E-TENDER DOCUMENT

for

Renovation and strengthening work of fire detection, alarm and firefighting system at old CRF Building at IIT Kharagpur.

Notice Invitation Tender Serial No. IIT/IW/EM/NIT/29/2021-22 dated 26.11.2021

Tender Serial No. ___________________________ Issued to:

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1. NOTICE INVITING TENDER

1.1. INTRODUCTION

Indian Institute of Technology (IIT) Kharagpur, hereinafter called IITKGP, invites sealed tenders from the eligible contractors for “Renovation and strengthening work of fire detection, alarm and firefighting system at old CRF Building at IIT Kharagpur.” Particulars of the project are as following.

1.2. PARTICULARS

<table>
<thead>
<tr>
<th>NIT No.</th>
<th>NIT No.: IIT/IW/EM/NIT/29/2021-22</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. NIT Number</td>
<td>Renovation and strengthening work of fire detection, alarm and firefighting system at old CRF Building at IIT Kharagpur.</td>
</tr>
<tr>
<td>2. Name of Work</td>
<td></td>
</tr>
<tr>
<td>3. Location of Work</td>
<td>IIT Kharagpur, Kharagpur-721302</td>
</tr>
<tr>
<td>4. Estimated Cost (including GST)</td>
<td>₹ 1, 02,819/- (Rupees One lakh two thousand eight hundred and nineteen only)</td>
</tr>
<tr>
<td>5. Time Limit for Execution</td>
<td>30 days from date of start.</td>
</tr>
<tr>
<td>6. Tender Basis and Mode</td>
<td>Two stage (Technical Bid &amp; Financial Bid)</td>
</tr>
<tr>
<td>8. Date, Time &amp; Venue of Pre-bid Meeting</td>
<td>10th December 2021 at 11.30 am, in the meeting room of ESTATE (E&amp;M), Head Office, 1st Floor, Old Building, IIT Kharagpur, Kharagpur WB 721302 or online link meeting link: <a href="https://meet.google.com/wib%E2%80%90bvfw%E2%80%90vou">https://meet.google.com/wib‐bvfw‐vou</a></td>
</tr>
<tr>
<td>9. Closing Date &amp; Time for Receipt of bids</td>
<td>15th December 2021 up to 11:00 AM</td>
</tr>
<tr>
<td>10. Date &amp; Time for Opening Technical of Bid</td>
<td>16th December 2021 at 11:30 AM</td>
</tr>
<tr>
<td>11. Date &amp; Time for Opening of Price Bid</td>
<td>To be informed later to the successful bidder</td>
</tr>
<tr>
<td>12. Engineer-in-charge and contact details.</td>
<td>Mr Mahesh Kumar, Senior Executive Engineer Tel: 03222-282542, Email: <a href="mailto:maheshkr@hijli.iitkgp.ernet.in">maheshkr@hijli.iitkgp.ernet.in</a></td>
</tr>
<tr>
<td>13. Address for tender issue, submission and opening</td>
<td>Office of the Superintending Engineer (E&amp;M), 1st Floor, Old Building, IIT Kharagpur, Kharagpur WB 721302</td>
</tr>
<tr>
<td>14. Website for full and updated information</td>
<td><a href="http://www1.iitkgp.ac.in/topfiles/tenders.php">http://www1.iitkgp.ac.in/topfiles/tenders.php</a>; <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a></td>
</tr>
</tbody>
</table>

1.3. ELIGIBILITY CRITERIA

1.3.1. The bidder must be registered in appropriate class of works with Government organization like CPWD/ PWD/ MES or PSUs or OEM or Authorized supplier and installer of OEM (Authority must be signed by OEM official not lower than General Manager or equivalent in corporate structure or those having experience in similar nature of works awarded by Government/ Semi Government Organizations/ Government Funded Autonomous Organization.

1.3.2. The bidder must have done at least 1 (ONE) similar work of value of 80% of the estimated cost or 2 (TWO) similar works for projects each of value 60% of the estimated cost or 3 (THREE) similar work for projects each of value 40% of the estimated cost with Government/ Semi-government/ PSU/ Government Funded Autonomous Organization during last 7 (seven) years preceding last date of the month of tender submission.

Note:

(i) The estimated cost is Rs. 1, 02,819/- (Rupees One lakh two thousand eight hundred and nineteen only)

(ii) The value of executed works 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 the last date of receipt of applications for tender.
(iii) Similar works shall mean: Fire Fighting equipment maintenance / Installation job.

1.3.3. The bidder or the specialized agency the bidder intends to associate with must be registered with appropriate government authority as a bonafide business entity and must have GST registration certificate and Permanent Account Number of income tax.

1.3.4. Electrical work shall be executed by selected bidder through agency holding Electrical license valid on date of execution.

1.3.5. The registrations and licenses should be valid during the execution phase.

1.3.6. The Average annual turnover of the bidder as per ITCC or profit & loss statement shall not be less than 30% of the estimated cost of project, not having incurred loss in more than two years, during last 5 years ending 31 Mar 2021. The documents submitted should be duly certified and audited by Chartered Accountant.
2. INFORMATION TO BIDDERS

2.1 SCOPE OF WORK

2.1.1 The IIT KGP intends for Renovation and strengthening work of fire detection, alarm and firefighting system at old CRF Building at IIT Kharagpur.

2.1.2 Constraint: The job needs to be executed in Academic area without causing any disturbances to the normal functioning of routine activities/ road networks.

2.1.3 The vendor shall work out execution sequence and methodology so as to complete the project within the envisaged time and the estimated cost, duly handling the constraint mentioned above.

2.2 GENERAL INSTRUCTIONS

2.2.1 Bidding documents are to be obtained electronically through websites: http://www1.iitkgp.ac.in/topfiles/tenders.php, https://eprocure.gov.in/eprocure/app

2.2.2 This bid document shall be read in conjunction with GCC (General Conditions of Contract) available on http://www1.iitkgp.ac.in/topfiles/tenders.php.

2.2.3 The bidder shall visit and inspect the site and obtain all information on his own responsibility and at own cost, which may be necessary for the purpose of quoting and submitting the tender. No excuse or ignorance as to site conditions and local information shall be accepted after awarding of the contract. Access to the site will be granted by the Engineer-in-charge on all working days within working hours.

2.2.4 IITKGP shall not provide any space at site for labour hutments.

2.2.5 All clarifications about the tender shall be sought by bidder on or before pre-bid meeting. The bidders may make suggestions which shall be considered during the Pre Bid Meeting. Intending bidder(s) may also send their queries or suggestion, if any, through e-mail to the Engineer-in-charge on maheshkr@hijli.iitkgp.ernet.in on or before 10th December 2021, 10:30 hrs. No queries shall be entertained after notification of replies to noteworthy queries received till the date of pre-bid meeting.

2.2.6 Completion certificate issued by Competent Authority will only be considered as credential. If the Completion certificate issued by Competent Authority does not reflect the type of work, then Final bill / Schedule of Quantity of the qualifying works also to be attached along with the Completion certificates. Certificate from private individuals / organizations for whom such works have been executed shall not be accepted.

2.2.7 The bidding document (consisting of specifications, the schedule of quantities of various types of items to be executed, the set of terms and conditions of the contract and other documents / drawings, if any), Addendum/Corrigenda, Clarifications to Pre-bid queries can be downloaded from the websites: i) http://www1.iitkgp.ac.in/topfiles/tenders.php; ii) https://eprocure.gov.in/eprocure/app. Corrigenda, if any shall be published only on these websites sat any time before the closing time of tender. The institute shall not be responsible for any delay / difficulties / inaccessibility of downloading facility for any reason whatsoever. The tenderers who have downloaded the tender documents from website must visit the website and ensure that such addendum(s)/corrigendum(s) (if any) is also downloaded by them. This shall be the responsibility of the prospective registered bidders to check the web site for any such corrigendum/addendum before closing time of tender and ensure that bid submitted by them are in accordance with all the corrigendum’s/addendums.

2.2.8 All costs, charges & expenses that may be incurred in connection with the preparation of his tender shall be borne by him and the Institute accepts no liability whatsoever therefore.

2.2.9 Rates quoted by the bidders shall be inclusive of GST (Goods and Services Tax - Central, State and Interstate) and all applicable taxes. Income Tax and all other statutory deductions like labour cess etc. will be deducted from the bill as per prevailing rules.

2.2.10 Exemption to IITKGP against any tax/ duty/ fee/ surcharge/ charge/ cost, if any, found applicable or sought later from IITKGP after award shall be passed on to IITKGP by the contractor without dispute.

2.2.11 IITKGP reserves the right to reject any or all of the bids without assigning any reason.

2.2.12 Bid Validity: Bid shall remain valid for 120 days from the date of submission.

2.2.13 Firm Price: Bidder’s quoted Rates/Prices for executing the activities under the Contract shall remain firm till completion of the entire work & shall not attract any escalation under any circumstances whatsoever.

2.2.14 If any information furnished by the bidder is found as false / fabricated, then his bid will be rejected and treated as cancelled. Even if such manipulation is detected at any stage after signing of the contract, it would lead to termination of the contract besides enforcing actions as mentioned in the Bid Security Declaration Form (Annexure-III) and liabilities towards prosecution. In such cases the bidder will be debarred from participation in future tendering process in IITKGP for next 01 (One) year.

2.2.15 Earnest Money Deposit (EMD): As per amendment in GRF-2017, No.F9/4/2020-PPD dated 12.11.2020, no provision for EMD has been kept in this tender. However the bidder has to submit a Bid Security Declaration as per Annexure-III. MSEs registered with District Industries Centers, National Small Industries Corporation and any other body specified by Ministry of MSME or Startups as recognized by Department of Industrial Policy and Promotion shall be exempted from payment of EMD in the bid. The self-attested photocopy of their evidence should be submitted by the bidder(s) along with the formal request letter for exemption.
2.3.12

2.3.11

2.3.10

2.3.6

2.3.5

2.3.4

2.3.9

2.3.7

2.3.8

2.3.3

2.3.2

2.3.1

2.4.3

2.4.2

2.4.1

Evaluation of Technical Bid: The bids received will then be assessed on the eligibility criteria mentioned at Para 1.3 of Notice Inviting Tender. Bids found not meeting the eligibility criteria shall be considered non-responsive and shall be rejected summarily.
2.4.5 IITKGP retains the right to revert back to individual bidders with further clarifications / queries on the Technical Bid. The bidder has to respond to the queries within the specified time mentioned in the covering letter.

2.4.6 On the date & time specified for opening of Financial Bid or the Revised Financial Bids as the case may be will be opened on specified date and time.

2.4.7 **EVALUATION OF Financial Bids:** The Financial Bid should contain the complete bid document with duly filled in Schedule of Financial Quote. Financial Bids opened as above will be checked for arithmetical errors.

2.4.8 **Letter of Acceptance:** The successful bidder shall be issued Letter of Acceptance (LOA) of the bid, and be required to furnish a Performance Guarantee as per General Conditions of Contract, Program Schedule with specific Milestones to be achieved as to complete the work within the stipulated time limit, details of his Technical Staff to be deployed as per ANNEXUREI, and complaint handling arrangement for the Defect Liability Period.

2.4.9 **Letter of Award (Work Order)** shall be issued to the successful bidder only after receipt of the Performance Guarantee, along with Program Schedule, details of Technical Staffs to be deployed for the work and Complaint Redressal Mechanism as per following para.

(a) Contractor shall submit Complaint redressal arrangement with name & contact number of the contractor’s authorized representative for the purpose.

2.4.10 **Agreement (Contract)** consisting of complete tender document including conditions, bill of quantities, technical proposal and specialized services, drawings, if any, and acceptance thereof together with any correspondence leading thereto, shall be drawn and signed with the awardee within 10 days of the Letter of Award.

2.4.11 **Date of start** of work shall be reckoned from the 07th day of the issue of the Letter of Acceptance.

2.4.12 **Defect Liability Period (DLP):** In partial modification to clause no.16 of General Conditions of Contract (GCC), the Defect Liability Period shall be 12 months after the certificate final or otherwise of its completion of work or till the final bill has been prepared.

2.5 **COMPLAINT REDRESSAL MECHANISM**

2.5.1 All maintenance complaints shall be got addressed by the contractor to the satisfaction of Engineer-in-charge within 3 days from the date of issuance of the “Job Card” from IIT Kharagpur.

2.5.2 Complaints requiring completion time more than 3 days shall be responded specifically by the contractor with the scheme, in consultation with Engineer-in-charge, and timeline for compliance, to the Engineer-in-charge within 3 days from the date of issuance of the “Job.

2.5.3 Any complaint left unattended by the contractor beyond 3 days without specific reasons on record shall attract levy of penalty of Rs 50/- per complaint per day from 4th day to 7th day and Rs 100/- per complaint per day thereafter recoverable from dues to the contractor.

2. **UNDERTAKING BY THE BIDDER**

**UNDERTAKING**
I / We have read and examined the Tender document including terms & conditions, specifications, bill of quantities, drawings and designs, general rules & directions, General Conditions of Contract, Special Conditions of Contract and all relevant other documents, publications and rules referred to in the Conditions of Contract and all other contents in the tender documents for the work.

I / We, hereby tender for execution of the work specified for the Indian Institute of Technology Kharagpur within the time specified and in accordance in all respects with the specifications, designs, drawings and instructions in writing.

We agree to keep the tender open for 120 days from the last date of its submission and not to make any modifications in its terms and conditions. A sum of Rs. __________ has been deposited in cash / demand draft of a scheduled bank / Pay order as earnest money. If I / we, fail to furnish the prescribed performance guarantee within prescribed period, I / we agree that the said Director, Indian Institute of Technology Kharagpur or his authorized officer 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, Indian Institute of Technology Kharagpur 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 therein.

Further, I / We agree that in case of forfeiture of earnest money or both Earnest Money & Performance Guarantee as aforesaid, I / We shall be debarred for participation in the re-tendering process of the work.

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

Seal & Signature of Contractor

Postal Address

Dated

Witness

Address

Occupation
TECHNICAL STAFF OF CONTRACTOR

Name of the Work:  Renovation and strengthening work of fire detection, alarm and firefighting system at old CRF Building at IIT Kharagpur.

<table>
<thead>
<tr>
<th>DISCIPLINE</th>
<th>NAME</th>
<th>QUALIFICATION</th>
<th>EXPERIENCE</th>
<th>CONTACT NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Project In-charge</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Engineer - Structure and Civil Works</td>
<td></td>
<td></td>
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<tr>
<td>Engineer – Electrical &amp; Mechanical Works</td>
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<tr>
<td>In-charge - Safety, Health &amp; Environment</td>
<td></td>
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<tr>
<td>In-charge for Maintenance (DLP) period</td>
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</tbody>
</table>

Seal & Signature of Contractor
UNIVERSITY OF TECHNOLOGY KARAGPUR

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

ANNEXURE - II

UNIVERSITY OF TECHNOLOGY KARAGPUR

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

UNDERTAKING FOR GCC COMPLIANCE

UNDERTAKING

We hereby undertake that we shall fulfill all the terms & conditions within the specified time frame, after the acceptance of our offer in case our offer is accepted; failing which IIT KHARAGPUR may go ahead to take necessary action such as reporting the non-compliance to appropriate Government authorities and barring us from future participation in IIT KHARAGPUR works.

Seal & Signature of Contractor

DATED:
ANNEXURE - III

Bid Security Declaration Form  

Date: ________________________  Tender No. ________________________________  To (Insert complete name and address of the purchaser)

I/We, the undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Security Declaration. I/We accept that I/we may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am/We are in a breach of any obligation under the bid conditions, because I/We

a) Have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or

b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instruction to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/We are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: (insert signature of person whose name and capacity are shown)

In the capacity of (insert legal capacity of person signing the bid Securing Declaration)

Name: (insert complete name of person signing the Bid Securing Declaration)

Duly authorized to sign the bid for an on behalf of (insert complete name of Bidder)

Dated on ...................................day of ........................................... (Insert date of signing)

Corporate seal (where applicable)
# ANNEXURE - IV

## DETAILS OF THE FIRM

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Name of Firm</td>
</tr>
<tr>
<td>2.</td>
<td>Registered / Postal Address</td>
</tr>
<tr>
<td>3.</td>
<td>Working Office Address</td>
</tr>
<tr>
<td>4.</td>
<td>Working Email id</td>
</tr>
<tr>
<td>5.</td>
<td>Mobile No.</td>
</tr>
<tr>
<td>6.</td>
<td>Telephone No.</td>
</tr>
<tr>
<td>7.</td>
<td>Particulars of Registration with various government bodies/organization.</td>
</tr>
<tr>
<td>8.</td>
<td>Were you ever debarred/ blacklisted by any department during the past seven years?</td>
</tr>
<tr>
<td>9.</td>
<td>Name of Directors /Partners with Address</td>
</tr>
<tr>
<td>10.</td>
<td>Permanent Account Number (PAN) No</td>
</tr>
<tr>
<td>11.</td>
<td>GST Registration No.</td>
</tr>
</tbody>
</table>
1. Checklist for Documents to be uploaded on [https://eprocure.gov.in/eprocure/app](https://eprocure.gov.in/eprocure/app)

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Documents</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Tender Documents (sign. With stamp on each page)</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>EMD (NSIC/MSEs Registration Certificate OR Bid Security Declaration Form (Annexure-III)</td>
<td>1.2.5</td>
</tr>
<tr>
<td>3.</td>
<td>Company registered by Govt. Organization like CPWD/PWD/MES/Autonomous bodies or Other PSUs</td>
<td>1.3.3</td>
</tr>
<tr>
<td>4.</td>
<td>GST Registration Certificate</td>
<td>1.3.3</td>
</tr>
<tr>
<td>5.</td>
<td>Permanent Account Number</td>
<td>1.3.3</td>
</tr>
<tr>
<td>6.</td>
<td>Completion Certificate during last 07yrs.</td>
<td>1.3.2</td>
</tr>
<tr>
<td>7.</td>
<td>Updated Electrical Contractor License</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>ANNEXURE-I, II, III and IV</td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>The Average annual turnover of the bidder as per ITCC or profit &amp; loss statement, during last 5 years ending 31 Mar 2021.</td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>BOQ under financial bid section</td>
<td></td>
</tr>
</tbody>
</table>

** Please upload necessary documents only.

Schedule of Quantities (SOQ)
### Name of work:
Renovation and strengthening work of fire detection, alarm and firefighting system at old CRF Building at IIT Kharagpur

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Supplying, installation, testing &amp; commissioning sector <strong>Panel</strong> suitable for following zones, complete with visual indications for short circuit fault, open circuit fault, fire condition and all other standard facilities as per IS:2189 with mimic diagram for all area/zone covered, complete with all connections interconnections as required. <em>(Make - Notifier(Honeywell/ Edwards (UT)/Cerberus(Siemens)/BOSCH)</em></td>
<td>NOS</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Supplying, installation, testing &amp; commissioning of <strong>Smoke Detector</strong> with built-in LED and mounting base complete with all connections etc. as required. <em>(Make - System sensor/Apollo/ Edwards/Notifier)</em></td>
<td>NOS</td>
<td>32</td>
</tr>
<tr>
<td>3</td>
<td>Supplying, installation, testing &amp; commissioning <strong>Response Indicator</strong> on surface/recess MS box having two LEDs metallic cover complete with all connections etc. as required. <em>(Make - Notifier(Honeywell/ Edwards (UT)/Cerberus(Siemens)/BOSCH)</em></td>
<td>NOS</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Supplying, installation, testing &amp; commissioning of <strong>Manual Call Boxes</strong> of MS construction in surface/recess with stainless steel chain &amp; hammer assembly complete with glass and push button etc. as required. <em>(Make - Notifier(Honeywell/ Edwards (UT)/Cerberus(Siemens)/BOSCH)</em></td>
<td>NOS</td>
<td>6</td>
</tr>
<tr>
<td>5</td>
<td>Supplying, installation, testing &amp; commissioning <strong>Fire Alarm Sounder</strong> with facility to make announcement, mounted in M.S. box (16 SWG) with hinged cover plate &amp; suitable for operation with amplifier i/c line matching transformer etc. complete as required. <em>(Make - Notifier(Honeywell/ Edwards (UT)/Cerberus(Siemens)/BOSCH)</em></td>
<td>NOS</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>Supplying and drawing of cable Fire Retardant PVC insulated copper conductor <strong>Cable</strong> in the existing surface / recessed steel conduit of following pairs, cores and size including connections and interconnections etc. as required. <em>(Make: Finolex/ Hevells)</em></td>
<td>METRE</td>
<td>300</td>
</tr>
<tr>
<td>7</td>
<td>Public adress mixer Amplificere of capacity 45 watt with 3 mice and 1 auxiliary input Model no- SSB-45EM, make AHUJA (Hand held microphone with connecting cord Model no ADM)</td>
<td>SET</td>
<td>2</td>
</tr>
<tr>
<td>8</td>
<td>Hand held microphone with connector cable/chord model no 511, <strong>Make AHUJA</strong></td>
<td>Nos</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>Wall mounted lockable quality rack for amplificere and mic etc</td>
<td>Nos</td>
<td>2</td>
</tr>
</tbody>
</table>

**Please submit BOQ under financial bid section**

Note: All materials to be used needs prior approval of Engineer-in-charge.

Signature of contractor

### Special Condition for Electrical work
1. The work shall be carried out as per national code or C. P. W. D specifications for works with correction slips issued up-to-date unless otherwise specified in the schedule of quantities for the works.

2. The following Indian Standard Specifications and Codes of Practice will apply to the equipment and the work covered by the scope of this contract. In addition the relevant clauses of the Indian Electricity Act 1910 and Indian Electricity Rules 1956 as amended up to date shall also apply. Wherever appropriate Indian Standards are not available, relevant British and/or IEC Standards shall be applicable.

   BIS certified equipment shall be used as a part of the Contract in line with Government regulations. Necessary test certificates in support of the certification shall be submitted prior to supply of the equipment.

   It is to be noted that updated and current Standards shall be applicable irrespective of those listed below.

   Low voltage Switchgear and Controlgear specifications
   Part I – General
   Part 2 – Circuit Breakers
   Part 3 – Switch Fuse Units
   Part 4 – Contactors and Motor Starters
   Part 5 – Control Circuit Devices
   Electrical Relays for power system protection
   Low voltage Switchgear and Control gear assemblies
   Marking of Switchgear busbars
   Degree of Protection of Enclosures for low voltage switchgear
   Code of Practice for selection, installation and maintenance of Switchgear

4. No under-ground work or above the false ceiling shall be covered until the same has got approved by the Engineer-in-charge. The contractor will supply the drawings of specific works for approval, if required.

5. All the old wiring has to be dismantled with proper care. The reusable old materials if any are to be handed over to departmental store with proper documentation and the other non reusable (nil reselling value) will be disposed by the contractor. The contractor shall clear the site thoroughly of all scaffolding materials & rubbish etc. left out of his work & dress the site around the building to the satisfactions & his decision in writing shall be final & binding on all concerned.

6. Special care to be taken to avoid any theft of electrical fittings and fixtures while executing the work.

7. The location of Panel / DB / Switch board / Light point / Fan point will be as per existing location or as per the instruction of Engineer-in-charge.

8. All the wiring will be done with feruling and cable / Wire termination by required size or lugs of required materials and It should be noted that license wire man shall only be allowed for the wiring work.

   **Electrical safety at work site**

   The contractor will identify one of the supervisors for taking care of implementation of Safety systems.

   The Contractor should follow the following General Guidelines governing the safety rules as laid down under:

   Usage of eye protection equipment shall be ensured when workmen are engaged for grinding, chipping, welding and gas-cutting. For other jobs as and when site safety co-ordinator insists eye protection has to be provided.

   1. All safety appliances like Safety shoes, Safety gloves, Safety helmet, Safety belt, Safety goggles etc. shall be arranged before starting the job.

   2. All excavated pits shall be barricaded & barricading to be maintained till the backfilling is done. Safe approach to be ensured into every excavation.

   3. All the dangerous moving parts of the portable / fixed machinery being used shall be adequately guarded.

   4. Ladders being used at site shall be adequately secured at bottom and top. Ladders shall not be used as work platforms.

   5. Material shall not be thrown from the height. If required, the area shall be barricaded and one person shall be posted outside the barricading for preventing the tre-passers from entering the area.
6. Other than electricians no one is allowed to carry out electrical connections, repairs on electrical equipment or other jobs related thereto.

7. All electrical connections shall be made using 3 or 5 core cables, having a earth wire.

8. Inserting of bare wires for tapping the power from electrical sockets is completely prohibited.

9. A tools and tackles inspection register must be maintained and updated regularly.

10. Debris, scrap and other materials to be cleared from time to time from the workplace and at the time of closing of work every day.

11. All the unsafe conditions, unsafe acts identified by contractors, reported by site supervisors and / or safety personnel to be corrected on priority basis.

12. No children shall be allowed to enter the workplace.

13. All the lifting tools and tackles shall be stored properly when not in use.

14. Clamps shall be used on Return cables to ensure proper earthing for welding works.

15. All the pressure gauges used in gas cutting apparatus shall be in good working condition.

16. Proper eye washing facilities shall be made in areas where chemicals are handled.

17. Connectors and hose clamps are used for making welding hose connections.

18. All underground cables for supplying construction power shall be routed using conduit pipes.

19. Spill trays shall be used to contain the oil spills while transferring / storing them.

20. Tapping of power by cutting electric cables in between must be avoided. Proper junction boxes must be used.

21. Non-compliance to above shall invite a penalty recovery as per 3.22.8.