



Notice Inviting Tender

Name of Work: Installation of split ACs in different buildings of IIT Bhilai.

Sub Head: Electrical Works in FY 2024-25

Tender No: 05/IITBHILAI/Estate/2024-25 dated 28/06/2024

Estimated Cost	:	Rs. 5,00,000/-
Bid Publishing date	:	28/06/2024
Bid submission start date	:	28/06/2024
Bid submission end date	:	05/07/2024 up to 03:00 PM

Contact Us:

Indian Institute of Technology Bhilai

**Kutelabhata, Durg,
Chhattisgarh, India - 491002**

www.iitbhilai.ac.in

email: estate@iitbhilai.ac.in

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NIT Amounting to Rs. 5,00,000/- (Rupees Five Lakh Only)

**Registrar
For & on Behalf of Director, IIT Bhilai**

NOTICE INVITING E-TENDERS

Registrar, IIT Bhilai on behalf of Director invites online Item Rate Tender from Firms/ Contractors for the following work:

1. NIT No : 05/IITBHILAI/Estate/2024-25
2. Name of Work : Installation of split ACs in different buildings of IIT Bhilai.
3. Sub Head : Electrical Works in FY 2024-25
4. Estimated cost : **Rs. 5,00,000/-**
5. Earnest Money : **Rs. 10,000/-**
6. Tender Fees : **Rs. 1,000/-**
7. Time for completion : **90 Days**
8. Last date & time of submission of bid: **05/07/2024 up to 03:00 PM (online)**

The bid forms and other details can be obtained from the website www.iitbhilai.ac.in or www.e-procure.gov.in **free of cost**. For more clarification you may visit on above website.

Registrar
For & on Behalf of Director, IIT Bhilai

Copy to: -

1. Director
 2. Chairman (IWD), for information.
 3. AEE (E)
 4. AEE (C)
 5. Notice Boards.
 6. Office Copy
 7. Web site Administrator, IIT Bhilai
-

SCHEDULE

Name of Organization	Indian Institute of Technology Bhilai
Tender Type (Open/Limited/EOI/Auction/Single)	Open
Tender Category (Services/Goods/works)	Works
Type/Form of Contract (Work/Supply/Auction/Service/Buy/ Empanelment/ Sell)	Works
Product Category (Civil Works/Electrical Works/Fleet Management/ Computer Systems)	Electrical
Source of Fund (Institute/Project)	Institute
Is Multi Currency Allowed	No
Date of Issue/Publishing	28/06/2024
Document Download/Sale Start Date	28/06/2024
Document Download/Sale End Date	05/07/2024 up to 03:00 PM
Date for Pre-Bid Conference	Nil
Venue of Pre-Bid Conference	N/A
Last Date and Time for Uploading of Bids	05/07/2024 up to 03:00 PM
Date and Time of Opening of Technical Bids	08/07/2024 up to 03:30 PM
EMD	Rs. 10,000/- (Rupees Ten Thousand Only) Through SBI i-collect Link https://www.onlinesbi.sbi/sbicollect/icollecthome.htm?corpID=646425 step1. Click Check Box to proceed for payment. step2. Select Estate Tender Fee/EMD. Step3. Fill all Details and Submit.
Tender Fee	Rs 1000/- (Rs. One Thousand only) Through SBI i-collect Link https://www.onlinesbi.sbi/sbicollect/icollecthome.htm?corpID=646425 step1. Click Check Box to proceed for payment. step2. Select Estate Tender Fee/EMD. Step3. Fill all Details and Submit (This online payment receipt may be provided in the on-line quotation/bid.)
No. of Covers (1/2/3/4)	NA
Bid Validity days	75 days (From last date of opening of bids)
Address for Communication	Assistant Executive Engineer, Estate Management Department, 1st floor, Health Center Building, Permanent Campus of IIT Bhilai, Kutelabhata, Durg (C.G.)
Contact No.	7000374609
Fax No.	Nil
Email Address	estate@iitbhilai.ac.in

INDIAN INSTITUTE OF TECHNOLOGY BHILAI
KUTELABHATA, DURG, CHHATTISGARH, INDIA – 491002
INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING (Tender Notice)

Registrar, IIT Bhilai on behalf of Director, IIT Bhilai invite online Item Rate Tender from Firms/ Contractors Registered in appropriate class and category with CPWD, BSNL, Railways, State PWD and State Electricity Board for Electrical / composite works of the following work:

Sl No.	NIT No.	Name of the work	Estimated Cost (in Rs.)	Earnest Money (in Rs.)	Tender Fees (in Rs.)	Time for Completion
1.	05/IITBHILAI/Estate/2024-25	<p>Name of work: - Installation of split ACs in different buildings of IIT Bhilai.</p> <p>Sub Head: - Electrical Works in FY 2024-25</p>	Rs. 5,00,000/-	Rs. 10,000/-	Rs. 1,000/-	90 Days

Last date and time of submission of financial & Technical bid : - 05/07/2024 up to 03:00 PM (online)

Date and time of opening of Online Technical bid : - 08/07/2024 up to 03:30 PM

Price/Financial bids of eligible bidders as per NIT shall be opened at a later date after scrutiny of technical bids.

1. The successful bidders shall be required to submit a performance guarantee of 5% of the tendered amount in the form of Bank Guarantee or F.D.R. from a Nationalized/Scheduled Bank within 07 days of issue of letter of intent before award of work. In case of failure by the Contractor to supply the performance guarantee within the specified period, full earnest money will be forfeited and the tender shall be treated as void. The performance guarantee shall be initially valid up to the stipulated date of completion plus 06 months beyond that.

2. Contractors who fulfill the following requirements shall be eligible to apply. Joint ventures are not accepted.

Firms/Contractors must have completed satisfactorily.

i) Experience of having successfully completed works during last 7 years up to previous day of last date of submission of tender, as given below:

a) One similar work of value not less than 80% of the Estimated Cost

OR

b) Two similar works each of value not less than 60% of the Estimated Cost

OR

c) Three similar works each of value not less than 40% of the Estimated Cost

Works completed during last 7 years ending on the last date of submission of Bid.

ii) **Earnest money of Rs. 10,000/-** shall be deposited online through SBI i-collect **as per details given in Schedule.** No relaxation in EMD will be allowed for MSME and MSEs as per CPWD works manual.

3. The intending bidder must read the terms and conditions of IIT BHILAI/CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.

4. Information and instructions for bidders posted on website shall form part of bid document.

5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website <http://eprocure.gov.in/eprocure/app> in free of cost.

6. Completion certificates issued by an officer not below the rank of Executive Engineer of similar works completed by the Agency.
7. Work means only work under Government/ Public Sector Undertaking/Government Autonomous bodies/State Government.
8. **For criteria of similar works defined in point no 2, experience in completed Air Conditioning works, HVAC works and similar Electrical works will only be considered for evaluation of eligibility criteria. Bidder have to provide bill of quantity along with valid completion certificates. Experience in other works will not be entertained.**
9. **In case if bidder submits experience of component of main work against similar work criteria then that experience will be considered only when entire main work has been completed.**
10. The value of executed work shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum calculated from the date of completion to last date of submission of financial bid.
11. IIT Bhilai is committed to follow the principle of transparency, equity and competitiveness in public procurement. Before submission of bid each bidder should sign integrity pact at respective places and submit the bid, if duly signed integrity pact is not submitted by bidder such bid shall not be considered.
12. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.
13. The intending bidder must have valid class-III digital signature to submit the bid.
14. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
15. Contractor can upload documents in the form of JPG format and PDF format.
16. In Item rate tender contractor must ensure to quote rate of each item, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).
17. In percentage rate tender, if a tenderer does not quote any percentage above / below on the total amount of the tender or any section / sub head, the tender shall be treated as invalid and will not be considered as lowest tenderer. In percentage rate tender, the tendered percentage quoted in figures shall be taken as correct.
18. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.
19. In e-Tendering intending bidder can quote his rates in figures only. The rates in words, amount of each item and total is generated automatically. Therefore, the rate quoted by the bidder in figures is to be taken as correct.
20. The bid can only be submitted after uploading the mandatory documents such as online payment receipts with respect to Tender Fee and EMD as per Schedule.
21. Copy of enlistment order and certificate of work experience and other documents as specified in the Press Notice/web notice shall be scanned and up-loaded to the e-Tendering website within the period of bid submission. However, certified/original copy of all the scanned and up-loaded documents as specified in press notice web/notice shall have to be submitted by the lowest bidder within a week physically in the office of e- tendering authority and it shall be sole responsibility of lowest bidder.
22. Online bid documents submitted by intending bidders shall be opened only of those bidders, who has submitted EMD as per Schedule and other documents scanned and uploaded are found in order.
23. **The bid submitted shall become invalid if:**

- a. The bidder is found ineligible if he fails to download documents from give in tender notice.
- b. The bidder does not upload all the documents (including GST registration) as stipulated in the bid document.
- c. If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest tenderer in the office of tender opening authority.
- d. In the event of tender being submitted by a firm, it must be signed separately by each partner thereof or in the event of the absence of any partner, it must be signed on his behalf by a person holding a power of attorney authorizing him to do so, such power of attorney to be produced with the tender, and it must disclose that the firm is duly registered under the Indian Partnership Act 1932, above not submitted.

24. Bid validity shall be 75 days after opening of bids.

25. In case of partnership firm, submission of power of Attorney on a non-judicial stamp paper, duly signed by all partners of the bidding firm is mandatory without which bidding firm tender shall be rejected.

26. List of Documents mentioned in Annexure-I is to be scanned and uploaded within the period of bid submission.

27. "In case of partnership firm, submission of power of Attorney on a non-judicial stamp paper, duly signed by all partners of the bidding firm is mandatory without which bidding firm tender shall be rejected."

***Name of work/ NIT no. should be clearly mention on every undertaking, Affidavit etc.**

NOTICE INVITING TENDER

INDIAN INSTITUTE OF TECHNOLOGY BHILAI
KUTELABHATA, DURG, CHHATTISGARH, INDIA – 491002

Indian Institute of Technology Bhilai is in the process of purchasing following item(s) as per details as given as under.

Details of the item	As per Tender Notice
Earnest Money Deposit to be submitted	As per Tender Notice
Warranty	As per Tender Notice, NIT & IIT BHILAI/CPWD form 7/8
Performance security	As per Tender Notice, NIT & IIT BHILAI/CPWD form 7/8

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

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

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

FORM "F"
STRUCTURE & ORGANISATION

1. Name & Address of the bidder
2. Telephone no./ Telex no./ Fax no
3. Legal status of the bidder (attach copies of original document defining the legal status)
 - a. An Individual
 - b. A proprietary firm
 - c. A firm in partnership
 - d. A limited company or Corporation
4. Particulars of registration with various Government Bodies (attach attested photocopy)
Organization/ Place of registration Registration No:
5. Name and titles of Directors & Officers with designation to be concerned with this work
.....!
.....!
6. Designation of individuals authorized to act for the organization.....!
7. Has the bidder or any constituent partner in case of partnership firm, ever abandoned the awarded work before its completion? If so, give name of the project and reasons for abandonment.....!
8. Has the bidder or any constituent partner in case of partnership firm, ever been debarred/blacklisted for tendering in any organization at any time? If so, give details.....!
9. Has the bidder, or any constituent partner in case of partnership firm, ever been convicted by the court of law? If so, give details
10. Past work experience in IIT Bhilai will be considered in deciding the Technical bid.....!

Signature of Bidder(S)

TERMS & CONDITIONS

INSTRUCTIONS FOR ONLINE BID SUBMISSION:

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

More information useful for submitting online bids on the CPP Portal may be obtained at: <http://eprocure.gov.in/eprocure/app>

REGISTRATION

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

SEARCHING FOR TENDER DOCUMENTS

- 1) 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.
- 2) 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.
- 3) 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 Helpdesk.

PREPARATION OF BIDS

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) 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.
- 3) 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/RAR/DWF formats. Bid documents may be scanned with 100 dpi with black and white option.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

SUBMISSION OF BIDS

- 1) Bidder should log into the site well in advance for bid submission so that he/she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as "on-line" to pay the tender fee/EMD as applicable and enter details of the instrument. Whenever, EMD/Tender fees are sought, bidders need to pay the tender fee and EMD separately on-line through SBI collect (Refer to Schedule, Page No.09).
- 4) A standard BoQ format has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.

OR

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

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

ASSISTANCE TO BIDDERS

1. Any queries relating to the 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.
2. Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is 1800 233 7315.

GENERAL INSTRUCTIONS TO THE BIDDERS

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

GENERAL INSTRUCTIONS

Tenders have been invited on the basis of standard Forms 7/8 and General Conditions of contract for the work in Central Public Works Department (CPWD). However, in the contact of IIT Bhilai, the following terms may be read as:

	As per Standard Forms	To be read as
	President of India	Director, IIT Bhilai
	Government of India	Indian Institute of Technology Bhilai
	Central Public Works Departments	Estate Management Department, IIT Bhilai
	Chief Engineer, CPWD	Engineer in-Charge or equivalent officer appointed by Registrar, IIT Bhilai
	Circle Office	Office of Estate Management Department, IIT Bhilai

Registrar
For & on Behalf of Director, IIT Bhilai

TERMS & CONDITIONS DETAILS

S. No.	Specification
1.	Due date: The tender has to be submitted on-line before the due date. The offers received after the due date and time will not be considered. No manual bids will be considered.
2.	Preparation of Bids: The offer/bid should be submitted in two bid systems (i.e.) Technical bid and financial bid. The technical bid should consist of all technical details along with commercial terms and conditions. Financial bid should indicate item wise price for the items mentioned in the technical bid in the given format i.e BOQ_XXXX. OR Financial Bids to be submitted in Excel. The Technical bid and the financial bid should be submitted Online.
3.	EMD (if applicable): As per NIT
4.	Refund of EMD :- As per NIT
5.	Opening of the tender: As per Tender Notice, NIT & IIT BHILAI/CPWD form 7/8
6.	Acceptance/ Rejection of bids: The Committee reserves the right to reject any or all offers without assigning any reason.
7.	Pre-qualification criteria: - Mentioned in Tender notice
8.	Performance Security:- Mentioned in Tender notice
9.	Force Majeure :- As per IIT BHILAI/CPWD form 7/8
10.	Risk & Cost Clause : As per IIT BHILAI/CPWD form 7/8
11.	Delivery and Documents: As per Tender Notice & NIT & IIT BHILAI/CPWD form 7/8
12.	Delayed delivery: As per Tender Notice & NIT & IIT BHILAI/CPWD form 7/8
13.	Prices: As per Tender Notice & NIT & IIT BHILAI/CPWD form 7/8
14.	Progress of Work : As per Tender Notice & NIT & IIT BHILAI/CPWD form 7/8
15.	Inspection and Tests: As per Tender Notice & NIT & IIT BHILAI/CPWD form 7/8
16.	Resolution of Disputes: As per Tender Notice & NIT & IIT BHILAI/CPWD form 7/8
17.	Applicable Law: As per Tender Notice & NIT & IIT BHILAI/CPWD form 7/8
18.	Supplier Integrity : As per Tender Notice & NIT & IIT BHILAI/CPWD form 7/8
19.	Training : As per Tender Notice & NIT & IIT BHILAI/CPWD form 7/8
20.	Installation & Demonstration : As per Tender Notice & NIT & IIT BHILAI/CPWD form 7/8
21.	Incidental services: As per Tender Notice & NIT & IIT BHILAI/CPWD form 7/8
22.	Defect liability Period : As per Tender Notice & NIT & IIT BHILAI/CPWD form 7/8

23.	Governing Language : As per Tender Notice & NIT & IIT BHILAI/CPWD form 7/8
24.	Applicable Law : As per Tender Notice & NIT & IIT BHILAI/CPWD form 7/8
25.	Notices : As per Tender Notice & NIT & IIT BHILAI/CPWD form 7/8
26.	Taxes : As per Tender Notice & NIT & IIT BHILAI/CPWD form 7/8
27.	Termination for Default : As per Tender Notice & NIT & IIT BHILAI/CPWD form 7/8
28.	Disputes and Jurisdiction: As per Tender Notice & NIT & IIT BHILAI/CPWD form 7/8
29.	Completion certificate: As per Tender Notice & NIT & IIT BHILAI/CPWD form 7/8

COMPLIANCE SHEET

TECHNICAL SPECIFICATION

S.No.	Technical Bid Requirement As per Tender Notice & NIT & IIT BHILAI/CPWD form 8 (Duly attested)	Compliance Y/N
1	Detail of Submission of Tender Fee	
2	Detail of Submission of EMD	
3	Firm registration and Enlistment certificate	
4	Work Experience Certificate, Bill of Quantities of Similar works, Work Completion Certificate	
5	Affidavit as per Notice Inviting Tender Condition 1.3 page 20 of NIT	
6	PAN card and GST Registration	
7	GST Return	
8	ESI & EPF Certificate/Affidavit	
9	Duly filled INTEGRITY PACT of page no. 24	
10	Annexure II	
11	Annexure III	
12	FORM "F" (Duly filled with all required details)	

I have also enclosed all relevant documents in support of my claims, (as above) in the following pages.

Signature of Bidder

Name: _____

Designation: _____

Organization Name: _____

Contact No. : _

<< Organization Letter Head >>

DECLARATION SHEET

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

This is certified that our organization has been registered as per Tender Notice & NIT & IIT BHILAI/CPWD form 8 Tender. We further certified that our organization meets all the conditions of eligibility criteria laid down in this tender document.

We, further specifically certify that our organization has not been Black Listed/De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/ Public Sector Undertaking in the last three years.	NAME & ADDRESS OF THE Vendor/ Manufacturer/ Agent
1 Phone	As per Tender Notice & NIT
2 Fax	
3 E-mail	
4 Contact Person Name	
5 Mobile Number	
6 GST Number	
7 PAN Number	
(In case of on-line payment of Tender Fees) 8 UTR No. (For Tender Fee)	
(In case of on-line payment of EMD) 9 UTR No. (For EMD)	

(Signature of the Tenderer)

Name:

Seal of the Company

LIST OF GOVT. ORGANIZATION/DEPTT.

List of Government Organizations for whom the Bidder has undertaken such work as per Tender Notice & NIT & IIT BHILAI/CPWD -7/8		
Name of the organization	Name of Contact Person	Contact No.

Signature of Bidder

Name: Designation:

Organization Name: Contact No. :

BID SUBMISSION

Online Bid Submission:

The Online bids (complete in all respect) must be uploaded online in two Envelops as explained below:-

Bid Document - 1			
Sl. No.	Documents	Content	File Types
1.	Technical Bid	Details of submission of Tender Fee and EMD, Enlistment or Registration Certificate	.PDF
2.		Work Experience, BOQ and Completion Certificate of Similar work, Affidavit as per NIT page 20	.PDF
3.		PAN Card, GST Registration and GST Return of last year	.PDF
4.		ESIC and EPF Registration or Affidavit or Declaration, and INTEGRITY PACT of page no. 24	.PDF
5.		Duly filled Annexure II, III and Form F	.PDF
Bid Document - 2			
Sl. No.	TYPES	Content	File Types
1.	Financial Bid	Price bid should be submitted in Excel format.	.xlsx

IIT BHILAI/CPWD -6 FOR e-TENDERING AND TERM & CONDITIONS

Item Rate Tender are invited on behalf of Director from contractors/firms engaged in the field of Electrical construction work in appropriate category for the work as per tender notice.

1. The enlistment of the contractors should be valid on the last date of submission of tenders. In case the last date of submission of tender is extended, the enlistment of contractor should be valid on the original date of submission of tenders.

1.1 The work is estimated to cost as per tender notice This estimate, however, is given merely as a rough guide.

1.2 Details of criteria for eligibility As Indicated in "INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e-TENDERING FORMING PART OF NIT AND TO BE POSTED ON WEBSITE".

1.3 To become eligible for issue of tender, the tenderer shall have to furnish an affidavit.

(i) Affidavit shall be purchased /notarized on or after NIT published date but on or before last date of submission of NIT.

(ii) Affidavit must have "NIT/tender reference number" and "Name of work" and shall be used once for each fresh tender.

No back dated affidavit shall be entertained and noncompliance of point (i) & (ii) shall lead to rejection of the tender.

Affidavit should be as mentioned under: -

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

2. Agreement shall be drawn with the successful bidders on prescribed Form No. IIT BHILAI/CPWD form No. 8(or other Standard Form as mentioned) which is available as a Govt. of India Publication. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.

3. The time allowed for carrying out the work will be as per tender notice from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.

4. The site for the work is available.

5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen from the web Site <http://eprocure.gov.in/eprocure/app> or IIT Bhilai.ac.in or e-procure.gov free of cost.

6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of tender as notified.

7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of tender as notified.

8. If it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the tender submitted earlier shall become invalid.

9. Detail of Earnest Money and tender fees payments through SBI i-collect shall be uploaded in the e-tendering website.

10. The bid submitted shall become invalid if:

(i) The bidders are found not eligible.

(ii) The bidders do not upload all the documents (including GST registration/ **other documents as per Tender Notice**) as stipulated in the bid document.

- (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hardcopies as submitted physically in the office of tender opening authority.
- (iv) The lowest bidder does not deposit physical EMD Declaration Form within a week of opening of tender.
11. The time & date of submission & opening of financial bid of contractors qualifying the **criteria as per Tender Notice** shall be communicated to them at a later date.
12. The contractor whose bid is accepted, will be required to furnish performance guarantee of 5% (Five Percent) of the tendered and accepted of the bided amount within the period specified in Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10000/-) or Deposit at Call receipt of any scheduled bank/Banker's cheque of any scheduled bank/ Demand Draft of any scheduled bank/Pay order of any Scheduled Bank of any scheduled bank (in case guarantee amount is less than Rs. 1, 00, 000/-) or Government Securities or Fixed Deposit Receipts or irrevocable Bank Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F' including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor.
13. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.
14. The competent authority on behalf of the Director, IIT Bhilai does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected.
15. Canvassing, whether directly or indirectly, in connection with tenderers is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
16. The competent authority on behalf of the Director, IIT Bhilai reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.
17. The contractor shall not be permitted to tender for works in the IIT Bhilai responsible for award and execution of contracts, in which his near relative is posted a IIT Bhilai or as an officer in any capacity between the grades of Registrar and Assistant (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any employee in the IIT Bhilai. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
18. No Engineer of Gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the previous permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as afore said before submission of the tender or engagement in the contractor's service.
19. The tender for the works shall remain open for acceptance for a period of seventy five (75) days from the date of opening of tenders, if any tenderer withdraws his tender before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the tender which are not acceptable

to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the tenderer shall not be allowed to participate in the retendering process of the work.

20. This notice inviting Tender shall form a part of the contract document. The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority shall within 07 days from the stipulated date of start of the work, sign the contract consisting of:-

21. a) The Notice Inviting Tender, all the documents including additional conditions, specifications and drawings, if any, forming part of the tender as uploaded at the time of invitation of tender and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.

22. b) Standard IIT BHILAI/CPWD Form – 7/8 or other Standard IIT BHILAI Form as mentioned.

23. In case any discrepancy is noticed between the documents as uploaded at the time of submission of the bid online and hard copies as submitted physically in the office of Registrar, then the bid submitted shall become invalid.

24. The EMD money submitted by all the bidders except the lowest bidder will be refunded as per IIT Bhilai/CPWD norms.

Registrar,
For & on Behalf of Director, IIT Bhilai

To,

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

Subject:- Installation of split ACs in different buildings of IIT Bhilai.

Sub Head:- Electrical Works in FY 2024-25

Dear Sir,

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

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

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

Yours faithfully

**Registrar,
For & on Behalf of Director, IIT Bhilai**

(To be signed by bidder and upload the scanned copy)

To,

Registrar,

Indian Institute of Technology Bhilai,
Kutelabhata, Bhilai, Durg-491002

Subject: - Submission of Bid for the work of “Installation of split ACs in different buildings of IIT Bhilai.”

Sub Head: - Electrical Works in FY 2024-25

Dear Sir,

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

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

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

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

Yours faithfully

(Duly authorized signatory of the Bidder)

To be signed by the bidder and same signatory competent/authorized to sign the relevant contract on behalf of IIT Bhilai.

INTEGRITY AGREEMENT

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

BETWEEN

The Director, IIT Bhilai represented through Registrar, IIT Bhilai.....,
(Hereinafter referred as the (Address of Division) '**Principal/Owner**', which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

AND

.....
(Name and Address of the Individual/firm/Company)through (Hereinafter referred to as the (Details of duly authorized signatory) "**Bidder/Contractor**" and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

Preamble

WHEREAS the Principal/Owner has floated the Tender (NIT No.....) (Hereinafter referred to as "**Tender/Bid**") and intends to award, under laid down organizational procedure, contract for

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

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

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

Article 1: Commitment of the Principal/Owner

1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:

(a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

(b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.

(c) The Principal/Owner shall endeavor to exclude from the Tender process any person, whose conduct in the past has been of biased nature.

2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence

under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

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

- 1) It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government/Department all suspected acts of **fraud or corruption or Coercion or Collusion** of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
- 2) The Bidder(s)/Contractor(s) commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
 - a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
 - b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.
 - c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
 - d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly, Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.
 - e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
- 3) The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 4) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice **means a willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.**
- 5) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

Article 3: Consequences of Breach

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach

of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/ Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

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

2) **Forfeiture of EMD/Performance Guarantee/Security Deposit:** If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.

3) **Criminal Liability:** If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

Article 4: Previous Transgression

1) The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.

2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/Contractor as deemed fit by the Principal/ Owner.

3) If the Bidder/Contractor can prove that he has resorted/recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

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

1) The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Sub-contractors/sub-vendors.

2) The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.

3) The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

Article 6- Duration of the Pact

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 09 Months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded.

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

Article 7- Other Provisions

1) This Pact is subject to Indian Law, place of performance and jurisdiction is the Headquarters of the Division of the Principal/Owner, who has floated the Tender.

2) Changes and supplements need to be made in writing. Side agreements have not been made.

- 3) If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
- 4) Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 5) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement/Pact, any action taken by the Owner/Principal in accordance with this Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.

Article 8- LEGAL AND PRIOR RIGHTS

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

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

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

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

1.....
 (signature, name and address)

2.....
 (signature, name and address)

Place:

Dated:

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for an on behalf of Director, IIT Bhilai for a sum of (Rupees.....).

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

- (a)
- (b)

Dated:

For & on behalf of Director, IIT Bhilai

Signature

Designation

INDIAN INSTITUTE OF TECHNOLOGY BHILAI

Item Rate Tender & Contract for Works

Tender for the work of: Installation of split ACs in different buildings of IIT Bhilai.

Sub Head: Electrical Works in FY 2024-25

- (i) To be uploaded on **as per tender notice**
- (ii) To be opened in presence of bidders who may be present at **as per tender notice**

TENDER

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

I/We hereby tender for the execution of the work specified for Director, I.I.T. Bhilai, within the time specified in Schedule 'F' viz., schedule of quantities and in accordance in all respect with the specifications, designs, drawing and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respect of accordance with, such conditions so far as applicable.

We agree to keep the tender open for seventy-five (75) days from the date of opening of bid.

A sum of **as per tender notice** is hereby forwarded in Banker Cheque or Demand Draft or Fixed Deposit receipt of a schedule bank drawn in favour of IIT Bhilai earnest money. If I/We, fail to furnish the prescribed performance guarantee within prescribed period. I/We agree that the said The Director, I.I.T. Bhilai or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that The Director, I.I.T. Bhilai or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form. Further, I/We agree that in case of forfeiture of Earnest Money & Performance Guarantee as aforesaid. I/We shall be debarred for participation in the re-tendering process of the work.

I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/We shall be debarred for tendering in I.I.T. Bhilai in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Registrar /Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

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

Dated:

Signature of Contractor

Witness:

Postal Address

Address:

Occupation:

PROFORMA OF SCHEDULES

SCHEDULE 'A' - Schedule of quantities (enclosed)

SCHEDULE 'B'

Schedule of materials to be issued to the contractor.

S.No.	Description of item	Quantity	Rates in figures & words at which the material will be charged to the Contractor	Place of issue
1			4	
← Nil →				

SCHEDULE 'C'

Tools and plants to be hired to the contractor

S.No.	Description	Hire charges per day	Place of Issue
1			
← Nil →			

SCHEDULE 'D'

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

----- Nil -----

SCHEDULE 'E'

Reference to General Conditions of contract: General Conditions of contract for CPWD/IIT BHILAI Works 2023 : GCC 2023, Form-7 for CPWD works **as amended upto last date of submission of bid.**

Name of work: Installation of split ACs in different buildings of IIT Bhilai.

Sub Head: Electrical Works in FY 2024-25

- (iii) Estimated cost of work : **As per Tender Notice**
- (iv) Earnest Money : **As per Tender Notice**
- (v) Performance Guarantee : **5% of tendered value**
- (vi) Security Deposit : **2.5% of Billed Amount**

SCHEDULE 'F'	
General Rules & Directions :	
Officer inviting tender	Registrar , IIT Bhilai
Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3	See Below
Definitions	
Engineer-in-charge	Assistant Executive Engineer (Civil) for Civil Component and Assistant Engineer/Assistant Executive Engineer(Electrical) for Electrical Component
Accepting Authority	Director, IIT Bhilai
Percentage on cost of materials and labor to cover all overhead & profits	15%
Standard schedule of Rates	<i>DSR 2023(Civil) and DSR 2022 (E &M) with correction slips and Market Rates up to last date of submission of bid.</i>
Department	Estate Management Department , IIT Bhilai
Standard IIT BHILAI contract Form	GCC 2023, Form-7 for CPWD works as amended up to last date of submission of bid.

CLAUSE 1		
(i)	Time allowed for submission of Performance guarantee, Programme Chart (Time and Progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. or proof of applying thereof from date of issue of letter of acceptance.	07 Days
(ii)	Maximum allowable extension with late fee @ 0.1% per day of performance guarantee amount beyond the period provided in (i) above	07 Days

Clause -2	
Authority for fixing compensation for not attending the complaint or non-deployment of labour as per time limit mentioned in Special Condition of NIT under clause 2	Registrar, IIT Bhilai or equivalent officer in-charge of work.
Clause 2A	
Whether clause 2A is applicable	Not applicable
Clause 5	
Number of days from the date of issue of letter of acceptance for reckoning date of start of work	7 Days

Time allowed for execution of work: 90 Days

Authority to decide:

(i) Extension of time Director, IIT Bhilai.

Clause 6, 6A

Clause applicable - **Clause 6**.....
Clause 7

As per approval of Competent Authority.

Clause 10A - Not Applicable

Clause 10B(ii)

Whether Clause 10 B (ii) shall be applicable- **Not Applicable**

Clause 10C

Component of labour expressed as percent of value of work = 25 %

Clause 10CA - Not Applicable

Clause 10CC escalation clause - Not applicable.

Schedule of component of other Materials, Labour, POL etc. for price escalation.

Component of civil (except materials covered under clause 10CA) /Electrical construction Materials expressed as percent of total value of work. -	Xm%
Component of Labour - expressed as percent of total value of work.	Y.....	%
Component of P.O.L. - expressed as percent of total value of work.	Z.....	%

Clause 11	
Specifications to be followed for execution of work	CPWD specifications 2019 Vol-1&2 with upto date correction slips & manufacturers specifications & NIT

Clause 12

Type of work: Electrical Work.

12.2 & 12.3 Deviation Limit beyond which clauses shall apply for building work **50%**

Clause 16

Competent Authority for deciding reduced rates. Registrar, IIT Bhilai or equivalent officer in-charge of work

Clause 18

List of mandatory machinery, tools & plants to be deployed by the contractor at site: As per requirement and direction of Engineer-In-Charge.

Clause 25

Constitution of Dispute Redressal Committee (DRC)	Competent Authority to appoint DRC
DRC shall constitute one Chairman and two members	Director, Indian Institute of Technology Bhilai

Clause 32					
“Requirement of Technical Representative (s) and Recovery Rate” for the work					
S. No.	Requirement of Technical Staff		Minimum Experience (Years)	Designation of Technical Staff	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause
	Qualification	Number			
1.	Graduate Engineer (Electrical) or Diploma Engineer (Electrical)	1	2 or 5 respectively	Project Manager cum Planning/quality/site/billing Engineer	Rs. 15000/- per month
.....N/A.....					
“Assistant Engineer retired from Government Services those are holding Diploma will be treated at par with Graduate Engineer”.					
Diploma holder with minimum 10 year relevant experience with a reputed construction co. can be treated at par with graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.					

Clause 38		
(i) (a)	Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates	DSR 2023 with correction slips issued upto last date of submission of bid
(ii)	Variations permissible on theoretical quantities	
	(a) Cement	
	(i) for works estimated cost put to tender not more than Rs. 25 Lakhs	3 % plus/minus
	(ii) For works with estimated cost put to tender more than Rs. 25 Lakhs	2 % plus/minus
	(b) Bitumen for all works	2.5% plus only & nil on minus side
	I Steel reinforcement and structural steel section for each diameter, section and category	2% plus/minus
	(d) All other materials	Nil
	RECOVERY RATES FOR QUANTITY BEYOND PERMISSIBLE VARIATION For All Elements	
	Excess beyond permissible limits	As per CPWD norms
	Less use beyond the permissible limit	As per CPWD norms

Form of Earnest Money Deposit/Bank Guarantee Bond

WHEREAS, contractor.....(Name of contractor) (hereinafter called “the contractor”) has submitted his tender dated (date) for the work of(name of work)(hereinafter called “the Tender”)

KNOW ALL PEOPLE by these presents that we(name of bank) having our registered office at (hereinafter called “the Bank”) are bound unto
 (Name and division of Engineer) (hereinafter called “the Engineer-in-Charge”) in the sum of Rs. (Rs. In words.....) for which payment well and truly to be made to the said Engineer-in-Charge the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank thisday of 20....
 THE CONDITIONS of this obligation are:

- (1) If after tender opening the Contractor withdraws, his tender during the period of validity of tender(including extended validity of tender) specified in the Form of Tender;
- (2) If the contractor having been notified of the acceptance of his tender by the Engineer-in-Charge:
 - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to contractor, if required;
OR
 - (b) fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and Instructions to contractor,
OR
 - (c) fails or refuses to start the work, in accordance with the provisions of the contract and Instructions to contractor,
OR
 - (d) fails or refuses to submit fresh Bank Guarantee of an equal amount of this Bank Guarantee, against Security Deposit after award of contract.

We undertake to pay to the Engineer-in-Charge either up to the above amount or part thereof upon receipt of his first written demand, without the Engineer-in-Charge having to substantiates his demand, provided that in his demand the Engineer-in-Charge will note that the amount claimed by his is due to him owing to the occurrence of one or any of the above conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date*.....after the deadline for submission of tender as such deadline is stated in the Instructions to contractor or as it may be extended by the Engineer-in-Charge, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE

SIGNATURE OF THE BANK

WITNESSSEAL

(SIGNATURE, NAME AND ADDRESS)

*Date to be worked out on the basis of validity period of 6 months from last date of receipt of tender.

SPECIAL CONDITIONS OF CONTRACT

1. Agency/ Firm shall abide by all laws of the land including, labour laws, Companies Act, Tax deduction liabilities, welfare measures of its employees and all other statutory obligations that enjoin in such cases and are not enumerated and defined herein, through any such onus shall be the exclusive responsibility of the Agency/ Firm, and it shall not involve the Institute in any way whatsoever.
2. The Financial Bid must be submitted in BOQ/Prize Bid only.
3. Institute reserves the right to require the Agency/ Firm to remove any person deployed by the company, without assigning any reasons/notice. This will be without prejudice to the right of the Agency/ Firm to remove any of his own employees deployed in the Institute.
4. In the case of any dereliction of duty, negligence, an unintended or intended damage caused by the Agency/ Firm or its staff pertaining to this agreement, or otherwise, any harm is done to the Institute, the Agency/ Firm shall make good the loss or pay the compensation, refund expenditure on legal/judicial proceedings as well as pay such penalty which the party of the first part may deem fit.
5. It would be responsibility of Agency/ Firm to arrange all permission/ approvals if any from all local bodies/statutory bodies & nothing extra shall be paid on account of this by the Institute.
6. The Agency/ Firm shall be responsible for all injury and accident to persons employed by him while on duty. It is desirable that all employees are covered under an insurance cover.
7. All employees of the Agency/ Firm shall be issued Identity Cards bearing their photographs. Photographs for identity cards shall be provided by the Agency/ Firm/Agency/ Firm at their own cost. The ID Cards will be issued by the Agency/ Firm. These will be countersigned by the IIT Bhilai Security Officer/ Engineer of Office of Infrastructure.
8. The Agency/ Firm shall be responsible for the good conduct and behavior of its employees. If any employee of the Agency/ Firm is found misbehaving with the supervisory staff or other staff members of the Institute the Agency/ Firm shall terminate the services of such employees forthwith at their own risk and responsibility. The Agency/ Firm shall issue necessary Instructions to its employees to act upon the instructions given by the supervisory staff of the Institute.
9. When a register gets completed, it will be handed over to the concerned Engineer. It will not be returned to the contractor and the same will remain the property of the department.
10. The contractor shall have registration with Employee's Provident Fund commissioner and Employee's state Insurance Corporation for safe guarding interest of his workmen. He shall obtain all other necessary approvals from statutory bodies as per law in vogue.
11. The dismantled material which has scrap value needs to be handed over to Institute.
12. The Agency/ Firm/Agency/ Firm shall not appoint sub-Agency/ Firm to carry out any obligation under the contract.
13. The Agency/ Firm will take day to day instructions from the supervisory staff of the institute and shall maintain diary for the same.
14. The labors engaged by agency shall not be below age 18 years and no worker will be allowed to stay in the Institute campus.
15. The Agency/ Firm shall maintain an Inspection Book as prescribed which will be made available to supervisory staff of the Institute. Fault/Observation record there on shall be attended to immediately.
16. Agency/ Firms will apply to the Labour Commissioner for obtaining a Labour License as applicable and nothing extra shall be paid, to Agency by IIT Bhilai. Agency/ Firms will submit a copy of license to officer-in-charge of IIT Bhilai.

17. The Agency/ Firm would sign and give an undertaking as per Performa every month for compliance of the provision of Contract Labour Act. Rule and other Law as applicable.
18. Any dispute arising out of and in relation to this agreement shall be referred to the arbitration by sole arbitrator to be appointed by Director of the Institute. The arbitration would be conducted and governed by and under the provisions of Arbitration Act, 1996. Any legal dispute will be subject to jurisdiction of Durg Courts only and no other court shall have the jurisdiction refer IIT BHILAI/CPWD GCC form 7/8 in regard.
19. A Separate challan must be submitted for the payments of ESI & EPF of its employees deployed only at the Institute for the specific work agreement.
20. IIT Bhilai Campus is a 'No SMOKING ZONE' The Agency/ Firm should ensure that his employees DO NOT SMOKE while working in the IIT Campus. They will also not indulge in drinking alcohol or any other intoxicants. They will not consume drugs and eat pan/ Khaini/tobacco etc. they will not play cards or indulge in gambling on campus.
21. No labour hut shall be allowed to be constructed and no labour shall be allowed to stay in IIT Bhilai campus and nothing shall be paid on this account.
22. For ESI/EPF shall be reimbursed, if applicable, only on the production of documentary proof of payment to the concerned authorities/ departments for the particular project. ESI & EPF shall be reimbursed as per norms on production of original receipt of ESI & EPF from contractor specific to this work.
23. The Agency/ Firm shall keep himself fully informed of all acts and laws of the Central and State Government, all orders, decrees of statutory bodies, tribunals having any jurisdiction or authority, which in any manner may affect their engaged or employed and anything related to carry out the work. All the rules & regulations & byelaws lay down by the local bodies and any other statutory bodies shall be adhered to, by the Agency/ Firm, during the execution of work.
24. Agency/ Firm must employ adult and skilled personnel only. Employment of child labor shall lead to the termination of the contract at the risk and cost of the Agency/ Firm. Agency/ Firm shall deploy/ engage reliable persons at client after proper character and police verification and impose any conditions as per prevailing contractual labour laws for such engagements, take disciplinary action or reward any person at work etc., at its sole costs, risks and responsibilities.
25. Agency/ Firm shall deal with and settle the matters related with unions and shall make sure that no labor disputes/problems are referred to Client. It shall totally indemnify Client in this regard.
26. Agency/ Firm should at all times indemnify Client against all claims, damages or compensation under the provisions of payment of wages Act, 1936; Minimum Wages Act, 1948; Employer's Liability Act, 1938 ; the workmen compensation Act, 1932 ; Industrial Disputes Act, 1947 ; Maternity Benefit Act, 1961 ; or any modification thereof or any other law relating thereto and rules made hereunder from time. Client will not own any responsibility in this regard.
27. Tenderer should not have conflict of interest. The tenderer found to have conflict of interest shall be disqualified.
28. No joint ventures are allowed.
29. No Rebate on account of small scale industries or any other ground or documents shall be granted in this SPC/ Tender
30. All statutory & mandatory deductions as per Government of India & Chhattisgarh state Government norms shall be deducted from each running bill & final bill of agency/ firm.
31. GST shall be applicable in this contract. NIT and the rules of Govt. of India of as notified from time to time shall be followed in items of GST. Presently, 18% GST has been considered in this tender.
32. No escalation clause i.e, clause 10CC of IIT BHILAI/CPWD GCC form 7/8 is applicable in this NIT/ Contract.
33. Security deposit @2.5% will be deducted for entire gross work done including extension period if any, from each

installment however, earnest money deposit will be adjusted to security deposit.

34. 1% (one percent) cess towards labour welfare fund, income tax as applicable and other taxes/ Statutory recoveries as applicable will be deducted from the bill of contractor.

35. Non Judicial stamp paper worth Rs. 10/- (Ten Rupees only) will be submitted by contractor which will have to be signed as token of acceptance.

36. No T & P would be supplied by the Institute and contractor will have to make his own arrangement.

37. The contractors are advised to get acquainted with the proposed work including specifications & its site and additional conditions carefully before quoting. No claim of any sort shall be entertained or account of any site conditions and ignorance of specifications & additional conditions. The work shall be carried out as per the availability of site.

38. The work shall be carried out as per CPWD specifications for civil and electrical work with up – to date correction slips unless otherwise specified in the nomenclature of individual item or in the specification, additional conditions where specifications are silent, the decision of Engineer-in-Charge shall be final and binding on contractor.

39. The rates quoted by the contractor shall be taken as complete and nothing extra shall be paid on any account i.e., Royalty, Cartage, GST & stacking of material required at places etc. The rates for different items of work shall apply for Heights & Depths, Leads & Lifts unless otherwise specified in the agreement or specifications applicable in the agreement.

40. Any damage done by the contractor to any existing item/any part of the building during the course of execution of work shall be made good by at his own cost.

41. Articles manufactured by the reputed firms and approved make list in tender.

42. The sample of material required in the work brought at site shall be got approved from Engineer –in-Charge before use in execution of work.

43. The sample of material required for Testing shall be provided at free of cost by the contractor. Testing charges if any shall be borne by the Contractor. All other expenditure to be incurred for taking sample, conveyance, packing etc. shall be borne by the contractor.

44. The contractor shall submit a detailed program of work within 7 days of the date of award of work. The Engineer – in- Charge can modify the program and the contractors have to work accordingly. The contractor shall be responsible for keeping site free of any kind of mosquito breeding. If it is found that breeding is taking place the entire responsibility shall be of contractor to bear challan etc. done by local bodies.

45. The contractor shall make his own arrangement for getting the permission with respect to trucks from the Traffic Police.

46. No payment shall be made to contractor for any damage caused by the rain or any other natural causes what so ever during the execution of work.

47. Some restrictions may be imposed by the security staff of IIT Bhilai etc. on the working and or movement of labour & material. No labour camp/ huts shall be allowed in IIT Bhilai. The contractor shall make his own arrangement for labour huts outside the campus. However, construction of cement godown and Chowkidar's hut in the Campus shall be permitted. The contractor shall be bound to follow all such restrictions/ instructions and nothing shall be payable on this account.

48. The contractor shall be fully responsible for the safe custody of the material issued or brought at site by him for doing the work.

49. The Malba/Garbage generated at site due to construction activities shall be removed from the site immediately & shall be disposed off by the contractor to the approved dumping site of Bhilai Municipal Corporation and all statutory approvals from local bodies shall be a sole responsibility of contractor.

50. The contractor shall clean the site thoroughly of scaffolding materials, rubbish, equipment's left out of his work & dress the site around the building to the complete satisfaction of the Engineer-in-Charge before the work is treated as completed.

51. Income tax and other taxes as applicable shall be deducted from the bills of contractor.

52. Water charges @ 1% and Electricity charges @ 0.5 % of gross work done shall be deducted from bills of contractor if electricity and water provided by IIT Bhilai for this work.

53. Agency has to take proper safety measures during the execution of work.

54. IIT BHILAI/CPWD GCC form 7/8 shall form part of NIT and the bidder shall go through GCC before quoting rates and the same shall be deemed to be accepted by bidder if he participates in the tender.

55. The contractor shall submit the program of execution of work as per clause 5 of IIT BHILAI/CPWD GCC form 7/8 of NIT including list of workers to be deployed by contractor for this work.

56. GST @ 18% has been considered in this work and agency has to quote the rates inclusive of GST.

ADDITIONAL TERMS & CONDITIONS

1. The work will be carried out as per CPWD specification.
2. All taxes such Income Tax whether applicable or laid by the government after opening the tender shall be borne by the Agency/ Firm & shall be deducted from the bills of Agency/ Firm.
3. Failure to comply any of the above clauses or due to unsatisfactory performance as observed by Engineer-in-charge, the contract shall be terminated at any stage without assigning any reason thereof.
4. The Agency/ Firm shall be responsible for any injury or accident to the labour during execution of work and claim shall be given by the Agency/ Firm.
5. Any damage caused to Institute property during execution of work shall be made good by the Agency/ Firm on his own cost.
6. Final payment shall be released only after satisfactory completion of work.
7. The Agency/ Firm shall clean the site thoroughly to the entire satisfaction of Engineer-in-charge.
8. The Agency/ Firm/his supervisor will be bound to signature the site order book & carry out instructions giving their in.
9. All payment shall be made after successful completion of the job & no advance payment will be made.
10. Deviation can occur upto 50% of tender cost per annum on excess side only in very exceptional circumstances only after prior approval of Engineer-in-charge. Negative deviation is permissible as per directions of Engineer-in-charge.
11. The rates quoted by the Agency/ Firm shall be taken as complete. Nothing extra shall be paid on any account i.e. Royalty, Cartage, Sales Tax & stacking of material required at places etc.
12. The rates for different items of work shall apply for all Heights & Depths, Leads & Lifts unless otherwise specified in the agreement or specifications applicable in the agreement. The Agency/ Firm must visit site(internal or external) area before quoting rates.
13. No labour camp/ huts of Agency/ Firm shall be allowed inside the IIT Campus.
14. ESI & EPF shall be reimbursed as per norms on production of original receipt of ESI & EPF from Agency/ Firm specific to this work.
15. All the statutory obligations which is not covered in the bid document shall be reimbursed on actual basis after submission of proof of payment.
16. Contractor have to prepared and submit detailed structural drawings for execution . These drawing and design shall be vetted from Govt. institute.

Additional Terms and Condition for Civil Works-

1. Wherever any reference to any Indian Standard Specifications of BIS or other International standards of ASTM / BS/EN occurs in the documents relating to this contract, the same shall be inclusive of all amendments issued there-to or revisions thereof, if any, up to the date of receipt of tenders.
2. The contractor shall take instructions from the Engineer-in-charge for stacking of materials at site. No excavated earth or building materials shall be stacked on areas where the buildings, roads, services or compound walls are to be constructed.
3. Unless otherwise provided in the Schedule of quantities, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing shall be payable to him on this account.
4. The work shall be carried out in accordance with the Good for Construction Architectural drawings and structural

drawings, to be issued from time to time, by the Engineer-in-Charge. Before commencement of any item of work, the contractor shall correlate all the relevant architectural and structural drawings issued for the work and satisfy himself that the information available from there is complete and unambiguous. The discrepancy, if any, shall be brought to the notice of the Engineer-In-Charge before execution of the work. The contractor alone shall be responsible for any loss or damage occurring by the commencement of work on the basis of any erroneous and or incomplete information.

5. The working drawings appearing at para 8.1(iii) of conditions of contract in the form CPWD-7/8, shall mean to include both architectural and structural drawings respectively. The structural and architectural drawings shall be properly correlated before executing the work. In case of any difference noticed between architectural and structural drawings, final decision, in writing of the Engineer-in-charge shall be obtained by the contractor before proceeding further.

6. No claim for idle establishment & labour, machinery & equipments, tools & plants and the like, for any reason whatsoever, shall be admissible during the execution of work as well as after its completion.

7. Work shall be carried out in professional manner with finished product serving the intended purpose with specified strength, durability and aesthetics.

8. Work activities shall be executed in well thought out sequences such that consequent activities not adversely affecting previously done work. Nothing extra shall be payable to protect the works already done.

9. The contractor shall ensure that all the trucks or vehicles of any kind which are used for construction purposes / or are carrying construction material like cement, sand and other allied material are fully covered. The contractor shall take every necessary precaution that the vehicles are properly cleaned and dust free to ensure that enroute their destination, the dust, sand or any other particles are not released in air / contaminate air.

Additional Terms and Condition for Electrical works-

1. The order of preference in case of any discrepancy as indicated in condition no. 1 under "Conditions of contract" given in the Standard CPWD Contract form may be read as the following:

- (a) Nomenclature of item as per Schedule of Quantities/ BoQ.
- (b) Additional specifications, particular specifications, and special conditions for Electrical Works.
- (c) General conditions.
- (d) Contract Clauses of General conditions of contract for CPWD 2023.
- (e) CPWD specifications for electrical works as applicable.
- (f) Architectural/structural drawings and specifications mentioned in drawings.
- (g) Indian/International standard specifications of BIS/IEC.
- (h) Sound engineering practice as per directions of the Engineer-in-charge.
- (i) Manufacturer's specifications.
- (j) GAD drawings or Technical data sheets submitted by the contractor and approved by the Engineer-in-charge.

2. A reference made to any Indian Standard Specifications in these documents, shall imply reference to the latest version of that standard, including such revisions/amendments as issued by the Bureau of Indian Standards upto last date of receipt of tenders. The contractor shall keep at his own cost all such publications of relevant Indian Standards applicable to the work at site.

3. The main contractor shall engage eligible contractor for electrical work. The main contractor shall not indulge in procurement of electrical items and getting the work done on labour contract with the electrical contractor. The whole electrical component shall be executed by the eligible electrical contractor on a turnkey basis i.e. procurement of material & engaging labour. The associate electrical contractor shall submit the completion certificate of electrical work executed by him along with necessary test reports, completion plan etc.

4. The contractor shall take all safety precautions to avoid accidents by exhibiting caution boards, red flags, red lights and by providing necessary barriers and all other measures required from time to time. The contractor shall be responsible for all damages and accidents due to negligence on his part.

5. The contractor shall give due notices to Municipality, Police and/or other authorities that may be required under the law/rules under force and obtain all requisite permissions/licenses for temporary obstructions/enclosures and pay all charges which may be leviable on account of his execution of the work under the agreement. Nothing extra shall be payable on this account.

6. The contractor shall leave such recesses, holes, openings, etc., as may be required for the electric, air-conditioning and other related works. (For this purpose any required inserts, sleeves, brackets, conduits, base plates, insert plates, clamps etc. shall be arranged by the contractor and fix the same at the time of casting of concrete, stone work & brick work, if required, and nothing extra shall be payable on this account.
7. The contractor shall give a trial run of the equipment and machinery for establishing its capability to achieve the specifications within laid down tolerances to the satisfaction of the Engineer-in-charge before commencement of work.
8. The work will be carried out in close coordination with the building work and other agencies. Conduits will be laid in the slab within the specified time and it will have to be ensured that the casting of slabs is not delayed for want of laying of conduits. The conduits will also be laid in walls before the Plaster work is undertaken so as to avoid breaking cutting of plaster while making chase for laying of conduits subsequently. The contractor will have to employ adequate labour for carrying out the work. No claim regarding the idle labour for any reason will be entertained by the Department.
9. No tools and plants including special T&P etc. shall be supplied by the department and the contractor will have to make his own arrangements at his expenses.
10. All tools, plant and machinery provided by the contractor shall, when brought at the site, be deemed to be exclusively intended for the construction and completion of this work and the contractor shall not remove the same or any part there of (save for the purpose of moving it from one part of the site to another) without the consent of the Engineer-in-charge.
11. All materials shall be got checked & approved by the Engineer-in-charge on receipt of the same at site before use and rejected material is to be removed from the site immediately.
12. The contractor shall also get the approval from Engineer In-charge on the GA drawings for panels, technical data sheets, work-plan, installation schedule, routine test etc. as applicable.
13. No foreign exchange shall be made available by the department for the purchase of equipment, plants, machinery, materials of any kind or any other items required to be carried out in execution of work.
14. The contractor shall carry out his work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor (s) or by the Engineer-in-charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed, so as not to interfere with the operations of other contractors, or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the entire satisfaction of Engineer-in- charge.
15. All items which are not covered while carrying out electrical work shall be removed and shall be cleared by the contractors as soon as the work is completed.
16. The contractor shall give the Engineer-in-charge in every fortnight, a progress report of the work done during the previous fortnight. The progress of work will be reviewed periodically by the Engineer-in-charge with the contractor and shortfalls, if any, sorted out. The contractor shall thereupon take such action as may be necessary to bring back his work to schedule without any additional cost to the department.
17. It shall be responsibility of the main contractor to sort out any dispute involved with the associated contractor without any time and cost overrun to the department. The main contractor shall be solely responsible for settling the dispute/litigation arising out of his agreement with the associate contractor. The contractor shall ensure that the work shall not suffer on this account.
18. The contractor shall quote his rates considering the specifications, terms & conditions and particular specifications and special conditions etc. and nothing extra shall be payable whatsoever unless otherwise specified.
19. The main contractor shall be responsible for coordinating the activities of all works and essential progress of works as per milestone and laid down program.
20. The contractor shall be responsible for the watch and ward of the site/property/material provided by him and

materials issued by the department against pilferage and breakage during the period of execution and thereafter till the work is completed and physically handed over to the department.

21. Samples of all materials, fittings and other materials/articles required for execution of the work shall be got approved from the Engineer-in-charge. Materials/articles manufactured by the firms of repute as indicated in tender documents and approved by the Engineer-in-charge shall only be used.

22. The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material or work beyond set out tolerance limits shall be summarily rejected by the Engineer-in-charge.

23. The contractor shall be required to make a sample flat for each type at the earliest opportunity using all approved materials for approval of Engineer in charge before mass scale finishing works are taken up.

24. Even ISI marked materials shall be subjected to quality test at the discretion of the Engineer-in-charge besides testing of other materials as per the specifications described for the item/material. Whenever ISI marked materials are brought to the site of work; the contractor shall, if required by the Engineer-in-charge, furnish manufacturers test certificates to establish that the materials procured by the contractor for incorporation in the work satisfy the provisions of IS codes relevant to the material and/or the work done.

25. The contractor shall have to engage well experienced skilled labour and deploy modern T&P and other equipment to execute the work.

26. The firm shall use only electrically operated chase cutting machine for cutting the chases in the wall for recessed conduit wiring.

27. The contractor will have to make his own arrangement for storage of materials. No storage space shall be provided by department.

28. The contractor will have to make his own arrangement for water and power supply for execution of works.

29. The contractor will have to ensure that the skilled labour i.e., wireman etc., Engaged in the execution of the work must possess valid electrical license, otherwise he will not be permitted to execute the work.

30. The associate contractors executing the electrical works must possess the valid electrical contractor license otherwise they will not be permitted to execute the electrical works.

31. The contractor shall be responsible for removal of all defects in the work during the guarantee/warranty period. The department shall carry out routine maintenance only. However, if any failure is noticed during this period which is attributable to poor quality of material and

32. bad workmanship, the contractor will be required to rectify the same at his own cost, failure of which the department will be at liberty to get the defects rectified at the risk & cost of the contractor. The contractor will also be required to carry-out his own inspection/testing during the guarantee/warranty period and attend to any defect taking place during this period.

33. Priority to arrange the material shall be decided by the department. However, material required for the work shall be brought to site only at the appropriate time keeping in view the progress of building works as well as Electrical & Mechanical works. Decision of Engineer-in -charge in this regard shall be final.

34. The contractor has to intimate his authorized representative, who will be receiving instructions in his absence. The contractor /his authorized representative is bound to sign the site order book as and when required by the Engineer-in-charge and to comply with the instructions therein.

35. Suitable back plates providing for fixing the wall brackets and ceiling flush fittings shall be supplied by the contractor free of cost.

36. It shall be responsibility of contractor to provide polythene/PVC plastic cover for all SDBs/meter boards/feeder pillars/panels etc. so as to protect them from wear & tear/damage during execution stage. Contractor shall provide the covers for the materials if any being supplied departmentally also. Nothing extra shall be paid on this account.

37. Contractor is fully responsible for any kind of damage to the LT/HT cable during execution of work. No joints shall be allowed if the cable is damaged. Contractor has to replace the full length at his own cost.
38. The MCB should be of same make as that of MCB DBs.
39. Colour coding shall have to be adopted in the wiring system as per IS 11353 of National Electrical Code of India.
40. Ferruling/cable tagging for identification of cables/wires at both ends shall be done by the contractor as part of tender and no extra cost shall be paid in this reference. Further, information shall be provided on the installed panels properly as per the decision of Engineer-in-charge.
41. Tinned copper Earthing lugs/Thimbles/ferrules shall be provided for termination of earth wire to all Metallic outlet boxes/fittings/fixtures/fan regulator/MCB DB/switch board/Meter board etc., properly crimped/ brazed/ soldered for which nothing extra shall be paid.
42. Suitable crimping tools shall be used for crimping the lugs/thimbles/ferrules. Nothing extra shall be paid on this account. The lugs/thimbles/ferrules pressed by conventional/ordinary pliers shall not be accepted.
43. A suitable brass/tinned copper neutral link shall be fixed at suitable place in the Metallic outlet boxes of all sizes to terminate neutral wire properly. Nothing extra shall be paid on this account.
44. An earth termination with earth stud of brass/tinned copper i/c 2 No. metallic washers or suitable earth bar of Brass/tinned copper with tinned copper thimbles/ferrules/lugs should be suitably fixed at suitable place in the Metallic outlet box for termination of protective earth conductor. Nothing extra shall be paid on this account.
45. In the outlet boxes, phase from one switch to other switch shall be looped with suitable size of solid copper conductor. Nothing extra shall be paid on this account. Stranded conductor shall not be accepted.
46. Only required number of knockouts should be removed from Metallic outlet boxes for entry of conduits. If more than required number of knockouts are removed, the Metallic outlet box shall not be accepted.
47. Separate G.I. boxes shall be used for staircase light switches and bell push. Nothing extra shall be paid on this account.
48. Metal sheath of Co-axial T.V. cable shall be terminated using 'U' shape thimble/lugs/ferrules. Nothing extra shall be paid on this account.
49. To facilitate drawing of wires 16/18 SWG GI fish wire be provided along with laying of recessed conduit. Nothing extra shall be paid on this account.
50. Cable connection to switch gear is deemed to be included in the item of end termination. No extra payment shall be made for that.

TECHNICAL SPECIFICATIONS FOR INTERNAL EI WORKS

1. All hardware items such as screws, thimbles, connectors, earth/neutral terminals, wires etc. which are essentially required for completing any item as per specifications will be deemed to have been included in the item even when the same have not been specifically mentioned.
2. All hardware material such as nuts/bolts/screws/washers etc. to be used in the work shall be zinc/cadmium plated iron. The galvanized boxes of modular switch/sockets etc. shall be of the same make as of switch/socket etc.
3. While laying conduit, suitable minimum number of junction boxes shall be left for pulling the wires. These shall be placed in such a way that the same do not remain noticeable.
4. Multi stranded FRLS PVC insulated copper conductor's wires are to be used in the work. Termination of multi-stranded conductors shall be done using crimping type copper thimbles at both the ends. Nothing extra shall be paid for the same.
5. The contractor shall follow the shortest route for circuits, submain, point wiring etc.

6. The connections of switches, sensors, earthing conductors & interconnections cables shall be made by adequate rating thimbles of approved standard makes only and nothing extra on this account shall be paid.
7. Check nuts shall be provided while terminating the M.S. conduits in switch board boxes for which nothing extra shall be paid.
8. All distribution boards shall be marked with circuits controlling the rooms/area/SDB controlled.
9. Material to be used in the work shall be ISI marked. The makes of material have been indicated in the list of acceptable makes. No other make will be acceptable. The material to be used in the work shall be got approved from the Engineer-in-charge before its use at site. The Engineer-in-charge shall reserve the right to instruct the contractor to remove the material which, in his opinion, is not as per specifications.
10. While deciding the size of switch boxes for light points/fan point, exhaust fan point items, extra two modules will be provided for each fan point for fixing of regulator(s) (fan regulator is to be provided under different item). Wherever extra modules are available, the same shall be provided with blanking plates without any extra cost.
11. Modular type switches/sockets/telephone outlets/TV sockets are to be provided wherever indicated in the items. The same shall be of only one make. The modular plates of switches, sockets, telephone & TV sockets etc. shall be in two parts i.e. plates with frames with in quoted rates.
12. The building shall be provided with false ceiling in various areas. In order to avoid maintenance problem, the contractor will not provide any ceiling rose/connector/looping box etc. above the false ceiling. The point wiring in that case will be extended up to the fitting/fan etc. directly without provisions of any termination arrangement in between. The wire from the end point up to the fixture shall be considered to be included in the point wiring. Nothing extra shall be paid for the same.
13. Wherever it is not possible to provide rigid conduits, flexible conduit pipe shall be provided for drawing/running the wires. However, such arrangement has to be kept to the barest minimum and only with the prior approval of Engineer-in-charge.
14. Earthing and all hidden items of work shall be carried out in the presence of the Engineer-in-charge or his authorized representative.
15. The fan box cover shall be made from 3mm thick phenolic laminated sheet as per CPWD specification.
16. The contractor shall provide only metallic junction boxes/looping boxes with cover of required sizes even in PVC conduiting and such boxes shall be measured as a part of conduit/wiring without any extra payment.
17. The metallic junction boxes & looping boxes shall be covered with approved makes of phenolic laminated sheet. For telephone, television & fire alarm system shall be provided at all the floors with in scope of work without any extra cost as per requirement & layout approved by Engineer-in-charge.
18. The firm has to go through the site order book kept with the Junior Engineer regularly and has to sign the same and carryout the instructions recorded therein by various officers of the department.
19. The quantities of various items may vary from the quantities given in schedule of work. The agency shall bring the various items & materials as per actual requirement at site at the time of execution of work. Excess quantities shall not be accepted & paid by the department.
20. The ceiling roses wherever required to be provided are included in the scope of work without extra payment and the same shall also be of modular type & of the same make as that of switches & sockets alongwith earthing provision.
21. MCCB should have centrally adjustable overload setting 80% to 100% & short circuit setting adjustable from 500% to 1000% of nominal current for thermal type & overload setting 40% to 100% & short circuit setting adjustable from 150% to 1000% of nominal current for microprocessor type MCCB. All MCCB should be ICS=ICU.

LIST OF APPROVED MATERIALS(Civil):

S.No.	Material	Manufacturer
1	Ordinary Portland Cement/Pozzolona Portland Cement	WONDER, ACC, ULTRATECH, BIRLA, AMBUJA
2	White Portland Cement	BIRLA WHITE, JK WHITE, ACC
3	Oil Bound Washable Distemper	JONSON & NICHOLSON, BERGER PAINTS, ASIAN PAINT, NEROLAC, ICI
4	Acrylic Distemper	JONSON & NICHOLSON, BERGER PAINTS, ASIAN PAINT, NEROLAC, AKZONOBEL
5	Premium Acrylic Emulsion Paints	JONSON & NICHOLSON, BERGER PAINTS, ASIAN PAINT, NEROLAC, AKZONOBEL
6	Cement Primer	BERGER, ASIAN, ICI
7	Steel Primer	AKZONOBEL, NEROLAC, ASIAN PAINTS
8	Wood Primer	AKZONOBEL, NEROLAC, ASIAN PAINTS (WHITE)
9	Textured Exterior Paint	ASIAN PAINTS (APEX WITH HONEYCOMB ROLLER FINISH) ICI (WEATHER SHIELD WITH HONEYCOMB ROLLER FINISH, KANSAI NEROLAC (EXCEL WITH HONEYCOMB ROLLER FINISH))
10	Epoxy Paint	ASIAN, ICI, KANSAI NEROLAC, BERGER
11	Water Proofing Cement Paint	ASIAN PAINTS, SNOWCEM INDIA LTD. BERGER PAINTS
12	Synthetic Enamel Paint	BERGER, ASIAN PAINTS, ICI, J&N, NEROLAC
13	Vitrified Tiles	NITCO, SOMANY, HINDWARE, KAJARIA, RAK,
14	Ceramic Floor Tiles/Wall Tiles	NITCO, SOMANY, HINDWARE, KAJARIA, RAK,
15	White Glazed Tiles	NITCO, SOMANY, HINDWARE, KAJARIA, RAK,
16	Anodized Aluminum Hardware Fittings	EVERITE, KINLONG, ALU ALPHA by LGF Sysmac, Jyoti
17	SS Fittings	GODREJ, DORMA, DORSET, HAFELE, KICH
18	Float Glass, Reflective Glass, Mirror Glass	MODI GUARD, SAINT GOBAIN, HNG, AIS, PILKINGTON
19	Hardware, Patch Fittings and Friction Hinges	HETTICH, DORMA, ALU ALPHA by LGF Sysmac, DORSET
20	Floor Spring for Aluminum Doors	HARDWYN, GODREJ, DORMA, DORSET
21	G.I Pipe	JINDAL, TATA, PRAKASH SURYA
22	Silicone Sealant/Sealant	G.E, DOW CORNING, WACKER, SIKA, BECKER
23	Hermitically sealed performance glass Toughened Glass, DGU	AUTHORIZED FABRICATORS (MODI GUARD, SAINT GOBAIN, TATAASHAI
24	EPDM Gasket	HANU, OSAKA, ALPS , Avigiri, Anand
25	Dash and Anchoring Fasteners	HILTI, FISCHER, BOSCH, WURTH
26	Wall Putty	BIRLA WALL CARE, JK WHITE, Ferrouscrete, Bison Wall Putty by BERGER
27	G.I. Fittings	TATA, UNIK, ZOLOTO
28	HDPE Pipes	RELIANCE, JAIN PIPES, ORIPLAST, DUTRON, SUPREME
29	CI Fittings	RBA FERRO, WALTZER, KAJECO, NECO, SKF
30	Float Valve	LK, LEADER, ZOLOTO
31	Centrifugally Cast (spun) Iron Pipes & Fittings	NECO, KAPILANSH, ELECTROSTEEL, SKF, BIC(Bengal Iron Corp.)
32	Centrifugally Cast (spun) Iron (Class LA) Pipes	NECO, KAPILANSH, ELECTROSTEEL, BIC(Bengal Iron Corp.)
33	C.I. Manhole covers, frames and GI Gratings	RBA FERRO, WALTZER, KAJECO, NECO, SKF, BIC(Bengal Iron Corp.)
34	SFRC Manhole covers and gratings	KK, JAIN, PARGATI

S.No.	Material	Manufacturer
35	Gun metal Valves , globes	LEADER, ZOLOTO, LK
36	CP Brass Fittings	JAQUAR, KOHLER, GROHE, AMERICAN STANDARD
37	Sanitary Fittings and Accessories	JAQUAR, KOHLER, GROHE, AMERICAN STANDARD
38	Brass stop and Bib Cock	LEADER, ZOLOTO, LK
39	Non Return valve (Check valve) 1/2" "o 1 1/4"	"EADER, ZOLOTO, LK
40	European WC, Indian WC, Washbasin, Urinals	JAQUAR, HINDWARE, KOHLER
41	Gully Traps	PERFECT, PARRY, Jayaswal-Neco, MOLI CERAMICS, BIKANER CLAY Products
42	Ball Valves /in Built Filter	RAPID CONTROL, CIM, SKS, L&T VALVES. LEADER, ZOLOTO, ARCO
43	Butterfly Valve	KIRLOSKAR, CASTLE, KSB, LEADER, ZOLOTO
44	Soap Dispenser	EURONICS, HINDWARE, JAQUAR
45	Stainless Steel Sink	NEELKANTH, NIRALI, JAYNA
46	Aluminum Section	JINDAL, HINDALCO, INDALCO, HINDUSTAN
47	MDF Board/Commercial Board	GREENPLY, GREENLAM, CENTURYPLY, MERINO
48	Flush Door Shutter	CENTURY DOORS, DURO, SWASTIK, A1WOODEN/A- 1TEAK, GREENPLY, MERINO
49	Reinforced Bars(TMT) and Structural Steel	TATA, SAIL, JSW, RATHI, GAIN, APOLLO, CAPITAL
50	False Ceiling	AEROLITE, ANUTONE, ARMSTRONG
51	Paver Block	KK, SWASTIK, DALAL, NAVYA TILE
52	PVC Waste Pipe	PRAYAG, POLYTUF, SUPREME
53	Bamboo Wooden flooring	Karra décor Pvt. Ltd., Inovar Fllor India Pvt. Ltd. Or equivalent brand
54	Woodworks perforated panels	Armstrong, Ideatec, Topakustic, Anutone, Fantoni
56	Metal False Ceiling	Armstrong, Metallica Ceiling Solution, Hunter Doglus, Saint Gobain

Note: Registrar, IIT Bhilai or Engineer in-Charge or equivalent officer appointed by Institute and reserves the right to add or delete any material and brands in the list of preferred material/brands on the recommendation of Engineer-In -charge.

LIST OF APPROVED MATERIALS (Electrical and HVAC):

S. No.	Material	Approved makes
1	LT panels/boards, Feederpanels.	MILESTONE, TRICOLITE, ADLEC, ADVANCE PANEL & SWITCHGEAR Ltd., PRISTINE, STERLING GENERATOR, APPLICATION CONTROL PANEL.
2	MCCBS	SIEMENS, L&T, SCHNEIDER, LEGRAND.
3	MCB, ELCB, RCCB, DB and RCBO. Distribution board shall be of the same make of MCB, ELCB, RCCB, DB and RCBO.	SIEMENS, L&T, SCHNEIDER, LEGRAND.
4	LT cables, 1.1 KV grade	UNISTAR, GRANDLAY, NATIONAL, RALLISON, KEI, HAVELLS POLYCAB, RR KABEL.
5	FRLS copper wires and cables, 1.1 KV grade	UNISTAR, GRANDLAY, NATIONAL, RALLISON, KEI, HAVELLS POLYCAB, RR KABEL
6	Switch Socket accessories.	LEGRAND, SCHNEIDER MK HAVELLS, HAGER, CRABTREE
7	Lugs and Ferrules	DOWELLS, JAINSON
8	Brass Compression Gland (Heavy duty)	COMMEX, GRIPWELL, HENSEL
9	Telephone Cables	FINOLEX, HAVELLS, POLYCAB, RR, KABEL
10	Cable Lugs & Thimbles	DOWELL, ASIAN, ACTION
11	Telephone Tag Blocks with boxes	KRONE, POUYET
12	PVC Conduits and Accessories (ISI Marked, Heavy duty)	BEC, PRECISION, POLY-PACK.
13	MS Conduit and Pipes	BEC, AKG, M-KAY, STEEL CRAFT
14	MS Conduit Accessories (Heavy duty)	BEC, AKG, M-KAY, STEEL CRAFT.
15	Pipes and Accessories (ISI)	TATA, JINDAL, SAIL
16	Street /landscape & LED Light Fixtures	PHILIPS, CROMPTON, WIPRO, SCHREDER, JAQUAR LIGHTING
17	LED Chip for Street /landscape and LED Light Fixtures	PHILIPS, CROMPTON, WIPRO.
18	EXIT and Emergency Lights	PHILIPS, CROMPTON, WIPRO.
19	CAT-6A CABLE	Tyco, Commscope, R&M, Molex, Panduit, Schneider (Actassi), LEGRAND
21	LED LIGHT FIXTURE	PHILIPS, CROMPTON, WIPRO, SCHREDER, JAQUAR LIGHTING
22	Selector Switch	RISHAB - L&T, KAYCEE, SIEMENS, C&S, ABB
25	Photo Chromatic Switch	BAJAJ, WIPRO, PHILIPS
26	Annunciation Panel	CROMPTON, AREVA, SIEMENS, KIRLOSKAR
27	Terminal Blocks	BCH, INDUSTRIAL CONTROL, JAINSON
28	Change Over Switch	L&T, SOCOMEC, SIEMENS, HAGER, ABB
29	Bus bar	JINDAL, INDALCO, CENTURY
30	GI pipes	JINDAL, TATA, SAIL
31	Timers & Contactors to be mounted in DB's	L&T, SIEMENS, SCHNEIDER, HAGER, LEGRAND
32	MV Contactors/Timer/ Starters	L&T, SIEMENS, SCHNEIDER, LEGRAND, ABB
33	Protective Relays	AREVA, SIEMENS, L&T
34	kWh Meters (Electronic Digitaltype) /Multifunction Meter /Ammeter/ Voltmeter)	SCHNEIDER, C&S, L&T, SIEMENS, NEPTUNE, ABB, SECURE

S. No.	Material	Approved makes
35	Indication Lamps/Push Button	L&T, BCH, GE
36	Ceiling/Exhaust/Wall Fans	CROMPTON GREAVES, ORIENT, HAVELLS
37	Cable Tray	MEM, PROFAB, RICO, INDIATECH, RMCON, LEGRAND
38	Raceway	LEGRAND, MK, SCHNEIDER
39	Polycarbonate Junction Boxes	HENSEL, CLIPSAL, MENEKES
40	Fasteners	HILTI, FISCHER, BOSCH, WUNH
41	TV Cable	FINOLEX, HAVELLS, BELDON
42	Splitter Box	MX, SHARP, CATVISION
43	Chemical Earthing	JEF ECOSAFE, ERICO, TEREK PLUS
44	DWC Pipe	Tirupati, Gemini, Rex , TRICOLITE
45	UPS	APC, EMERSON, SOCOMEC, NUMERIC
46	Sealed Maintenance free Batteries	EXIDE, HITACHI, AMARON
47	Street Light GRP Poles	SCHREDER, PHILIPS, CREATIVE COMPOSITE, AERON COMPOSITE
48	PU paints on street light GRP poles	AZKO NOBEL, ASIAN
HVAC (LOW SIDE)		
1	DUCTABLE SPLIT AC	DAIKIN, MITSUBISHI, O-GENERAL HITACHI, TRANE, TOSHIBA
2	Split Unit AC's	MITSUBISHI, HITACHI, DIAKIN, O GENERAL
3	Axial, Vane Axial Fans	KRUGER, NICOTRA, COMFRI, AIRFLOW, GREEN HECK.
4	G.I. Sheet for Ducting	TATA, SAIL, JINDAL
5	Prefabricated Ducts	ZECO, ROLLASTAR, DUCTOFAB, DUCTOFAB
6	Grills, Diffuser, Dampers, Louvers,	CARYAIRE, MAPRO, RAVISTAR, RUSKIN
7	Motorized Fire Dampers	TITUS, SERVEX, PINEAIR
8	Actuator	SIEMENS, BELIMO, JOHNSON, HONEYWELL
9	Motors	SIEMENS, ABB, KIRLOSKAR, ALSTOM, CROMPTON
10	Balancing Valves	ADVANCE, CASTLE
11	Butterfly Valves	CASTLE, ADVANCE, L&T VALVES
12	Pre-Insulated Valves	VALTREE, KRISH VT
13	P.I.D. Valves	DANFOSS, OVENTROP, ADVANCE, CASTLE, FRESE
14	Ball Valves	RAPID CONTROL, CIM, SKS, L&T VALVES
15	POT, Y-Strainer, Suction Strainer, Airvent	EMERALD, RAPID CONTROL, SKS, D.S. ENGG
16	Pipes (MS/GI)	JINDAL HISSAR, TATA, JINDAL STAR,
17	Pipe Insulation(Expanded Polystyrene)	BEADSELL, STYRENE, PERFECT PACK
18	Duct & Refrigerant Piping Thermal Insulation (Closed Cell, Cross Linked Elastomeric, Polyethylene Foam)	ARMAFLEX, AEROFLEX, TROCELLEN, KFLEX, ARMACELL
19	Duct Acoustic Lining	UP TWIGA, OWENS CORNING
20	Stem Thermometers (V Grooved)	EMERALD, H.GURU, JAPSIN
21	Digital Thermometer	STAEFA, JOHNSON, SEIMENS, HONEYWELL
22	Pressure Gauges	H. GURU, FIEBEG, MARSH, EMERALD
23	Fire Dampers	RUSKIN, GREENHECK, RAVISTAR
24	Actuator for Fire Damper	SIEMENS, BELIMO
25	Analog Measuring Meters	AE, RISHAB
26	P.U.F. Pipe supports	MALANPURENTECH, MULTI PRODUCTS, BEST PLASTRONICS

S. No.	Material	Approved makes
27	Gate Vales and Globe Valve (Gun Metal, Drain Valve)	LEADER, ZOLOTO, SANT
28	Auto Air Vent With Stop Valve	ANERGY, RAPID CONTROL, EMERALD
29	Fire Resistant Hessian, Canvas	ARCHNA CHEMICALS, NAVAIR
30	Rubber Pads, Vibration Isolators	RESISTOFLEX, EMERALD, KANWAL
31	Modulating Valves (3 Way, 2 Way)	HONEYWELL, JOHNSON, ANERGY RAPID CONTROL
32	Thermostat and Actuator (2 Way, 3 Way Valve)	ANERGY, HONEYWELL, SIEMENS, RAPID CONTROL
33	Flow Switch (Bellow Type)	RAPID CONTROL, ANERGY
34	Air Curtains	MITZVAH, BEACON, SAM
35	Flexible Duct	PINEAIR, CARRYAIR, GP SPIRA
36	Flexible Connector Couplings	KANWAL, RESISTOFLEX, CORI, Alpha flexi tube
37	Electrical Starters, Contactors	SIEMENS, L&T, BCH, ABB
38	Control Cables Copper Conductor	GLOSTER, UNISTAR, KEI, GRANDLAY, NATIONAL, RALLISON, HAVELLS, POLYCAB, RR KABEL
39	L.T. Power Aluminum/Copper Cables (FRLS)	GLOSTER, UNISTAR, KEI, GRANDLAY, NATIONAL, RALLISON, HAVELLS, POLYCAB, RR KABEL
40	Panel Boards (Powder Coated) and Control Console	MILESTONE, TRICOLITE, ADLEC, ADVANCE PANLES & SWITCHGEAR Ltd., PRISTINE, STERLING GENERATOR.
42	Current Transformer (Cast Resin)	AE, KAPPA, PRECISE
43	Indicating Lamps(LED Type)	SIEMENS, L&T, TELEMECANIQUE, ABB
44	Push Button	SIEMENS, L&T, TELEMECANIQUE
45	Controls	HONEYWELL, STAEFA, RAPID CONTROL, JOHNSON
46	Digital Voltmeter and Ammeter With Selector Switch	ENERCON, L&T, DUCAT
47	Contactors RELAY	L&T, SIEMENS, G.E, SCHNEIDER
48	Thermal Over Load Relay	L&T, SIEMENS, G.E, LEGRAND, ABB
49	Single Phasing Preventor	MINILEC, BCH
50	Electrical Motor, Motor Starter, Contactor, Switches	SIEMENS, ABB, CROMPTON, NGEF
51	UPVC/PPR drain pipe	Astral, Kisan
52	Drain Pump	Aspen/Blue Diamond/Sauremann/OEM Compatible
53	COPPER PIPE	MANDEV, RAJCO
54	AHU, TFA units with blower of NICOTRA, KRUGER, COMEFRI	EDGETECH, FLAKTWOOD, NUTECH, ZECO, WAVES
55	InLine Fan	AIRFLOW, CARYAIRE, GREENHECK, KRUGER NICOTRA, PINEAIR OSTBERG
56	Fan Coil Units/Hi wall Units	EDGETECH, WAVES, ZECO , Midea , Carryaire

Note: Registrar, IIT Bhilai or Engineer in-Charge or equivalent officer appointed by Institute and reserves the right to add or delete any material and brands in the list of preferred material/brands on the recommendation of Engineer-In -charge.

SCHEDULE OF QUANTITIES

Name of Work: Installation of split ACs in different buildings of IIT Bhilai.

Sr. No	Description of Items	Qty.	UoM	Rate (in Rs.)	Amount (in Rs.)
1	Installation of split type AC Unit (1.5 Tr., 2Tr.) (Indoor/Outdoor), including servicing ,testing and commissioning and Transportation from store to site etc. as required.	50	set		
2	Supplying & Fixing of Copper refrigerant pipe size 1/4" & 1/2" (Make: Totaline/Rajco/Mandev) with Nitrile rubber insulation along with 3CX2.5 sq. mm PVC insulated, PVC sheathed, copper conductor cable length limit including all fitting accessories and tapping etc complete as required.	600	Feet		
3	Supplying & Fixing 20 mm dia. drainpipe of Hard PVC with accessories complete as required.	500	Feet		
4	Supplying and Charging of Refrigerant Gas in Split AC units.	75	kg		
5	Making appropriate size holes with core cutting machine in RCC wall and brick wall and filling the hole with POP as required.	25	Nos		
6	Supplying & Fixing suitable MS stands (floor/Wall mounted) for split AC outdoor units as required.	50	Nos		

Sign of bidder : _____

Date : _____

Name of bidder: _____

Firm's Name : _____

Tel : _____