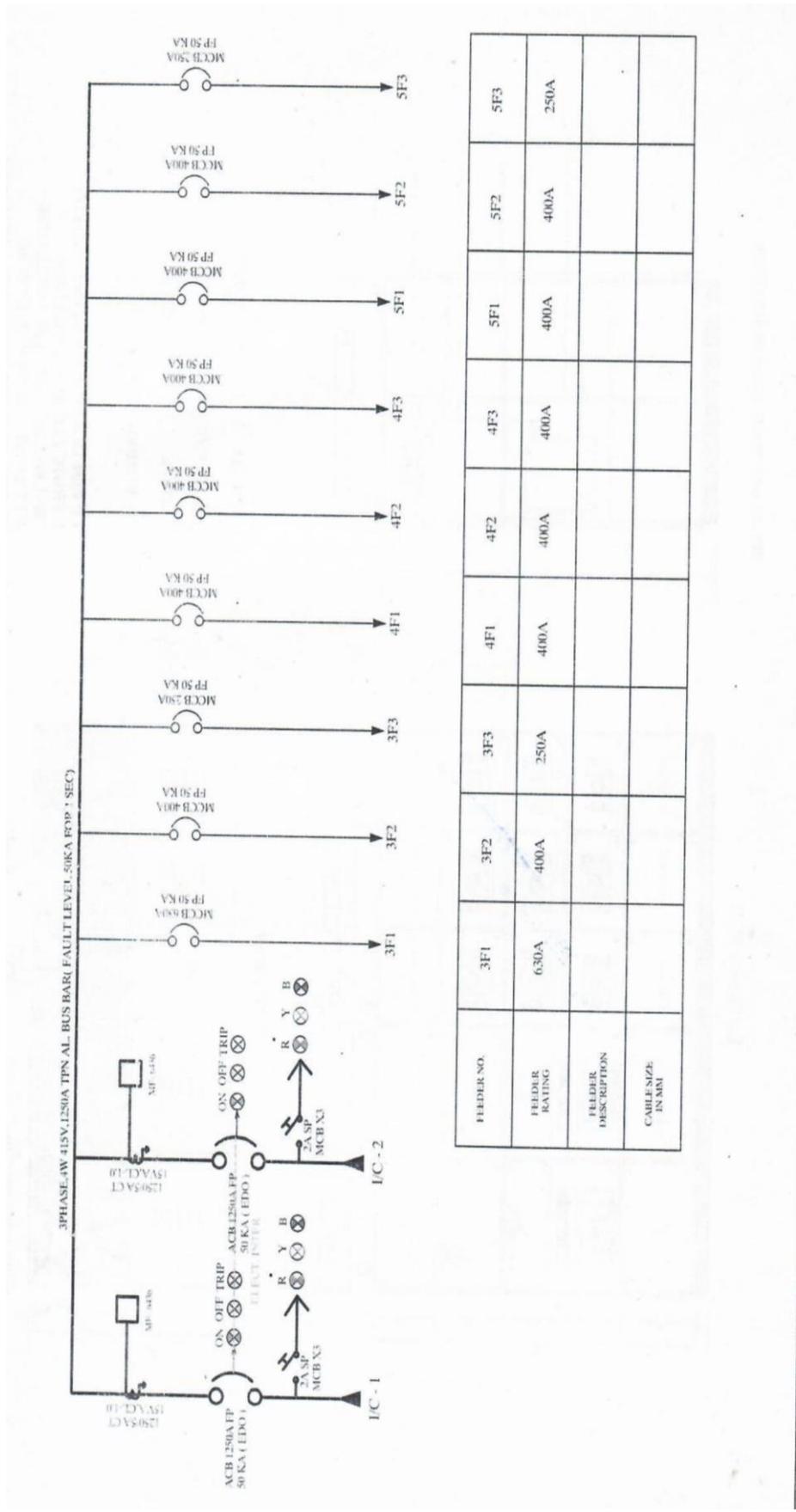
NOTE:

1. Special condition: Bidder shall visit the site before quoting his price.
2. The quantities worked out in the schedule are minimum mandatory requirement for item 1 to 6, actual requirement may vary. However the bidder has to make his own judgement for all the replacements requirements in refurbishing the panels and making these fully functional and take in to account accordingly before submitting offer/bid. Any item missed out here shall be deemed to be part of item no 7.
3. For item No 9-11 bidder has to work out exact quantity requirement before procurement and will be paid for whatever material consumed, any surplus quantity will be returned back.
4. It is confirmed that the above rates are inclusive of all statutory charges, as applicable.
5. Please note that “C” form will not be issued by IUAC.
6. No separate discount is to be mentioned. Discount, if any, shall be merged in the prices.
7. GST: Concessional GST of 5% is applicable to IUAC and should be acceptable to the bidder. GST concession certificate will be provided along with the purchase order.

Signature of the Bidder_____

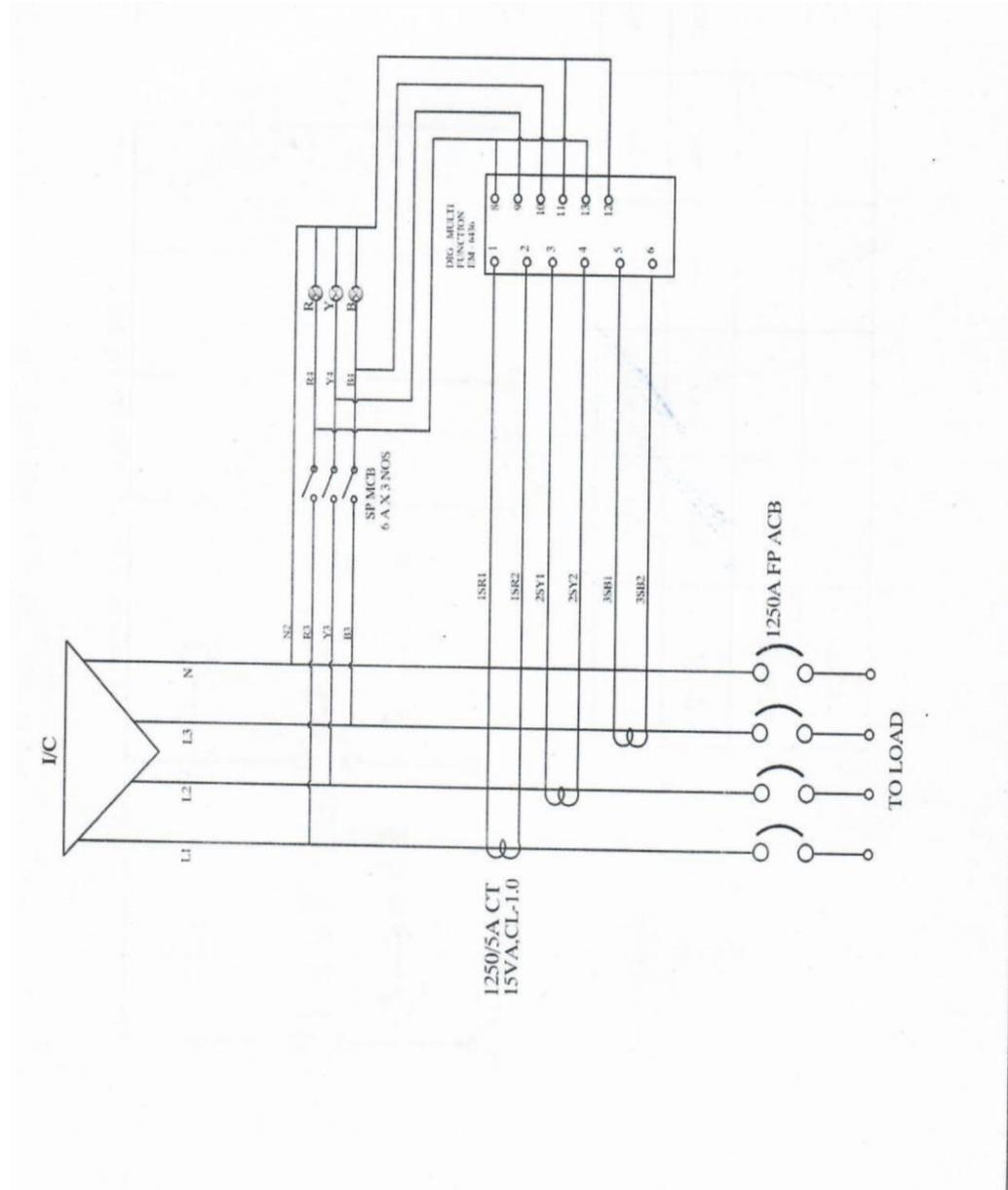
Name_____

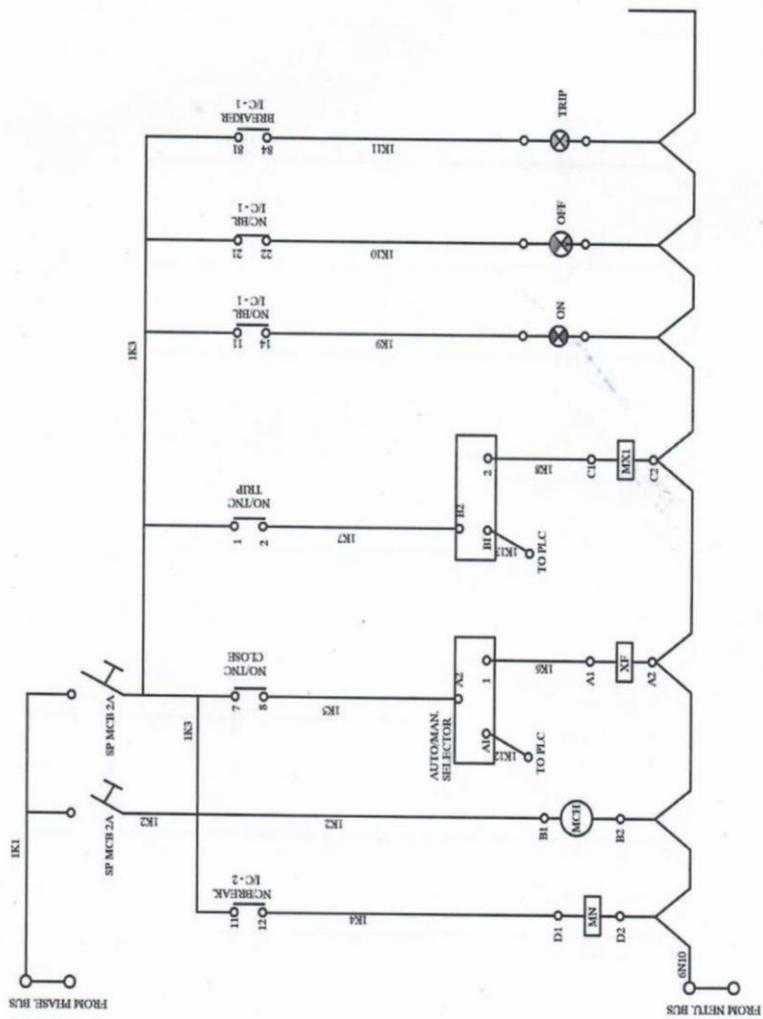
Seal of the Company



FEDDER NO.	3F1	3F2	3F3	4F1	4F2	4F3	5F1	5F2	5F3
FEDDER RATING	630A	400A	250A	400A	400A	400A	400A	400A	250A
FEDDER DESCRIPTION									
CABLE SIZE IN MM									

INPUT PANEL INCOMER CONTROL DRAWING

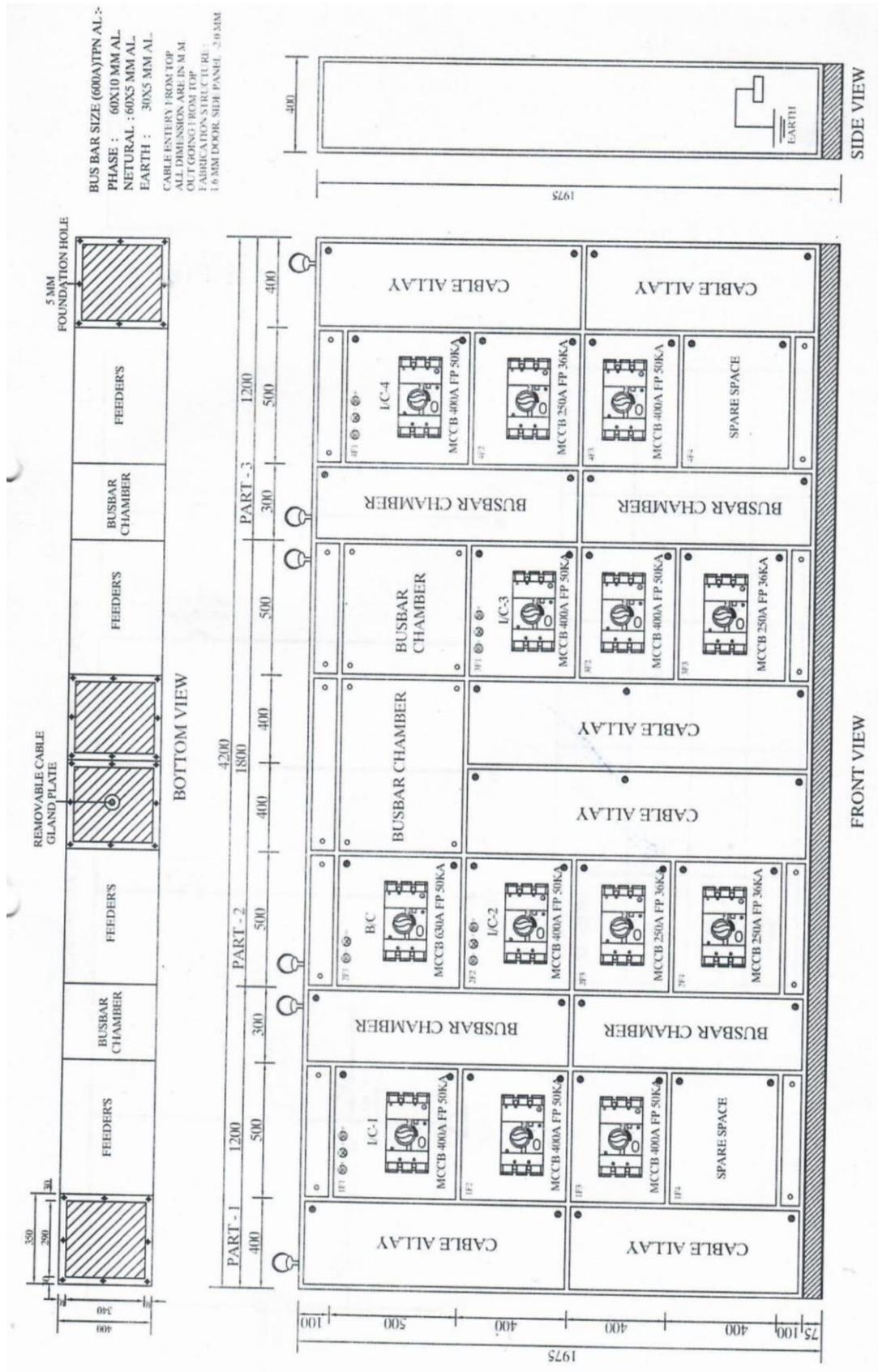




INPUT PANEL BOQ

S.No.	DESCRIPTION	MAKE	TYPE / CAT. NO	Qty.
METERING				
01	DIG. MULTI FUNCTION METER 96*96 SQ MM WITH RS485 PORT	CONZERY 6436		02
02	CURRENT TRANSFORMER 1250/5A, CL-1.9, 15VA	ALPHA/MATRIX		06
03	LED TYPE INDICATING LIGHT 22-5MM	SIEMENS I&T		12
04	BREAKER CONTROL SWITCH (T-N-C)	SALZER - I&T		02
05	AUTO / MANUAL SELECTOR SWITCH 2 POLE, 2 WAY	SALZER - I&T		02
06	AUTOMATIC SOURCE TRANSFER KIT	SCHNEIDER		01
07	CONTROL MCB 2A, 1P, 10 KA C CURVE	SCHNEIDER (MULTI 9)		10
AIR CIRCUIT BREAKER				
01	ACB 1250A 4P EDO 50 KA WITH MICROPROCESSOR BASED O.C, S.C & E/F PROTECTION RELEASE (A) UNDER VOLTAGE RELAY 220 VAC, (B) CURRENT METERING	SCHNEIDER (6A) (MASTERPACT MVS)		02
02	MCCB 630A 4P 50 KA WITH MICROPROCESSOR BASED O.C, S.C PROTECTION (A) EXTENDED ROTARY HANDLE (B) SPREADERS	SCHNEIDER (EASYPACT CVS)		01
03	MCCB 400A 4P 50 KA WITH MICROPROCESSOR BASED O.C, S.C PROTECTION (A) EXTENDED ROTARY HANDLE (B) SPREADERS	SCHNEIDER (EASYPACT CVS)		06
04	MCCB 250A 4P 36 KA WITH T/M BASED O.C, S.C PROTECTION (A) EXTENDED ROTARY HANDLE (B) SPREADERS	SCHNEIDER (EASYPACT CVS)		02

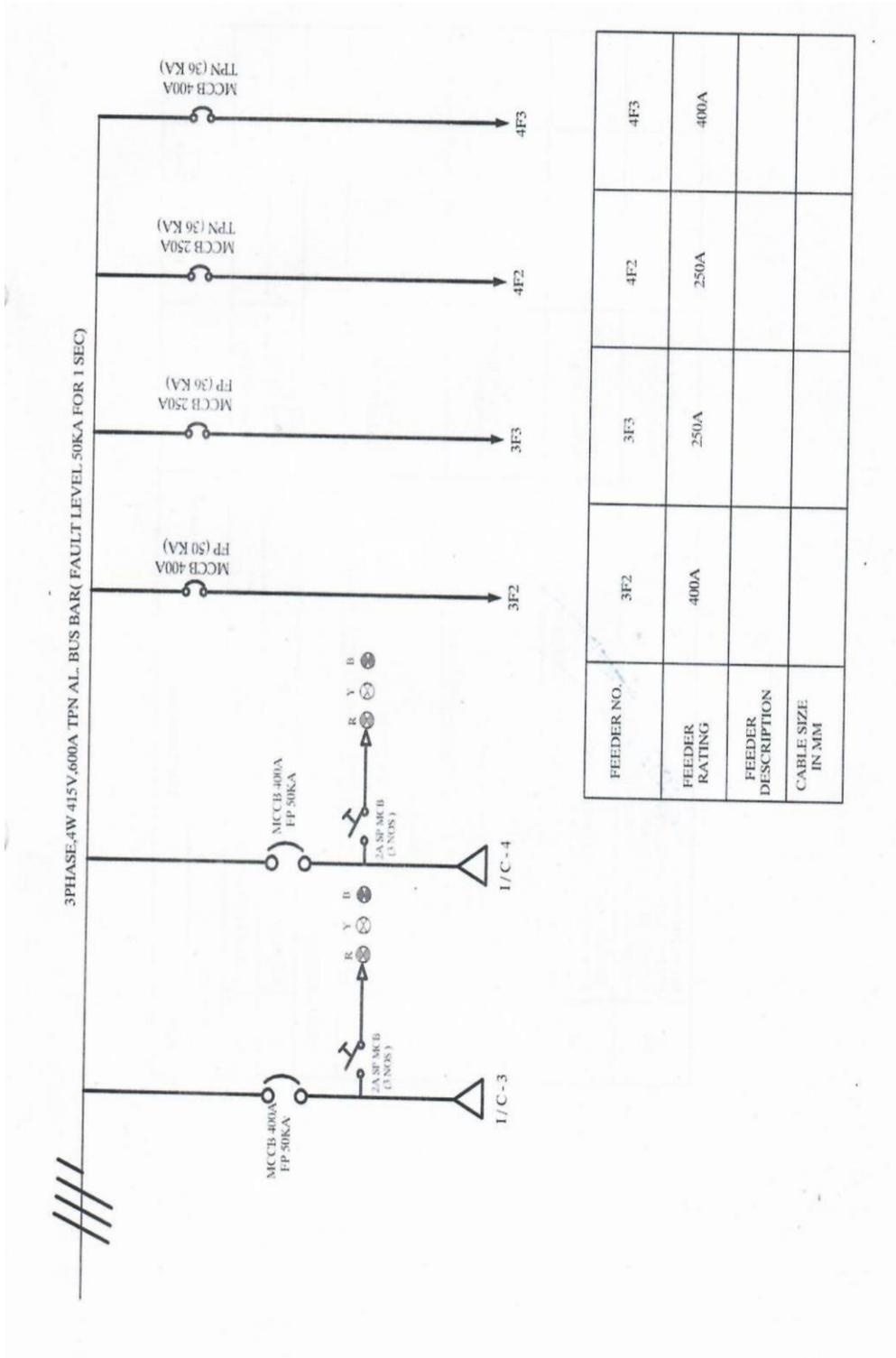
OUTPUT PANEL GA DRAWING



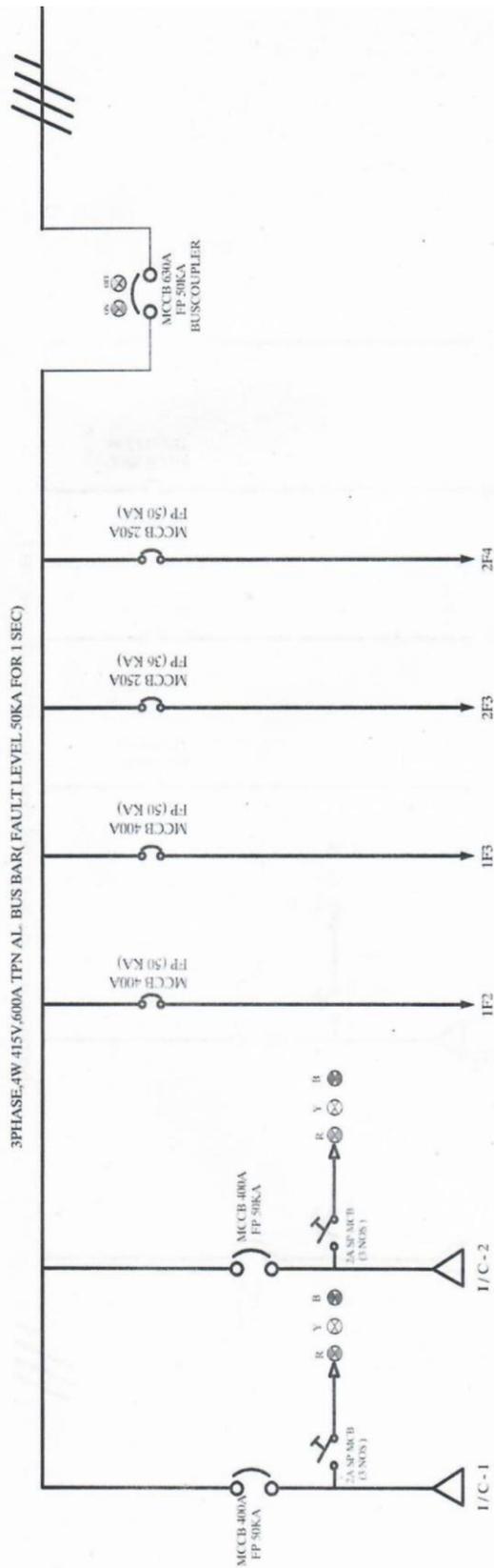
OUTPUT PANEL BOQ

S.No.	DESCRIPTION	MAKE	TYPE / CAT. NO.	Qty.
METERING				
01	LED TYPE INDICATING LIGHT 22.5MM	SIEMENS/L&T		14
02	CONTROL MCB 2A, 1P, 10 KA C CURVE	SCHNEIDER (MULTI 9)		18
AIR CIRCUIT BREAKER				
01	MCCB 630A 4P 50 KA WITH MICROPROCESSOR BASED O/C, S/C PROTECTION (A) EXTENDED ROTARY HANDLE (B) SPREADERS (C) I C/O AUX. CONTACT (D) SHUNT TRIP COIL	SCHNEIDER (EASYPACT CVS)		01
02	MCCB 400A 4P 50 KA WITH MICROPROCESSOR BASED O/C, S/C PROTECTION (A) EXTENDED ROTARY HANDLE (B) SPREADERS (C) I C/O AUX. CONTACT (D) SHUNT TRIP COIL	SCHNEIDER (EASYPACT CVS)		04
03	MCCB 400A 4P 50 KA WITH MICROPROCESSOR BASED O/C, S/C PROTECTION (A) EXTENDED ROTARY HANDLE (B) SPREADERS	SCHNEIDER (EASYPACT CVS)		04
03	MCCB 250A 4P 36 KA WITH T/M BASED O/C, S/C PROTECTION (A) EXTENDED ROTARY HANDLE (B) SPREADERS	SCHNEIDER (EASYPACT CVS)		04

OUTPUT PANEL SLD



FEEDER NO.	FEEDER RATING	FEEDER DESCRIPTION	CABLE SIZE IN MM
3F2	400A		
3F3	250A		
4F2	250A		
4F3	400A		



FEEDER NO.	FEEDER RATING	FEEDER DESCRIPTION	CABLE SIZE IN MM
1F2	400A		
1F3	400A		
2F3	250A		
2F4	250A		