



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

**TENDER NO: IUAC / NIT / 30/ 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/30/UGN/2021-22**

**Date : 22/12/2021**

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.

**As per notification no. F/9/4/2020-PPD dated 12.11.2020 issued by Ministry of Finance, Department of Expenditure, Govt. of India, bidders have to submit “Bid Security Declaration” accepting that if they withdraw or modify their bids during period of validity etc., they will be suspended for the time specified in the tender documents”. 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](http://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  
ARUNA ASAF ALI MARG  
POST BOX NO. 10502  
NEW DELHI-110067**

**E-TENDER DOCUMENT**

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

Estimated Amount : 1200000/-

Last Date and Time of Submission of : 12/01/2022 at 3.00 PM  
Tender

Date & Time for Opening of Tender : 13/01/2022 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](mailto: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.

## **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) Format of Declaration from bidders in lieu of EMD (on bidders letter head)
- iv) Bid Security Declaration (on bidders letter head)
- v) Undertaking for Banning on letterhead
- vi) Annual turnover of last three financial years duly certified by the Statutory Auditors.
- 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) Proof of ESI, EPF and GST registration. (Tender of unregistered bidders shall not be entertained).

### **2.3 Price Bid (Part-B):**

In this bid the bidder is required to quote his rates/prices in Annexure-XVII. 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:** As per notification no. F/9/4/2020-PPD dated 12.11.2020 issued by Ministry of Finance, Department of Expenditure, Govt. of India, bidders have to submit “Bid Security Declaration” accepting that if they withdraw or modify their bids during period of validity etc., they will be suspended for the time specified in the tender documents”. as Annexue-IV .

Bidders 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.

***Note :** The above bid security declaration is valid only upto 31/12/2021 and further continuation or otherwise will be as per guidelines issued by the Ministry of Finance.*

#### **Exemption from EMD:**

Unit registered with National Small Scale Industries IUAC (NSIC) are exempted from payment of EMD, subjected to:

- The unit being registered with NSIC for the items tendered.
- Furnishing of self attested copy of valid NSIC registration certificate.
- Photocopy of application for registration to NSIC or for renewal of NSIC will **not be** acceptable. Such offers will be treated as offers received without EMD.

**2.6 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 submission of price bid.

**2.7 Completion Time:** completion time for the works shall be 90days.

#### **2.8 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.2.11.3 for alternate options.

2.9 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.

2.10 **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.

### 2.11 **Securities/guarantees:**

2.11.1 EMD: Earnest money in the form of DD/ Bid Bond / Bank Guarantee from Indian Nationalized/scheduled bank /Bank Draft : Clause not applicable for NIT till 31<sup>st</sup> Dec 2021.

#### 2.11.2 **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 from a commercial bank, bank guarantee issued/ confirmed from any of the commercial bank in India or online payment in an acceptable form, 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.

#### 2.11.3 **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.

- 2.12 Deviations:** The tenderers are advised not to deviate from the technical specifications/items, commercial terms and conditions, terms of payment and arbitration etc.
- 2.13 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.
- 2.14 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.
- 2.15 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.
- 2.16** Tender once submitted will remain with IUAC and will not be returned to the bidders.
- 2.17 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.
- 2.18 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.

#### **2.19 Force majeure:**

Notwithstanding the provisions relating to extension of time, Liquidated damages and Termination for Default the Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

For purposes of this Clause, “Force Majeure” means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, acts of God, wars or Civil Riots, fires, floods, epidemics, quarantine restrictions, and freight embargoes., Acts and Regulations of respective government of the two parties, namely IUAC and the CONTRACTOR.

Upon the occurrence of such cause and upon its termination, the party alleging that it has been rendered unable as aforesaid thereby, shall notify the other party in writing, the beginning of the cause amounting to Force Majeure as also the ending of the said clause by giving notice to the other party within 72 (seventy two) hours of the alleged beginning and ending of the cause respectively. If deliveries are suspended by Force Majeure conditions lasting for more than 2 (two) months, IUAC shall have the option of cancelling this contract in whole or part at its discretion without any liability at its part.

Time for performance of the relative obligation suspended by Force Majeure shall then stand extended by the period for which such cause lasts.

#### **2.20 Integrity pact:**

An integrity Pact has to be signed by the bidders to ensure transparency, equity and competitiveness in procurement. The Integrity Pact envisages an agreement between the prospective bidders/vendors with the buyer committing the persons / officials of both the parties with the aim not to exercise any corrupt influence on any respect of the contract. Only those bidders, who are willing to enter into such an Integrity Pact with the Purchaser, would be competent to participate in the bidding.

The Integrity Pact would be effective from the date of invitation of bids till complete execution of the Contract. The format of the Integrity Pact is given in Annexure-XII.

#### **2.21 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.

#### **2.22 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.

**2.23 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.**

**2.24 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>  
**FORMAT OF DECLARATION FROM BIDDERS IN LIEU OF EMD**

I /We, the authorized signatory of M/s

.....,

participating in the subject Tender No.

.....for

the job of.....

....., do hereby declare:

i. that I / we have availed the benefit of waiver of EMD while submitting our offer against the subject Tender and No EMD being deposited for the said Tender.

ii. that in the event we withdraw / modify our bid during the period of validity OR I / we fail to execute formal contract agreement within the given timeline OR I / we fail to submit a performance security within the given timeline OR I / we commit any other breach of Tender Conditions / Contract which attracts penal action of forfeiture of EMD and I / we will be suspended from being eligible for bidding / award of all future contract (s) of Inter-University Accelerator Centre (IUAC) for a period of one year from the date of committing such breach.

Signature of the Bidder\_\_\_\_\_

Name\_\_\_\_\_

Seal of the Company

<On Organization Letter Head>  
**BID SECURITY DECLARATION**

As per notification no.F/9/4/2020-PPD dated 12.11.2020 issued by Ministry of Finance, Department of Expenditure, Govt. of India, I/We hereby accepting that if the bids related to \_\_\_\_\_  
\_\_\_\_\_ are withdrawn or modified by me/us during the period of validity etc., IUAC has right to suspend the bid for the time specified in the tender documents.

Signature of the Bidder\_\_\_\_\_

Name\_\_\_\_\_

Seal of the Company

<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

**ANNEXURE- VI**

<On Organization Letter Head>

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

**BIDDERS PAST SUPPLIES PERFORMA**

SL.NO.	NAME & ADDRESS	PERIOD	DESCRIPTION	TOTAL QTY SUPPLIED	REMARKS

NOTE :- CERTIFICATE FROM CLIENTS TO BE ENCLOSED ALONGWITH THIS  
PROFORMA AS PER BID EVALUATION CRITERIA.

Signature of the Bidder\_\_\_\_\_

Name\_\_\_\_\_

Seal of the Company

**ANNEXURE-VII**

<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 this 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>

**ANNEXURE-IX**  
**(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.

*(Copy/ evidence of valid registration by the Competent Authority is to be attached)*

Signature of the Bidder \_\_\_\_\_

Name \_\_\_\_\_

Seal of the Company

<On Organization Letter Head>

**ANNEXURE-X**  
(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.

*(Copy/ evidence of valid registration by the Competent Authority is to be attached)*

Signature of the Bidder \_\_\_\_\_

Name \_\_\_\_\_

Seal of the Company

<On Organization Letter Head>

**DECLARATION OF LOCAL CONTENT**

(To be given on Company Letter Head – For tender value below Rs.10 Crores)

(To be given by Statutory Auditor/ Cost Auditor/ Cost Accountant/ CA for tender value above Rs.10 Crores)

To,  
The Director,  
Inter University Accelerator Centre  
Aruna Asaf Ali Marg  
New Delhi- 110 067

Subject: - Declaration of Local Content

Tender Reference No : \_\_\_\_\_

Name of Tender/ Work: \_\_\_\_\_

1. Country of Origin of Goods being offered: \_\_\_\_\_
2. We hereby declare that items offered has \_\_\_\_\_% local content
3. Details of the Location at which the Local Value Addition is made \_\_\_\_\_
4. Details of Local Content

“Local Content” means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of the imported content in the item (including all customs duties) as a proportion of the total value, in percent.

***Bidders offering Imported products will fall under the category of Non-Local Suppliers. They cannot claim themselves as Class-I or Class –II Local Suppliers by claiming the services such as Transportation, Insurance, Installation, Commissioning, Training and After Sale Service Support like AMC/ CMC etc. as Local Value Addition.***

“\*False declaration will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.”

Yours faithfully,  
Signature of the Bidder \_\_\_\_\_

Name \_\_\_\_\_

Seal of the Company

***Note: Preference shall be given to local suppliers as per revised Public Procurement (Preference to Make in India), Order 2017, No. P-45021/2/2017-PP (B.E-II) dated 16.09.2020 issued by DPIIT, Ministry of Commerce and Industry, Govt. of India. (Submit duly filled Declaration of Local Content for the same). The Declaration once submitted in the Technical Bid will be final. Submission of Revised Declaration will NOT be accepted.***

<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

**Proforma of Bank Guarantee for Performance of the contract in respect of items of work for which the Bidder have quoted low/unworkable rates**

Date :.....

The Director,  
Inter University Accelerator Centre  
Aruna Asaf Ali Marg  
New Delhi-110067

Dear Sir/Madam

Name of work:\_\_\_\_\_

WHEREAS

The Inter University Accelerator Centre, New Delhi (hereinafter called "the Employer") has invited tenders for \_\_\_\_\_ (hereinafter referred to as "the work") on the terms and conditions mentioned in the tender documents.

It is one of the precondition of the Employer for awarding the contract that the Bidder shall furnish a performance bank guarantee for sum of ₹...../- (Rupees -----) (hereinafter referred to as "the caution money") for satisfactory execution of those items of works, for which the Bidder have quoted low/unworkable rates (hereinafter referred to as "the low rates items of work".)

M/s. \_\_\_\_\_, (hereinafter called as "the Bidder"), who are our constituents, have tendered for the said work and for award of the work need to submit Performance Bank Guarantee for low rated items and have requested us to furnish guarantee to the Employer in respect of the said sum of Rs. \_\_\_\_\_/- (Rupees \_\_\_\_\_ only).

NOW THIS GUARANTEE WITNESSTH

1. We \_\_\_\_\_ (name of the Scheduled Bank) do hereby agree with and undertake to the Inter University Accelerator Centre, their successors, Assigns that in the event of the Inter University Accelerator Centre coming to the conclusion that the Bidder have not performed their obligations under the said conditions of the tender or have committed a breach thereof, which conclusion shall be binding on us as well as the said Bidder, 50 we shall on demand by the Inter University Accelerator Centre, pay without demur to the Inter University Accelerator Centre, a sum of ₹ \_\_\_\_\_/- (Rupees \_\_\_\_\_ Only) or any lower amount that may be demanded by the Inter University Accelerator Centre. Our guarantee shall be treated as equivalent to the Caution Money for satisfactory execution of the low rated items of work for the due performance of the obligations of the Bidder under the said additional Conditions, provided, that our liability against such sum shall not exceed the sum of Rs. \_\_\_\_\_/- (Rupees \_\_\_\_\_ only).

2. We also agree to undertake to and conform that the sum not exceeding ₹ \_\_\_\_\_/- (Rupees \_\_\_\_\_ only) as aforesaid shall be paid by us without any demur or protest, merely on demand from the Inter University Accelerator Centre on receipt of a notice in writing stating the amount is due to them and we shall not ask for any further proof or evidence and the notice from the Inter University Accelerator Centre shall be conclusive and binding on us and shall not be questioned by us in any respect or manner whatsoever. We

undertake to pay the amount claimed by the Inter University Accelerator Centre within a period of one week, from the date of receipt of the notice as aforesaid.

3. We confirm that our obligation to the Inter University Accelerator Centre under this guarantee shall be independent of the agreement of agreements or other understandings between the Inter University Accelerator Centre and the Bidder.

4. This guarantee shall not be revoked by us without prior consent in writing of the Inter University Accelerator Centre.

5. We hereby further agree that:

(a) Any forbearance or commission on the part of the Inter University Accelerator Centre in enforcing the conditions of the said agreement or in compliance with any of the terms and conditions stipulated in the said tender and/or hereunder or grating of any time or showing of any indulgence by the Inter University Accelerator Centre to the Bidder or any other matters in connection therewith shall not discharge us in any way and our obligation under this guarantee. This guarantee shall be discharged only by the performance by the Bidders of their obligations and in the event of their failure

to do so, by payment by us of the sum not exceeding ₹ \_\_\_\_\_/- (Rupees \_\_\_\_\_ only).

(b) Our liability under these present shall not exceed the sum of ₹ \_\_\_\_\_/- (Rupees \_\_\_\_\_ only).

(c) Our liability under this agreement shall not be affected by any infirmity or irregularity on the part of our said constituents in tendering for the said work or their obligations thereunder or by dissolution or change in the constitution of our said constituents.

(d) This guarantee shall remain in force up to six months from \_\_\_\_\_ (date of scheduled completion) provided that if so desired by the Inter University Accelerator Centre, this guarantee shall be renewed for a further period as may be indicated by them on the same terms and conditions of our said herein.

(e) Our liability under this presents will terminate unless these presents are renewed as provided herein above on the \_\_\_\_\_ (date) or on the day when our said constituents comply with their obligations, as to which a certificate in writing by the Inter University Accelerator Centre alone is the conclusive proof whichever date is later. Unless a claim or suit or action is filed against us within six months from that date under clause (d) above or any extended period, all the rights of the Inter University Accelerator Centre against us under this guarantee shall be forfeited and we shall be released and discharged from all-over obligations and liabilities hereunder.

Yours' faithfully,

For and on behalf of

\_\_\_\_\_  
(Seal of the Scheduled Bank)

Signature of the Authorised Official

(Name, designation, date etc.)

**Note - This guarantee will require stamp duty as applicable in the State of \_\_\_\_\_, where it is executed and shall be signed by the official whose signature and authority shall be.**

**Annexure- XIV****CHECK-LIST FOR PRE-QUALIFICATION BID**

<b>Sl. No.</b>	<b>Documents asked for</b>	<b>Page number at which document is placed</b>
1.	Tender Acceptance Letter	
2.	Bid Security Declaration	
3.	Profile of the bidder	
4.	Undertaking on letter head (as per format prescribed in Annexure-VII) along with tender document.	
5.	Technical Specification/Scope of Work	
6.	Self-attested copy of the GSTIN & PAN card issued by the respective authorities.	
7.	Copies of work/supply orders as specified in the NIT along with satisfactory performance certificates from the concerned employers.	
8.	Annual turnover of last three financial years duly certified by the Statutory Auditors.	
9.	Declaration for Code of Integrity and Conflict of Interest	
10.	Site Visit Undertaking	
11.	Copy of MSME/NSIC Registration Certificate.	
12.	Declaration of Local Content	
13.	Any other documents, if required.	

**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. In case 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 Ics (rms) – 50kA
- k) Rated ultimate S/C breaking capacity Icu (rms) – 50kA
- l) Break Time - less than 40ms
- m) S/C making capacity Icm (peak) - 105kA
- n) Rated short time withstands current - Icw 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 - 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><b>Incoming:</b> 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.	<b>Outgoing:</b> MCCB : 4 pole, 630 Amps, 50 kA with electronic release	-1no.		
4.	<b>Outgoing:</b> MCCB with operating handles: 4 pole, 400 Amps, 50 kA with electronic release	-3nos		
5.	<b>Outgoing:</b> 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, phase separators of MCCBs and other switchgears, MCBS, LED indication lamps, bus supports, VSPD-1 no. Replacement/ repair of Front doors for input	1 Lot		

	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			

**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

# INPUT PANEL GA DRAWING

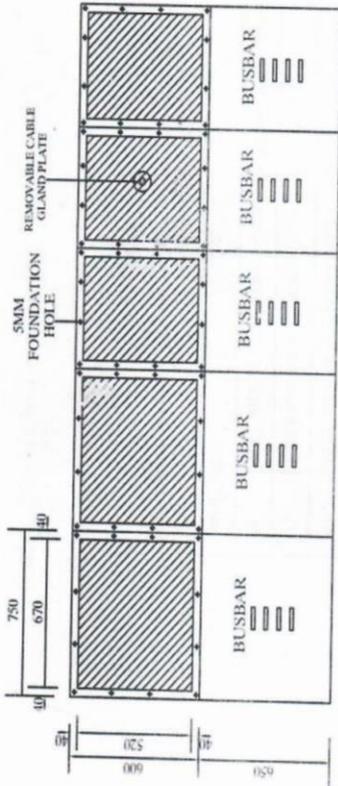
CABLE ENTRY FROM TOP / BOTTOM  
 ALL DIMENSION ARE IN M.M.  
 OUT GOING FROM TOP/BOTTOM.  
 FABRICATION STRUCTURE :  
 1.6 MM DOOR, SIDE PANEL -2.0 MM.

BUSBAR 1250A TPN AL.

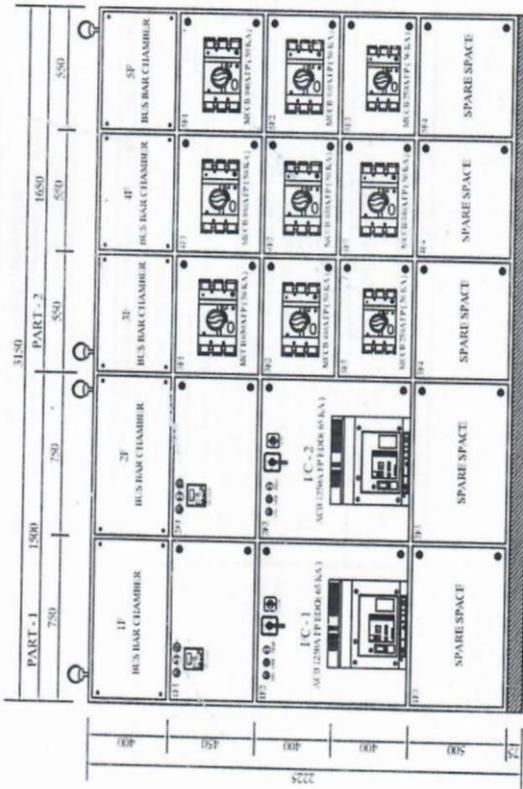
PHASE - 2 X 60X10 MM AL.

NETURAL - 1 X 60X10 MM AL.

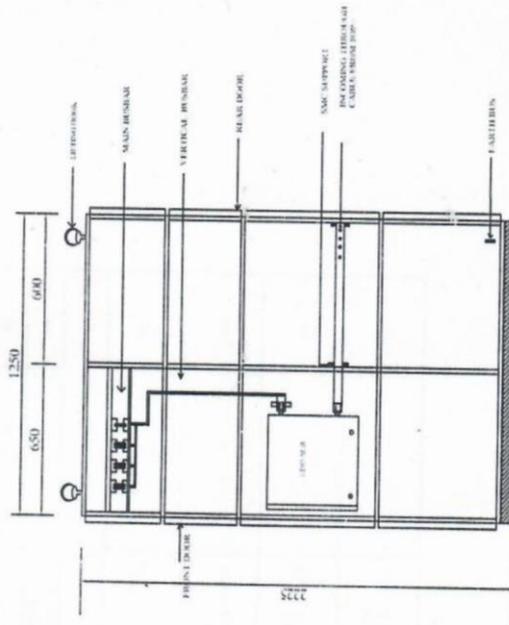
EARTH - 1 X 30X5 MM AL.



TOP VIEW

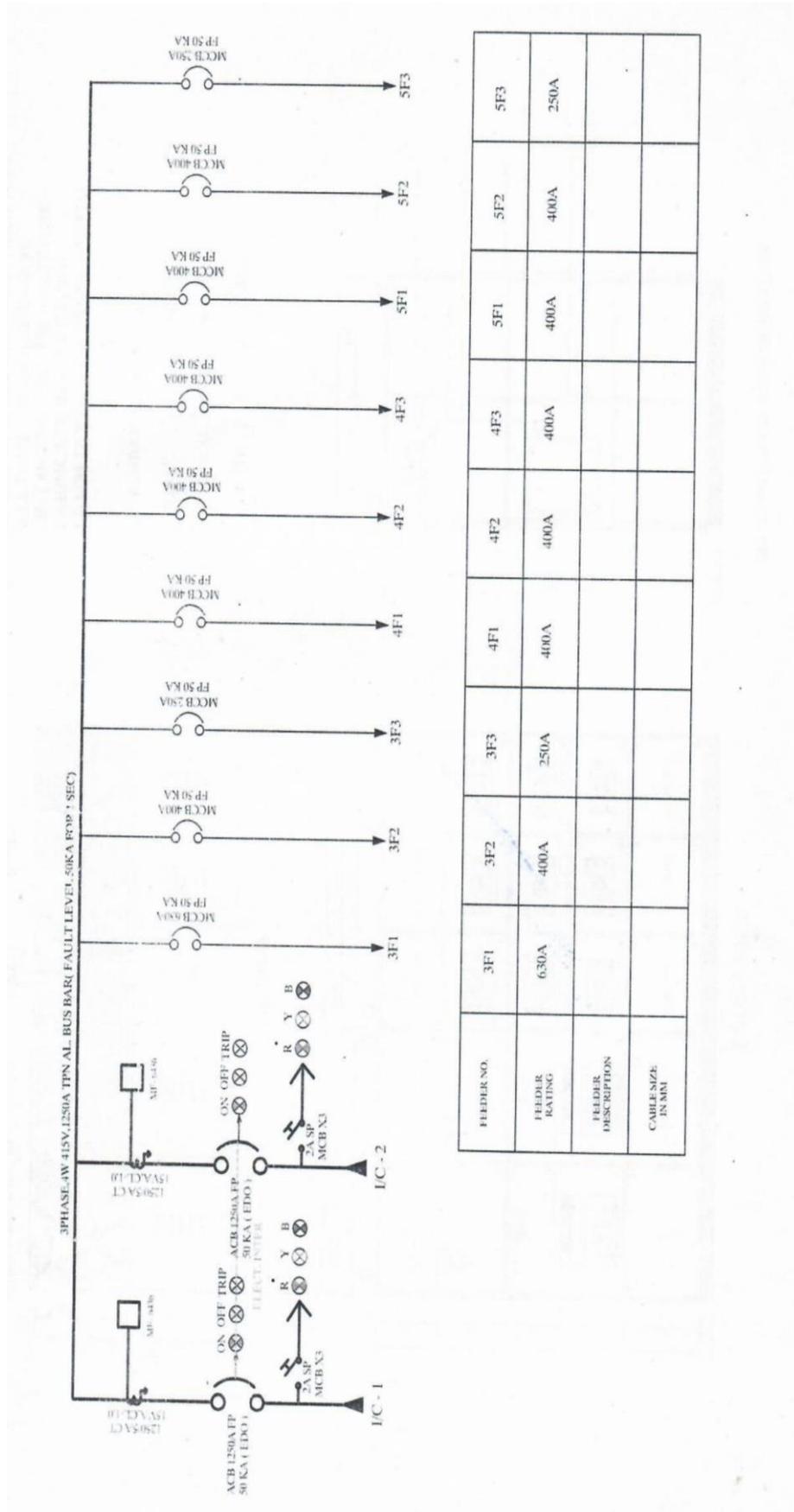


FRONT VIEW



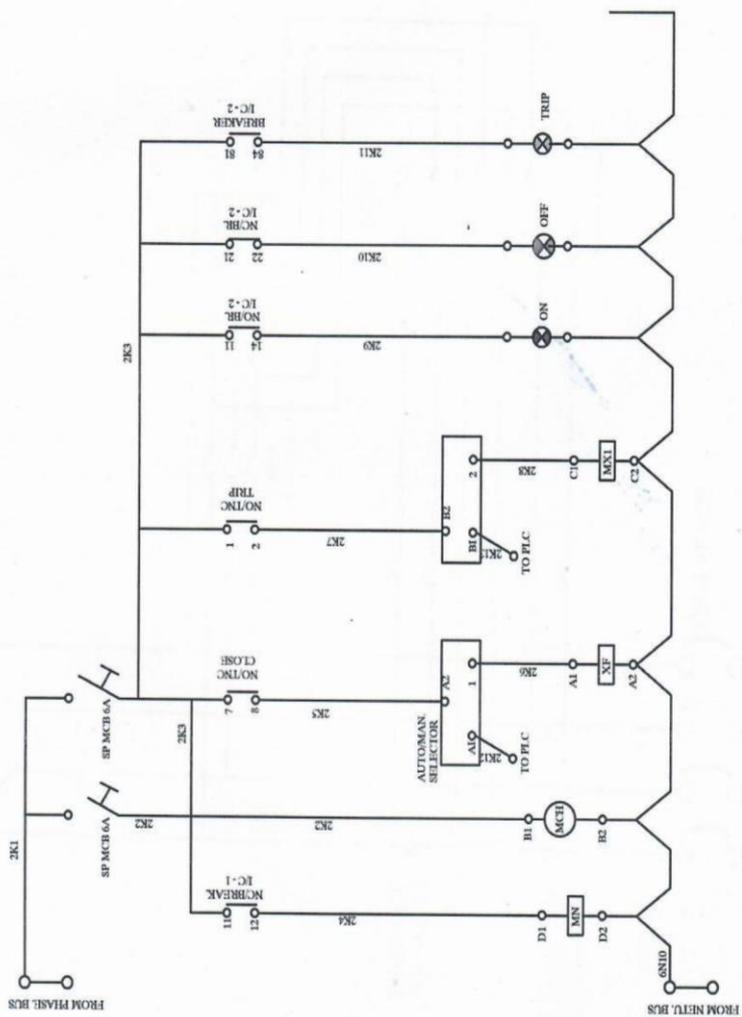
SECTIONAL SIDE VIEW OF INCOMER

# INPUT PANEL SLD DRAWING

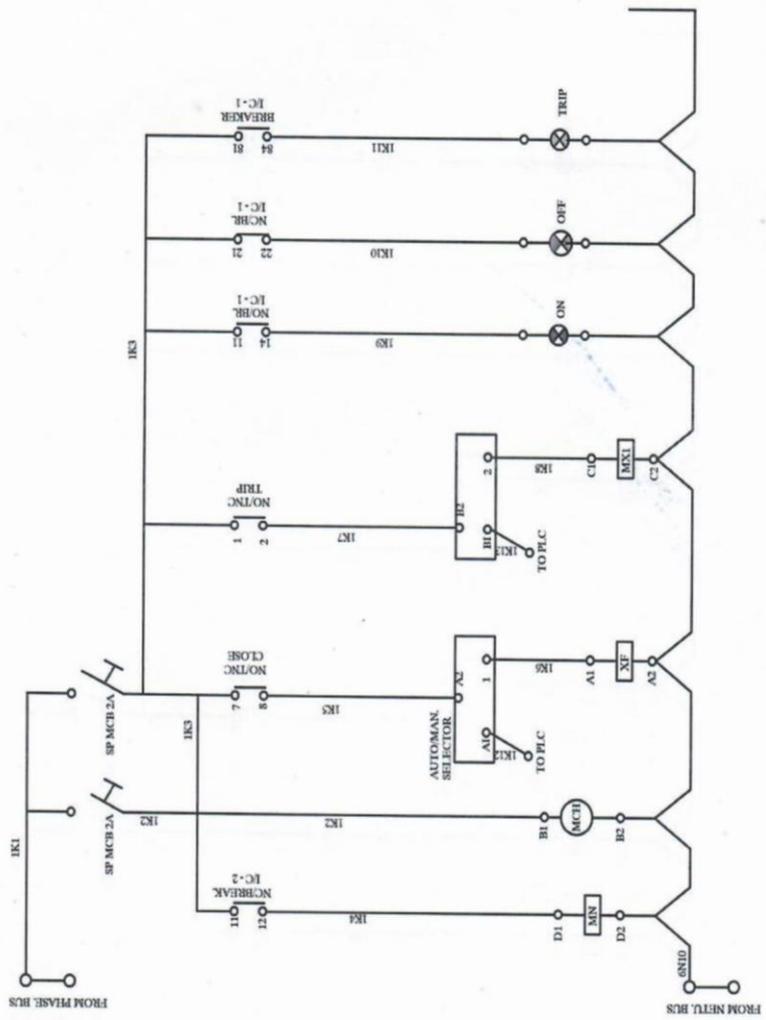


FEEDER NO.	FEEDER RATING	FEEDER DESCRIPTION	CABLE SIZE IN MM
3F1	630A		
3F2	400A		
3F3	250A		
4F1	400A		
4F2	400A		
4F3	400A		
5F1	400A		
5F2	400A		
5F3	250A		





LEGENDS	
SYMBOLS	DESCRIPTION
	N O CONTACT
	N C CONTACT
	SHUNT RELAY COIL
	CLOSING RELAY COIL
	UNDER VOLTAGE RELAY COIL
	MINIATURE CIRCUIT BREAKER



INPUT PANEL BOQ

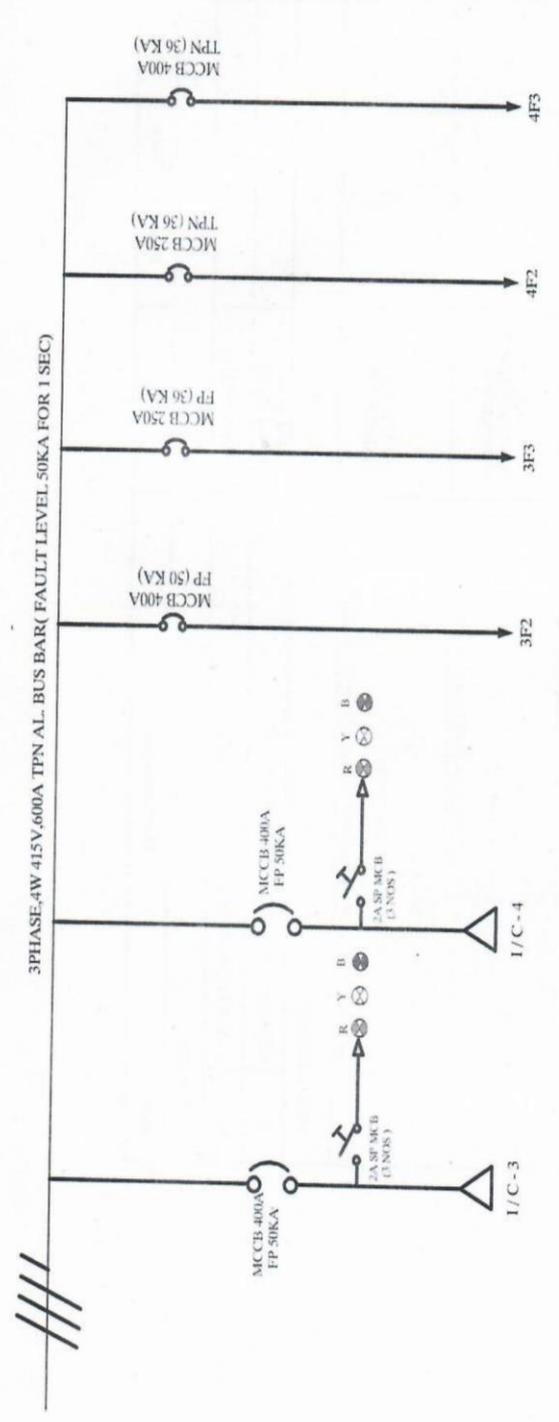
S.No.	DESCRIPTION	MAKE	TYPE / CAT. NO.	Qty.
<b>METERING</b>				
01	DIG. MULTI FUNCTION METER 96*96 SO MM WITH RS-485 PORT	CONZERV 6436		02
02	CURRENT TRANSFORMER 1250/5A, CL-1.9, 15VA	ALPHA/MATRIX		06
03	LED TYPE INDICATING LIGHT 22.5MM	SIEMENS I&T		12
04	BREAKER CONTROL SWITCH ( T-N-C )	SALZER - I&T		02
05	AUTO / MANUAL SELECTOR SWITCH 2 POLE , 2 WAY	SALZER - I&T		02
06	AUTOMATIC SOURCE TRANSFER KIT	SCHNEIDER		02
07	CONTROL MCB 2A, 1P, 10 KA C CURVE	SCHNEIDER (MULTI 9)		01
<b>AIR CIRCUIT BREAKER</b>				
01	ACB 1250A 4P EDO 50 KA WITH MICROPROCESSOR BASED O/C, S/C & E/F PROTECTION - RELEASE (A) UNDER VOLTAGE RELAY 220 V AC, (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 BOQ**

S.No.	DESCRIPTION	MAKE	TYPE / CAT. NO.	Qty.
<b>METERING</b>				
01	LED TYPE INDICATING LIGHT 22.5MM	SIEMENS/L&T		14
02	CONTROL MCB 2A, 1P, 10 KA C CURVE	SCHNEIDER (MULTI 9)		18
<b>AIR CIRCUIT BREAKER</b>				
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		

