

# **TENDER DOCUMENT**

## **Name of Work**

**Renovation/relocation and development of AIESL  
(a subsidiary company of AIAHL)**

**Corporate Office, 2<sup>nd</sup> Floor, AI Admin. Building,  
Safdarjung Airport, New Delhi- 110 003.**

# AI ENGINEERING SERVICES LIMITED

## DISCLAIMER

While the document has been prepared in good faith, no representation or warranty, express or implied, is or will be made, or no responsibility or liability will be accepted by AI Engineering Services Ltd. (AIESL) or any of its employees, about the accuracy or completeness of this document and any liability thereof expressly disclaimed. The RFQ is not an offer by AI Engineering Services Ltd., but an invitation. No contractual obligation on behalf of AI Engineering Services Ltd., whatsoever, shall arise from the offer process unless and until a formal contract is signed and executed by duly authorized officers of AI Engineering Services Ltd. and the Bidder.

The information is provided on the terms and conditions set out in this Tender.

This Tender is not an agreement and is neither an offer nor an invitation by AI Engineering Services Ltd. to the prospective bidder(s) or any other person. The purpose of this Tender is to provide interested parties with information that may be useful to them in making their technical and commercial offers according to this Tender.

AI Engineering Services Ltd. to make no representation or warranty and shall have no liability to any person, including any or bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment, or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this Tender or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the Tender and any assessment, assumption, statement or information contained therein or deemed to form part of this Tender or arising in any way in the tender process.

AI Engineering Services Ltd. also accepts no liability of any nature whether resulting from negligence or otherwise howsoever, caused arising from reliance of any or bidder upon the statements contained in this Tender.

Any information/documents including information/documents about this Tender or subsequently provided to bidder(s) and/or successful bidder and information/ documents relating to the bidding process; the disclosure of which is prejudicial and/or detrimental to, or endangers, the implementation is not subject to disclosure as public information/ documents.

No contractual obligation on behalf of AI Engineering Services Ltd., whatsoever, shall arise from the offer process unless and until a formal contract is signed and executed by duly authorized officers of AI Engineering Services Ltd. and the Bidder.

### **(I) INTRODUCTION**

AI Engineering Services Limited (hereinafter referred to as "AIESL"), a company incorporated under the Companies Act 1956, having its registered office at 2<sup>nd</sup> Floor, CRA Building, Safdarjung Airport, New Delhi – 110003 invites bids under two bid system from eligible bidders (hereinafter referred to as "Bidder(s)") meeting the Technical Bid Evaluation Criteria mentioned at SECTION A of the Tender and also complying with other terms and conditions of the subject Tender, for Renovation/Relocation and development of AIESL, 2<sup>nd</sup> Floor AI Admin Building, Safdarjung Airport in complete accordance with this Tender.

### **(II) PURPOSE OF THE TENDER**

AIESL, a public-sector undertaking is an aviation MRO. For the same AIESL requires Civil contractor for the services mentioned in Section I above. For this purpose, AIESL is inviting Bidders to quote for these services in 2 bid tendering process viz. technical bid as per Section D and Price Bid as per Section E and/or if any additional task is mandated by the regulatory authorities, the same should be complied with by the service provider at no additional cost. The Tendering process will be carried out through CPP Portal.

# NOTICE INVITING e-TENDER ( 2 Envelope Open Tender)

Tender ID No.....

1. Item Rate e-tenders are invited through the e-tendering CPP portal by AIESL from the eligible contractors for the work of "Renovation/relocation and development of AIESL (a subsidiary company of AIAHL) Corporate Office, 2nd Floor, AI Admin. Building, Safdarjung Airport, New Delhi 110 003 at an estimated cost of Rs. 3,75,00,000/- excluding GST with completion period of 03 (Three) months.

The tendering process is online at CPP-portal URL address <https://etenders.gov.in/eprocure/app> Prospective Tenderers may download and go through the tender document.

Prospective Tenderers are advised to register themselves at CPP-portal, obtain 'Login ID' and 'Password' and go through the instructions available in the Home Page after log in to the CPP-portal <https://etender.gov.in/eprocure/app>. They should also obtain Digital Signature Certificate (DSC) in parallel, which is essentially required for submission of their application. The process normally takes 03 days' time.

- (i) For any technical-related queries related to uploading/downloading of tender, please call the Helpdesk. The 24 x 7 Help Desk details are as below.

Tel:0120-4711508, 0120-4001002, 0120-4001005, 0120-6277787, E-Mail: support-eproc@nic.in

Tenderers are requested to mention the URL of the Portal and Tender ID in the subject while emailing any issue along with the contact details.

Before submitting queries, bidders are requested to follow the instruction given in "Guidelines to Bidders" and get their computer system configured according to the recommended setting as specified in the portal at "System Setting for CPPP"

- (ii) For any further technical assistance regarding tender tenderer may contact to the following AIESL numbers on all working days only.

Sl. No.	Support Persons	E-mail Address	Contact Numbers	Timings
1.	Mr. Shadab Ali- Manager (P&M)	manager-properties@aiahl.in	011- 20819802	1030- 1630 Hrs. (MON-FRI)
2.	Mr. Shailendra Kumar (CoP&M)	chief-properties@aiahl.in	011- 20819802	1030-1630 Hrs. (MON-FRI)

\*The help desk services shall remain closed on all Govt. Gazetted Holidays.

Tender processing fee Rs. 1180/- (Rupees One Thousand One Hundred Eighty Only) (including GST), non-refundable will be submitted through online gateways available at "<http://forms.eduqfix.com/aiengineering/add>" or through NEFT/RTGS/UPI to the following bank Account:

Account No : 50200107884866

Beneficiary: AIEngineering Services Ltd

Bank: HDFC Bank

IFSC: HDFC0001897

and proof of remittance should be submitted along with the technical bid.

Earnest Money Deposit (EMD) of Rs. 7,50,000/- (Seven Lac Fifty Thousand only) will be submitted through online

gateway given above and proof of remittance should be submitted along with the technical bid. EMD will not carry any interest.

2. Two (2) envelopes shall be submitted through online at CPP-portal by the tenderer as per the following schedule:

#### CRITICAL DATE SHEET

Tender No & Date	AIESL/HQRS/GM/2025/1024 dtd 18-12-2025
Tender Description	<b>Renovation/relocation and development of AIESL Corporate Office, 2<sup>nd</sup> Floor, AI Admin. Building, Safdarjung Airport, New Delhi- 110 003.</b>
Tender Fee	₹ 1180/-
Publishing Date	Date: 09-01-2026
Bid Document Download / Sale Start Date.:	Date: 09-01-2026
Clarification End Date	Date: 16-01-2026
Bid submission Start Date	Date: 09-01-2026 refer CPP Portal
Bid Submission End Date	Date: 23.01.2026
Bid Opening Date (Part- I) – Technical Bid	Date: 24.01.2026 at 1100 hrs.
<b>Site Visit</b>	<b>12.01.2026 to 22.01.2026</b>
<b>Pre-Bid Meeting</b>	<b>Date: 16.01.2026 at 1100 hrs.</b>
Bid Opening Date (Part- II) – Price Bid of technically qualified bidders	Date: To be announced
Earnest Money Deposit	₹ 7,50,000/-
E-Mail ID for Clarification	

Note: If the bidder has any query related to the Bid Document of the work, they should use 'Seek Clarification' on CPP portal to seek clarifications. No other means of communication in this regard shall be entertained.

#### SUBMISSION OF BIDS:

1. The tenderer shall submit their application only at CPP Portal: <http://etenders.gov.in/eprocure/app>. Tenderer / Contractor are advised to follow the instructions provided in the tender document for online submission of bids. Tenderers are required to upload the digitally signed file of scanned documents as per Para2. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.  
Uploading of application in location other than specified above shall not be considered.
2. Not more than one tender shall be submitted by one tenderer or tenderers having business relationship. Under no circumstance will father and his son(s) or other close relations who have business relationship with one another (i.e. when one or more partner(s) / director(s) are common) be allowed to tender for the same contract as separate competitors. A breach of this condition will render the tenders of both parties liable to rejection.
3. Tenderer who have downloaded the tender from Central Public Procurement Portal (CPPP) website <http://etenders.gov.in/eprocure.gov.in/eprocure/app>, shall not tamper/ modify the tender form including downloaded price bid template in any manner. In case the same is found to be tampered/modified in any manner, tender will be completely rejected and EMD would be forfeited, and tenderer is liable to be banned from doing business with AIESL.
4. Bids should be filled in prescribed forms duly signed and stamped and the prices in the Price Bid must be written/typed both in words and figures without any overwriting. Corrections & overwriting, if any, should be counter signed and stamped by the Bidder.
5. Bidders are advised to study the Tender carefully. Submission of Bid shall be deemed to have been done after careful study and examination of the tender with the full understanding of its implications.
6. Bidders shall bear their costs associated with or relating to the preparation and submission of their Bids including but not limited to preparation, copying, postage, delivery Fees, expenses associated with any demonstrations or

presentations which may be required by AIESL, or any other costs incurred in connection with or relating to their Bid. All such costs and expenses will remain with the Bidder and AIESL shall not be liable in any manner whatsoever for the same or any other costs or other expenses incurred by a Bidder in preparation or submission of the Bid, regardless of the conduct or outcome of this Tender process.

7. Bids prepared by the Bidder shall contain all requisite information along with self-attested supporting documents as per details provided in the Technical Bid.
8. No Price/indication of price should be given in the technical bid. If any price information is found in the technical bid, the bid shall be rejected without assigning any reason whatsoever. No communication shall be entertained in this regards.

#### **Part-I (Technical Bid & Pre-qualification): Bid containing following:**

##### **A. Technical Bid contains the following:**

- i. Scanned copy of Tender Acceptance Letter on Bidder's Letter Head as per **Annexure- 1**.
- ii. Scanned copy of Permanent Account Number (PAN) and GST Registration Number.
- iii. Scanned copy of 'Undertaking' regarding Blacklisting / Debarment on Bidder's Letter Head as per Annexure-2.
- iv. Scanned copy of details of similar works completed during last seven years supported with completion certificate issued by the client.
- v. Scanned copy of Financial Information
- vi. Scanned copy of Net Worth.
- vii. Bidder shall submit scanned copy of 'Undertaking' on Company's Letter Head that I / We will deploy sufficient plant and machinery as per the requirement of the work in consultation with the Engineer-In-Charge (E-I-C) to achieve the milestones / targets and overall completion within the time period' as per Annexure-3.
- viii. Bidders other than proprietor firm shall submit, scanned copy of Authorization Letter / Power of Attorney along with copy of Certificate of Incorporation of the Company under Companies Act showing CIN / LLPIN / Name of Directors of the Company & Copy of Board Resolution to assign Power of Attorney.
- ix. Proprietary firm shall submit scanned copy of Authorization Letter / Power of Attorney only if the tender is processed by a person other than proprietor.
- x. PQ Performa duly filled as per Annexure-4
- xi. The bidder shall have registered office in Delhi /NCR. Bidder shall submit scanned copy of proof of register office in Delhi/NCR.
- xii. All scanned documents mentioned above must be signed and duly stamped by the bidder.

##### **B. Qualifying/Eligibility requirements of contractors / tenderers containing the following:**

- i. The bidder shall have registered office in Delhi /NCR
- ii. Should have successfully completed or substantially completed three works, each of 40% of the estimated cost or two works, each of 50% of the estimated cost or one work of 80% of the estimated cost in single contract of similar nature during last 05 (Five) years.

The details of similar works completed during last seven years with supporting documents issued by client.

The firm of the tenderers should be registered with appropriate class of CPWD, Central PSU's or any other Central Government Department.

##### **3. Site Visit:**

The intending bidders must visit the site by requesting through email id, **manager-properties@aiahli.in** between **12.01.2026 to 22-1-2026**

to have an idea of location, working conditions and to understand the exact work scope and to take note of the site conditions before quoting the rates. The proposed work is to be done in the working office area and the work may be required to be done in phases, hence the bidder must understand the site constraints before quoting the rates. The bidders will have to obtain a certificate from the department in respect of the site visit and must upload this

certificate with the Technical Bid.

#### **4.Pre-Bid Meeting:**

The Pre-Bid Meeting shall be held on 16-01-2026 at 11 am to understand the work and to clarify the doubts of the interested Bidders. All the intended bidders must attend the Pre-Bid Meeting as per schedule at below mentioned site office:

AIAHL CONFERENCE ROOM  
2<sup>ND</sup> FLOOR, AI ADMIN BUILDING  
SAFADARJUNG AIRPORT, NEW DELHI-110003

Client certificate for experience should show the nature of work done, the value of work, date of start, date of completion as per agreement, actual date of completion and satisfactory completion of work. Tenderers showing work experience certificate from non-government / non-PSU organizations should submit copy of tax deduction at sources (TDS) certificate(s) along with a certificate issued by registered Chartered Accountant, clearly specifying the name of work, total payment received against the work and TDS amount for the work.

- ii) Should have Average Annual Financial Turnover of bidders during last three years ending one year prior to the previous financial year should be at least 30% of estimated tender value of ₹ 3.75 Cr or ₹ 1.3 Cr.  
Financial Information shall be submitted. Tenderers showing continuous losses during the last three years in the balance sheet shall be summarily rejected.

#### **Part-II:- The Financial e-Bid through CPP portal**

All rates shall be quoted in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the tenderers. Tenderers are required to download the BOQ file, open it and complete with their respective financial quotes and other details (such as name of the tenderer). No other cells should be changed. Once the details have been completed, the tenderer 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.

#### **9. Refund of EMD:-**

EMD deposited by all bidders except the confirmed lowest bidder shall be returned within one month from the date of opening of financial bid. EMD of the successful bidder shall be returned on receipt of security deposit equivalent to EMD amount.

#### **10. Bid Opening Process is as below:**

Part-I (Technical bid and Pre-qualification):

Part-I containing documents (uploaded by the tenderers) shall be opened on date & time mentioned in CRITICAL DATE SHEET.

If any clarification is needed from the bidder about the deficiency in his uploaded documents in Envelope-I, he will be asked to provide it through CPP portal, if required. The tenderer shall upload the requisite clarification / documents within time specified by AIESL, failing which it shall be presumed that bidder does not have anything to submit, and bid shall be evaluated accordingly. The intimation regarding acceptance / rejection of their bids will be intimated to tenderers through CPP portal.

Part-II containing financial bids of the tenderers found to be meeting the technical criteria and qualifying requirements shall be opened on date & time as announced on CPPP. (In case the date and time for opening of Envelope-II (Financial bid) is required to be changed, same shall be intimated through CPP Portal).

11. AIESL reserves the right to accept or reject any or all applications without assigning any reasons. AIESL also reserves the right to call off tender process at any stage without assigning any reason.
12. AIESL reserves the right to disallow the tenderer whose performance at ongoing project (s) is below par and usually poor and has been issued letter of restrain / Temporary or Permanent debarment / blacklisting by any department. AIESL reserve the right to verify the credential submitted by the tenderer at any stage (before or after the award the work). If at any stage, any information / documents submitted by the applicant is found to be incorrect / false or have some discrepancy which disqualifies the tenderer then AIESL shall take the following action:
  - a) Forfeit the entire amount of EMD submitted by the tenderer.
  - b) The tenderer shall be liable for debarment for a period upto two years from tendering in AIESL and its subsidiary companies including termination of the contract apart from any other appropriate contractual / legal action.
13. Consortium / JV companies shall not be permitted to participate in this tender.
14. Concessions to Indian Micro & Small Enterprises (MSEs) units registered with DIC/NSIC/KVIC/KVIB/Directorate of Handicraft and handloom etc., to be given as per the provisions of Public Procurement Policy for MSEs order 2012 with up-to-date amendments, shall be applicable for tenders of supply / services **and shall not be extended to construction works/ renovation work.**
15. Tenderers have to submit documents like Financial information (Turnover with loss / profit), Net worth Certificate etc. as per NIT conditions duly certified by CA.
16. **Technical Bid Evaluation Criteria (TBEC)**
17. For Bidder to become technically qualified, it is essential to meet the Eligibility criteria. To assess the capability of service providers, who show interest in our selection process, will be evaluated as per Technical Bid Format given in Annexure-A
18. **Price Bid Evaluation Criteria (PBEC): Lowest Bid (L-1) will be the lowest Grand Total Value of the quoted in the BOQ\_Price\_Bid\_Format.**

**AI ENGINEERING SERVICES LIMITED**

## **Instructions for Online Bid Submission**

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: <https://etenders.gov.in/eprocure/app>.

### **REGISTRATION**

1. Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://etenders.gov.in/eprocure/app>) by clicking on the link “Online bidder Enrollment” on the CPP Portal which 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 III Certificates with signing key usage) issued by any Certifying authority recognized by CCA India (e.g. Sify / 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 DSC's to others which may lead to misuse.
6. Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

### **SEARCHING FOR TENDER DOCUMENTS:**

1. There are various search options built in the CPP Portal, to facilitate bidders to search for 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**

Bidder should take into account any corrigendum published on the tender document before submitting their bids.

1. 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 documents that need to be submitted. Any deviations from these may lead to rejection of the bid.
2. 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/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.

3. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

Note: My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of Technical Bid.

## **SUBMISSION OF BIDS**

1. Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
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 "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.
4. Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise, the uploaded bid will be rejected.
5. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white colored (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.
6. 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.
7. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128-bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
8. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
9. Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.

10. The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

#### **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 AIESL 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

## **GENERAL GUIDELINES FOR BIDDERS**

1. Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their Tenders as to the nature of the form and nature of the site, the means of access to the site, the accommodation they may require, working conditions including space for stacking of materials, rates of various materials to be incorporated in works, applicability of taxes & duties, conditions affecting accommodation and movement of labour etc. and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or effect their Tender. The tenderers shall be responsible for arranging and maintaining at their 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.
2. Layout/alignment of the Project is being provided only as a preliminary reference document by way of assistance to the Bidders who are expected to carry out their own surveys, investigations and other detailed examination of the Project before submitting their Bids. Nothing contained in this 'Tender Document' shall be binding on AIESL nor confer any right on the Bidders, and the AIESL shall have no liability whatsoever in relation to or arising out of any or all contents of this Tender Document.
3. Submission of an e-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 works to be done, local conditions, local material rates and other factors bearing on the execution of the works. A Tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed.
4. All rates (exclusive of GST and ESI & EPF) shall be quoted in the respective Section in CPP e- tender Portal (Financial Bid i.e. Envelope-II).
5. As this tender is an Item Rate Tender, rates for all items quoted shall only be considered. Any Tender containing percentage below/above the total estimated cost is liable to be rejected. Tenderers who propose any alteration in the works specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort including conditional rebates will be summarily rejected.
6. Bidder must ensure to quote rate of each item. However, if a tenderer quotes nil rates against each item in item rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
7. **Power of attorney/authorization for signing tender**
  - a) Only the Power of Attorney/Authorization holder of the tenderer on whose name the tender has been uploaded shall sign the Tender documents
  - b) The name and designation of the person or persons of the company who is authorized to sign shall be clearly indicated in the letter.
  - c) In the event of the tender submitted by a partnership 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 by the partners. A certified copy of the Power-of-Attorney issued by the company/partnership firm shall be uploaded in Envelope-I and it must disclose that the firm is duly registered under the Indian Partnership Act, 1952.
8. Notification of Award of contract will be made in writing to the successful bidder by AIESL or his representative through CPP Portal. The contract will normally be awarded to the qualified and responsive Bidder offering lowest evaluated bid in conformity with the requirements of the specifications and contract documents and AIESL shall be the sole judge in this regard. AIESL does not bind himself to accept the lowest or, any tender or to give any reason for his decision. A responsive bidder is one who submits priced Tender and accepts all terms and conditions of the

specifications and contract documents. A Tenderer shall submit a responsive bid, failing which his Tender will be liable to be rejected.

**9. COMPARISON AND EVALUATION OF TENDER**

- a) Prior to detailed evaluation, AIESL will determine the substantial responsiveness of Tender document. A substantial responsive Tender is one which confirms to all the terms and conditions of the Tender.
- b) A tender is determined as not responsive, if tender is submitted incomplete, annexures are not filled up, unconditional acceptance letter, minimum wages affidavit, integrity pact and power of attorney not found in proper form etc. as described above such tenders are liable to be rejected by AIESL.
- c) Once the contractor has uploaded the digitally signed file of tender document along with other documents as an attachment, he is not permitted to upload any additional file or put any remark(s)/ conditions(s) in / along with the Tender Document.
- d) In case if any condition is found violated after opening Envelope-I i.e. Technical Bid, the tender shall be summarily rejected and AIESL shall, without prejudice to any other remedy, be at liberty to take any suitable action, as deemed fit.

Only those tenderers whose Technical Bid documents are acceptable to AIESL will be examined and their techno-commercial bid shall be evaluated to determine whether they are complete, meets tender requirements, free from computational errors, whether the data have been properly filled up, and whether the requisite documents as detailed have been submitted in conformity to the Tender specifications, drawings and conditions.

**10. REJECTION OF TENDER**

- a) AIESL reserves the right to reject all the tenders or any of the tender or any part of tender without assigning any reason.
- b) AIESL reserves the right at its sole discretion not to award any work under this tender. AIESL shall not pay any costs or loss incurred by the tenderers in the preparation and submission of any requisite tender or technical proposal or to procure contract for any of the items described herein.
- c) If the tenderer deliberately gives wrong information or suppress any information in his Tender, AIESL reserves the right to reject such tender at any stage or to cancel the contract, if awarded, and to forfeit the Earnest Money, absolutely, in addition to any other appropriate/legal action.
- d) Canvassing in any form in connection with the tenders is strictly prohibited and the tenders submitted by firms who resort to canvassing are liable for rejection.
- e) Any deviation in the Tender submission procedure will be considered as nonresponsive bid and liable to be rejected.
- f) A Tenderer shall submit a responsive bid, failing which his Tender will be liable to be rejected.
- g) Tender, in which any of the particulars information prescribed are missing or are incomplete, in any respect and/or prescribed conditions are not fulfilled, shall be considered non-responsive and is liable to be rejected.
- h) The tenderer is expected to examine the tender document including all instructions, forms, terms, specifications, drawings, etc. Failure to furnish all information required as per the tender documents or submission of a tender not substantially responsive to the tender document in any respect may result in the rejection of the tender.
- i) A Tenderer shall submit the Tender which satisfies each and every condition laid down in this notice failing which the Tender will be liable to be rejected.
- j) Any tender not accompanied with EMD will be considered non-responsive and rejected.

11. AIESL shall be the sole judge in the matter of evaluating & accepting technical bids, Price bids and award of contract

and decision of AIESL shall be final & binding.

12. AIESL reserve the right to verify the credential submitted by the agency at any stage (before or after the award of work) If at any stage, any information / documents submitted by the applicant is found to be incorrect / false or have some discrepancy which disqualifies the firm then AIESL shall take the following action:
  - a) Forfeit the entire amount of EMD submitted by the tenderer.
  - b) The Tenderer shall be liable for debarment from tendering for a period upto two years in AIESL/SUBSIDIARY COMPANIES in any name/style, apart from any other appropriate contractual / legal action.
14. All bid procedure related queries be referred to helpdesk as above.

## **General Rules & Directions**

1. All work proposed for execution by contract are notified in the form of invitation to tender pasted in public places /NIC CPP Portal and signed by AIESL and NICCPP Portal <http://etenders.gov.in> for reference only). This form will state the work to be carried out, as well as the date for submitting and opening tenders and the time allowed for carrying out the work, also the amount of earnest money to be deposited with the tender, and the amount of the security deposit and Performance guarantee to be deposited by the successful tenderer and the percentage, if any, to be deducted from bills. Copies of the specifications, designs and drawings and any other documents required in connection with the work signed for the purpose of identification by AIESL shall also be open for inspection by the contractor at the office of AIESL during office hours.
2. In the event of the e-tender being submitted by a firm, it must be digitally signed. Such tender will be treated as signed tender. For physical tender 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, 1952.
3. Any person who submits a tender shall fill up the usual printed form, stating at what rate he is willing to undertake each item of the work. Tenderers, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort, including conditional rebates, will be summarily rejected. The rate(s) must be quoted in decimal coinage. Amount must be quoted in full Rupees by ignoring 50 paise and considering more than 50 paise as Rupee one. In case the lowest tendered amount (worked out on the basis of quoted rate of individual items) of two or more contractors is same, then such lowest contractors will be asked to submit revised offer quoting rate of each item of the schedule of quantity for all sub sections/sub heads as the case may be, but the revised quoted rate of each item of schedule of quantity for all sub sections/sub heads should not be higher than their respective original rate quoted already at the time of submission of tender. The lowest tender shall be decided on the basis of revised offer.
4. AIESL shall have the right of rejecting all or any of the tenders and will not be bound to accept the lowest or any other tender.
5. The bidders shall sign a declaration under the Official Secret Act 1923, for maintaining secrecy of the tender documents drawings or other records connected with the work given to them. The unsuccessful bidders shall return all the drawings given to them.
6. (i) The bidder, whose tender is accepted, will be required to furnish performance guarantee of 5% (Five Percent) of the tendered amount in addition to the security deposit.  
(ii) The bidder, whose tender is accepted, will also be required to furnish by way of Security Deposit for the fulfillment of the contract, an amount equal to 5% of the contract amount of the work.
7. On acceptance of the tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Engineer-in-Charge shall be communicated in writing to the Engineer-In-charge.
8. Rates to be quoted by the parties should be inclusive of all taxes, duties, CESS, fee, royalty charges etc. levied under any statute but exclusive of GST for all the items.
9. However, GST, as applicable, shall be paid to the contractor, against valid GST invoice as per term and condition of contract.
10. The tender for composite work includes, in addition to building work, all other works such as sanitary and water supply, electrical work, HVAC work, interior work and IT work etc.

## GENERAL CONDITIONS OF CONTRACT

1.	<b>Definitions:</b>	<p><b>The contract</b> means the documents forming the tender and acceptance thereof and the formal agreement / agreement executed between the competent AIESL on behalf of the AIESL and the Contractor, together with the documents referred to therein including these conditions, the specifications, designs, drawings and instructions issued from time to time by the Engineer-in-Charge and all these documents taken together, shall be deemed to form one contract.</p>
2.		<p>In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them :-</p> <ul style="list-style-type: none"> <li>i) The expression works or work shall, unless there be something either in the subject or context repugnant to such construction, be construed and taken to mean the works by or by virtue of the contract contracted to be executed whether temporary or permanent, and whether original, altered, substituted or additional.</li> <li>ii) <b>The site</b> shall mean the land / or other places on, into or through which work is to be executed under the contract or any adjacent land, path or street through which work is to be executed under the contract or any adjacent land, path or street which may be allotted or used for the purpose of carrying out the contract.</li> <li>iii) <b>The Contractor/tenderer/bidder</b> shall mean the individual, firm or company and shall include the legal personal representative of such individual or the persons constituting such firm or company, or the successors of such firm or company and the permitted assignees of such individual, firm or company.</li> <li>iv) <b>The Engineer-In-charge</b> means the Engineering Officer who shall supervise and be In-charge of the work.</li> <li>v)</li> <li>vi)</li> <li>x) <b>AIESL</b> shall mean the AI ENGINEERING SERVICES LIMITED.</li> <li><b>Excepted Risk</b> are risks due to riots (other than those on account of contractor's employees), war (whether declared or not) invasion, act of foreign enemies, hostilities, civil war, rebellion revolution, insurrection, terrorism, military or usurped power, damages from aircraft, acts of God, such as earthquake, lightening and unprecedeted floods, and other causes over which the contractor has no control and accepted as such by the AIESL.</li> <li><b>Market Rate shall be the rate</b> as decided by the Engineer-In-charge on the basis of the prevailing cost of materials and labour at the site where the work is to be executed plus percentage to cover, all overheads and profits. Schedule(s) referred to in these conditions shall mean the relevant schedule(s) annexed to the tender papers or the standard Schedule of Rates of the government with the amendments thereto issued upto the date of receipt of the tender. Department means AI ENGINEERING SERVICES LIMITED. Tendered value means the value of the entire work as stipulated in the letter of award.</li> </ul>
3.	<b>Scope and Performance</b>	Where the context requires, words imparting the singular only also include the plural and vice versa. Any reference to masculine gender shall be required whenever required include feminine gender and vice versa.
4.		Headings and Marginal notes to these General Conditions of Contract shall not be deemed to form part thereof or be taken into consideration in the interpretation or construction thereof or of the contract.
5.		The contractor shall be furnished, free of cost one certified copy of the contract documents except standard specifications, Schedule of Rates and such other printed and published documents, together with all drawings as may be forming part of the tender papers. None of these documents shall be used for any purpose other than that of this contract.
6.	<b>Works to be carried out</b>	The work to be carried out under the Contract shall, except as otherwise provided in these conditions, include all labour, materials, tools, plants, equipment and transport which may be required in preparation of and for and in the full and entire execution and completion of the works. The descriptions given in the Schedule of Quantities shall, unless otherwise stated, be held to include wastage on materials, carriage and cartage, carrying and return of empties, hoisting, setting, fitting and fixing in position and all other labours necessary in and for the full and entire execution and completion of the work as aforesaid in accordance with good practice and recognized principles.

7.	<b>Sufficiency of Tender</b>	The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the Schedule of Quantities, which rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.
8.	<b>Discrepancies and Adjustment of Errors</b>	The several documents forming the Contract are to be taken as mutually explanatory of one another, detailed drawings being followed in preference to small scale drawing and figured dimensions in preference to scale and special conditions in preference to General Conditions.
8.1		In the case of discrepancy between the Schedule of Quantities, the Specifications and / or the Drawings, the following order of preference shall be observed :- <ul style="list-style-type: none"> <li>i) Description of Schedule of Quantities.</li> <li>ii) Particular/ technical Specification and Special Condition, if any.</li> <li>iii) Drawings.</li> <li>iv) C P W D Specifications.</li> <li>v) Indian Standard Specifications of BIS.</li> <li>vi) Sound Engineering practice as directed by the Engineer-In-charge, whose decision in this regard shall be final and binding on the contractor.</li> </ul>
8.2		If there are varying or conflicting provisions made in any one document forming part of the contract, AIESL shall be the deciding authority with regard to the intention of the document and his decision shall be final and binding on the contractor.
8.3		Any error in description, quantity or rate in Schedule of Quantities or any other omission there from shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from any of his obligations under the contract.
8.4	<b>Payment for similar items with different quoted rates in different subheads of the contract Agreement</b>	If the contractor has quoted different rates for the same item appearing in two or more subheads, then the lowest of the rates quoted shall only be considered for payments during execution of work. In case of deviation of quantity of such item, payments shall be made at the lowest quoted rate for quantity executed.
10.	<b>Signing of Contract</b>	The successful tenderer / contractor, on acceptance of his tender by AIESL, shall, within 15 days from the stipulated date of start of the work, shall sign the agreements:

**Clause 1: Performance Guarantee**

The bidder, whose tender is accepted, will be required to furnish performance guarantee of 5% (Five Percent) of the tendered amount before start of the work.

The Bidder whose tender is accepted and if the quoted amount is below 25% of the estimated rates the tenderer shall have to furnish an additional performance guarantee equal to 5 % of the tendered amount.

**Clause 1 A : Recovery of Security Deposit**

The person/persons whose tender(s) may be accepted (hereinafter called the contractor) shall permit AIESL at the time of making any payment to him for work done under the contract to deduct a sum at the rate of 5% of the gross amount of each running and final bill till the sum deducted will amount to security deposit of 5% of the tendered value of the work. Such deductions will be made and held by AIESL by way of Security Deposit unless he/they has/have deposited the amount of Security at the rate mentioned above in the form of Bank Guarantee from any of the National Bank.

All compensations or the other sums of money payable by the contractor under the terms of this contract may be deducted from, or paid by the sale of a sufficient part of his security deposit or from the interest arising therefrom, or from any sums which may be due to or may become due to the contractor by AIESL on any account whatsoever and in the event of his Security Deposit being reduced by reason of any such deductions or sale as aforesaid, the contractor shall within 10 days make good by submission of Bank Guarantee from any of the National Bank endorsed in favour of the AI Engineering Services Limited, any sum or sums which may have been deducted from, or raised by sale of his security deposit or any part thereof. The security deposit shall be collected from the running bills and final bill of the contractor at the rates mentioned above.

The security deposit as deducted above can be released against bank guarantee issued by any National Bank. The security deposit will not bear any interest.

**Clause 2 : Compensation for Delay**

If the contractor fails to maintain the required progress or to complete the Work and clear the site on or before the contract or justified extended date of completion (excluding any extension) as well as any extension granted, he shall without prejudice to any other right or remedy available under the law to the AIESL on account of such breach, pay as compensation the amount calculated at the rates stipulated below may decide on the amount of Tendered Value of the work.

If the completion of work is delayed due to delay of work reasons attributed to contractor, AIESL shall be entitled for compensation for delay as detailed below :

- i. 0.5% (half percent) of tendered value per week of delay or lesser amount as decided by the competent authority subject to a maximum of 10% of the tendered value.

Provided always that the total amount of compensation for delay to be paid under this condition shall not exceed 10% of the Tendered Value of work. This is without prejudice to right of action by Engineer for delay in performance and claim of compensation under that clause.

### Clause 3

#### When Contract can be determined

Subject to other provisions contained in this clause, the Engineer-In-charge may, without prejudice to his any other rights or remedy against the contractor in respect of any delay, inferior workmanship, any claims for damages and/or any other provisions of this contract or otherwise, and whether the date of completion has or has not elapsed, by notice in writing absolutely determine the contract in any of the following cases:

- i) If the contractor having been given a notice by the Engineer-In-charge in writing to rectify, reconstruct or replace any defective work or that the work is being performed in an inefficient or otherwise improper or un-workman like manner shall omit to comply with the requirement of such notice for a period of seven days thereafter.
- ii) If the contractor has, without reasonable cause, suspended the progress of the work or has failed to proceed with the work with due diligence and continues to do so after a notice in writing of seven days from the Engineer-In-charge.
- iii) If the contractor fails to complete the work or section of work with individual date of completion on or before the stipulated or justified extended date on or before such date of completion, and the Engineer in Charge without any prejudice to any other right or remedy under any other provision in the contract has given further reasonable time in a notice given in writing in that behalf as either mutually agreed or in absence of such mutual agreement by his own assessment making such time essence of contract and in the opinion of Engineer in Charge, the contractor will be unable to complete the same or does not complete the same within the period specified.
- iv) If the contractor persistently neglects to carry out his obligations under the contract and / or commits default in complying with any of the terms and conditions of the contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Engineer-In-charge.
- v) If the contractor shall offer or give or agree to give to any person in AIESL Service or to any other person on his behalf any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of this or any other contract for AIESL.
- vi) If the contractor shall enter into a contract with AIESL in connection with which commission has been paid or agreed to be paid by him or to his knowledge, unless the particulars of any such commission and the terms of payment thereof have been previously disclosed in writing to the Engineer-In-charge.
- vii) If the contractor shall obtain a contract with AIESL as a result of wrong tendering or other non-Bonafide methods of competitive tendering or commits any breach of Integrity Pact.
- viii) If the contractor being an individual, or if a firm, any partner thereof shall at any time be adjudged insolvent or have a receiving order or order for administration of his estate made against him or shall take any proceedings for liquidation or composition (other than a voluntary liquidation for the purpose of amalgamation or reconstruction) under any Insolvency Act for the time being in force or make any conveyance or assignment of his effects or composition or arrangement for the benefit of his creditors or purport so to do, or if any application be made under any Insolvency Act for the time being in force for the sequestration of his estate or if a trust deed be executed by him for benefit of his creditors.
- ix) If the contractor being a company shall pass a resolution or the court shall make an order that the company shall be wound up or if a receiver or a manager on behalf of a creditor shall be appointed or if circumstances shall arise which entitle the court or the creditor to appoint a receiver or a manager or which entitle the court to make a winding up order.
- x) If the contractor shall suffer an execution being levied on his goods and allow it to be continued for a period of 21 days.
- xi) If the contractor assigns (excluding part(s) of work assigned to other agency(s) by the contractor as per terms of contract), transfers, sublets (engagement of labour on a piece-work basis or of labour with materials not to be incorporated in the work, shall not be deemed to be subletting) or otherwise parts with or attempts to assign, transfer, sublet or otherwise parts with the entire works or any portion thereof without the prior written approval of the Engineer-In-charge. When the contractor has made himself liable for action under any of the cases aforesaid,

the Engineer-In charge on behalf of the Chairman, AIESL shall have powers :

- a) To determine the contract as aforesaid so far as performance of work by the Contractor of work is concerned (of which determination notice in writing to the contractor under the hand of the Engineer-In-charge shall be conclusive evidence). Upon such determination, the Earnest Money Deposit and Security Deposit have already recovered and Performance Guarantee under the contract shall be liable to be forfeited and shall be absolutely at the disposal of AIESL.
- b) After giving notice to the contractor to measure up the work of the contractor and to take such whole, or the balance or part thereof, as shall be un-executed out of his hands and to give it to another contractor or any other means to complete the work. The contractor, whose contract is determined as above, shall not be allowed to participate in the tendering process for the balance work. In the event of above courses being adopted by the Engineer In-charge, the contractor shall have no claim to compensation for any loss sustained by him by reasons of his having purchased or procured any materials or entered into any engagements or made any advances on account or with a view to the execution of the work or the performance of the contract. And in case action is taken under any of the provision aforesaid, the contractor shall not be entitled to recover or be paid any sum for any work thereof or actually performed under this contract unless and until the Engineer-In charge has certified in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value so certified.

#### **Clause 3A**

In case the work cannot be started due to reasons not within the control of the contractor within 1/8th of the stipulated time for completion of work or one month whichever is higher, either party may close the contract by giving notice to the other party stating the reasons. In such eventuality, the Earnest Money Deposit and the Performance Guarantee of the contractor shall be refunded within 30 days. Neither party shall claim any compensation for such eventuality. This clause is not applicable for any breach of the contract by either party.

#### **Clause 3B**

##### **Debarment of Contractor**

Contractor may be debarred if it is determined under breached the Integrity Pact of relevant clause and Code of Integrity of relevant clause.

Contractor can also be debarred for reasons like supply of substandard material, non-supply of material, abandonment of work, substandard quality of work, poor / unsatisfactory performance.

The period of debarment shall be upto two years.

#### **Clause 4 : Contractor liable to pay compensation even if action not taken under relevant clause**

In any case in which any of the powers conferred upon the Engineer-In-charge thereof, shall have become exercising and the same are not exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in the event of any future case of default by the contractor and the liability of the contractor for compensation shall remain unaffected. In the event of the Engineer-In-charge putting in force all or any of the powers vested in him under the preceding clause he may, if he so desires after giving a notice in writing to the contractor, take possession of (or at the sole discretion of the Engineer-In-charge which shall be final and binding on the contractor) use as on hire (the amount of the hire money being also in the final determination of the Engineer-In-charge) all or any tools, plant, materials and stores, in or upon the works, or the site thereof belonging to the contractor, or procured by the contractor and intended to be used for the execution of the work/ or any part thereof, paying or allowing for the same in account at the contract rates, or, in the case of these not being applicable, at current market rates to be certified by the Engineer-In-charge, whose certificate thereof shall be final, and binding on the contractor, clerk of the works, foreman or other authorized agent to remove such tools, plant, materials, or stores from the premises (within a time to be specified in such notice) in the event of the contractor failing to comply with any such requisition, the Engineer- In-charge may remove them at the contractor's expense or sell them by auction or private sale on account of the contractor and his risk in all respects and the certificate of the Engineer-In- charge as to the expenses of any such removal and the amount of the proceeds and expenses of any such sale shall be final and conclusive against the contractor.

#### **Clause 5 : Time and Extension for Delay**

The time allowed for execution of the Works or the extended time in accordance with these conditions shall be the essence of the Contract. The execution of the works shall commence from such time period as mentioned in the tender or from the date of handing over of the site whichever is later. If the Contractor commits default in commencing the execution of the work as aforesaid, AIESL shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the earnest money & performance guarantee absolutely.

5.1	After the Contract is awarded, within 15 days, the Contractor shall submit a Time and Progress Chart for each milestone and get it approved by the Engineer-In-charge. The Chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of the work and may be amended as necessary by agreement between the Engineer-In-charge and the Contractor within the limitations of time imposed in the contract documents, and further to ensure good progress during the execution of the work
5.3	Request for rescheduling of Milestones and extension of time, to be eligible for consideration, shall be made by the contractor in writing within fourteen days of the event of the event causing delay. The contractor may also, if practicable, indicate in such a request the period for which extension is desired.
6:	In any case the Engineer-In-charge may give a fair and reasonable extension of time and reschedule the Milestones for completion of work. Such extension or re- scheduling of the milestone shall be communicated to the contractor by the Engineer-In-charge in writing, within 1 month or 4 weeks of the date of receipt of such request respectively. Non-application by the contractor for extension of time/ re-scheduling of milestones shall not be a bar for giving a fair and reasonable extension / re-scheduling of milestones by the Engineer-In-charge shall be binding on the contractor.

## **7 Measurements of Work Done :**

All the measurements for submission of the bill shall be prepared and recorded by the contractor or his authorized representative for submission of the bills.

The contractor shall, without extra charge, provide all assistance with every appliance, technical manpower and other things necessary for verification of measurements and recording levels. All payments against running account bills will be considered as advance payment against the final bill.

If for any reason the contractor or his authorized representative is not available and the work of recording measurements is suspended by the Engineer-in- Charge or his representative, the Engineer-In-charge and the Department shall not entertain any claim from contractor for any loss or damages on this account.

If the contractor or his authorized representative does not remain present at the time of such measurements after the contractor or his authorized representative has been given a notice in writing five (5) days in advance or fails to countersign or to record objection within a week from the date of the measurement, then such measurements recorded in his absence by the Engineer- in- Charge or his representative shall be deemed to be accepted by the Contractor.

Except where any general or detailed description of the work expressly shows to the contrary, measurements shall be taken in accordance with the procedure set forth in specifications notwithstanding any provision in the relevant Standard Method of measurement or any general or local custom. In the case of items which are not covered by specifications, measurements shall be taken in accordance with the relevant standard method of measurement issued by the Bureau of Indian Standards and if for any item no such standard is available, then a mutually agreed method shall be followed.

The contractor shall give, not less than seven days' notice to the Engineer-In- charge or his authorized Representative of the work, before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions thereof be taken before the same is covered up or placed beyond the reach of measurement and shall not cover up and place beyond reach of measurement any work without consent in writing of the Engineer-In-charge or his authorized Representative of the work who shall within the aforesaid period of seven days inspect the work, and if any work shall be covered up or placed beyond the reach of measurements without such notice having been given or the Engineer-in-Charge's consent being obtained in writing, the same shall be uncovered at the Contractor's expense, or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed.

Engineer-In-charge or his authorized representative may cause either themselves or through another officer of the department to check the measurements recorded jointly or otherwise as aforesaid and all provisions stipulated herein above shall be applicable to such checking of measurements or levels.

It is also terminal of this contract that recording of measurements of any item of work in the measurements and/or its payment in the interim, on account or final bill shall not be considered as conclusive evidence as to the sufficiency of any work or material to which it relates, nor shall it relieve the contractor from liabilities from any over measurement or defects noticed till completion of the defects liability period.

**Clause 8: Completion Certificate and Completion Plans**

Within ten days of the completion of the work, the contractor shall give notice of such completion to the Engineer-in-Charge and within thirty days of the receipt of such notice, the Engineer-in-Charge shall inspect the work and if there is no defect in the work, shall furnish the contractor with a final certificate of completion, otherwise a provisional certificate of physical completion indicating defects (a) to be rectified by the contractor and/or (b) for which payment will be made at reduced rates, shall be issued.

But no final certificate of completion shall be issued, nor shall the work be considered to be complete until the contractor shall have removed from the premises on which the work shall be executed all scaffolding, surplus materials, rubbish and all huts and sanitary arrangements required for his/their work people on the site in connection with the execution of the works as shall have been erected or constructed by the contractor(s) and cleaned off the dirt from all wood work, doors, windows, walls, floor or other parts of the building, in, upon, or about which the work is to be executed or of which he may have had possession for the purpose of the execution; thereof, and not until the work shall have been measured by the Engineer-in-charge. If the contractor shall fail to comply with the requirements of this Clause as to removal of scaffolding, surplus materials and rubbish and all huts and sanitary arrangement as aforesaid and cleaning off dirt on or before the date fixed for the completion of work, the Engineer-in-charge may at the expense of the contractor remove such scaffolding, surplus materials and rubbish etc., and dispose of the same as he thinks fit and clean off such dirt as aforesaid, and the contractor shall have no claim in respect of scaffolding or surplus materials as aforesaid except for any sum actually realized by the sale thereof.

<b>Clause 8 A</b>		
	<b>Contractor to keep site clean</b>	<p>When the annual repairs and maintenance of works are carried out, the splashes and droppings from white washing, color washing, painting etc., on walls, floor, windows etc. shall be removed and the surface cleaned simultaneously with the completion of these items of work in the individual rooms, quarters or premises etc.</p> <p>Where the work is done without waiting for the actual completion of all the other items of work in the contract, in case the contractor fails to comply with the requirements of this clause, the Engineer-in-charge shall have the right to get this work done at the cost of the contractor either departmentally or through any other agency. Before taking such action, the Engineer-in-charge shall give ten days' notice in writing to the contractor.</p>
<b>Clause 8 B</b>		
	<b>Completion Plans to be Submitted by the Contractor</b>	The contractor shall submit completion plan as applicable within thirty days of the completion of the work.
<b>Clause 9</b>		
	<b>Payment of final bill</b>	The final bill shall be submitted by the contractor after verification of measurement in the same manner as specified in interim bills within three months of physical completion of the work or within one month of the date of the final certificate of completion furnished by the Engineer-in-charge whichever is earlier. No further claims shall be made by the contractor after submission of the final bill, and these shall be deemed to have been waived and extinguished. The final bill will be settled by the Engineer-in-charge, within three months period reckoned from the date of receipt of the bill after verification of measurement by the Engineer-in-charge or his authorized representative,
<b>Clause 10</b>		

	<b>Secured Advance on Materials</b>	<p>The contractor, on signing an indenture form specified shall be entitled to be paid during the progress of the execution of the work up to 75% of the assessed value of materials, which are in the opinion of the Engineer-in-charge non-perishable, non-fragile and non-combustible and are in accordance with the contract and which have been brought on the site in connection therewith and are adequately stored and/or protected against damage by weather or other causes but which have not at the time of advance been incorporated in the works. When materials on account of which an advance has been made under this sub clause are incorporated in the work, the amount of such advance shall be recovered/deducted from the next payment made under any of the clause or clauses of this contract.</p> <p>Such secured advance shall also be payable on other items of perishable nature, fragile and combustible with the approval of the Engineer-in-charge provided the contractor provides comprehensive insurance cover for the full cost of such materials. The decision of the Engineer-in-charge shall be final and binding on the contractor in this matter. No secured advance, shall however, be paid on high-risk materials such as ordinary glass, sand, petrol, diesel.</p>
10 A	<b>Payment on Account of increase in Prices/ Wages due to Statutory Order(s)</b>	<p>The rate quoted by the contractor shall remain fixed and no escalation in the rate on account of increase in the cost of material or lab our wages will be applicable during the period of contract and till completion of the work.</p>
<b>Clause 10 B</b>		
<b>Dismantled Material AIESL Property</b>		<p>The contractor shall treat all materials obtained during dismantling of the site for work etc. as property of AIESL and such materials shall be disposed of to the best advantage of AIESL according to the instructions by the Engineer-in-charge.</p>
<b>Clause 11</b>		
<b>Work to be executed in accordance with specification drawings, orders etc.</b>		<p>The contractor shall execute the whole and every part of the work in the most substantial and workmanlike manner both as regards materials and otherwise in every respect in strict accordance with the specifications. The contractor shall also conform exactly, fully and faithfully to the design, drawings and instructions in writing in respect to the work signed by the Engineer in charges and the contractor shall be furnished free of charge one copy of the contract documents together with specifications, designs, drawings and instructions as are not included in the standard specifications of Central Public Works Department or in any Bureau of Indian Standard or any other published standard or code or Schedule of Rates or any other printed publication referred to elsewhere in the contract. The contractor shall comply with the provisions of the contract and with the care and diligence execute and maintain the works and provide all labour and materials, tools and plants including for measurements and supervision of all works, structural plans and other things of temporary or permanent nature required for such execution and maintenance in so far as the necessity for providing these, is specified or is reasonably inferred from the contract. In case of absence of specification, general condition etc. the CPWD guide lines will be final and binding on the contractor. The contractor shall take full responsibility for adequacy suitability and safety of all the works and methods of construction.</p>
<b>Clause 12</b>		
	<b>Deviations/ variations extent and pricing</b>	<p>The engineer-in-charge shall have power (i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him in writing signed by the Engineering- charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided.</p>

12.1		<p>The time for completion of the works shall, in the event of any deviations resulting in additional cost over the tendered value being ordered, be extended, if requested by the contractor, as follows:</p> <ul style="list-style-type: none"> <li>i) In the proportion which the additional cost of the altered, additional or substituted work, bears to the original tendered value plus</li> <li>ii) 25% of the time calculated in (i) above or such further additional time as may be considered reasonable by the engineer-in-charge.</li> </ul>
12.2	<b>Deviation, Extra Items and Pricing</b>	<p>In the case of extra item(s) (items that are completely new, and in addition to the items contained in the contract) the contractor may within fifteen days of receipt of order or occurrence of the item(s) claim rates, supported by proper analysis, for the work and the Engineer-in-charge shall within Six weeks of the receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.</p>
12.3	<b>Deviation, substituted items pricing</b>	<p>In the case of substituted items (items that are taken up with partial substitution or in lieu of items of work in the contract), the rate for the agreement item (to be substituted) and substituted item shall also be determined in the manner as mentioned in the following para.</p> <ul style="list-style-type: none"> <li>i) If the market rate for the substituted item so determined is more than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so increased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).</li> <li>ii) If the market rate for the substituted item so determined is less than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).</li> </ul>
12.4	<b>Deviation, Deviated Quantities, Pricing</b>	<p>Quantity may increase or decreased to any extent, and nothing extra will be payable to the contractor on this account.</p>
<b>Clause 13</b>		
	<b>Foreclosure of contract due to Abandonment or Reduction in Scope of Work</b>	<p>If at any time after acceptance of the tender or during the progress of work the purpose or object for which the work is being done changes due to any supervening cause and as a result of which the work has to be abandoned or reduced in scope the Engineer-in-Charge shall give notice in writing to that effect to the contractor and the contractor stating the decision as well as the cause for such decision and the contractor shall act accordingly in the matter.</p>
		<p>The contractor shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the works in full but which he did not derive in consequence of the foreclosure of the whole or part of the works.</p> <p>The contractor shall be paid at contract rates, full amount for works executed at site and, in addition, a reasonable amount as certified by the Engineer-in-Charge for the items hereunder mentioned which could not be utilized on the work to the full extent in view of the foreclosure.</p> <ul style="list-style-type: none"> <li>i) Any expenditure incurred on preliminary site work, e.g. temporary access roads, temporary labour huts, staff quarters and site office; storage accommodation and water storage tanks.</li> <li>ii) AIESL shall have the option to take over contractor's materials or any part thereof either brought to site or of which the contractor is legally bound to accept delivery from suppliers (for incorporation in or incidental to the work) provided, however AIESL shall</li> </ul>

be bound to take over the materials or such portions thereof as the contractor does not desire to retain. For materials taken over or to be taken over by AIESL, cost of such materials as detailed by Engineer-in-Charge shall be paid. The cost shall, however, take into account purchase price, cost of transportation and deterioration or damage which may have been caused to materials whilst in the custody of the contractor.

iii) If any materials supplied by AIESL are rendered surplus, the same except normal wastage shall be returned by the contractor to AIESL at rates not exceeding those at which these were originally issued, less allowance for any deterioration or damage which may have been caused whilst the materials were in the custody of the contractor. In addition, cost of transporting such materials from site to AIESL stores, if so required by AIESL, shall be paid.

iv) Reasonable compensation for transfer of T & P from site to contractor's permanent stores or to his other works, whichever is less. If T & P are not transported to either of the said places, no cost of transportation shall be payable.

v) Reasonable compensation for repatriation of contractor's site staff and imported labour to the extent necessary.

The contractor shall, if required by the Engineer-in-Charge, furnish to him books of account, wage books, time sheets and other relevant documents and evidence as may be necessary to enable him to certify the reasonable amount payable under this condition.

The reasonable number of items on (i), (iv) and (v) above shall not be in excess of 2% of the cost of the work remaining incomplete on the date of closure, i.e. total stipulated cost of the work as per accepted tender than the cost of work actually executed under the contract and less than the cost of contractor's materials at site taken over by AIESL as per item (ii) above. Provided always that against any payments due to the contractor on this account or otherwise, the Engineer-in-Charge shall be entitled to recover or be credited with any outstanding balances due from the contractor for advance paid in respect of any tool, plants and materials and any other sums which at the date of termination were recoverable by the AIESL from the contractor under the terms of the contract.

In the event of action being taken to reduce the scope of work, the contractor may furnish fresh Performance Guarantee on the same conditions, in the same manner and at the same rate for the balance tendered amount and initially valid upto the extended date the completion or stipulated date of completion if no extension has been granted plus 180 days beyond that. Wherever, such a fresh Performance Guarantee is furnished by the contractor, the Engineer in Charge may return the previous Performance Guarantee.

#### Clause 14

##### Carrying out part Work at risk & cost of contractor

- a) If contractor:
  - i) At any time makes default during currency of work or does not execute any part of the work with due diligence and continues to do so even after a notice in writing of 7 days in this respect from the Engineer-in-Charge: or
  - ii) Commits default in complying with any of the terms and conditions of the contract and does not remedy it or takes effective steps to remedy it within 7 days even after notice in writing is given in that behalf by the Engineer-in-Charge: or
  - iii) Fails to complete the work(s) or items of work with individual dates of completion, on or before the date(s) so determined, and does not complete them within the period specified in the notice given in writing in that behalf by the Engineer-in-Charge.
- b) The Engineer- in-Charge without invoking action under clause 3 may, without

	<p>prejudice to any other right or remedy against the contractor which have either accrued or accrue thereafter to AIESL, by a notice in writing to take the part work / part incomplete work of any item(s) out of his hands and shall have powers to:</p> <ul style="list-style-type: none"> <li>i) Take possession of the site and any materials, constructional plant, implements, stores, etc., thereon; and/or</li> <li>ii) Carry out the part work / part incomplete work of any item(s) by any means at the risk and cost of the contractor.</li> <li>c) The Engineer-in-Charge shall determine the amount, if any, is recoverable from the contractor for completion of the part work/ part incomplete work of any item(s) taken out of his hands and executed at the risk and cost of the contractor, the liability of contractor on account of loss or damage suffered by AIESL because of action under this clause shall not exceed 10% of the tendered value of the work.</li> <li>d) In determining the amount, credit shall be given to the contractor with the value of work done in all respect in the same manner and at the same rate as if it had been carried out by the original contractor under the terms of his contract, the value of contractor's materials taken over and incorporated in the work and use of plant and machinery belonging to the contractor. The certificate of the Engineer-in-Charge as to the value of work done shall be final and conclusive against the contractor provided always that action under this clause shall only be taken after giving notice in writing to the contractor. Provided also that if the expenses incurred by the department are less than the amount payable to the contractor at his agreement rates, the difference shall not be payable to the contractor.</li> <li>e) Any excess expenditure incurred or to be incurred by AIESL in completing the part work/ part incomplete work of any item(s) or the excess loss of damages suffered or may be suffered by AIESL as aforesaid after allowing such credit shall without prejudice to any other right or remedy available to AIESL in law or per as agreement be recovered from any money due to the contractor on any account, and if such money is insufficient, the contractor shall be called upon in writing and shall be liable to pay the same within 30 days.</li> </ul> <p>F) If the contractor fails to pay the required sum within the aforesaid period of 30 days, the Engineer-in-Charge shall have the right to sell any or all of the contractors' unused materials, constructional plant, implements, temporary building at site etc. and adjust the proceeds of sale thereof towards the dues recoverable from the contractor under the contract and if thereafter there remains any balance outstanding, it shall be recovered in accordance with the provisions of the contract/ provisions of law in the event of above course being adopted by the Engineer-in-Charge, the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements or made any advance on any account or with a view to the execution of the work or the performance of the contract.</p>
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**Clause 15**

<b>Suspension of work</b>	<p>i) The contractor shall, on receipt of the order in writing of the Engineer-in-Charge, (whose decision shall be final and binding on the contractor) suspend the progress of the works or any part thereof for such time and in such manner as the Engineer-in-Charge may consider necessary so as not to cause any damage or injury to the work already done or endanger the safety thereof for any of the following reasons:</p> <ul style="list-style-type: none"> <li>a) on account of any default on the part of the contractor or;</li> <li>b) for proper execution of the works or part thereof for reasons other than the default of the contractor; or</li> <li>c) For safety of the works or part thereof.</li> </ul> <p>The contractor shall, during such suspension, properly protect and secure the works to the extent necessary and carry out the instructions given in that behalf by the Engineer-in-Charge.</p> <p>ii) If the suspension is ordered for reasons (b) and (c) in sub-para (i) above (but not attributed to contractor):</p> <ul style="list-style-type: none"> <li>a) the contractor shall be entitled to an extension of time equal to the period of every such suspension PLUS 25% for completion of the item or group of items of work for which a separate period of completion is specified in the contract and of which the suspended work forms a part, and;</li> <li>b) If the total period of all such suspensions in respect of an item or group of items or work for which a separate period of completion is specified in the contract exceeds thirty days, the contractor shall, in addition, be entitled to such compensation as the Engineer-in-Charge may consider reasonable in respect of salaries and/or wages paid by the contractor to his employees and labour at site, remaining idle during the period of suspension, adding thereto 2% to cover indirect expenses of the contractor provided the contractor submits his claim supported by details to the Engineer-in-Charge within fifteen days of the expiry of the period of 30 days.</li> <li>c) If the works or part thereof is suspended on the orders of the Engineer-in-Charge for more than three months at a time, except when suspension is ordered for reasons (a) in sub-para (i) above, the contractor may after receipt of such order serve a written notice on the Engineer-in-Charge requiring permission within fifteen days from receipt by the Engineer-in-charge of the said notice, to proceed with the work or part thereof in regard to which progress has been suspended and if such permission is not granted within that time, the contractor, if he intends to treat the suspension, where it affects only a part of the works as on omission of such part by AIESL or where it affects whole of the works, as an abandonment of the works by AIESL, shall within ten days of expiry of such period of 15 days give notice in writing of his intention to the Engineer-in-Charge. In the event of the contractor treating the suspension as an abandonment of the contract by AIESL, he shall have no claim to payment of any compensations on account of any profit or advantage which he might have derived from the execution of the work in full but which he could not derive in consequence of the abandonment. He shall, however, be entitled to such compensation, as the Engineer-in-Charge may consider reasonable, in respect of salaries and/or wages paid by him to his employees and labour at site, remaining idle in consequence adding to the total thereof 2% to cover indirect expenses of the contractor provided the contractor submits his claim supported by details to the Engineer-in-Charge within 30 days of the expiry of the period of 03 months.</li> </ul>
<b>Clause 16</b>	<b>Action in case Work not done as Per Specifications</b> <p>All works under or in course of execution or executed in pursuance of the contract, shall at all times be open and accessible to the inspection and supervision of the Engineer-in-Charge, his authorize subordinates in charge of the work and all the superior officers, officer of the Quality Assurance Unit or any organization engaged by the Department of Quality Assurance and of the Chief technical Examiner's Office, and the contractor shall, at all times, during the usual working hours and at all other times at which reasonable notice of the visit of such officers has been given to the contractor, either himself be present to</p>

receive orders and instructions or have a responsible agent duly accredited in writing, present for that purpose.

Orders given to the Contractor's agent shall be considered to have the same force as if they had been given to the contractor himself. If it shall appear to the Engineer-in-charge or his authorized subordinates in charge of the work or his subordinate officers or the officers of the organization engaged by the AIESL for quality Assurance or to the Chief Technical Examiner or his subordinate officers, that any work has been executed with unsound, imperfect, or unskillful workmanship, or with materials or articles provided by him for the execution of the work which are unsound or of a quality inferior to that contracted or otherwise not in accordance with the contract, the contractor shall, on demand in writing which shall be made within twelve months of the completion of the work from the Engineer-in-Charge specifying the work, materials or articles complained of notwithstanding that the same may have been passed, certified and paid for forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own charge and cost. In the event of failing to do so within a period specified by the Engineer-in-Charge in his aforesaid demand, then the contractor shall be liable to pay compensation at the same rate as under the clause of the contract (for non-completion of the work in time) for this default. In such case the Engineer-in-Charge may not accept the item of work at the rates applicable under the contract but may accept such items at reduced rates during the preparation of on account bills or final bill if the item is so acceptable without detriment to the safety and utility of the item and the structure or he may reject the work outright without any payment and/or get it and other connected and incidental items rectified, or removed and re-executed at the risk and cost of the contractor. Decision of the Engineer-in- Charge to be conveyed in writing in respect of the same will be final and binding on the contractor.

  
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<b>Clause 17</b>		
<b>Contractor Liable for Damages, defects during maintenance period</b>		<p>If the contractor or his working people or servants shall break, deface, injure or destroy any part of building in which they may be working, or any building, road, road herb fence, enclosure, water pipe, cables, drains, electric or telephone post or wires, trees, grass or grassland, or cultivated ground contiguous to the premises on which the work or any part is being executed, or if any damage shall happen to the work while in progress, from any cause whatever or if any defect, shrinkage or other faults appear in the work during defect liability period, after a certificate final or otherwise of its completion shall have been given by the Engineer-in-charge as aforesaid arising out of defect or improper materials or workmanship the contractor shall upon receipt of a notice in writing on that behalf make the same good at his own expense or in default the Engineer-in-charge cause the same to be made good by other workmen and deduct the expense from any sums that may be due or at any time thereafter may become due to the contractor, or from his security deposit or the proceeds of sale thereof or of a sufficient portion thereof. The security deposit of the contractor shall not be refunded before the expiry of defect liability period, after the issue of the final certificate or otherwise, of completion of work, or till the final bill has been prepared and passed whichever is later.</p>
<b>Clause 18</b>		
<b>Contractor to Supply Tools &amp; Plants etc.</b>		<p>The contractor shall provide at his own cost all materials (except such special materials, if any, as may in accordance with the contract be supplied from the Engineer-in-charge's stores) machinery, tools &amp; plants as specified in Schedule F. in addition to this, appliances, implements, other plants, ladders, cordage, tackle, scaffolding and temporary works required for the proper execution of the work, whether original, altered or substituted and whether included in the specifications or other documents forming part of the contract or referred to in these conditions or not, or which may be necessary for the purpose of satisfying or complying with the requirements of the Engineer-in-charge as to any matter as to which under these conditions he is entitled to be satisfied, or which he is entitled to require together with carriage therefor to and from the work. The contractor shall also supply without charge the requisite number of persons with the means and materials necessary for the purpose of setting out works, and counting, weighing and assisting the measurement for examination at any time and from time to time of the work or materials. Failing his so-doing, the same may be provided by the Engineer-in-charge at the expense of the contractor and the expenses may be deducted from any money due to the contractor, under this contract or otherwise and/ or from his security deposit or the proceeds of sale thereof, or of a sufficient portion thereof.</p>
<b>Clause 19</b>		
<b>Labour laws to be complied by the Contractor</b>		<p>The contractor shall obtain a valid license under the contract labour (R&amp;A) Act,1970 and the Contract Labour (Regulation and Abolition) Central Rules, 1971,before the commencement of the work, and continue to have a valid license until the completion of the work. The contractor shall also abide by the provisions of the Child Labour (Prohibition and Regulation) Act, 1986. The contractor shall also comply with the provisions of the building and other construction workers (Regulation of Employment &amp; Conditions of Service) Act, 1996 and the building and other Construction Workers Welfare Cess Act, 1996. Any failure to fulfill these requirements shall attract the penal provisions of this contract arising out of the</p>

		resultant non execution of the work.
	<b>CLAUSE 19 A</b>	
		No labour below the age of fourteen years shall be employed on the work.
	<b>CLAUSE 19 B</b>	
	<b>Payment of wages</b>	<p>Payment of wages:</p> <p>v) The contractor shall comply with the provisions of the Payment of wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act 1970, or the modifications thereof or any other laws relating thereto and the rule made there under from time to time.</p> <p>vi) The contractor shall indemnify and keep indemnified AIESL against payments to be made under and for the observance of the laws aforesaid and the Labour Regulations without prejudice to his right to claim indemnity from his sub-contractors.</p> <p>vii) The laws aforesaid shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of this contract.</p> <p>viii) Whatever is the minimum wage for the time being, or if the wage payable is higher than such wage, such wage shall be paid by the contractor to the workmen directly without the intervention of Jamadar and that Jamadar shall not be entitled to deduct or recover any amount from the minimum wage payable to the workmen as and by way of commission or otherwise.</p> <p>The contractor shall ensure that no amount by way of commission or otherwise is deducted or recovered by the Jamadar from the wage of workmen.</p>
	<b>CLAUSE 19 C</b>	In respect of all labour directly or indirectly employed in the work for the performance of the contractor's part of this contract, the contractor shall at his own expense arrange for the safety provisions as per Safety Code framed from time to time and shall at his own expense provide for all facilities in connection therewith.
	<b>Clause 19 D</b>	In respect of all labour directly or indirectly employed in the works for the performance of the contractor's part of this contract, the contractor shall comply with or cause to be complied with all the rules framed from time to time for the protection of health and sanitary arrangements for workers employed by the contractor.

<b>Clause 19 E</b>		The Engineer-in-Charge may require the contractor to dismiss or remove from the site of the work any person or persons in the contractors' employment upon the work who may be incompetent or misconduct himself and the contractor shall forthwith comply with such requirements. In respect of maintenance/repair or renovation works etc. where the labour have easy access to the individual work premises, the contractor shall issue identity cards to the laborers, whether temporary or permanent, and he shall be responsible for any untoward action on the part of such labour.
<b>Clause 19 F</b>		It shall be the responsibility of the contractor to see that the building under construction is not occupied by anybody unauthorized during construction and is handed over to the Engineer-in-Charge with vacant possession of complete building. If such building though building is occupied illegally, then the Engineer-in-Charge shall have the option to refuse to accept the said building/buildings in that position. Any delay in acceptance on this account will be treated as the delay in completion and for such delay, a levy upto 5% of tendered value of work may be imposed by AIESL whose decision shall be final both with regard to the justification and quantum and be binding on the contractor.
<b>Clause 19 G</b>		<b>Employment of skilled / semiskilled workers</b> The contractor shall at all stages of work deploy skilled / semi-skilled tradesmen who are qualified and possess certificate in particular trade from CPWD Training Institute / Industrial Training Institute / National Institution of Construction Management and research (NICMAR) National Academy of Construction, CIDC or any similar reputed and recognized Institute managed / certified by State / Central Government. The number of such qualified tradesmen shall not be less than 20% of total skilled / semi-skilled workers required in each trade at any stage of work. The contractor shall submit number of man days required in respect of each trade, its scheduling and the list of qualified tradesmen along with requisite certificate from recognized Institute to Engineer in charge for approval. Notwithstanding such approval, if the tradesmen are found to have inadequate skill to execute the work of respective trade, the contractor shall substitute such Tradesmen within two days of written notice from Engineer –In-Charge.

<b>Clause 19 H</b>		
<b>Contribution of EPF and ESI</b>		The ESI and EPF contributions on the part of employer in respect of this contract shall be paid by the contractor.
<b>Clause 19 I</b>		
<b>Compliance of NGT/Govt. guidelines</b>		The contractor is required to follow latest guidelines by NGT or any other statutory body/Govt. department/Pollution Control Boards etc. at the construction site and any violation of such guidelines will be in his account.

<b>Clause 20</b>		
<b>Minimum Wages Act to be Complied with</b>		The contractor shall comply with all the provision of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970 amended from time to time and rules framed there under and other labour laws affecting contract labour that may be brought into force from time to time.
<b>Clause 21</b>		
<b>Work not to be sublet. Action in case of insolvency</b>		The contract shall not be assigned or sublet without the written approval of Engineer-In-charge. And if the contractor shall assign or sublet his contact, or attempt to do so, or become insolvent or commence any insolvency proceedings or make any composition with his creditors or attempt to do so, or if any bribe, gratuity, gift, loan, perquisite, reward or advantage pecuniary or otherwise, shall either directly or indirectly, be given, promised or offered by the contractor, or any of his servants or agent to any public officer or person in the employment of AIESL in any way relating to his office or employment, or if any such officer or person shall become in any way

		directly or indirectly interested in the contract, the Engineers in Charge on behalf of the AIESL shall have power to adopt the course specified hereof in the interest of AIESL and in the event of such course being adopted, the consequences specified in the said Clause shall ensue.
<b>Clause 22</b>		
		All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the use of AIESL without reference to the actual loss or damage sustained and whether or not any damage shall have been sustained.
<b>Clause 23</b>		
	<b>Change in firm's constitution to be intimated</b>	Where the contractor is a partnership firm, the previous approval in writing of the Engineer-In-charge shall be obtained before any change is made in the constitution of the firm. Where the contractor is an individual or a Hindu undivided family business concern such approval as aforesaid shall likewise be obtained before the contractor enters into any partnership agreement where under the partnership firm would have the right to carry out the works hereby undertaken by the contractor. If previous approval as aforesaid is not obtained, the contract shall be deemed to have been assigned in contravention of Clause hereof and the same action may be taken, and the same consequences shall ensue as provided in the said Clause.
<b>Clause 24</b>		All works to be executed under the contract shall be executed under the direction and subject to the approval in all respects of the Engineer-In-charge who shall be entitled to direct at what point or points and in what manner they are to be commenced, and from time to time carried on.

  
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<b>Clause 25</b>	<b>Dispute Resolution Mechanism and Arbitration</b>	<p>All disputes or differences which may arise out of or in connection with or incidental to the Agreement(s) including any dispute or difference regarding the interpretation of terms and conditions of any clause(s) thereof shall be dealt with as provided hereinafter:</p> <p>i) <b>Through Mediation:</b>  All dispute(s), at the first instance, shall be referred to the Mediation Committee of Independent Experts (MCIE) or individual mediator for mediation as per AIESL Mediation Policy and applicable laws. All cost of mediation shall be borne equally by the parties. In case either party withdraws from the Mediation, or the dispute(s) is not resolved within 120 days of reference to the Mediation, then the aggrieved party may invoke arbitration through sub para (ii) within 30 days from the date of receipt of Partial Settlement Agreement or Failure Report.</p> <p>ii) <b>Adjudication through Arbitration:</b> In case no final settlement has been arrived at between the parties after mediation or partially settled as per sub-Para (i) above, the unresolved dispute(s), on invocation by the aggrieved party shall be referred for adjudication by arbitration.</p> <p>iii) a) When the amount involved is above 25 crores, adjudication shall be made by Arbitral Tribunal comprising of 03 arbitrators. Each party to appoint one arbitrator and the two appointed arbitrators shall appoint the Presiding Arbitrator.</p> <p>b) When the amount involved is Rs. 25 Crores and below shall be referred to a Sole Arbitrator to be appointed by Chairman/Member, AIESL, after obtaining consent of the other party, as per format annexed at Annexure 'A'</p> <p style="text-align: center;">AIESL</p> <p>Unless the contract has already been repudiated or terminated, the parties shall, in every case, continue to proceed to perform their respective obligations under the agreement.</p> <p>Arbitration proceedings shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996, as amended from time to time. Fee payable to the Arbitrator(s) shall be as per Schedule-IV of the Arbitration &amp; Conciliation Act, 1996 and shall be borne by both the parties equally.</p>
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<b>Clause 26</b>		
	<b>Contractor Indemnify AIESL against Patent Rights</b>	<p>The contractor shall fully indemnify and keep indemnified the Chairman AIESL indemnify against any action, claim or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay and royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claims made under or action brought against AIESL in respect of any such matters as aforesaid, the contractor shall be immediately notified thereof and the contractor shall be at liberty, at his own expense, to settle any dispute or to conduct any litigation that may arise there from, provided that the contractor shall not be liable to indemnify the AIESL if the infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by the Engineer-in-Charge in this behalf.</p>

<b>Clause 27</b>	
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	Action where no specifications are specified	<p>In the case of any class of work for which there is no such specifications as referred to in Clause, such work shall be carried out in accordance with the CPWD/Bureau of Indian Standards Specifications. In case there are no such specifications in CPWD / Bureau of Indian Standards, the work shall be carried out as per manufacturers' specifications.</p> <p>In case there are no such specifications as required above, the work shall be carried out in all respects in accordance with the instructions and requirements of the Engineer-in-Charge.</p>
<b>Clause 28</b>		
<b>With-holding and lien in respect of sums due from contractor</b>		<p>i) Whenever any claims for payment of a sum of money arises out of or under the contract or against the contractor, the AIESL shall be entitled to withhold and also have a lien to retain such sum or sums in whole or in part from the security, if any deposited by the contractor and for the purpose aforesaid, the Engineer-in-Charge or the AIESL shall be entitled to withhold the security deposit if any, furnished as the case may be and also have a lien over the same pending finalization or adjudication of any such claim. In the event of the security being insufficient to cover the claimed amount or amounts or if no security has been taken from the contractor, the Engineer-in-Charge or the AIESL shall be entitled to withhold and have lien to retain to the extent of such claimed amount or amounts referred to above from any sum or sums found payable or which may at any time thereafter become payable to the contractor under the same contract or any other contract with the Engineer-in-Charge of the AIESL or any contracting person through the Engineer-in-Charge pending finalization of adjudication of any such claim. It is an agreed term of the contract that the sum of money or moneys so withheld or retained under the lien referred to above by the Engineer-in-Charge or AIESL will be kept withheld or retained as such by the Engineer-in-Charge or AIESL till the claim arising out of or under the contract is determined by the arbitrator. (if the contract is governed by the arbitration clause) or by the competent court, as the case may be and that the contractor will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention under the lien referred to above and duly notified as such to the contractor. For the purpose of this clause, where the contractor is a partnership firm or a limited company, the Engineer-in-Charge or the AIESL shall be entitled to withhold and also have a lien to retain towards such claimed amount or amounts in whole or in part from any sum found payable to any partner/limited company as the case may be, whether in his individual capacity or otherwise.</p> <p>ii) AIESL shall have the right to cause an audit and technical examination of the works and the final bills of the contractor including all supporting vouchers, abstract, etc., to be made after payment of the final bill and if as a result of such audit and technical examination any sum is found to have been overpaid in respect of any work done by contractor under the contract or any work claimed to have been done by him under the contract and found not to have been executed, the contractor shall be liable to refund the amount of over payment and it shall be lawful for AIESL to recover the same from him in the manner prescribed in sub-clause (i) of this clause or in any other manner legally permissible; and if it is found that the contractor was paid less than what was due to him under the contract in respect of any work executed by him under it, the amount of such under payment shall be duly paid by AIESL to the contractor, without any interest thereon whatsoever.</p> <p>Provided that AIESL shall not be entitled to recover any overpaid sum, nor shall the contractor be entitled to payment of any sum paid short where such payment has been agreed upon between the AIESL on the one hand and the contractor on the other under any term of the contract permitting payment for work after assessment.</p>
<b>Clause 29</b>	<b>Unfiltered water supply</b>	<p>The contractor(s) shall make his/their own arrangements for water required for the work and nothing extra will be paid for the same.</p> <p>This will be subject to the following conditions.</p> <p>i) That the water used by the contractor (s) shall be fit for construction purposes to the satisfaction of the Engineer-in-Charge.</p> <p>ii) The Engineer-in-Charge shall make alternative arrangements for supply of water at the risk and cost of contractor (s) if the arrangements made by the contractor (s) for procurement of water are in the opinion of the Engineer-in-Charge, unsatisfactory.</p>
<b>Clause 30</b>		

	<b>Departmental Electricity and Water supply, if available</b>	<p>Electricity and Water if available may be supplied to the contractor by the department subject to the following conditions:-</p> <ul style="list-style-type: none"> <li>i. Electricity and Water charges @1% shall be recovered on gross amount of the work done.</li> <li>ii. The contractor(s) shall make his/their own arrangement of water/electricity connection and laying of pipelines from existing main of source of supply.</li> <li>iii. The Department do not guarantee to maintain uninterrupted supply of electricity/water, and it will be incumbent on the contractor (s) to make alternative arrangements at his/their own cost in the event of any temporary break down so that the progress of his/their work is not held up for want of water/electricity. No claim of damage or refund of water charges will be entertained on account of such break down.</li> </ul>
<b>Clause 31</b>		
<b>Return of Surplus materials</b>		<p>Notwithstanding anything contained to the contrary in this contract, where any materials for the execution of the contract are procured with the assistance of AIESL either by issue from AIESL stocks or purchase made under orders or permits or licenses issued by AIESL, the contractor shall hold the said materials economically and solely for the purpose of the contract and not dispose of them without the written permission of the AIESL and return, if required by the engineer-in-Charge, all surplus or unserviceable materials that may be left with him after the completion of the contract or at its termination for any reason whatsoever on being paid or credited such prices as the Engineer-in-Charge shall determine having due regard to the condition of the materials. The price allowed to the contractor, however, shall not exceed the amount charged to him excluding the element of storage charges. The decision of the Engineer-in-Charge shall be final and conclusive. In the event of breach of the aforesaid condition, the contractor shall in addition to throwing himself open to action for contravention of the terms of the license or permit and / or for criminal breach of trust, be liable to AIESL for all moneys, advantages or profits resulting or which in the usual course would have resulted to him by reason of such breach.</p>
<b>Clause 32</b>		
	<b>Employment of Technical staff and Employees</b>	<p>Contractors Superintendence, Supervision, Technical staff &amp; Employees.</p> <p>i) The contractor shall provide all necessary superintendence during execution of the work and all along thereafter as may be necessary for proper fulfilling of the obligations under the contract.</p> <p>The Contractor shall depute at site minimum one graduate civil engineer with minimum 05 years' experience and one diploma engineer for services with 05 year's minimum experience and will also depute sufficient number of supervisors having similar work experience.</p> <p>The Contractor shall immediately after receiving letter of acceptance of the tender and before commencement of the work, intimate in writing to the Engineer-in-Charge, the name (s), qualifications experience, age, address (s) and other particulars along with certificates, of the principal technical representative to be charge of the work and other technical representative (s) who will be supervising the work. Minimum requirement of such technical representative (s) and their qualifications and experience shall not be lower than specified. The Engineer-in-Charge shall within 3 days of receipt of such communication intimate in writing his approval or otherwise of such a representative (s) to the contractor. Any such approval may at any time be withdrawn and in case of such withdrawal, the contractor shall appoint another such representative (s) according to the provisions of this clause. Decision of AIESL shall be final and binding on the contractor in this respect. Such a principal technical representative and other technical representative (s) shall be appointed by the contractor soon after receipt of the approval from Engineer-in-charge and shall be available at site before start of work. All the provisions applicable to the principal technical representative under the clause will also be applicable to other technical representative(s). The principal technical representative and other technical representative (s) shall be present at the site of work</p>

		<p>for supervision at all times when any construction activity is in progress and also present himself/themselves, as required</p> <p>to the Engineer-in- Charge and / or his designated representative to take instructions.</p> <p>Instructions given to the principal technical representative or other technical representative (s) shall be deemed to have the same force as if these have been given to the contractor.</p> <p>The Principal Technical Representative and other technical representatives shall be actually available at site fully during all stages of execution work, during recording/checking test checking of measurements of works whenever so required by the Engineer-in-Charge and shall also note down instructions conveyed by the Engineer-in-Charge or his designated representative (s) and shall affix his / their signature in token of noting down the instructions and in token of acceptance of measurements/checked measurements/test checked measurements. The representative (s) shall not look after any other work.</p> <p>Substitutes, duly approved by engineer – in-Charge of the work in similar manner as aforesaid shall be provided in event of absence of any of the representative (s) by more than two days. If the Engineer-in-Charge, whose decision in this respect is final and binding on the contractor, is convinced that no such technical representative (s) is/are effectively appointed or is / are effectively attending or fulfilling the provision of this clause, a recovery (non- refundable) shall be effected from the contractor and the decision of the Engineer-in- Charge in respect of measurements recorded checked/test checked shall be final and binding on the contractor. Further if the contractor fails to appoint suitable technical Principal technical representative and or other technical representative (s) and if such appointed persons are not effectively present or are absent by more than two days without duly approved substitute or do not discharge their responsibility satisfactorily, the Engineer-in-Charge shall have full powers to suspend the execution of the work until such date as suitable other technical representative (s) is/are appointed and the contractor shall be held responsible for the delay so caused to the work.</p>
		<p>ii) The contractor shall provide and employ on the site only such technical assistants as are skilled and experienced in their respective fields and such foremen and supervisory staff as are competent to give proper supervision to the work. The contractor shall provide and employ skilled, semi-skilled and unskilled labour as is necessary for proper and timely execution of the work. The Engineer-in-Charge shall be at liberty to object to and require the contractor to remove from the work any person who in his opinion misconducts himself or is incompetent or negligent in the performance of his duties or whose employment is otherwise considered by the Engineer-in Charge to be undesirable. Such person shall not be employed again at works site without the written permission of the Engineer-in-Charge and the persons so removed shall be replaced as soon as possible by competent substitutes.</p> <p>iii) The contractor shall not change his engineer/supervisory staff after approval of the Engineer-In-Charge. If Contractor wants to replace any of his staff due to unavoidable circumstances, he will seek permission of Engineer-In-Charge indicating reasons for such change, qualification and experience of the alternative employee suggested by him. The qualification and experience of the alternative staff shall not be inferior to the person employed earlier.</p>

### Clause 33

	<p><b>Levy / Taxes / Royalty / Land License fee payable</b></p> <ol style="list-style-type: none"> <li><b>Taxes:</b> <ol style="list-style-type: none"> <li>Rates to be quoted by the parties should be inclusive of all taxes, duties, CESS, fee, royalty charges etc. levied under any statute but exclusive of GST for all the items.</li> </ol> </li> </ol>
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	<b>by Contractor</b>	
<b>Clause 34</b>		
	<b>Reimbursement of levy / taxes</b>	Rates to be quoted by the parties should be inclusive of all taxes, duties, CESS, fee, royalty charges etc. levied under any statute applicable.
<b>Clause 35</b>	<b>Termination of contract on death of contractor</b>	Without prejudice to any of the rights or remedies under this contract, if the contractor dies, the Engineer-In-charge on behalf of AIESL shall have the option of terminating the contract without compensation to the contractor.

<b>Clause 36</b>		
	<b>Code of Integrity</b>	<p>No official of AIESL or a bidder shall act in contravention of the codes which includes Prohibition of</p> <ul style="list-style-type: none"> <li>a) Making offer, solicitation or acceptance of bribe, reward or gift or any material benefit, either directly or indirectly, in exchange for an unfair advantage in the procurement process or to otherwise influence the procurement process.</li> <li>b) Any omission, or misrepresentation that may mislead or attempt to mislead so that financial or other benefit may be obtained or an obligation avoided.</li> <li>c) Any collusion, bid rigging or anticompetitive behavior that may impair the transparency, fairness and the progress of the procurement process.</li> <li>d) Improper use of information provided by the procuring entity to the bidder with an intent to gain unfair advantage in the procurement process or for personal gain.</li> <li>e) Any financial or business transactions between the bidder and any official of the procuring entity related to tender or execution process of contract, which can affect the decision of the procuring entity directly or indirectly.</li> <li>f) Any coercion or any threat to impair or harm, directly or indirectly, any party or its property to influence the procurement process.</li> <li>g) Obstruction of any investigation or auditing of a procurement process.</li> <li>h) Making false declaration or providing false information for participation in a tender process or to secure a contract.</li> <li>ii) Disclosure of conflict of interest.</li> <li>iii) Disclosure by the bidder of any previous transgressions made in respect of the provisions of sub-clause (i) with any entity in any country during the last three years or of being debarred by any other procuring entity.</li> </ul>
<b>Clause 37</b>		
	<b>Release of Security Deposit</b>	Security Deposit of the work shall not be refunded if labour complaint has been received from the Labour Officer till the due date of its payment. If a labour complaint is received during this period, the Engineer-in-Charge shall, after issue of notice in this regard to the contractor, withheld the amount required to settle the complaint from his security deposit and refund the balance amount after Defect Liability Period.
<b>Clause 38</b>		
	<b>Contractor's Liability and Insurance of Works</b>	<ul style="list-style-type: none"> <li>i) From commencement to completion of the Works, the Contractor shall take full responsibility for the case thereof and for taking precautions to prevent loss or damage and to minimize loss or damage to the greatest extent possible and shall be liable for any damage or loss that may happen to the Works or any part thereof</li> </ul>

		<p>from any cause whatsoever and shall at his own cost repair and make good the same condition and in conformity in every respect with the requirements of the Contract and instructions of the Engineer-in-Charge.</p> <ul style="list-style-type: none"> <li>ii) The contractor shall take suitable insurance policy to cover the loss of materials and labor. The insurance policy equal to the amount of the contract shall be in the joint name of AIESL and the contractor.</li> <li>iii) In the event of any loss or damage to the Works or any Part thereof or to any T &amp; P, to any material or articles at the Site from any of the Excepted Risks the following provisions shall have effect: <ul style="list-style-type: none"> <li>a. The Contractor shall, as may be directed in writing by the Engineer-in-Charge, remove from the Site any debris and so much of the works as shall have been damaged, taking to AIESL's store such AIESL's T &amp; P, articles and/or materials as may be directed;</li> <li>b. The contractor shall, as may be directed in writing by the Engineer-in-Charge, proceed with the erection and completion of the Works under and in accordance with the provisions and Conditions of the Contract and</li> </ul> </li> <li>iv) Provided always that the Contractor shall not be entitled to payment under the above provisions in respect of so much loss or damage as has been occasioned by any failure on his part to perform his obligation under the Contract or not taking precautions to prevent loss or damage or minimize the amount of such loss or damage.</li> <li>v) Without limiting its obligations and responsibilities under other clauses of General Conditions of Contracts ,the contractor at his own cost shall insure ,in the joint name of AIESL and the contractor, against all losses or damages from whatever cause, arising (other than the accepted risks) for which he is responsible under the terms of the contract and in such manner that the AIESL and the contractor are covered during the period of construction of works and any loss or damage occasioned by the contractor in the course of any operation carried out by them for the purpose of complying with its obligations of defects liability clause hereof; <ul style="list-style-type: none"> <li>a. All works including temporary works to their full value, executed from time to time.</li> <li>b. The construction materials and equipment's to their full value brought on to the site by the contractor.</li> </ul> </li> <li>vi) The Contractor shall indemnify and keep indemnified AIESL against all losses and claims for injuries or damage to any persons or any property whatsoever which may arise out of or in consequence of the construction and maintenance of Works and against all claims, demands proceedings, damage costs, charges and expenses whatsoever in respect of or in relation thereto.</li> <li>vii) Before commencing execution of the work, the Contractor shall, without in any way limiting his obligations and responsibilities under this condition, insure at his own cost against any damage, loss or injury which may occur to any AIESL property, or to any person for at least the minimum amount of Rs. 1.00 lakh with unlimited number of occurrences (including any employee of AIESL) by or arising out of carrying out of the Contract.</li> <li>viii) The contractor shall at all times indemnify AIESL against all claims, damages or compensation under the provisions of Payment or Wages Act, 1936, Minimum Wages Act, 1948, Employer's Liability Act, 1938, the Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947 and the Maternity Benefit Act, 1961 or any modifications thereof or any other law relating thereto and rules made there under from time to time or as a consequence of any accident or injury to any workman or other persons in or about the Works, whether in the employment of the Contractor or not, his agents or servants, and also against all costs, charges and expenses of any suit, action or proceedings arising out of such accident or injury and against all sum</li> </ul>
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		<p>or sums which may with the consent of the Contractor be paid to compromise or compound any claim. Without limiting his obligations and liabilities as above provided, the Contractor shall insure against all claims, damages or compensation payable under the Workmen's Compensation Act, 1923 or any modification thereof or any other law relating thereto.</p> <p>viii) All insurance mentioned above shall be effected by a company approved by the Insurance Regulatory Authority of India.</p> <p>ix) The aforesaid insurance policy / policies shall provide that they shall not be cancelled till the Engineer-in-Charge has agreed to their cancellation in writing.</p> <p>x) The Contractor shall prove to the Engineer-in-Charge from time to time that he has taken out all the insurance policies referred to above and has paid the necessary premiums for keeping the policies alive till expiry of the Defects Liability Period. A self-certified copy of such policies is required to be submitted to the Engineer-in-charge.</p> <p>xi) The Contractor shall ensure that similar insurance policies are taken out by his subcontractors (if any) and shall be responsible for any claims or losses to AIESL resulting from their failure to obtain adequate insurance protection in connection therewith. The contractor shall produce or cause to be produced by his subcontractor (if any) as the case may be, the relevant policy or policies and premiums receipts as and when required by the Engineer-in-Charge. Self-certified copies of such policies are required to be submitted to the Engineer-in-charge.</p> <p>xii) If the Contractor and/or his subcontractor (if any) shall fail to effect and keep in force the insurance referred to above or any other insurance which he/they may be required to effect under the terms of the Contract then and in any such case AIESL may, without being bound to, effect and keep in force any such insurance and pay such premium or premiums as may be necessary for that purpose and from time to time deduct the amount so paid by AIESL from any moneys due or which may become due to the Contractor or recover the same as a debt due from the Contractor.</p> <p>xiii) The contractor shall take Contractor All Risk (CAR) Policy in joint name of AIESL and Contractor for full tendered value along with third party liability (max of 10% of tendered value or as applicable as per Insurance Regulatory authority of India) then there is no requirement for taking separate insurance by sub-contractors.</p> <p>However, workmen compensation policy is required to be taken separately by main contractor and sub-contractor for workers employed by them.</p>
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**SAFETY CODE**

1. Suitable Scaffolds should be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short period work as can be done safely from ladders. When a ladder is used, an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well suitable footholds and hand-hold shall be provided on the ladder and the ladder shall be given an inclination not steeper than  $\frac{1}{4}$  to 1 ( $\frac{1}{4}$  horizontal and 1 vertical).
2. Scaffolding of staging more than 3.6m (12ft.) above the ground or floor, swung or suspended from an overhead support or erected with stationary support shall have a guard rail properly attached or bolted, braced and otherwise secured at least 90 cm. (3ft.) high above the floor or platform of such scaffolding on staging and extending along the entire length of the outside and ends thereof with only such opening as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
3. Working platforms, gangways and stairways should be so constructed that they should not sag unduly or unequally, and if the height of the platform or the gangway or the stairway is more than 3.6 m (12ft.) above ground level or floor level, they should be closely boarded, should have adequate width and should be suitably fastened as described in (2) above.
4. Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of person or materials by providing suitable fencing or railing whose minimum height shall be 90 cm.(3ft.).
5. Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9m. (30ft.) in length while the width between side rails in rung ladder shall in no case be less than 29 cm. (11  $\frac{1}{2}$  ") for ladder upto and including 3m. (10ft.) in length. For long ladders, this width should be increased at least  $\frac{1}{4}$ " for each additional 30cm. (1 foot) of length. Uniform step spacing of not more than 30cm shall be kept. Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the site or work shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The contractor shall provide all necessary fencing and lights to protect the public from accident and shall be bound to bear the expenses of defence of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damages and cost which may be awarded in any such suit, action or proceedings to any such person on which may, with the consent of the contractor, be paid to compensate any claim by any such person.
  - a) Excavation and Trenching – All trenches 1.2 m. (4ft.) or more in depth, shall at all times be supplied with at least one ladder for each 30m. (100ft.) in length or fraction thereof, Ladder shall extend from bottom of the Trench to at least 90cm (3fts) above the surface of the ground. The side of the trenches which are 1.5 m. (5 ft.) or more in depth shall be stepped back to give suitable slope or securely held by timber bracing, so as to avoid the danger of sides collapsing. The excavated material shall not be placed within 1.5 m. (5 ft.) of the edges of the trench or half of the depth of the trench whichever is more. Cutting shall be done from top to bottom. Under no circumstances, undermining or undercutting shall be done.

**Safety Measures for digging bore holes :-**

- i) If the bore well is successful, it should be safely capped to avoid caving and collapse of the bore well. The failed and the abandoned ones should be completely refilled to avoid caving and collapse.
- ii) During drilling, Sign boards should be erected near the site with the address of the drilling contractor and the Engineer-in-charge of the work:
- iii) Suitable fencing should be erected around the well during the drilling and after the installation of the rig on the point of drilling, flags shall be put 50 Mtr all around the point of drilling to avoid entry of people/animals.

- iv) After drilling the bore well, a cement platform (0.50 Mtr x 0.50 Mtr x 1.20 Mtr) 0.60 Mtr above ground level and 0.60 Mtr below ground level should be constructed around the well casing.
- v) After the completion of the bore well, the contractor should cap the bore well properly by welding steel plate, cover the bore well with the drilled wet soil and fix thorny shrubs over the soil. This should be done even while repairing the pump; After the bore well is drilled the entire site should be brought to the ground level.

6. Demolition:— Before any demolition work is commenced and also during the progress of the work,

- i) All roads and open areas adjacent to the work site shall either be closed or suitably protected.
- ii) No electric cable or apparatus which is liable to be a source of danger or a cable or apparatus used by the operator shall remain electrically charged.
- iii) All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris or materials as to render it unsafe.

7. All necessary personal safety equipment as considered adequate by the Engineer-in-Charge should be kept available for the use of the person employed on the site and maintained in a condition suitable for immediate use, and the contractor should take adequate steps to ensure proper use of equipment by those concerned. The following safety equipment shall invariably be provided.

- i) Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective goggles.
- ii) Those engaged in white washing and mixing or stacking of cement bags or any material which is injurious to the eyes, shall be provided with protective goggles.
- iii) Those engaged in welding works shall be provided with welder's protective eye-shields.
- iv) Stone breaker shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
- v) When workers are employed in sewers and manholes, which are in active use, the contractors shall ensure that the manhole covers are opened and ventilated at least for an hour before the workers are allowed to get into the manholes, and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public. In addition, the contractor shall ensure that the following safety measures are adhered to:-
  - a) Entry for workers into the line shall not be allowed except under supervision of the Sr. Superintendent (Engg.) or any other higher officer.
  - b) At least 5 to 6 manholes upstream and downstream should be kept open for at least 2 to 3 hours before any man is allowed to enter into the manhole for working inside.
  - c) Before entry, presence of toxic gases should be tested by inserting wet lead acetate paper which changes colour in the presence of such gases and gives indication of their presence.
  - d) Presence of Oxygen should be verified by lowering a detector lamp into the manhole. In case, no Oxygen is found inside the sewer line, workers should be sent only with oxygen kit.
  - e) Safety belt with rope should be provided to the workers. While working inside the manholes, such rope should be handled by two men standing outside to enable him to be pulled out during emergency.
  - f) The area should be barricaded or cordoned off by suitable means to avoid mishaps of any kind. Proper warning signs should be displayed for the safety of the public whenever cleaning works are undertaken during night or day.
  - g) No smoking or open flames shall be allowed near the blocked manhole being cleaned.
  - h) The malba obtained on account of cleaning of blocked manholes and sewer lines should be immediately removed to avoid accidents on account of slippery nature of the malba.
  - i) Workers should not be allowed to work inside the manhole continuously. He should be given rest intermittently. The Engineer-in-Charge may decide the time upto which a worker may be allowed to work continuously inside the manhole.

- j) Gas masks with Oxygen Cylinder should be kept at site for use in emergency.
- k) Air-blowers should be used for flow of fresh air through the manholes. Whenever called for, portable air blowers are recommended for ventilating the manholes. The Motors for these shall be vapour proof and of totally enclosed type. Non-sparking gas engines also could be used but they should be placed at least 2 meters away from the opening and on the leeward side protected from wind so that they will not be a source of friction on any inflammable gas that might be present.

- l) The workers engaged for cleaning the manholes / sewers should be properly trained before allowing working in the manhole.
- m) The workers shall be provided with Gumboots or non-sparking shoes bump helmets and gloves, non-sparking tools safety lights and gas masks and portable air blowers (when necessary). They must be supplied with barrier cream for anointing the limbs before working inside the sewer lines.
- n) Workmen descending a manhole shall try each ladder stop or rung carefully before putting his full weight on it to guard against insecure fastening due to corrosion of the rung fixed to manhole well.
- o) If a man has received a physical injury, he should be brought out of the sewer immediately and adequate medical aid should be provided to him.
- p) The extents to which these precautions are to be taken depend on individual situation but the decision of the Engineer-in-Charge regarding the steps to be taken in this regard in an individual case will be final.
- vi) The Contractor shall not employ men and women below the age of 18 years on the work of painting with products containing lead in any form. Wherever men above the age of 18 are employed on the work of lead painting, the following precaution should be taken:-
  - a) No paint containing lead or lead products shall be used except in the form of paste or readymade paint.
  - b) Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or a surface having lead paint is dry rubbed and scrapped.
  - c) Overall, shall be supplied by the contractors to the workmen and adequate facilities shall be provided to enable the working painters to wash during and on the cessation of work.

8. The Contractor shall not employ women and men below the age of 18 on the work of painting with product containing lead in any form, wherever men above the age of 18 are employed on the work of lead painting, the following principles must be observed for such use:

- i) White lead, sulphate of lead or product containing this pigment, shall not be used in painting operation except in the form of pastes or paint ready for use.
- ii) Measures shall be taken, wherever required in order to prevent danger arising from the application of paint in the form of spray.
- iii) Measures shall be taken, wherever practicable, to prevent danger arising out of from dust caused by dry rubbing down and scraping.
- iv) Adequate facilities shall be provided to enable working painters to wash during and on cessation of work.
- v) Overall, shall be worn by working painters during the whole of working period.
- vi) Suitable arrangement shall be made to prevent clothing put off during working hours being spoiled by painting materials.
- vii) Cases of lead poisoning and suspected lead poisoning shall be notified and shall be subsequently verified by medical agency appointed by AIESL.
- viii) AIESL may require, when necessary medical examination of workers.
- ix) Instructions with regard to special hygienic precautions to be taken in the painting trade shall be distributed to working painters.

9. When the work is done near any place where there is risk of drowning, all necessary equipment's should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision should be made for prompt first aid treatment of all injuries likely to be obtained during the course of the work.

10. Use of hoisting machines and tackle including their attachments, anchorage and support shall conform to the following standards or conditions:
  - i) a) These shall be of good mechanical construction, sound materials and adequate strength and free from patent defects and shall be kept repaired and in good working order.  
b) Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength, and free from patent defects.
  - ii) Every crane driver or hoisting appliance operator shall be properly qualified and no person under the age of 21 years should be in charge of any hoisting machine including any scaffolding winch or give signals to operator.
  - iii) In case of every hoisting machine and of every chain ring hook, shackle swivel and pulley block used in hoisting or as means of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load. In case of a hoisting machine having a variable safe working load each safe working load and the condition under which it is applicable shall be clearly indicated. No part of any machine or any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.
  - iv) In case of departmental machines, the safe working load shall be notified by the Electrical Engineer-in-Charge. As regards contractor's machines the contractors shall notify the safe working load of the machine to the Engineer-in-Charge whenever he brings any machinery to site of work and get it verified by the electrical Engineer concerned.
11. Motors, gearing, transmission, electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safeguards. Hoisting appliances should be provided with such means as will reduce to the minimum the risk of accidental descent of the load. Adequate precautions should be taken to reduce to the minimum the risk of any part of a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energized, insulating mats, wearing apparel, such as gloves, sleeves and boots as may be necessary should be provided. The worker should not wear any rings, watches or carry keys or other materials which are good conductors of electricity.
12. All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near places of work.
13. These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place at work spot. The person responsible for compliance of the safety code shall be named therein by the contractor.
14. To ensure effective enforcement of the rules and regulations relating to safety precautions the arrangements made by the contractor shall be open to inspection by the Labour Officer or Engineer-in-Charge of the department or their representatives.
15. Notwithstanding the above clauses from (1) to (15), there is nothing in these to exempt the contractor from the operations of any other Act or Rules in force in the Republic of India.

#### **MODEL RULES FOR THE PROTECTION OF HEALTH AND SANITARY ARRANGEMENTS FOR WORKERS EMPLOYED BY AIESL OR ITS CONTRACTORS:**

1. **APPLICATION**

These rules shall apply to all buildings and construction works in AIESL in which twenty or more workers are ordinarily employed or are proposed to be employed in any day during the period during which the contract work is in progress.
2. **DEFINITION**

Work place means a place where twenty or more workers are ordinarily employed in connection with construction work on any day during the period during which the contract work is in progress.
3. **FIRST-AID FACILITIES**
  - i) At every work place, there shall be provided and maintained, so as to be easily accessible during working hours, first-aid boxes at the rate of not less than one box for 150 contract labour or part thereof ordinarily employed.
  - ii) The first-aid box shall be distinctly marked with a red cross on white background and shall contain the following

equipment.

- a) For work places in which the number of contract labour employed does not exceed 50. Each first –aid box shall contain the following equipment.
  - 1. 6 small, sterilized dressings
  - 2. 3 medium size sterilized dressings
  - 3. 3 large size sterilized dressings
  - 4. 3 large, sterilized burn dressings
  - 5. 1 (30 ml) bottle containing a two per cent alcoholic solution of iodine.
  - 6. 1 (30 ml) bottle containing Sal volatile having the dose and mode of administration indicated on the label.
  - 7. 1 snakebite lancet.
  - 8. 1 (30 gms) bottle of potassium permanganate crystals.
  - 9. 1 pair scissors.
  - 10. 1 copy of the first-aid leaflet issued by the Director General, Factory Advice Service and Labour Institute, Government of India
  - 11. 1 bottle containing 100 tablets (each of 5 gms) of aspirin
  - 12. Ointment for burns.
  - 13. A bottle of suitable surgical antiseptic solution.
- b) For work places in which the number of contract labour employed does not exceed 50 Each first –aid box shall contain the following equipment.
  - 1. 12 small sterilized dressings
  - 2. 6 medium size sterilized dressings
  - 3. 6 large size sterilized dressings
  - 4. 6 large sterilized burn dressings
  - 5. 6 (15 gms) packets sterilized cotton wools
  - 6. 1 (60 ml) bottle containing a two per cent alcoholic solution of iodine.
  - 7. 1 (60 ml) bottle containing salvolatile having the dose and mode of administration indicated on the label.
  - 8. 1 role of adhesive plaster
  - 9. 1 snakebite lancet.
  - 10. 1 (30 gms) bottle of potassium permanganate crystals.
  - 11. 1 pair scissors. copy of the first-aid leaflet issued by the Director General, Factory Advice Service and Labour Institute, Government of India
  - 12. 1 bottle containing 100 tablets (each of 5 gms) of aspirin.
  - 13. Ointment for burns.
  - 14. A bottle of suitable surgical antiseptic solution.

iii) Adequate arrangements shall be made for immediate recoupment of the equipment when necessary.

iv) Nothing except the prescribed contents shall be kept in the First-aid box.

v) The first-aid box shall be kept in charge of a responsible person who shall always be readily available during the working hours of the work place.

vi) A person in charge of the First-aid box shall be a person trained in First-aid treatment in the work places where the number of contract labour employed is 150 or more.

vii) In work places where the number of contract labour employed is 500 or more and hospital facilities are not available within easy distance from the works. First-aid posts shall be established and run by a trained compounder. The compounder shall be on duty and shall be available at all hours when the workers are at work.

viii) Where work places are situated in places which are not towns or cities, suitable motor transport shall be kept readily available to carry injured person or person suddenly taken ill to the nearest hospital.

#### 4. DRINKING WATER

- i) In every work place, there shall be provided and maintained at suitable places, easily accessible to labour, a sufficient supply of cold water fit for drinking.
- ii) Where drinking water is obtained from an intermittent public water supply, each work place shall be provided with storage where such drinking water shall be stored.

- iii) Every water supply or storage shall be at a distance of not less than 50 feet from any latrine drain or other source of pollution. Where water has to be drawn from an existing well which is within such proximity of latrine, drain or any other source of pollution, the well shall be properly chlorinated before water is drawn from it for drinking. All such wells shall be entirely closed in and be provided with a trap door which shall be dust and waterproof.
- iv) A reliable pump shall be fitted to each covered well; the trap door shall be kept locked and opened only for cleaning or inspection which shall be done at least once a month.

5. **WASHING FACILITIES**

- i) In every work place adequate and suitable facilities for washing shall be provided and maintained for the use of contract labour employed therein.
- ii) Separate and adequate cleaning facilities shall be provided for the use of male and female workers.
- iii) Such facilities shall be conveniently accessible and shall be kept in clean and hygienic condition.

6. **LATRINES AND URINALS**

- i) Latrines shall be provided in every work place on the following scale namely:
  - a) Where female are employed, there shall be at least one latrine for every 25 females.
  - b) Where males are employed, there shall be at least one latrine for every 25 males.
- ii) Provided that, where the number of males or females exceeds 100, it shall be sufficient if there is one latrine for 25 males or females as the case may be upto the first 100, and one for every 50 thereafter.
- iii) Every latrine shall be under cover and so partitioned off as to secure privacy and shall have a proper door and fastenings. construction of latrines: The inside walls shall be constructed of masonry or some suitable heat-resisting non-absorbent materials and shall be cement washed inside and outside at least once a year, Latrines shall not be of a standard lower than borehole system.
- iv) a) Where workers of both sexes are employed, there shall be displayed outside each block of latrine and urinal, a notice in the language understood by the majority of the workers "For Men only" or "For Women Only" as the case may be.
  - b) The notice shall also bear the figure of a man or of a woman, as the case may be.
- v) There shall be at least one urinal for male workers upto 50 and one for female workers upto fifty employed at a time, provided that where the number of male or female workmen, as the case may be exceeded 500, it shall be sufficient if there is one urinal for every 50 males or females upto the first 500 and one for every 100 or part thereafter.
- vi) a) The latrines and urinals shall be adequately lighted and shall be maintained in a clean and sanitary condition at all times.
  - b) Latrines and urinals other than those connected with a flush sewage system shall comply with the requirements of the Public Health Authorities.
- vii) Water shall be provided by means of tap or otherwise so as to be conveniently accessible in or near the latrines and urinals.
- viii) Disposal of excreta: Unless otherwise arranged for by the local sanitary authority, arrangements for proper disposal of excreta by incineration at the work place shall be made by means of a suitable incinerator. Alternately excreta may be disposed of by putting a layer of night soil at the bottom of a pucca tank prepared for the purpose and covering it with a 15 cm. Layer of waste or refuse and then covering it with a layer of earth for a fortnight (when it will turn to manure).
- ix) The contractor shall at his own expense, carry out all instructions issued to him by the Engineer in-Charge to effect proper disposal of night soil and other conservancy work in respect of the contractor's workmen or employees on the site. The contractor shall be responsible for payment of any charges which may be levied by Municipal or Cantonment AIESL for execution of such on his behalf.

7. **PROVISION OF SHELTER DURING REST**

At every place there shall be provided, free of cost, four suitable sheds, two for meals and the other two for rest separately for the use of men and women labour. The height of each shelter shall not be less than 3 meters (10 ft) from the floor level to the lowest part of the roof. These shall be kept clean and the space provided shall be on the basis of 0.6 sq.m. (6 sft) per head. Provided that the Engineer-in-Charge may permit subject to his satisfaction, a portion of the building under construction or other alternative accommodation to be used for the purpose.

## 8. CRECHES

- i) At every work place, at which 20 or more women workers are ordinarily employed, there shall be provided two rooms of reasonable dimensions for the use of their children under the age of six years. One room shall be used as a play room for the children and the other as their bedroom. The rooms shall be constructed with specifications as per clause 19 H
- (ii) a, b & c.
  - ii) The rooms shall be provided with suitable and sufficient openings for light and ventilation. There shall be adequate provision of sweepers to keep the places clean.
  - iii) The contractor shall supply adequate number of toys and games in the play room and sufficient number of cots and beddings in the bed room. The contractor shall provide one ayaa to look after the children in the crèche when the number of women workers does not exceed 50 and two when the number of women workers exceeds 50.
  - iv) The use of the rooms earmarked as crèches shall be restricted to children, their attendants and mothers of the children.

## 9. CANTEEN

- i) In every work place where the work regarding the employment of contractor labour is likely to continue for six months and where in contract labours numbering one hundred or more are ordinarily employed, an adequate canteen shall be provided by the contractor for the use of such contract labour.
- ii) The canteen shall be maintained by the contractor in an efficient manner.
- iii) The canteen shall consist of at least a dining hall, kitchen, store room, pantry and washing places separately for workers and utensils.
- iv) The canteen shall be sufficiently lighted at all times when any person has access to it.
- v) The floor shall be made of smooth and impervious materials and inside walls shall be lime washed or colour washed at least once in each year. Provided that the inside walls of the kitchen shall be lime washed every four months.
- vi) The premises of the canteen shall be maintained in a clean and sanitary condition.
- vii) Waste water shall be carried away in suitable covered drains and shall not be allowed to accumulate so as to cause a nuisance.
- viii) Suitable arrangements shall be made for the collection and disposal of garbage.
- ix) The dining hall shall accommodate at a time 30 per cent of the contract labour working at a time.
- x) The floor area of the dining hall, excluding the area occupied by the service counter and any furniture except tables and chairs shall not be less than one square meter (10 sq.ft) per diner to be accommodated as prescribed in sub-Rule (ix).
- xi) a) A portion of the dining hall and service counter shall be partitioned off and reserved for women workers in proportion to their number.  
b) Washing places for women shall be separate and screened to secure privacy.
- xii) Sufficient tables stools, chairs or benches shall be available for the number of diners to be accommodated as prescribed in Sub-Rule (ix).
- xiii) a) 1. There shall be provided and maintained sufficient utensils crockery, furniture and any other equipment necessary for the efficient running of the canteen.
  - 1. The furniture utensils and other equipment shall be maintained in a clean and hygienic condition.
  - b) 1. Suitable clean clothes for the employees serving in the canteen shall be provided and maintained.
  - 2. A service counter, if provided, shall have top of smooth and impervious material.
  - 3. Suitable facilities including an adequate supply of hot water shall be provided for the cleaning of utensils and equipment.
- xiv) The food stuffs and other items to be served in the canteen shall be in conformity with the normal habits of the contract labour.
- xv) The charges for food stuffs, beverages and any other items served in the canteen shall be based on 'No Profit, No loss' and shall be conspicuously displayed in the canteen.
  - a) In arriving at the price of foodstuffs, and other article served in the canteen, the following items shall not be taken into consideration as expenditure namely :-The rent of land and building.
  - b) The depreciation and maintenance charges for the building and equipment provided for the canteen.

- c) The cost of purchase, repairs and replacement of equipment including furniture, crockery, cutlery and utensils.
- d) The water charges and other charges incurred for lighting and ventilation.
- e) The interest and amounts spent on the provision and maintenance of equipment provided for the canteen.

xvii) The accounts pertaining to the canteen shall be audited once every 12 months by registered accountants and auditors.

10. **ANTI-MALARIAL PRECAUTIONS**

The contractor shall at his own expense conform to all anti-malarial instructions given to him by the Engineer-in-Charge including the filling up of any borrow pits which may have been dug by him.

11. The above rules shall be incorporated in the contracts and in notices inviting tenders and shall form an integral part of the contracts.

12. **AMENDMENTS**

AIESL may, from time to time, add to or amend these rules and issue directions - it may consider necessary for the purpose of removing any difficulty which may arise in the administration thereof.

**SPECIAL CONDITION OF CONTRACT  
(CIVIL WORKS)**

**1. GENERAL:**

- a) Special conditions of Contract shall be read in conjunction with General Conditions of Contract, Technical Specifications, Drawings and any other documents forming part of this contract wherever the context so requires.
- b) Notwithstanding the sub-division of the documents into these separate sections and volume every part shall be deemed to be supplementary to and complementary of every other part and shall be read with and into the CONTRACT so far as it may be practicable to do so.
- c) Where any portion of the General Condition of Contract is repugnant to rate variance with any provisions of the Special Conditions of Contract, unless a different intention appears, the provisions of the Special Conditions of Contract shall be deemed to over-ride the provisions of the General Conditions of Contract and shall to the extent of such repugnancy, or variations, prevail.
- d) Nothing extra shall be payable on account of various activities to be performed as per special conditions of contract except where so specified.

**2. COMPLETION SCHEDULE:**

- a) Contractor shall have to plan his construction programme and activities so as to complete the work in the stipulated period by working in multiple shifts. Accordingly, contractor to ensure adequate lighting arrangement as per site requirement.
- b) The period of completion given includes the time required for mobilization as well as testing, rectifications, if any, re-testing complete in all respects to the entire satisfaction of Engineer-In-charge.
- c) Contractor is expected to mobilize and deploy sufficient resources as per the agreed programme to achieve progress within the broad frame work of accepted methods of working and safety. Timely deployment of required machineries, equipment's, apparatus and instruments are to be treated as one of the sections of the work.
- d) No additional payment shall be made to the contractor for any multiple shifts of working or any other methods contemplated by him in his work schedule even though the time schedule is approved by the Engineer-In-charge.
- e) During the currency of the work the contractor is expected to adhere to the time schedule on mile stone and total completion and this adherence will be a part of Contractor's performance under the contract.
- f) The contractor will be fully responsible to submit Milestone Chart in consultation with Engineer-in-Charge to complete the work within stipulated time.

**3. MONITORING OF PROJECT:**

- a) The contractor shall submit the programme to complete the work within stipulated time schedule.
- b) The approval to the revised schedule resulting in a completion date beyond the stipulated date of completion shall not automatically amount to grant of extension of time to the Contractor.
- c) The extension of time (E.O.T.) shall be applied in prescribed Performa by the contractor to Engineer-in-charge and same shall be processed for approval / decision of competent authority as per AIESL guidelines.

**4. SCOPE OF WORK:**

Work to be carried out as per the Schedule of Quantities and design approved by AIESL and any related works considered necessary.

**5. DESIGN, DRAWINGS AND DOCUMENTS:**

- a) The drawings accompanying the tender document are of indicative nature and issued for tendering purpose with the purpose to enable the tenderer to make an offer in line with the requirements of AIESL.
- b) All the drawing, Plans, Cross sections, Structural drawings or any other drawings required for execution of work shall be prepared by the contractor from AutoCAD or any other appropriate software and submit to Engineer-In-charge

for approval before execution of work. Cost for drawing shall be borne by the Contractor, and nothing extra shall be paid on this account.

- c) The execution of work shall be as per the "Approved drawings" and detailed specifications. No claim whatsoever shall be entertained for variation in the approved for construction drawings and tender drawings regarding any changes.
- d) Contractor shall submit the three set of "As built" color drawing as per direction of Engineer-In- charge after completion of work. Nothing extra shall be paid on this account to the contractor.

The contractor shall be fully responsible for adequacy, accuracy and quality of the entire services performed by him shall be in accordance with the accepted standards of safety, environment and public health. The contractor shall be solely responsible for the safety of the structure.

#### **6. SCHEDULE OF QUANTITIES (BILL OF QUANTITIES):**

The Bill of Quantities shall be read in conjunction with General Conditions of Contract, Special Conditions of Contract, Technical Specifications, CPWD Specifications, drawings and any other document forming a part of this tender. The quantities shown against the various items are only approximate and subject to variations to any extent.

#### **7. TEMPORARY WORK:**

- a) The Tenderer should see the approaches to the site of work and conditions of the same before submission of tender. If any approach from main road is required to be made at site or existing approach is to be maintained for cartage of materials etc. by the Contractor, the same shall be provided, improved and maintained by the Contractor at his own cost.
- b) The contractor shall segregate the site of work from other area/Operational area by providing barricade as directed by the Engineer-In-charge. The barricading towards operational area shall be painted with red and white paint and after completion of the work these shall be removed and taken away by the contractor. The cost for provision of barricading shall be borne by the Contractor.
- c) The site for the proposed work shall be handed over to the contractor along with existing structures if any plantations / tree, stone pitching , baths, roads, open well etc. are to be dismantled / demolished and cleared. Site clearance shall be arranged by the contractor at his own cost and nothing extra shall be payable on this account.
- d) All the salvageable materials received after dismantling are to be stacked at a place properly as per direction of Engineer-In-Charge. Nothing extra shall be payable on this account except BOQ items.
- e) All temporary and ancillary works including enabling work connected with the work shall be responsibility of contractor and price quoted by them shall be deemed to have included the cost of such works which shall be removed by the contractor at his own cost, immediately after completion of work.

#### **8. PAYMENT:**

- a) The minimum amount of running account bill should be more than 25 Lacs.
- b) Final bills shall be submitted by the contractor within one month from the date of final certificate of completion recorded by Engineer-in-Charge or three months from physical completion of the work whichever is earlier.
- c) Income Tax TDS, GST TDS and Labour Cess deductions shall be made from all payments made to the Contractor as per the rules and regulations in force in accordance with the Income Tax Act, GST Act prevailing from time to time.

#### **9. WATER AND POWER SUPPLY:**

- a) Contractor shall make his own arrangements for water & electricity supply for execution of work and his staff & workmen. If water & electricity is used from AIESL source, then water & electricity charges @1% shall be deducted

from the Running bills / Final bill of the contractor.

**10. CONTRACT AGREEMENT:**

- a) The contract agreement shall be executed on a non-judicial stamp paper of value Rs.100/- to be provided by the Contractor. The cost of stamp paper shall be borne by the contractor.
- b) Contractor's tender including the letter of clarifications between the contractor and AIESL, prior to award of contract shall form a part of the Contract Agreement to the extent they have been accepted by AIESL.

## SPECIAL CONDITIONS OF CONTRACT

### 1. GENERAL

- These special conditions of contract shall be read in conjunction with General Conditions of Contract for all the systems mentioned above. If there are any provisions in the SPECIAL CONDITIONS OF CONTRACT, which are at variance with the provisions of General conditions of contract, the provisions in the SPECIAL CONDITIONS OF CONTRACT shall take precedence.
- The tenderer are advised to visit the site to check the exact requirement as per site conditions and the equipment to avoid any dispute during execution. Any dispute regarding the same shall not be entertained after award of work.
- If there be any difference/discrepancy or contradiction in the provision of the specification of item of work and the description of the item given in the Schedule of Quantities, the scope of the items shall be taken according to the following order of preference:
  - \* Description of Schedule of Quantities
  - \* Particular / Technical Specification and Special Condition, if any.
  - \* CPWD Specifications.
  - \* Indian Standard Specifications of BIS.
  - \* Sound Engineering practice as directed by the Engineer-in-charge, whose decision in this regard shall final and binding on the contractor.
- Any reference made to any of Standards/ Specifications shall imply the latest version of that standard, including revisions/amendments issued up to last date of receipt of tender.
- The work shall be carried out as per enclosed specifications and relevant BIS/CPWD amended upto date.

### 2. SCOPE OF WORK

- The scope of work in this contract covers **“Renovation/relocation and development of AIESL (a subsidiary company of AIAHL) Corporate Office, 2<sup>nd</sup> Floor, AI Admin. Building, Safdarjung Airport, New Delhi 110 003 as described in SOQ/BOQ.**
- The contractor is required to ascertain the entire scope of work that may be necessary for completion of the facility envisaged on their experience of similar project. The price quoted by the contractor shall be deemed included for all other minor works for Installations, Testing and Commissioning of all subject work package.
- All fittings, equipment, conduiting, cable laying, all works as per SOQ, units, assemblies and accessories, hardware, foundation bolts, terminal lugs for electrical connections, cable glands, junction box and items which are useful and necessary for efficient assembly in operation and installation shall be deemed to have been included in the scope of work. The installation shall be complete in all details whether such detail has been mentioned in the specifications or not.
- The cost of Breakdown & Periodical maintenance during defect liability period of shall be included in the contract, and nothing extra will be payable to the contractor for rectifications during defect liability period.
- Agency will provide the as built drawings after completion of work. Agency will prepare all the necessary documents and made available to AIESL and do the necessary corrections, changes etc. as per requirement.

### 3. DRAWINGS AND DOCUMENTS TO BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL

- On award of work, the successful tenderer shall prepare and furnish following shop drawings for approval by the Engineer-in-Charge. Such drawings shall be based upon specifications, local laws and regulations.
  - a. Installation Details & Drawing as per SOQ complete as required for approval by E-I-C before start of work.
  - b. Compliance report for materials to be supplied in line with SOQ and technical specification, applicable type test reports etc.
  - c. Cabling, Earthing & Conduit Layout etc.
  - d. Any other drawing relevant to work.
- The shop drawings & coordinated drawings for complete systems shall be submitted within 15 Days of placement of work order. The contractor shall not proceed with the installation work until the drawings are approved.
- The detailed execution drawings are to be prepared by the contractor as per the relevant is Specifications/Electrical Inspectorate Standards/Specifications/Guidelines and other statutory requirements.
- Approval of drawings shall not absolve the contractor of any of his obligations to meet the requirements of specifications under this contract.

#### 4. **ACCESSIBILITY & SITE VISIT**

- Agency has to visit the site before quoting the tender failing which it will be presumed that agency is well versed with the site & scope of work.
- The Contractor shall verify the sufficiency of the size of the shaft openings, clearances in wall cavities and suspended ceilings for proper installation as required.
- Agency failure to communicate insufficiency of any of the above shall constitute his acceptance of sufficiency of the same. The Contractor shall locate all equipment which must be serviced, operated or maintained in fully accessible positions. The exact location and size of all access panels, required for each equipment's etc. shall be finalized and equipment layout drawing shall be submitted to AIESL prior to Installation for approval.

#### 5. **LIST OF PREFERRED MAKES:**

- Unless otherwise approved by AIESL or agreed upon between AIESL and the successful tenderer, the materials to be supplied or incorporated in various works relevant to the instant contract, shall remain confined to any of the "Preferred Makes" only, subject to meeting the technical requirements as spelt out under the schedule of work enclosed and specifications given in the NIT.
- Agency has to propose the make for the items, which are not covered in the "List of Preferred Makes" for approval from AIESL subject to meeting the SOQ, technical specification & relevant Standards of items.
- If technical specification of any item is not covered in the tender document, the same shall be proposed inline with SOQ & relevant Standards for approval by Engineer in charge.

#### 6. **COMPLETENESS OF TENDER:**

All sundry fittings, assemblies, accessories hardware items, foundation bolts, termination lugs for electrical connections as required and all other sundry which are useful and necessary for proper assembly and efficient working of the various components of the work shall be deemed to have been included in the tender, whether such items are specifically mentioned in the tender documents or not.

- The additional cost if any in engaging the labour for night work shall be included in the quoted rates. Nothing extra shall be paid by AIESL in this regard separately.

#### 7. **PHASING OF WORKS:**

- The work must be carried out in phases as approved by AIESL from time to time so that the total project work can progress smoothly with least obstruction to the operations of working office and works of other Contractors/Agencies.
- The work is to be carried out in operational office building & agency has to submit the execution plan in consultation with AIESL without hampering the office function. The work may be executed in working office hours / late hours / night / office holiday as per the availability of site. Agency has to quote accordingly & nothing extra shall be paid on this account.

#### 8. DEFECT LIABILITY PERIOD

- The Defect Liability period (DLP) of the work is 06 Months. The DLP shall start after successful completion & Acceptance of complete work by AIESL.
- During defects liability period if any equipment become unserviceable and not restored to service due to any reasons and if breakdown period exceeds 07 days, the DLP shall be extended for a further period of one month per 07 days of break down period with necessary penalties / recoveries.

#### 9. CONTRACTOR'S REPRESENTATIVES, AGENTS & WORKMEN:

- The contractor shall deploy Project engineer at site who will directly report to E- I-C.
- In addition to above manpower deployed for execution work shall be skilled and qualified and the responsibility of complying with minimum wages, labour laws, ESI, EPF shall be the responsibility of contractor. A written undertaking must be submitted by contractor to this effect.
- He shall ensure that no person of doubtful antecedent and nationality is, in any way, associated with the work. All the persons deployed for the work shall be directly under the control of contractor.

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#### 10. CONFORMITY TO IE ACT, IE RULES, AND REGULATIONS

- All electrical works shall be carried out in accordance with the provisions of Indian Electricity Act-1910, Indian electricity rules – 1956 amended up to date (date of call of tender unless specified otherwise) and the State Electrical Inspectorate, CPWD specifications & Technical specification of tender.

#### ➤ BYE-LAWS

The contractor shall comply with all bye-laws and regulations of local and statutory authorities having jurisdiction over the works and shall be responsible for obtaining prior approval, if any, and payment of all fees and other charges, giving and receiving of all necessary notices and keeping AIESL informed of the said compliance with the bye-laws, payments made, notices issued and received. The Contractor shall indemnify AIESL against all claims in respect of royalties, patent rights, design trademarks of name or other protected rights in respect of any plant, machine, work, or materials used for or in connection with the work or temporary works and from and against all claims, demands proceedings, costs, charges and expenses whatsoever in respect of or in relation thereto. The Contractor shall defend all actions arising from such claims and shall himself and every sort that may be legally incurred in respect thereof. The Contractor shall comply with proper and legal orders and directions of local or public AIESL or municipality and abide by their rules and regulations and pay all fees and incidental charges which may be liable during the contract period.

#### SAFETY

- Only properly tested and marked material & equipment shall be used.
- All supporting arrangements and fixing details shall be checked periodically and necessary rectifying actions are to be taken in order to ensure safe handling of loads during different operations.

- All plant and machinery of the contractor shall observe the safety regulations needed for working in a project where other contractors/sub-contractors/agencies might also be working, so as not to interfere with the work of the other contractors or foul with their constructions.
- The Contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards day and night, speed limit boards, red flags, red lights and providing barriers wherever applicable. They shall be responsible for all damages and accidents caused due to negligence on his part. No hindrances shall be caused to traffic during execution of work.

## 12. **COMPENSATION:**

- The rates quoted by the Contractor for all items except those where specific provisions indicated in the schedule of quantities shall include all leads, lifts, cartage etc. and nothing extra shall be paid on this account.
- The Contractor shall adjust his labour, staff, plant, machinery, etc. according to the requirement of work from time to time with particular regard to approved phases of work and no claim shall be entertained on account of idle labour, plant, machinery, etc., due to any reason whatsoever.
- The Contractor shall clear the site thoroughly of all scaffolding materials, wastage and rubbish etc., left out of his work and dress the site around the area to the satisfaction of AIESL upon completion of the work and before release of payment of the last running bill. The payment of final bill will be subject to compliance of this condition by the contractor.

## ➤ **INSURANCE:**

The Contractor shall arrange, secure and maintain insurance as may be necessary and for all such amounts to protect his risks as detailed herein. The form and the limit of such insurance as defined herein shall be as acceptable to AIESL. However, irrespective of such acceptance, the responsibility to maintain adequate insurance coverage on comprehensive all risks basis at all times during the period of contract shall be *part of* Contractor scope. The Contractor's failure in this regard shall not relieve him of any of his contractual responsibilities and obligations. Any loss or damage to the construction equipment or supplied materials during handling, transporting, storage and erection, till such time as the work is certified by AIESL as having been completed in all respects & is taken over by AIESL shall be to the account of the Contractor and his responsibility preferring all claims and make good for the damage or loss by way of repairs and/or replacement of the portion of the work damaged or lost. The completion of work shall not, in any way, relieve the Contractor of the above responsibilities during the period of the contract.

- The Contractor shall provide AIESL with a copy of all insurance policies and documents taken by him in pursuance of this contract.
- Such copies of documents shall be submitted to AIESL immediately after such insurance coverage. The Contractor shall also inform AIESL in writing at least twenty (20) days in advance regarding the expiry/cancellation and/ or change in any of such documents and insurance revalidation/ renewal, etc., well in time as may be necessary. The risks that are to be covered under the insurance shall include but not be limited to the loss or damage in transit, theft, pilferage, riot, civil commotion, weather conditions, accidents of all kinds, fire, etc. The scope of such insurance shall cover the entire value of the work from time to time. However, AIESL, may from time to time during the period of the contract, ask the Contractor in writing to limit the insurance coverage risks and in such a case the parties to the contract will agree for a mutual settlement for reduction in contract price to the extent of reduced premium account.
- The CAR policy shall be valid up to completion period including period of extension if any. It is advisable to have the validity of CAR policy 3 to 4 months more than the stipulated date of completion to avoid any lapse during work time extensions.

## 13. **INSURANCE FOR STAFF:**

- The Contractor shall also take general life insurance / Mediclaim policy / Workmen compensation policy of suitable amount for all his staff working at site against injury, loss of life etc., and no claims of compensation to the staff /workers will be entertained by AIESL in this regard. The Contractor shall indemnify AIESL against all such claims.

**14. COMPENSATION FOR DELAY:**

- If the contractor fails to complete the work and clear the site for any particular phase on or before the stipulated completion time of that respective stage or extended period of completion, he shall, without prejudice to any other right or remedy of AIESL on account of such breach, pay as agreed compensation of the amount calculated on the basis of General Conditions of Contract.
- The Contractor shall maintain in perfect condition all work executed till the completion of the entire works allotted to him.

**15. SITE FOR PLANTS/EQUIPMENT, STACKING OF MATERIALS AND LABOUR:**

- The Contractor shall stack & store materials at the site of work strictly as per instructions of AIESL keeping in view the safety and smooth progress of the project.
- No store will be made available to the agency. However, an open area may be given on temporary basis to keep the material but tin shade or any other temporary structure with locking arrangements has to be done by the agency noting extra will be payable in this respect.

**16. SITE MAINTENANCE DURING CONSTRUCTION:**

- The Contractor and Sub-Contractors shall from time to time clear and remove all rubbish and obstructions from the site and the work area shall be always kept clear and unobstructed. Nothing extra shall be paid on this account.

**➤ STRUCTURAL ALTERATIONS TO BUILDINGS:**

No structural member in the building shall be damaged/ altered, without prior approval from AIESL.

- Provisions like openings for pipes, widening of existing door/window frame without damaging the existing column/beam/any other load bearing structure i/c removing and refixing the door/window frame, required brick wall & plastering etc. for re-installation shall be the contractor scope. Nothing extra shall be paid in this account.
- All cut out openings in floors shall be closed after installing the cables or pipes in accordance with the item therefore in the schedule of work & specifications.
- All cuttings made by the contractor in connection with the works shall be filled by him at his cost to the original finish.

**17. MATERIALS:**

- All the materials required for this work should conform to SOQ, technical specification & relevant IS specifications. The copies of Purchase Vouchers & Gate Passes should be produced along with the materials. The Type Test Certificates, Routine Test Certificates and Acceptance Test Certificates & other relevant documents are also to be submitted for processing of bills.

**18. SHIFTING OF MATERIALS:**

- Quoted price of all items shall be inclusive of Freight loading unloading upto point of Installation.
- The tenderer has advised to visit the site to check the exact item wise requirement as per site condition.

**19. STORAGE OF MATERIALS:**

- The contractor shall provide proper and adequate storage facilities by himself to protect all the materials and equipment against damage from any cause whatsoever. The watch & ward of the stores, equipment & materials shall be the responsibility of the contractor till the completion, commissioning & handing over to AIESL.
- The contractor shall take away the balance of any materials left at the site after commissioning of the system. The cost, if already paid, for such items shall be deducted from the subsequent running bills. AIESL shall not be liable to pay for any of the incidental charges connected with the above.

20. **SAMPLES:**

- The Contractor shall be required to provide samples to AIESL of materials sufficiently in advance at free of cost to obtain approval of AIESL. Approved samples shall be retained by AIESL until the completion of work and all materials and workmanship incorporated in the work are to conform to the approved samples in all respects. Rejected materials shall be removed from the site immediately under the supervision of AIESL.

21. **TESTING AND MEASURING EQUIPMENTS:**

- Equipment for measurement of work and testing the installation shall be procured by the Contractor at their own cost. The same shall also be made available to AIESL without any charges.

22. **WATER AND ELECTRIC SUPPLY:**

- The water supply shall be provided to contractor as per relevant condition of the tender.

23. **COMPLETION DRAWINGS / DOCUMENTS:**

On completion of works, the contractor shall submit four sets of "As-Built" drawings, and one set reproducible in CAD version in Hard Drive to AIESL before the submission of the final bill. The details of the 'As-Built' Drawings & Documents to be submitted as given below.

- General Arrangements, Layout Drawings with dimensions, SLD etc.
- Details of Inventory
- Guarantee/ Warranty Certificates (where applicable).
- Other documents/ drawings as per the instructions of Engineer-in-Charge.
- Keys, operating handles, tools etc. as applicable.
- As-built drawing for all services.

24. **COMMISSIONING ON COMPLETION:**

- After the work is completed, it shall be ensured that the installation is tested and commissioned. All the test /calibration certificates shall be submitted to AIESL before handing over of the system.

25. **COMPLETION CERTIFICATE:**

- For all works, completion certificate shall be issued after completion of work.

26. **PRICES:** The rates quoted shall be inclusive of all taxes & duties but excluding GST and same shall be firm throughout the contract period irrespective of any change in market rates. The contractor must deliver all items at site within the contract period. Any increase/decrease in amount due to change in market rate shall be on account of the contractor and the same shall be borne by the contractor. **No escalation shall be paid on this account.**

- The rate quoted for all items shall be in Indian Rupees only and inclusive of all taxes, duties, whatsoever, Local taxes, Octroi, entry tax (if any), applicable customs duties (in case of imported items), installation, testing & commissioning charges, Labour, tools & Plants, Packing, Freight & insurance, transportation of items from factory up to installation sites, loading, unloading in land transportation, incidental charges etc. but excluding GST.

27. **PENALTY/RECOVERIES**

- During DLP period agency shall ensure the complete system will be in working condition up to the satisfaction of Engineer In-charge.
- Any minor complaint during DLP period shall be rectified within 24 Hours. but any major complete or shut down of the system needs to be rectified/ attended with in 8hrs after reporting.
- If any System or part of system for minor faults not working for more than 24 Hours a sum of Rs.2,000/- per day shall be recovered from the Security Deposit amount deposited by agency.
- Part day or hours shall be considered as a full day for calculation of penalty amount after down time of 24 (Twenty-Four) hours.
- **GUARANTEE / WARRANTY:**  
The contractor shall guarantee that all equipment's and the installations shall be free from any defects, defective materials and/or bad workmanship and that the equipment shall operate satisfactorily and their performance and efficiencies of the equipment shall not be less than the guaranteed values. The guarantee shall be valid for a period of 06 months. The services of the contractor's personnel, if requisitioned during this period for such work, shall be made available free of all costs.

## **TECHNICAL SPECIFICATIONS (CIVIL WORKS)**

**AI ENGINEERING SERVICES LIMITED**

## TECHNICAL SPECIFICATIONS

### **PREAMBLE**

- a) These technical specifications shall be read in conjunction with the various other documents forming the contract, namely Notice Inviting Tender & Instructions to Tenderers, General Conditions of Contract, Special Conditions of Contract, Bill of Quantities and other related documents, together with any addenda thereto issued.
- b) Absence of terms such as providing, supplying, laying, installing, fixing etc. in the description does not even remotely suggest that the contractor is absolved of such providing, supplying etc. unless an explicit stipulation is made in this contract. The owner shall bear no costs of materials, equipment's duties, taxes, royalties etc.
- c) In addition to the general obligation of the Contractor during defect liability period, the Contractor shall guarantee successful performance of waterproofing treatments for a period of five years from the certified date of completion of the work. The Engineer shall prescribe the form and the manner of executing such guarantees. The Contractor hereby confirms that there is nothing in the items/specifications (or a shortcoming therein) as will prevent such successful performance. The work shall be executed through approved specialists experienced in the respective trades. 5 % of the security deducted from the bills for such specialized items of work shall be refunded to the contract agency only after expiry of guarantee period.
- d) The specifications may have been divided in different sections/sub-head for convenience only. They do not restrict any cross-reference. The Contractor shall take into account interrelations between various parts of works/trades. No claim shall be entertained on basis of compartment interpretations.
- e) Any builder's work required as part of electrical and other installation shall be executed by the Contractor as directed under this contract.
- f) The Contractor shall be required to submit and take approval from the Engineer-in- Charge/Consultant of shop drawings of the items of work specified in the specifications or as directed from time to time. No extra payment shall be made for the same. Shop drawings shall be in metric units and shall be prepared in a format approved by the Engineer-in- Charge.
- g) The Contractor shall prepare and submit as-built drawings by way of making modifications/changes carried out with respect to the construction drawings issued prior to the construction of respective elements. These will be then incorporated by the respective Consultant/ agency in to their drawings for maintaining necessary records for the owner.
- h) No walls, terraces shall be cut for making any opening after waterproofing has been done without approval of the Engineer. Cutting of waterproofing when authorized by the Engineer in writing shall be done very carefully so that no other portion of the waterproofing is damaged. On completion of the work at such places, the waterproofing membrane shall be made good and ensured that the opening/cutting is made fully waterproof as per specifications and details of waterproofing approved by the Engineer at no extra cost.
- i) No structural member shall be cut or chased without the written permission of the Engineer.
- j) All materials intended to be used at site shall be tested prior to its use in an approved manner. A list of tests including frequency of tests on construction materials is included in the special specifications. Cost of all such tests and any other tests felt necessary by the Engineer shall be deemed to be included in the price of respective materials quoted by the Contractor. Any defective materials brought to site shall be returned without any extra cost for the same.
- k) Performance tests shall be carried out as the discretion of the Engineer on all/any items of work as directed by the Engineer. Should any item shall fail to pass the tests, the Contractor shall be given opportunity to take corrective measures and have the same retest to the satisfaction of the Engineer, he may at his sole discretion order dismantling of the whole or part of the works done and order the Contractor to reconstruct the same. The cost of all these operations and materials shall be borne by the Contractor without any extra claim.
- l) The specifications for market rate items to be executed under this contract are enclosed. Items which are not covered under the specifications shall be executed as per latest CPWD specifications & relevant IS codes.

## **2. SCOPE OF WORK**

- i) The work to be carried out under this contract shall consist of various items as per description of works contained in the Bill of Quantities. Any discrepancy between the details given in Bill of Quantities and that provided in Technical Specifications of the corresponding items, the provisions of the Bill of Quantities shall take precedence.
- ii) The item rates quoted by the Contractor shall, unless otherwise specified also include compliance with/supply of the following:-
  - a) General works such as setting out, clearance of site before setting out and clearance of works after completion.
  - b) A detailed program for the construction and completion of works including updating of all such activities on the basis of decisions taken at the periodic site review meetings as directed by the Engineer-in-Charge.
  - c) Samples of various materials proposed to be used on the work for conducting tests thereon is required as per the provisions of the contract.

## **3. OBLIGATIONS OF THE CONTRACTOR**

- i) In order to ensure that the contract work is executed strictly in accordance with this Agreement and in time, the Contractor shall have the following obligations at no extra cost, to the Engineer-in-Charge in addition to such other obligations and responsibilities as have been specified elsewhere in this Contract.
  - a) Provision of adequate number of T&P and machinery for mechanized system of construction, handling and transportation.
  - b) Provision of special magazine at the site for storage of explosives, if necessary, for which required license shall be obtained from the concerned authorities.
  - c) Fulfill all the Contractor's labour regulations i.e. fair wages, display of notices regarding wages, payment of wages, labour records, attendance cards-cum-wage slips, labour welfare etc. as per standard practices and norms applicable at site;
- ii) All fossils, gold, silver, oil and other minerals, precious stones, coins, article of value, of antiquity and structures and other remains/things of geological or archaeological interest discovered on the site of the works shall be notified by the Contractor immediately to the Engineer-in-Charge for onward information to the concerned authorities.
- iii) The Contractor shall take all reasonable precaution to prevent his workmen or any other person from removing or damaging any such article(s) or thing(s) and protect the same till the removal as per the instructions of the Engineer-in-Charge.
- iv) Clearance of the site of all rubbish, debris, vats, tanks, materials, temporary structures, plant and machinery, scaffoldings and filling of all pits, excavation and hand over the site in a tidy and cleaned condition.
- v) Opening up of covered work if instructed by the Engineer, if such covering was done before inspection by the Engineer or without permission/approval from the Engineer-in-Charge.
- vi) Wherever the word "Engineer" has been mentioned in the Technical Specifications that will imply "Engineer-in-Charge".

## **4. GENERAL**

- i) The works will be executed as indicated in the nomenclature of each item and technical specifications as given hereunder as made applicable to this contract.
- ii) In the absence of any definite provision in the technical specifications contained herein, reference may be made to the latest CPWD Specifications and IS codes, in that order. Wherever these are silent, the construction and completion of the works shall conform to sound engineering practice and in case of any dispute arising out of the interpretation of the above, the decision of the Engineer-in-Charge shall be final and binding on the Contractor.
- iii) All the codes of practice, standards and specifications applicable shall be the latest editions with upto date correction slips etc. or as directed by the Engineer-in-Charge.
- iv) General works such as setting out, clearance of site before setting out and clearance of works after completion.

In addition, the abbreviations CPWD, IS, BS shall be considered to have the following meaning:-

CPWD: : Central Public Works department

IS / BS : Indian Standard / Bureau of Indian Standards.

# **TECHNICAL SPECIFICATIONS (ELECTRICAL WORKS)**

**AI ENGINEERING SERVICES LIMITED**

## **General Terms & Conditions and Technical Specifications of Contract**

### **1. General Requirements:**

- 1.1 The specifications indicated is minimum guidelines to enable the contractor to carry out engineering and execute entire electrical system works to meet the design intent / employer's functional requirement and shall be fit for purpose. If the specification for a material/product is not provided in this document, then Contractor will submit the latest specification for such material/product and obtain Employer's prior approval before use of such material/product for the Works.
- 1.2 The following paragraphs deal with the general requirement and specifications for execution of Electrical works, which will be binding on the Contractor apart from the General conditions of Contract and other conditions of Contract laid down in the Tender Document and shall be read in conjunction with the same. If there are any provisions in these special conditions, which are at variance with the provisions in the above-mentioned documents, the provisions in these particular specifications shall take precedence. The work shall be carried out as per enclosed specifications and relevant standards & codes of BIS/CPWD/NBC/ECBC/GRIHA/NFPA/EN/IEC/CPCB etc. and Indian Electricity rules as amended up to date.

### **2 Scope and Design Requirements:**

- 2.1 The Scope of work shall include basic supply, installation, testing, commissioning and handing over the entire electrical system along with As-Built drawings and O&M manual.

Various electrical works covered under the scope of this composite tender are grouped under following parts but not limited to specified below:-

- a) Providing DB's with MCB's, RCCB's, switch boards etc.
- b) Sub main cabling, cable trays, MS conduit, wiring etc.
- c) All other works as mentioned in Technical Specification and SOQ.

- 2.2 On award of work, the successful tenderer shall prepare and furnish detailed design and drawings for approval by the Engineer-In-Charge. Such drawings shall be based upon tender specifications, relevant IS codes, local bylaws and regulations etc. Detailed design and drawings shall not be limited to following but also includes for all other works covered in SOW:-

- Cabling, Earthling & Conduit layout.
- Conducting for Telephone, Data, TV points IT points as directed by E-I-C.
- Any other packages/ items as required as per SOQ.

The design drawings for complete systems shall be submitted to the EIC. The Contractor shall not proceed with the installation works until the drawings are approved by AIESL/ Engineer-In-Charge. Approval of drawings shall not absolve the Contractor of any of his obligations to meet the requirements of specifications/ Conditions under this contract.

### **3. Following Codes, Standards and Regulations to be followed**

IS: 732 Code of practice for electrical wiring installation (System voltage not exceeding 650 V) IS : 1646 Code of practice for fire safety of buildings (General Electrical installation).

IS : 2667 Fittings for rigid steel conduits for electrical wiring.

IS : 3480 Flexible steel conduits for Electrical wiring.

IS : 3837 Accessories for rigid steel conduit for electrical wiring.

IS : 694 PVC insulated cables

IS : 2509 Rigid - non-metallic conduits for electrical wiring.

IS : 6946 Flexible (Pliable) non-metallic conduits for electrical installation IS : 1293 3 Pin plugs and sockets

IS : 8130 Specifications for conduits for electrical installation

IS : 3854 Switches for domestic purpose

IS : 3415 Fittings for rigid non-metallic conduits

IS : 9537 Conduits for electrical installation

IS : 302 General and safety requirements for household and similar electrical appliances IS: 3043 Code of practice for earthing

IS : 5216 Guide for safety procedures and practices in electrical work

#### **4. CABLE LAYING**

##### **4.1 Scope**

The scope of this section comprises specifications for laying of LT Cable in Surface and Cable Trays and Laid in Hume Pipe/ Duct/ PVC Conduit as per the requirement. Cable laying shall be carried out as per CPWD specifications/ for details not covered under CPWD specifications, IS: 1255 shall be referred to.

##### **4.2 Laying on surface**

This method may be adopted in places like switch rooms, rising distribution mains in buildings etc. This may also be necessitated in the works of additions and/or alterations to the existing installation, where other methods of laying may not be feasible. The saddles and clamps used for fixing the cables on surface shall be 1 mm thick with fixing interval of 45 cm for cable sizes upto 35 Sqmm. Additional clamping shall be provided at 30 cm from the center of bend on both sides. Saddles shall be secured with screws to suitable approved plugs. Clamps shall be secured with nuts on to the bolts, grouted in the supporting structure in an approved manner. In the case of single core cables, the clamps shall be of non-magnetic material. Suitable non-corrosive packing shall be used for clamping unarmored cables to prevent damage to the cable sheath. Cables shall be fixed neatly without undue sag or kinks. All MS components used in fixing the cables shall be either galvanized or given a coat of red oxide primer and finished with 2 coats of approved paint.

##### **4.3 Laying on cable tray**

This method may be adopted in places like indoor substations, switch rooms, etc., or where long horizontal runs of cables are required within the building and where it is not convenient to carry the cable in open ducts. Cables laid on cable trays shall be clamped on to the tray at suitable intervals as mentioned under laying on surface.

#### **4.4 Testing of Cables**

##### **4.4.1 Testing before laying**

At the time of issue of cables for laying, the cable shall be tested for continuity and insulation resistance between phases, phase & neutral, phase & earth.

##### **4.4.2 Testing before back filling**

The cables shall be tested for continuity of cores and insulation resistance, and the cable length shall be measured, before closing the trench. The cable end shall be sealed/covered. All tests shall be carried out in accordance with relevant Indian Standard code of practice and Indian Electricity Rules. The Contractor shall provide necessary instruments, Equipment's and labour for conducting the above tests & shall bear all expenses of conducting such tests.

### **5. Distribution Boards**

#### **5.1 The distribution boards shall be complete with:**

- Sheet steel enclosure of 16 or 18 SWG suitable for recessed semi- recessed or surface mounting
- Electrolytic grade copper, bus bars, incoming and outgoing feeders
- Earthing terminals
- Circuit diagram indicating load distribution on the inside cover
- Weather proof enclosure and canopy for outdoor DB's and feeder pillar.

#### **5.2 Enclosure & Fabrication**

- a. The fabrication of the enclosure shall comply the following.

- 16 or 18 SWG sheet enclosure with circular knock-outs
- Wire race for individual phases.
- 2 nos. earthing terminals with lug type connection
- Wherever wiring is with 3C –flexible wires, minimum space of 50 mm shall be provided between MCB & enclosure all around as well as between MCBs of different phase.
- Sheet steel work shall be provided with 7 tank anti corrosive treatment. The panel shall be finished with 2 coats of approved synthetic enamel paint over two coats of red-oxide primer, oven dried.

### 5.3 Miniature Circuit Breakers & RCCB

- a. The MCB's shall comply with the following feature
- b. Short circuit capacity of minimum 10 KA
- c. Quick make, quick break, non-welding silver alloy contacts suitable for manual and automatic operation
- d. Inverse time over load and instantaneous short circuit tripping mechanism with trip free operation.
- e. Common operating handle and integral tripping for multipole MCB
- f. Pressure clamp terminals for users Upto 4 mm sq. and bolted lugs for higher rating.
- g. Phenol formaldehyde moulded enclosure.
- h. C curve for all types of load.

### 5.4 Installation & Testing

- a. The distribution boards shall be mounted on necessary angle crow frame work.
- b. Insulation resistance shall be tested with 1000V megger and the values should be as shown below:
  - Between phases : 2.5 megaohms, minimum
  - Between phases & neutral : 1.5 megaohms, minimum

## 6. Wiring Installation

### 6.1 Wiring installation consisting of:

- Lighting circuit
- Power circuit
- Emergency circuit (all loads on DG with 100% load)
- UPS circuit

### 6.2 Conduit Wires

Conduit wiring shall be from distribution boards and shall be complete with:

- Conduit & accessories
- Wires & interconnections
- Control switches & sockets
- Outlet boxes with terminal connectors & earthing

### 6.3 Metallic Conduits

- All conduits & accessories shall hot dip galvanized as per IS 9537.
- Conduit accessories of similar wall thickness & include bends, elbows, junction boxes, reducers, nipple, splitter coupling

plugs, etc.

- Junction boxes shall be with the required number of outlets & cover 50/75 mm deep as per site conditions. Junction boxes shall be of square / rectangle type of 1.6 mm sheet steel with min. 6 mm thick pressure die-cast aluminum material LM- 6 and shall have bolted cover with good quality gasket lining.
- Flexible conduits made out of continuous length of spirally wound, inter-linked strip steel with zinc coating on both sides.

#### 6.4 Wires

- Wires shall comply with the following features:
- PVC insulated, FRLSH bright annealed copper stranded conductors.
- 600 V grade wires for single phase circuits and 1100 V grade for 3 phase circuits.
- Color coded as below: Phase - R - Red Phase – Y - Yellow Phase – B - Blue Neutral - Black Earth -
- Green or yellow/green
- All lighting circuits shall be wired with min. 2.5 sq.mm copper wires and power outlets up to 25A with 4.0 sq.mm copper wires.

#### 6.5 Control Switches and Sockets

The control switches and sockets shall be of rated capacity and Modular type and shall comply with the following features:

#### 6.6 Control Switches (Modular type)

- Silver contacts with shrouded current carrying terminals

#### 6.7 Socket Outlets (Modular type)

- Brass or copper female outlets
- Control switches & fuses 5.8 Industrial Outlets
- As per EN 60309 parts 1 & 2.

#### 6.8 Outlet Boxes

- The outlet boxes shall be factory fabricated out of machine pressed sheet steel passivated as per the switch manufacturer.

### 7. Laying of Conduits

- a. The size of conduit shall be selected on the following basis:

The size of conduit shall be selected on the following basis: Conduit size mm dia Wire sq. mm 20 25 32 40 50  
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Maximum number of wires

2.5	4	6	8	x	x	x
4	2	4	6	x	x	x
6	x	2	4	x	x	x
10	x	x	2	4	x	x
16	x	x	x	x	4	x
25	x	x	x	x	4	x
35	x	x	x	x	x	4
50	x	x	x	x	x	4

Note: x indicates not applicable

**b. The conduit laying shall be as follows:**

- On the routes indicated on the drawing or to be marked on the drawing and at site and got approved before laying.
- Conduit junction boxes/pull through boxes to be installed at spaces not more than 12 m or two 90 deg. bends, the junction boxes shall be flush with ceiling.
- Conduits to be kept 100 mm minimum from pipes and non-Electrical services
- Separate conduits/runways to be used for
  - Lighting circuits
  - Emergency lighting circuit
  - Power circuit
  - UPS circuit
- Fixing screws to be rust proof or cheese head screws
- Conduit buried in concrete to be fastened to the reinforcement and get approved before casting the slab.
- Conduits embedded in the wall to be fixed by staples at 500 mm intervals.
- Conduits embedded in floor screed to be galvanized and painted with emulsified bitumen
- Conduits to be free from sharp edges and burrs and necessary PVC bushing to be provided wherever necessary.
- Outlet boxes have a minimum size of 50 x 50 x 32 mm or as per switch manufacturer's specification.
- Flexible conduits are acceptable only at machine end and for short extension to outlets (not exceeding 500 mm in false ceiling)
- Chasing the brick wall shall be done by cutters/circular discs.
- All metallic conduits and accessories shall be threaded type and exposed threads and bends shall be given one coat of black enamel paint over a coat of red oxide paint.
- GI raceway and junction boxes of suitable sizes & compartments as per design requirement for under floor laying purpose.

**8. Earthing**

- Insulated earth conductors of specified size shall be taken through the conduits.
- All outlet boxes, switch & socket boxes, and light fitting to be earthed properly.
- The switch/socket outlet shall be factory built suitable for the particular make of switch/outlet.

**9. Wiring**

**a. The wiring in conduit shall comply the following:**

- Single core PVC insulated FRLSH copper wires
- Wire sizes (Copper) Light Point: 1.5 sq.mm

Circuit wiring for Light Point: 2.5 sq.mm

6A Light Plug Point wiring: 2.5 sq.mm Power point wiring 16A: 4.0 sq mm Other Load: According to the load current

Jointing of wires are not permissible, however looping may be done from the circuit oint/secondary points to points.

- GI/Aluminum trunking may be used if number of conduits is many. The metallic trunking shall be earthed securely at DB end and throughout the length.
- GI or extruded aluminum trunking shall be used for Vertical outgoings from DBs to avoid number of conduits.

## 10. Testing

The Entire installation to be tested for:

- Insulation resistance
- Earth continuity
- Polarity of single pole switches

**NOTE :-** IS Standards / CPWD Specifications etc. as mentioned in BOQ / SOQ for all other items shall be conformed to and complied with for the items not specifically mentioned in the above specifications.

<b>LIST OF PREFERRED MAKES</b>
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<b>Annex-'A'</b>
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<p>1. Brand names of materials to be used are listed here and indicative only. Mere inclusion of brand name in this list does not guarantee for use in work unless specification of brand meets technical specifications of product as stipulated in tender document. The specifications of the products as mentioned in this tender document shall take preference over the make list. The contractor will be required to provide items/material as per the specifications indicated in tender document.</p>
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<p>The following list of preferred makes is exhaustive. However, additional manufacturers or brands may be considered for any specified product or item, depending on market availability, delivery timelines, and proven satisfactory performance in similar projects or works-preferably where such a make or product has been used in quantities constituting at least eighty percent (80%) of the estimated or proposed requirement for the relevant project or work. To establish performance, completion certificates, performance certificates and purchase orders accompanied by tax Invoices will be considered, provided that the products comply with the technical specifications stipulated in the tender document."</p>
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<p>3. In case, Model no. of any product as mentioned in tender document is discontinued by manufacturer (documentary evidence from manufacturer must establish this), then contractor is bound to provide latest model of same manufacturer subject to meeting the technical specification without any financial implication.</p>
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<p>4. The tenderers shall quote their rates on the basis of the price for the best quality product of the brand/make stipulated for the item of work in the list of preferred make/specifications. The agency shall submit at least three brands from the list given below along with the rates (having price variation within 10%) and specifications for the approval of Engineer-in-Charge before placing order. EIC shall approve any of the two brands.</p>
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<b>Sr. No.</b>	<b>Name of Product / item</b>	<b>Proposed Brands/Makes / Manufacturers</b>
1	CEMENT	ACC Ltd./Ultra Tech / Shree Cement Ltd. / Ambuja/Jaypee/Century/3.K.Laxmi (JK Lakshmi Cement Ltd.)/JK Cement/Nuvoco/Dalmia Cement (Bharat) Ltd./Birla A1 (Orient cement Ltd.) / Star Cement/PENNA/Max Cement/Ramco Cement/Chettinad Cement/Wonder (Wonder Cement Limited)/JSW Cement/Zuari Cement/Prism Cement
2	TMT REINFORCEMENT STEEL	SAIL/RINL (VIZAG Steel) / TATA TISCON (TATA Steel Limited) / JSW Steel Ltd./JSPL/ Shyam Steel Industries Ltd./ESL Steel Ltd./Shyam Metalics & Energy Ltd./Shri Bajrang Power & Ispat Ltd. / Rashmi Metaliks Limited/SRMB Srijan Private Limited/MS Agarwal Foundries Private Limited/Real Ispat and Power Limited/Jai Balaji Industries Limited/Maithan Steel & Power Limited
3	STRUCTURAL STEEL-MS TUBULAR SECTIONS (CIRCULAR, SQUARE, RECT ANGULAR) FOR COLUMNS TRUSS, MS PIPES, FLATS ANGLES, BEAMS, CHANNELS, STRIPS ETC.	SAIL/RINL (VIZAG Steel)/TATA Structura (TATA Steel Limited) / JSW Steel Ltd./JSPL/APL Apollo Tubes Ltd./Shyam Metalics & Energy Ltd. / Surya Roshni Ltd. Nezone Tubes Ltd. / Utkarsh India Ltd./Hi-Tech Pipes Ltd.
4	VITRIFIED /CERAMIC TILES	Prism Johnson Limited (H&R Johnson (India) Ltd.) / NITCO Tiles Ltd. / Somany Ceramics Ltd./Orient Bell Ltd. / Orade Granito Ltd. / Kajaria Ceramics Ltd./RAK Ceramics (RAK Ceramics Ltd.)/AGL(Asian Granito India Ltd.) / Oasis Vitrified Tiles(Oasis Vitrified Pvt. Ltd.)/Varmora Granito Pvt. Ltd./Qutone Ceramic Pvt. Ltd./Ambani Vitrified Pvt. Ltd. / Simpolo Vitrified Pvt. Ltd. / Pavit Ceramics Pvt. Ltd. / Aparna Enterprises Ltd./ SUNHEAART CERAMIK (Sunshine Tiles Company Pvt. Ltd)

5	ALUMINIUM STANDING SEAM ROOFING SYSTEM	KALZIP (Kalzip India Pvt. Ltd.)/Kingspan (Kingspan Jindal Pvt. Ltd) / BEMO(Bemo System GmbH)/ New Look Furnishers For roofing work upto 15,000 sqm.
6	METAL CEILING TILE/BAFFLE CEILING	Hunter Douglas India Pvt. Ltd. / Durlum India Pvt. Ltd./Saint Gobain Gyproc India Ltd. / Knauf Ceiling Solutions(India) Pvt. Ltd. (Formerly Armstrong World Industries (India) Pvt. Ltd.)/ USG Knauf (Knauf India Pvt. Ltd.) / Dexune(Dexune Marketing Pvt Ltd.)/Celflo Technologies Pvt. Ltd.
7	GALVALUME/STEEL SHEET ROOFING (TOP & BOTTOM) OVER M.S. STRUCTURE	Tata Bluescope Steel Ltd. / Jindal Steel (Jindal India Ltd.) / JSW Steel Coated Products Limited/APL Apollo Building Products Private Limited / Colorshine Coated Pvt. Ltd.
8	ALUMINIUM COMPOSITE PANELS (ACP)	Alucoband (3A Composite India Pvt. Ltd.) / Alstrong Enterprises India Pvt. Ltd. / Aludecor Lamination Pvt. Ltd / EUROBOND(Euro Panel Product Ltd.) / Alstone(Alstone International)/VIVA(Viva Composite Panel Pvt Ltd.)/Alutech(Alutech Industries)/ VIRGO(Virgo Laminates Ltd.) / Alutuff (Ashoka foam multiplast Pvt. Ltd.) / Alexia Panels/ Timexbond Industries Pvt. Ltd.
9	HONEYCOMB COMPOSITE PANELS (HCP)	Alucoband(3A Composite India Pvt. Ltd.) / Aludecor Lamination Pvt. Ltd / EUROBOND(Euro Panel Product Ltd.) / Alstone(Alstone International)/VIVA(Viva Composite Panel Pvt Ltd.) / Alutuff(Ashoka foam multiplast Pvt. Ltd.)
10	ZINC COMPOSITE PANELS (ZCP)	Aludecor Lamination Pvt.Ltd / Alstone(Alstone International) / VIVA(Viva Composite Panel Pvt Ltd.)/EUROBOND (Euro Panel Product Ltd.)
11	ALUMINIUM EXTRUSIONS / STRUCTURAL MEMBERS	Hindalco Industries Ltd. / Jindal Aluminium Ltd./Bhoruka (Bhoruka Extrusions Pvt. Ltd.)/NALCO
11 A	Work Station	Wipro Rubix, Rockworth, Geekan
12	FLOAT GLASS / HIGH PERFORMANCE GLASS	Saint Gobain Glass India Ltd. / AIS Glass Solution Ltd / Pilkington/Guardian Sun Guard /Modi Guard(Gujarat Guardian Limited) / Sisecam Flat Glass India Pvt. Ltd. / Gold Plus Glass Industry Ltd. / TPRS Enterprises Pvt. Ltd.
13	UPVC DOORS & WINDOW	Aparna venster/Okotech(Aparna Enterprises Ltd.)/ Fenesta (Fenesta Building Systems) / Aluplast/NCL Veka Ltd. / Window Magic India Pvt. Ltd. / Rajshri Plastiwood
14	WOOD POLYMER COMPOSITE(WPC)	ECOBOARD (Alstone Industries Pvt. Ltd.) / Rajshri Plastiwood (Div. of Rajshri Productions Pvt. Ltd.)/KAKA Industries Ltd.
15	ADMIXTURES /WATER PROOFING COMPOUND/ ACRYLIC CEMENTITIOUS COATING/ LIQUID MEMBRANE (POLYURETHANE POLYUREA)/HDPE & SELF ADHESIVE MEMBRANE	Pidilite Industries Ltd. / FOSROC Chemicals (India) Pvt. Ltd. / CICO Technologies Ltd. / Sika India Pvt. Ltd. / BASF India Ltd. / MC-Bauchemie (MC-Bauchemie India Pvt. Ltd.) / Ardex Endura (India) Pvt. Ltd./STP Ltd. / Choksey Chemicals Pvt. Ltd. / MYK Laticrete (MYK Laticrete Pvt. Ltd./Mapei (Mapei Construction Products Pvt. Ltd) / Chryso India Pvt. Ltd./Maruti Bitumen Pvt. Ltd. / Penetron India Pvt. Ltd. / Supreme Bituchem India Pvt. Ltd./Asian Paints Ltd. / IWL India Ltd. / TP Buildtech Pvt. Ltd. / MYK Arment Pvt. Ltd./Technonicol India Pvt. Ltd. / Saint-Gobain India Pvt. Ltd. / Ferrous Crete(India) Pvt. Ltd./Fair Mate Chemicals Pvt. Ltd. / Berger Paints India Ltd.
16	BIPOLAR CORROSION INHIBITOR ADMIXTURE	STP Ltd. / Sika India Pvt. Ltd. / BASF India Ltd. / Chryso India Pvt. Ltd. / Supreme Bituchem India Pvt. Ltd.

17	REINFORCEMENT COUPLER	Dextra/G-Tech/HI-Tech Engineering Solutions / Sanfeild (India) Ltd.
18	HARDWARE FITTING	Dormakaba India Pvt. Ltd. / Q-Railing India Pvt. Ltd. (Formely D-Line) / Hafele India Pvt. Ltd./GEZE Gmbh / Linox Technology Pvt. Ltd. / Assa Abloy / Kich Architectural Products Pvt. Ltd./Godrej & Boyce/LGF Sysmac India Pvt. Ltd. / Rinox Kaufmann Ltd. / Ozone India Pvt. Ltd./Everite/Define/Hardwyn (Hardwyn India Ltd.) / Arkay/Dorset Industries Pvt. Ltd. / Prayag Polymers Pvt. Ltd. / Hettich India Pvt. Ltd. / Ozone Overseas Pvt. Ltd.
19	STEEL/WOOD FIRE RESISTANT SHUTTER	Navair Ltd. / Pormat International Ltd. / Shakti Hormann Pvt. Ltd. / Sukri Paints & Chemicals/Iclean / Signum Fire Protection/Pacific (Pacific Fire Controls Pvt. Ltd.) / ASE Security Pvt. Ltd.
20	LAMINATES/ LAMINATED PARTICLE BOARD/ PRELAMINATED BOARD/ MDF/PLY BOARD/FLUSH DOORS	Greenlam Industries Ltd. / Merino Industries Ltd./Century Plyboard (I) Ltd. / Nationl Ply /Archidply(Archidply Industries Limited) / Kitply Industries / Novapan/Duro/Mayur Doors/Greenply/ASIS/Greenpanel Industries Limited/ Punjab Plywood Industries/ Stylam Industries Ltd.
21	GYPSUM BOARD PARTITION	Saint Gobain Gyproc India Ltd. / USG Knauf (Knauf India Private Limited) / Knauf Ceiling Solutions(India) Pvt. Ltd. (Formerly Armstrong World Industries (India) Pvt. Ltd./ Kanuf AMF India Pvt. Ltd.)/Vans Gypsum
22	FASTENERS/ANCHOR FASTENERS	Hilti (Hilti (India) Pvt. Ltd.)/ Fischer/BOSCH/Fasteners India/Mungo / Rawl Plug
23	WOODEN LAMINATED FLOORING/ VINYL FLOORING / RUBBER FLOORING	Pergo Ltd. / Action Tesa/Unitex/Knauf Ceiling Solutions(India) Pvt. Ltd. (Formerly Armstrong World Industries (India) Pvt. Ltd.) / Epitome / Scheit/Responsive Industries Ltd./Greenlam Industries Ltd. / Greenpanel Industries Ltd.
24	EPOXY/PU FLOORING	STP Ltd./Sika India Pvt. Ltd. / BASF India Ltd./FOSROC Chemicals (India) Pvt. Ltd./ Tremco CPG (India) Pvt. Ltd./Cipy Polyurethanes Pvt. Ltd/NITCO Tiles Corp. / Maruti Bitumen Pvt. Ltd./Supreme Bituchem India Pvt. Ltd. / Chryso India Pvt. Ltd. / Saint-Gobain India Pvt./Bostik India Pvt Ltd. / Asian Paints Ltd. / Pidilite Industries Ltd. / Berger Paints India Ltd. /MYK Arment Pvt. Ltd.
25	TILE JOINT FILLER, TILE/AAC BLOCK/ STONE FIXING ADHESIVE/ SOLID / EPOXY GROUT	Ardex Endura (India) Pvt. Ltd. / Ferrouscrete India Pvt.Ltd/MYK Laticrete (MYK Laticrete Pvt. Ltd.)/Pidilite Industries Ltd./FOSROC Chemicals (India) Pvt. Ltd. / BASF India Ltd. / Fairmate(Fair Mate Chemicals Pvt.Ltd.) / STP Ltd. / Home Pride Adhesive Pvt. Ltd./ Saint-Gobain India Pvt. Ltd./Berger Paints India Ltd. / Somany Ceramics Ltd.
26	FLOOR HARDENER	STP Ltd. / Sika India Pvt. Ltd. / BASF India Ltd. / Pidilite Industries Ltd. / FOSROC Chemicals (India) Pvt. Ltd. / Ironite / Mapei (Mapei Construction Products Pvt. Ltd.)/ Chryso India Pvt. Ltd. / Supreme Bituchem India Pvt. Ltd. / Saint-Gobain India Pvt. Ltd. / MYK Arment Pvt. Ltd.
27	POLYCARBONATE SHEET	Lexan/Sabic (GE Plastic) / Dan Pal/Polygal India Pvt. Ltd./Gallina India Pvt. Ltd. / Coxwell Domes (Coxwell Domes Engineers Pvt. Ltd.)/Tuflite/DPI Daylighting Pvt Ltd.

28	CALCIUM SILICATE /MINERAL FIBER FALSE CEILING TILES/GYPSUM FALSE CEILING BOARDS/ PARTITION BOARDS	Saint Gobain Gyproc India Pvt. Ltd. / Llyod Insulation India Ltd. / Knauf Ceiling Solutions (India) Pvt. Ltd. (Formerly Armstrong World Industries (India) Pvt.Ltd./Knauf AMF India Pvt. Ltd.) / Aerolite Ceiling System/Andhra Polymers Pvt. Ltd. / USG Knauf (Knauf India Pvt Ltd.) / Hilux (Ramco Industries Ltd) / Gridline/Everest/Dexune(Dexune Marketing Pvt Ltd.) / Vans Gypsum / New Age False Ceiling Pvt. Ltd.
29	FIBER CEMENT BOARD/ CEMENT BOARD	Bison (NCL Industries Ltd.) / Hicem (Ramco Industries Ltd.) / Everest (Everest Industries Ltd.)/Visaka Industries Ltd.
30	PAINTS FOR STEEL STRUCTURE (EPOXY PAINTS)/ PU PAINTS/ WATER PROOF CEMENT PAINTS/ PRIMER/ DISTEMPER/ TEXTURE FINISH PAINT/ SYNTHETIC ENAMEL PAINT/ FIRE RETARDANT PAINT	Akzo Nobel India Pvt. Ltd. / Jenson & Nicholson / Oikos India Pvt.Ltd. / Asian Paints Ltd. (EPOXY/Berger Paints India Ltd./ Nerolac / Acro Paints Ltd. / Snowcem India Ltd. / Shalimar (Shalimar Paints Ltd.) / Jotun / Grauer & Weil (India) Ltd. / STP Ltd. / Hempel Paints India Pvt. Ltd.
31	WALL PUTTY	J.K.Cement/Toyo Ferrouscrete India Pvt. Ltd. / Birla White / Dalmia Magic Premium Skim Coat(Dalmia Cement (Bharat) Ltd.) / Asian Paints Ltd. / NCL Buildtek Pvt. Ltd. / Ferrous Crete(India) Pvt. Ltd. / Saint-Gobain India Pvt. Ltd.
32	EXPANSION JOINT FILLER BOARD/ JOINT COVERS	Vexcolt International Ltd. (U.K)/Construction Specialities (USA) / The Supreme Industries Ltd./STP Ltd./Dupont/Sanfeild/Hercules/Z-Tech/DECG International/ M.M.Systems/Kantaflex-Balco (Kantaflex (India) Pvt. Ltd.) / Mapei (Mapei Construction Products Pvt. Ltd.)/Migua/Insuboard/Soprema/Supreme Bituchem India Pvt. Ltd.
33	GLASS GRID FORBITUMINOUS WORKS	Saint Gobain ADFORS/Maccaferri Environmental Solutions Pvt. Ltd. / Techfab Industries Ltd./Giridhar Techfab Pvt. Ltd. / Terrain Infratech / Flexituff International Ltd. / Supreme Non-Woven Ind. Pvt. Ltd.
34	RUNWAY MARKING PAINT (WATER BASED)	Nerolac / Berger Paints (Berger Paints India. Ltd.) / Asian Paints Ltd. / ITS Coating Pvt.Ltd. / Supreme Bituchem India Pvt. Ltd. / STP Ltd.
35	SANITARY WARE/ FIXTURE/FITTINGS	Kohler Co. (USA) / Jaquar and Company Pvt. Ltd. / American Standard/HINDWARE / QUEO (Hindware limited) / PARRYWARE / ROCA (Roca Bathroom Products Pvt. Ltd.) / Grohe AG (Germany) / Franke (Switzerland) / Bobrick Washroom Equipment Inc./ Duravit/Marc/H&R Johnson (India) Ltd/Prism Johnsons Ltd. / CERA/Senator (Cera Sanitaryware Ltd.) / Somany Ceramics Ltd. / Dolphy India Pvt. Ltd. / Rak Ceramics India Pvt. Ltd Euronics (Euronics Industries Pvt.Ltd.) (Except SS Napkin and Soap Dispenser)
36	GLASS MIRROR	Saint Gobain Glass India Ltd. / Pilkington / AIS Glass Solution Ltd / Modi Guard (Gujarat Guardian Ltd.)/Atul Ltd./Glaverbel / Sisecam Flat Glass India Pvt. Ltd.
37	SS SINK	Nirali (Jyoti Kitchen Industries Pvt. Ltd.)/Jayna/Franke (Switzerland) / Prayag(Prayag Polymers (P) Ltd.) / Cera Sanitaryware Ltd.
38	SPECIALLY-ABLED FITTING	Pressalit Ltd./Hindustan/Euronics Industries Pvt. Ltd.
39	G.I. PIPE FITTINGS	Unik/Zoloto Malleables / Leader Valves Ltd. / Surya / R-Brand/KS/SS
40	SOIL WASTE & VENT PIPES & FITTINGS AND WATER SUPPLY PIPES SAND CAST IRON S&S/ CENTRIFUGALLY CAST (SPUN)	NECO(Jayaswal Neco Industries Ltd.)/BIC/RIF/Electrosteel Steels casting Ltd. / SKF/ Kapilansh Dhatur Udyog(P) Ltd. / Saint Gobain / HEPCO(Binay Udyog Pvt Ltd.) / Raj Pattern Makers & Founders Pvt. Ltd.

	S&S/ HUBLESS CENTRIFUGALLY CAST SPUN IRON PIPES	
41	SOIL WASTE & VENT PIPES & FITTINGS AND WATER SUPPLY PIPES- CENTRIFUGALLY (SPUN) CI PIPES CLASS 'LA' DUCTILE IRON PIPE	Kesoram / Electro Steel casting Ltd / NECO(Jayawal Neco Industries Ltd.) / BIC/TATA/ RIF/SAIL
42	CI MANHOLE COVERS & CI GRATING	NECO (Jayawal Neco Industries Ltd.) / BIC/RIF/Electro Steel casting Ltd. / SKF/ Kesoram/Kapilansh Dhatu Udyog (P) Ltd./Kartar / HEPCO (Binay Udyog Pvt Ltd.)
43	STRUCTURAL WEATHER SEALANT FOR STRUCTURAL GLAZING/ACP	Wacker/Dow corning/G.E. Plastics/Pidilite Industries Ltd. / FOSROC Chemicals (India) Pvt. Ltd./BASF India Ltd./STP Ltd./Rawl Plug/Choksey Chemicals Pvt. Ltd. / Supreme Bituchem India Pvt. Ltd. / Maruti Bitumen Pvt. Ltd. / Sika India Pvt. Ltd.
44	POLY SULPHIDE POLYURETHANE SEALANT FOR JOINTS	FOSROC Chemicals (India) Pvt. Ltd. / Choksey Chemicals Pvt. Ltd. / Pidilite Industries Ltd. / Sika India Pvt. Ltd. / Dow corning/MYK Laticrete (MYK Laticrete Pvt. Ltd.) / Tuffseal/Wacker/G.E./STP Ltd. / ASF India Ltd./ Maruti Bitumen Pvt. Ltd. / Chryso India Pvt. Ltd./Supreme Bituchem India Pvt. Ltd. / Bostik India Pvt Ltd/MYK Arment Pvt. Ltd./McCoy Soudal Sealants Adhesives & Foams Pvt. Ltd.
45	MODULAR S.S. /GLASS RAILING	Dormakaba India Pvt. Ltd. / Jindal Lifestyle Ltd. / GEZE Gmbh/Q-Railing India Pvt. Ltd. (Formerly D-Line) / Linox Technologies Pvt. Ltd. / Kich Architectural Products Pvt. Ltd. / Ozone India Pvt. Ltd. / Assa Abloy / Rinox Kaufmann Ltd.
46	COMPACT LAMINATE TOILET CUBICAL/URINAL PARTITIONS	Greenlam Sturdo (Greenlam Industries Ltd.) / Merino Industries Ltd. / Bobrick Washroom Equipment Inc./ Dormakaba India Pvt. Ltd./Trespa/T-Line(INNER SPACE)/ Stylam Industries Ltd.
47	SOLID ACRYLIC SURFACE BOARDS	Dupont / LG-Himacs (LX Hausys India Pvt. Ltd) / Hanex/GMGR India (Samsung Staron) /Neonnex
48	TENSILE FABRIC	Mehler Texnologies (Low & Bonar India Pvt. Ltd.) /Serge Ferrari India Pvt. Ltd. / Sattler PRO-TEX
49	AUTOCLAVED AERATED CEMENT (AAC) BLOCKS	Magicrete Building Solutions Pvt. Ltd. / Finecrete Eco-Blocks Pvt. Ltd./Aerocon/Bilt Technologies/JK/Instablock/Max Blocks/RS Green Infra (India) Pvt. Ltd. / Siporex/ Kataria Ecotech. Pvt. Ltd. / Krrish White Bricks LLP/Jindal AIR/NCL. Buildtek Pvt. Ltd.
50	AUTOMATIC REVOLVING/SWING DOOR	Dormakaba India Pvt. Ltd. / Hafele India Pvt. Ltd. / GEZE Gmbh/Gilgen Door System AG /Linox Technology Pvt. Ltd./Assa Abloy / Autoingers
51	WALKWAYS/FALL PROTECTION SYSTEM	WULMET/Latchways (Fall Arrest Systems & Technologies Pvt. Ltd.) / Capital Safety(3M SAMCO)/Honeywell/Checkmate / Karam Safety Pvt. Ltd./Kingspan Jindal Pvt. Ltd.
52	ROOF HATCH	NYSTROM/BABENKO/BIL.CO/Checkmate
53	GYPSUM PLASTER/POLYMER MODIFIED SELF CURING MORTAR	Ferrous Crete(India) Pvt. Ltd./Ultra Tech / Saint Gobain Gyproc India Ltd./Dow Construction Chemicals / BASF India Ltd. / Asian Paints Ltd. / Saint-Gobain India Pvt. Ltd.

54	CURING COMPOUND (RESIN BASED & WAX BASED)	FOSROC Chemicals (India) Pvt. Ltd. / Sika India Pvt. Ltd. / BASF India Ltd. / Supreme Bituchem India Pvt. Ltd./CICO Technologies Ltd. / STP Ltd. / Berger Paints India Ltd.
55	DECORATIVE SAFETY FILMS	FILMS/3M/Avery Dennison / Deck
56	STEEL NANO COAT	Four Solutions Pvt. Ltd. / Meta-Chem Paints & Adhesives Pvt. Ltd. / Advanced Lab
57	GEOTEXTILE PRODUCTS	TechFab India Industries Ltd. / Strata Geosystems (India) Pvt. Ltd. / Suntech Geotextile Pvt. Ltd.
58	SOIL REINFORCEMENT GEOSYNTHETICS	Maccaferri Environmental Solutions Pvt. Ltd. / Strata Geosystems (India) Pvt. Ltd./Tech Fab India Industries Ltd.
59	UPVC/CPVC/SWR PIPES & FITTINGS	PVC The Supreme Industries Ltd. / Finolex Industries Ltd / Savoir Faire Manufacturing Co. Pvt. Ltd./AKG Extrusions Pvt Ltd. / Surya Roshni / Astral/Prince/Ori-plast/Ashirvad/ Vectus/Prayag(Prayag Polymers Pvt. Ltd.)/Balco/Texmo Pipes and Products Ltd.
60	ROCKWOOL GLASSWOOL INSULATION	UP Twiga/Roxul-Rockwool/Rockloyd / Rockwool India / Lloyd Insulations India Ltd. / Polybond Insulation Pvt. Ltd.
61	G.I. PIPE	Tata Steel Ltd./Jindal Pipes Ltd. / Surya Roshni (Surya Roshni Ltd.) / APL Apollo Tubes Ltd./Zenith/Utkarsh Pipes & Tubes Ltd. / Nezone Tubes Ltd. / Hi-Tech Pipes Ltd. / Jotindra Steel & Tubes Ltd.
62	SLUICE VALVE/PRESSURE REDUCING VALVE/NON-RETURN VALVE (CI/GUN METAL)	Sant Valves Pvt. Ltd. / Zoloto/Audco(L&T)/Castle / Leader Valves Ltd. / Kartar / Honeywell/IVC
63	HDPE PIPES	Geberit/Saint Gobain / Savior Faire Manufacturing Co. Ltd. / Jain Irrigation / Ori-plast/ East – Hooghly Agro Plantation Pvt. Ltd.

ITEM CODE	ITEMS	PREFERRED MAKES	CATEGORY FOR TEST CERTIFICATION INSPECTION
A	PANEL SWITCHGEARS AND RELATED ITEMS		
1	LT PANELS (TTA)	MAK/SHIV SHAKTI ENGINEERS/TECHNOCRAFTS/TENCO/KONTACT/ABB/RISHA/ MARINE ELECTRICALS/POWERTECH SWITCHGEARS/ULTIMA/RITTAL/URJAYANT/ EXCEL CONTROL SYSTEMS BALAJI ELECTRO CONTROLS PVT LTD KRUTI/ CMKL CORE METAL)/ KEPL(KHOKHAR)/ LEGRAND (NOVATEUR)/ CONQUERENT/ MITSUBISHI/LS POWER/ ZENIYA/NEPTUNE LAURITZ KNUDSEN/CSS/ BCH/ ADVANCE/TRICOLITE/SCHNEIDER/SUDHIR/EAP/TRISQU ARE/MILESTONE/ADLEC/ UNILEC/CONSOUL (RR ISPAT)/PEATON HAROLD/SPC ELECTROTECH/SIEMENS	CATEGORY-1

2	LT PANELS/FEEDER PILLAR (PTTA)/BUS TRUNKING	EXPERT ENGINEERS/MAK/APPLICATION CONTROL PANEL AMBIT/ADLEC/SHIV SHAKTI ENGINEERS TECHNOCRAFTS/ EXCEL CONTROL SYSTEMS/GLOBAL/ SUPERTECH CONTROL SYSTEMS SWITCHGEARS & FABRICATORS KONTAKT/ MARINE ELECTRICALS/RP. CONTROLS/GOURAV EnerGen/TENCO/POWERTECH SWITCHGEARS/HAROLD/BALAJI ELECTRO CONTROLS PVT LTD/URJAYANT/KRUTI/ ASES ITE-GURGAON (INDIAN TRANSFORMERS) LEGRAND (NOVATEUR)/ CONQUERENT/CORONET/RST ELECTRICALS PVT LTD/HPL/C&S LS POWER/ ZENIYA/PRECISION ABB/EAP/TRICOLITE SUDHIR SCHNEIDER LAURITZ KNUDSEN/NEPTUNE HENSEL /ADVANCE/ KEPL(KHOKHAR) PEATON/RISHA/ TRISQUARE/CMKL (CORE METAL)/SPC ELECTROTECH/BCH/MILESTONE/YOGUI DIGI (P) LTD/ELINS/EVA/UNILEC/HAROLD/ ENGINEERS & ENGINEERS/SIEMENS/ ULTIMA/NITYA	CATEGORY-1
3	AIR CIRCUIT BREAKERS	LS ELECTRIC/BCH/MITSUBISHI/HPL/LAURITZ KNUDSEN/LEGRAND (NOVATEUR)/ ABB/C&S/HAVELLS/ SCHNEIDER/SIEMENS	CATEGORY-2
4	MOULDED CASE CIRCUIT BREAKERS (MCCB)	LS ELECTRIC/BCH/MITSUBISHI/LAURITZ KNUDSEN/LEGRAND (NOVATEUR)/ABB/ CAS/HAVELLS/ INDO ASIAN (NOVATEUR)/HPL/SCHNEIDER/SIEMENS	CATEGORY-2
5	CHANGE OVER SWITCH FUSE DISCONNECTOR SWITCH/SWITCH FUSE UNITS	BENTEC/BCH/ INDO ASIAN (NOVATEUR)/SOCOME/C/LAURITZ KNUDSEN/ C&S/ LEGRAND (NOVATEUR)/HPL/ABB/HAVELLS/SIEMENS/SCHNEIDER	CATEGORY-2
6	METERS/ MULTIFUNCTIO N METERS - ANALOGUE/DIGI TAL	ELMEASURE/KRYKARD/SELEC/CAS/ABB/BENTEC/SELEC/ C&S/MITSUBISHI/ ABB/NEPTUNE/SOCOME/C/HPL/LAURITZ KNUDSEN/FINDER/SIEMENS/SCHNEIDER CONSERVE/SECURE	CATEGORY-3
7	SELECTOR SWITCH PUSH BUTTON SWITCH/ EMERGENCY SWITCH	ABB TRINITY TOUCH LAURITZ KNUDSEN/CAS/ BCH/ EATON/TEKNIC/SIEMENS/ SCHNEIDER	CATEGORY-3
8	CT's/PT's	GLOBAL/KRUTI/WAGO/CG POWER/SELEC/NEWTEK/ANANT POWER (ADVANCE)/ KAPPA	CATEGORY-3
9	PROTECTIVE RELAYS (ALL TYPE)	P2 POWER/WAGO/SELEC/HAVELLS/MITSUBISHI LAURITZ KNUDSEN/ CG POWER/C&S/ABB/SIEMENS	CATEGORY-2
10	CONTACTORS	MITSUBISHI/HPL/LAURITZ KNUDSEN/C&S/BCH/HAVELLS/ABB/TOK/SIEMENS/ LEGRAND (NOVATEUR)/ SCHNEIDER	CATEGORY-3

11	TIMERS/TIME SWITCH - ANALOGUE/DIGITAL	HAVELLS / LAURITZ KNUDSEN SELEC BCH ABB/LEGRAND (NOVATEUR)/ EATON FINDER/SIEMENS/SCHNEIDER/CAS	CATEGORY-3
12	LED INDICATION LAMPS	EATON/OLIVE/ABB/LAURITZ KNUDSEN/C&S/BCH/VINAY LED/VAISHNOV/ SCHNEIDER	CATEGORY-3

CODE	ITEMS	PREFERRED MAKES	CATEGORY FOR TEST CERTIFICATION/ INSPECTION
B.	SUBSTATION RELATED ITEMS		
13	TRANSFORMER UP TO 500 KVA (DRY/OIL)	POWERWARE / ITE, GURGAON / ESENNAR / PVJ POWER / TRANSCON / AMES IMPEX / POWER STAR / JAY BEE / RTS / CG POWER / SUDHIR / VOLTAMP / BHARAT BIJLEE / KOTSONS / SCHNEIDER / KIRLOSKAR	CATEGORY-1
14	TRANSFORMER MORE THAN 500 KVA (DRY/OIL)	POWERWARE / ITE, GURGAON / ESENNAR / PVJ POWER / TRANSCON / AMES IMPEX / POWER STAR / JAY BEE / RTS / CG POWER / SUDHIR / VOLTAMP / KOTSONS / SCHNEIDER / BHARAT BIJLEE / KIRLOSKAR / SIEMENS	CATEGORY-1
15	HT PANEL	APPLICATION CONTROL PANEL / SHIV SHAKTI ENGINEERS / ITE, GURGAON / TECHNOCRAFTS / TENCO / MARINE ELECTRICALS / PASCAL / KEPL(KHOKHAR) / CONQUERENT / RISHA / CORONET / LS POWER / ZENIYA / EAP / CG POWER (CFPISL) / TRICOLITE / SUDHIR / LAURITZ KNUDSEN / ABB / TRISQUARE / SCHNEIDER / MILESTONE / EATON / ANANT POWER (ADVANCE) / ADLEC / SIEMENS	CATEGORY-1
16	BUS DUCT- SANDWICH	RISHA / ADVANCE / RR KABEL / LAURITZ KNUDSEN / C&S / LEGRAND (NOVATEUR) / EAE / SCHNEIDER	CATEGORY-2
17	H.T./L.T.TERMINATION & JOINTING KIT	DENSONS / CABSEAL® (HARI CONSOLIDATED) / COMPAQ / RAYCHEM	CATEGORY-3
18	POWER CABLES ABOVE 1.1 KV	V-MARC / SBEE / SUYOG ELECTRICALS LTD / DICABS / APAR / GEMSCAB / HPL / RR KABEL / SPECIAL CABLES / JMW KABEL / PARAMOUNT / TIRUPATI / KEC / POLY CAB / DYNAMIC / HAVELLS / KEI / UNISTAR / GLOSTER / RAVIN CABLES / NICCO	CATEGORY-1
19	POWER CABLES UP TO AND INCLUDING 1.1 KV	ALLCAB / AURAFLEX / V-MARC / VISHAL / SBEE / POLYCORE / VIN POWER / TORTEK / SUYOG ELECTRICALS LTD / GEMSCAB / RR KABEL / PLAZA / SPECIAL CABLES / KEI / JMW KABEL / POLY CAB / AVOCAB (CHANDRESH) / DYNAMIC / PARAMOUNT / SVARN / RALLISON (LKB) / BCH / TIRUPATI / KEC / GRANDLAY / HPL / GLOSTER / BONTON / HAVELLS / UNISTAR / APAR / RAVIN CABLES / NICCO	CATEGORY-1
20	CONTROL CABLES	GEMSCAB / ALLCAB / AURAFLEX / V-MARC / SBEE / POLYCORE / TORTEK / NICCO / SUYOG ELECTRICALS LTD / RR KABEL / PLAZA / SPECIAL CABLES / JMW KABEL / AVOCAB (CHANDRESH) / PARAMOUNT / SVARN / RALLISON (LKB) / BCH / BONTON / TIRUPATI / KEI / KEC / GRANDLAY / UNISTAR / NATCAB (KQUALITY) / HPL / POLY CAB / DYNAMIC / ALOKE (ANKUR) / HAVELLS / GLOSTER / FINE CAB / APAR / BATRA HENLAY / RAVIN CABLES	CATEGORY-1

21	TELEPHONE CABLE	POLY INFOCOM CABLES PVT LTD / ORBIT / DUCAB / RR KABEL / PLAZA / JMW KABEL / PARAMOUNT / ALOKE (ANKUR) / RALLISON (LKB) / BONTON / TIRUPATI / HAVELLS / KEI / KEC / KVVS (INDUSTIRAL) / HPL / POLYCAP / NICCO	CATEGORY-2
22	CO-AXIAL/ INSTRUMENTATION/ FIBRE OPTIC/ CAT-6/ CAT-6A CABLES	AURAFLEX / SBEE / TORTEK / SUYOG ELECTRICALS LTD / ORBIT / POLYCORE / POLY INFOCOM CABLES PVT LTD / BATRA HENLAY / GEMSCAB / RR KABEL / PLAZA / SPECIAL CABLES / JMW KABEL / POLYCAP / PARAMOUNT / LEGRAND (NOVATEUR) / SVARN / RALLISON (LKB) / BONTON / HAVELLS / KEI / ROSENBERGER / KEC / GRANDLAY / GLOSTER / SCHNEIDER / APAR	CATEGORY-2
23	GI / SS CABLE MANAGEMENT SYSTEM (CABLE TRAY-PRE-FABRICATED/ PERFORATED/ LADDER TYPE/ WIRE MESH TYPE ETC.)	GLOBAL / OBO BETTERMANN / MM ENTERPRISES / GLOBE / BEC / RMCON (RMG) / EXCEL CONTROL SYSTEMS / ADVANCE-ANANT / RMSCO (RAJASTHAN METAL) / SUMIP / CTM / LS POWER / LEGRAND (NOVATEUR) / INDIANA / MM ENGG / SLOTCO / MEM	CATEGORY-3
24	UNDER FLOOR RACEWAYS & ITS ACCESSORIES	OBO BETTERMANN / BEC / ADVANCE-ANANT / SPC ELECTROTECH / CTM / MM ENTERPRISES	CATEGORY-3
25	CAPACITORS	SELEC / NEPTUNE / LAURITZ KNUDSEN / P2 POWER / LEGRAND (NOVATEUR) / HAVELLS / TDK INDIA / SCHNEIDER	CATEGORY-2

ITEM CODE	ITEMS	AI ENGINEERING SERVICES LIMITED PREFERRED MAKES	CATEGORY FOR TEST CERTIFICATION INSPECTION
26	APFC PANEL/ACTIVE & PASSIVE (HYBRID) PANEL	MAK / APPLICATION CONTROL PANEL / SHIV SHAKTI ENGINEERS / TENCO / RISHA / INPHASE POWER TECHNOLOGIES PVT LTD / GLOBAL / R.P. CONTROLS / ULTIMA / SUPERTECH CONTROL SYSTEMS / SWITCHGEARS & FABRICATORS (SGF) / POWERTECH SWITCHGEARS / HAROLD / AB POWER / URJAYANT / SELEC / EAP / CG POWER / P2 POWER / KEPL (KHOKHAR) / ITE-GURGON (INDIAN TRANSFORMERS) / CONQUERENT / BCH / ANANT POWER (ADVANCE) / RISHA / HAVELLS / CORONET / SPC ELECTROTECH / PEATON / LS POWER / MILESTONE / LAURITZ KNUDSEN / LEGRAND (NOVATEUR) / C&S / NEPTUNE / SCHNEIDER / NEPTUNE / P2 POWER / SELEC / ANANT POWER (ADVANCE) / SCHNEIDER / SPC ELECTROTECH / ADLEC / RST ELECTRICALS PVT LTD / TDK INDIA / TRICOLITE / AMBIT	CATEGORY-1
27	LIGHTENING PROTECTION SYSTEM (LPS) COMPLYING UPDATED IEC/NBC	JEF / OBO BETTERMANN / GROUND ECA3G / NEXPO POWER SOLUTIONS / CAPE / JMV / ABB / DEHN / PHEONIX / TERCEL	CATEGORY-3
28	EARTHING SYSTEM (CHEMICAL)	JEF / OBO BETTERMANN / GROUND ECA3G / TERCEL / BEC / DEHN / ABB / JMV / NEXPO POWER SOLUTIONS / RMSCO (RAJASTHAN METAL) / CAPE / JK CHEMRODE / PROTEC-	CATEGORY-3

		DHRUVA (DHRUVA) / APS	
29	SURGE PROTECTION DEVICES	OBO BETTERMANN / DSS / GROUND ECA3G / TERCEL / WAGO / HAVELLS / ABB / CAPE / LAURITZ KNUDSEN / LEGRAND (NOVATEUR) / DEHN / MERSEN / JMV / PHOENIX CONTACT / PROTEC ALLIED / SECOM / CITEL	CATEGORY-3
30	SCADA (HARDWARE & SOFTWARE, EXCEPT COMPUTER & ACCESSORIES)	LAURITZ KNUDSEN / WAGO / PHOENIX CONTACT / HONEYWELL / SCHNEIDER / SIEMENS	CATEGORY-2
31	SF6 CIRCUIT BREAKER/ VACUUM CIRCUIT BREAKER	EATON / VOLTAMP / LAURITZ KNUDSEN / PASCAL / EATON / CG POWER / ABB / SCHNEIDER / SIEMENS	CATEGORY-2
32	SERVO / AUTOMATIC VOLTAGE STABILIZER	POWERWARE / KRYKARD / FUJI ELECTRIC / PVJ POWER / SELEC / ITE-GURGON (INDIAN TRANSFORMERS) / P2 POWER	CATEGORY-2
33	AUTO TRANSFER SWITCH (ATS)	EATON / HPL / LAURITZ KNUDSEN / LEGRAND (NOVATEUR) / SOCOMECH / HAVELLS / ASCO (SCHNEIDER)	CATEGORY-2
34	COMPACT SUB STATION	PVJ POWER / CORONET / ITE-GURGON (INDIAN TRANSFORMERS) / CONQUERENT / SUDHIR POWER / PEATON / LS POWER / VOLTAMP / LAURITZ KNUDSEN / ABB / SCHNEIDER	CATEGORY-1
35	EMERGENCY LIGHT-LED (PORTABLE)	LIFE-GUARD / PROLITE	CATEGORY-3
36	CABLES GLANDS	HENSEL / POLYCAP / TRINITY TOUCH / ROXTEC / BRACO / MCI / (METAL/ CRAFT)	CATEGORY-3
37	LUGS & THIMBLES	WAGO / POLYCAP / TRINITY TOUCH	CATEGORY-4
38	SYNTHETIC / PVC INSULATING MATS	CPRI certified for required voltage level	CATEGORY-2
39	INSULATION TAPE (HT/ LT)	MODIS / BENLO / ANCHOR	CATEGORY-4
C	DG SETS & RELATED ITEMS		
40	DIESEL ENGINE ABOVE 250 KVA	GREAVES COTTON / BAUDOUIN (SHANDONG) / MAHINDRA POWEROL / PERKINS / CUMMINS / KOEL / CATERPILLAR	CATEGORY-1
41	DIESEL ENGINE UPTO AND INCLUDING 250 KVA	GREAVES COTTON / BAUDOUIN (SHANDONG) / TMTL (TAFE MOTERS) / CUMMINS / MAHINDRA POWEROL / ASHOK LEYLAND / KOEL / CATERPILLAR	CATEGORY-1

ITEM CODE	ITEMS	PREFERRED MAKES	CATEGORY FOR TEST CERTIFICATION INSPECTION
42	ALTERNATOR	TOPS (TO POWER SYSTEM)/KIRLOSKAR/CATERPILLAR/GREAVES COTTON	CATEGORY-1
43	BATTERIES-LED ACIDIL ION	CLN/EXIDE/AMARON	CATEGORY-3
44	BATTERY CHARGER	SELEC/VERTIV/DELTA	CATEGORY-2
45	UPS-ABOVE 10 KVA	DELTA/ORION/FUJI ELECTRIC/KRYKARD/SEM/PROSTARM/UNILINE TMEIC/ POWER ONE/RIELLO/ABB/SOCOME/EATON/SCHNEIDER/NUMER IC-LEGRAND/ VERTIV (EMERSON)	CATEGORY-3
46	UPS – UPTO 10 KVA	DELTA/ORION/FUJI ELECTRIC/KRYKARD/PROSTARM/RIELLO/UNILINE/ABB/ POWER- ONE/DELTA/SOCOME/EATON/SCHNEIDER/NUMERIC-LEGRAND/ VERTIV (EMERSON)	CATEGORY-3
D	INTERNAL WIRING RELATED TEAMS		
47	MCB/ISOLATOR/MC BOB RCCB/RCBO/ELCB	ANCHOR (PANASONIC) / ORIENT ELECTRIC / LAURITZ KNUDSEN / MITSUBISHI/ LEGRAND (NOVATEUR)/CSS/HPL/ABB/POLY CAB/ HAVELLS/SCHNEIDER/INDO ASIAN (NOVATEUR)/GM/MK HONEYWELL/BCH/EATON	CATEGORY-2
48	MS CONDUIT (ISI MARKED)	VPL/BEC/AKG/STEEL KRAFTS/TRINITY TOUCH/RMCON (RMG STEELS)/SUPER/ JPC PIPES	CATEGORY-3
49	PVC CONDUIT (ISI MARKED)	VPL/FUSION/ASTRAL/SKYDA/BEC/NORPACK/MODI'S/ANC HOR (PANASONIC)/ POLY CAB/TRINITY TOUCH/AKG/GM/JPC PIPES	CATEGORY-3
50	INDUSTRIAL SOCKET IN SHEET STEEL ENCLOSURE WITH MCB/SWITCH	AJMERA ELECTROTECH LLP / LAURITZ KNUDSEN / POLY CAB/NEPTUNE-BALS/ LEGRAND (NOVATEUR)/CAS/BCH/HAVELLS/HPL/SCHNEIDER	CATEGORY-4
51	INSULATED COPPER WIRE	RAJNIGANDHA / GEMSCAB / ALLCAB / AURAFLEX / V-MARC / SBEE / UNISTAR / POLYCORE / TORTEK / BATRA HENLAY / RR KABEL / AKG / ANCHOR (PANASONIC) / BENTEC / JMW KABEL / POLY CAB / AVOCAB (CHANDRESH) / SVARN / PARAMOUNT / RALLISON (LKB) / HAVELLS / NATCAB (KQUALITY) / BONTON / GRANDLAY / GLOSTER / BCH / PLAZA / APAR / GM / PARAGON (ELEKTRON) / FINE CAB / ZENIUM	CATEGORY-2
52	SWITCHES/SOCKET S/ TELEPHONE/TV/DATA SOCKET BOXES (MODULAR TYPE)	RR KABEL/ANCHOR (PANASONIC)/ORIENT ELECTRIC/INDO ASIAN (NOVATEUR)/CSS POLY CAB/HPL/LAURITZ KNUDSEN/LEGRAND (NOVATEUR)/HAVELLS/GM/ MK HONEYWELL/WESTERN VEGA/ABB	CATEGORY-3
53	SWITCHES/SOCKET S/	ANCHOR (PANASONIC)/ BENTEC/ HAVELLS/HPL/POLY CAB/MK HONEYWELL/ WESTERN	CATEGORY-3

	TELEPHONE/TV/DA TA SOCKET/BOXES (PIANO TYPE)	VEGA	
E	FIRE ALARM EQUIPMENTS		
54	FIRE/SMOKE DETECTOR/MULTI CRITERIA DETECTOR/ FIRE ALARM PANEL/ REPEATER PANEL/ Hooter/MANUAL CALL POINT/RESPONSE INDICATOR/FAULT ISOLATOR	NOTOFIRE / VELOX / SCHNEIDER / PANASONIC / EATON / HOCHIKI / RAVEL / SIEMENS / BOSCH / APOLLO / EDWARDS (UTC) / G + M / SCHRACK / HONEYWELL / KIDDE (UTC) / GST (UTC) / TYCO / ASEs	CATEGORY-2

ITEM CODE	ITEMS	PREFERRED MAKES	CATEGORY FOR TEST CERTIFICATION INSPECTION
55	FIRE SURVIVAL CABLE	GEMSCAB / SBEE / FRTEK / BATRA HENLAY / RR KABEL / SEPCIAL CABLES/ SVARN / JMW KABEL / POLY CAB / ALOKE (ANKUR)/ RALLISON (LKB) / KEC / GRANDLAY / RAVEL / GLOSTER / KEI / BONTON / BOSCH / WREXHAM / FUSION POLYMER	CATEGORY-2
56	FIRE SIGNAGES	ASES / LIFEGUARD (UNITED FIRE) / EATON / FIRE SHIELD / BOSCH / RAVEL / DELITE / AUTO GLO (PROLITE)	CATEGORY-3
57	ASPIRATION SYSTEM	SHOOTFIRE (VIMAL FIRE) / HOCHIKI / BOSCH / RAVEL	CATEGORY-2
F	LED LIGHT FIXTURE AND FANS		
58	LIGHT FIXTURE WITH LED – INDOOR	PYROTECH / GOLDWYN LED / KI KALINGIA / GM / NESSA / PLUS LIGHT TECH / LEGERO / MAGIK / LIGHTBOOK / LEKSA LIGHTING / RR KABEL (RR/ AARAYSTORM) / PANASONIC / EVEREADY / INSTAPOWER / POLY CAB / SURYA / HALONIX / HAVELLS / SIGNIFY / JAQUAR (JAQUAR LIGHTING) / HPL / BAJAJ / WIPRO / ORIENT / CROMPTON / REGENT	CATEGORY-2
59	LIGHT FIXTURE WITH LED – OUTDOOR/FAÇADE	PYROTECH / GOLDWYN LED / KI KALINGIA / GM / NESSA / PLUS LIGHT TECH / MAGIK / LIGHTBOOK / LEKSA LIGHTING / RR KABEL (RR/ AARAYSTORM) / PANASONIC / HPL / BENTEC (BENLO) / EVEREADY / POLY CAB / K-LITE / SURYA / TRANSRAIL / HALONIX / HAVELLS / JAQUAR (JAQUAR LIGHTING) / SIGNIFY / INSTAPOWER / BAJAJ / WIPRO / ORIENT / CROMPTON / REGENT	CATEGORY-2
60	LINEAR LED/ CUSTOMISED DECORATIVE LED LIGHT FIXTURE	PYROTECH / GOLDWYN LED / KI KALINGIA / GM / LIGHT FORMS / PLUS LIGHT TECH / LEGERO / MAGIK / WMEL / FORUS / HUBUT / LIGHTBOOK / PANASONIC / POLY CAB / RR KABEL (RR/ AARAYSTORM) / EVEREADY / SURYA / HALONIX / HAVELLS / HPL / SIGNIFY / BAJAJ / WIPRO / ORIENT / CROMPTON / REGENT	CATEGORY-2

61	AVIATION WARNING OBSTRUCTION LIGHT	PYROTECH / FORUS / KI KALINGIA / HARYANA GENERAL INDUSTRIES / VSTP / K-LITE / SURYA / TRANSRAIL / HPL / INSTAPOWER / BAJAJ / WIPRO / CROMPTON /	CATEGORY-3
62	CEILING/WALL/ EXHAUST/PEDESTA L FAN (CONVENTIONAL/ BLDC)	ORIENT ELECTRIC / RR KABEL / ANCHOR (PANASONIC) / POLY CAB / HALONIX / HAVELLS / ALMONARD / USHA / KHAITAN	CATEGORY-3
63	HVLS FANS	MARUT AIR / RR KABEL / RITE HITE	CATEGORY-3
G	AIRCONDITIONING AND FIRE FIGHTING ACCESSORIES		
64	GI / M S PIPE (ISI MARKED)	VPL / ITL / BEC / APL APOLLO / PRAKASH SURYA / JINDAL STAR / TATA / SAIL / HIRA PIPES (RR ISPAT)/	CATEGORY-2
65	MANUAL VALVE- BUTTERFLY/SLUICE/ CHECK/NRV/ FOOT/GATE/GLOBE	LEHRY / SANT / VENUS / NEWAGE FIRE / CASTLE / ZOLOTO / VTM (VA VALVES) / EMERALD / ADVANCE VALVES / DIVINE / C&R	CATEGORY-2
66	MOTORIZED VALVE- BALANCING/ MODULATING / PICS/ DELTAT/CONTROL/ MIXING	SANT / VTM (VA VALVES) / CASTLE / DANFOSS / ZOLOTO / ANERGY	CATEGORY-2
67	SUCTION/POT/Y- STRAINER	VENUS / CASTLE / ZOLOTO / ANERGY / SANT / VTM (VA VALVES) / EMERALD	CATEGORY-2
68	FLEXIBLE CONNECTION FOR SPRINKLER/ SPRINKLER	LIFEGUARD (UNITED FIRE) / FIRE SHIELD / NEWAGE / EXFLAME / HD / SAFEFIRE	CATEGORY-2
69	FIRE HYDRANT LANDING VALVES/INSTALLATI ON VALVE FIRE BRIGADE CONNECTION	SHOOTFIRE (VIMAL) / LIFEGUARD (UNITED FIRE) / ZOLOTO / KALPEX (KALPATARU) / NEWAGE / EXFLAME / SAFEFIRE / HD / FIRE SHIELD	CATEGORY-2

CODE	ITEMS	PREFERRED MAKES	CATEGORY FOR TEST CERTIFICATION/INSPEC TION
70	FIRE HOSE PIPES/ FIRST AID HOSE REEL/BRANCH PIPE/NOZZLE/ COUPLINGS	SHOOTFIRE (VIMAL)/LIFEGUARD (UNITED FIRE)/KALPEX (KALPATARU)/NEWAGE/ FIRE SHIELD/EXFLAME/SAFEFIRE	CATEGORY-2
71	FIRE EXTINGUISHERS	DSS/KANEX/SHOOTFIRE (VIMAL)/LIFEGUARD (UNITED FIRE)/CEASEFIRE/SAFEFIRE AFS (ADVANCED)/ KALPEX (KALPATARU)/EXFLAME/SUPREMEX/FIRE SHIELD/ MINIMAX/SAFEX	CATEGORY-2

72	GAS BASED FIRE SUPPRESSION SYSTEM	SYNERGY & SYNERGY PLUS/FIRECEASE/FIRETREX/VIVINA/ASES/CEASEFIRE SHOOTFIRE (VIMAL)/LIFEGUARD (UNITED FIRE)/ KALPEX(KALPATARU)/ FOAMTECH/SUPREMEX/SIEMENS/ FIRETREX (SVS)	CATEGORY-2
73	KITCHENHOOD GAS BASED SUPPRESSION SYSTEM	SYNERGY/FIRECEASE/FIRETREX/VIVINA/SHOOTFIRE (VIMAL)/UNITED/FOAMTECH CEASEFIRE/KALPATARU/	CATEGORY-2
74	HIGH/LOW PRESSURE WATER MIST BASED FIRE SUPRESSION SYSTEM	SYNEAQUAMIST/FIRETREX/SHOOTFIRE	CATEGORY-2
75	FLOW SWITCH/PRESSURE SWITCH	OMICRON/ENERGY/DANFOSS/EMERALD/SWIZER	CATEGORY-3
76	FIREMAN AXE	LIFEGUARD (UNITED FIRE)/NEWAGE/FIRE SHIELD/ADVANCE	CATEGORY-3
77	DIESEL ENGINE DRIVEN PUMP FOR FIRE FIGHTING	TMTL (TAFE MOTERS)/KSB/WILO/GRUNDFOS/KIRLOSKAR/ASHOK LEYLAND/ CATERPILLAR/MAHINDRA POWEROL	CATEGORY-2
78	PUMPS-VERTICAL/ HORIZONTAL/ SUBMERSIBLE	HAVELLS/WILO/GRUNDFOS/ANDRITZ/KSB/KIRLOSKAR/XY LEM/AQUA_ANS/ MATHER & PLATT/CROMPTON	CATEGORY-2
79	MOTORS	LHP/ROTOMOTIVE/KSB/HAVELLS/TMEIC/GRUNDFOS/BCH /KIRLOSKAR/ BHARAT BULEE/ALSTOM/SEIMENS/CROMPTON	CATEGORY-2
80	MOTOR STARTER	BENTEC/KSB/HAVELLS/LS POWER/GRUNDFOS/PHOENIX/C&S/BCH/SCHNEIDER EATON/MOTOVARIO/SIEMENS/SCHNEIDER	CATEGORY-2
81	SINGLE PHASE PREVENTER/OVER LOAD PROTECTION/HIGH VOLTAGE/LOW VOLTAGE/EARTH FAULT PROTECTION	C&S/LAURITZ KNUDSEN/SELEC/SIEMENS	CATEGORY-3
82	GI SHEETS	JSW STEEL/TATA/HSL/SAIL	CATEGORY-2
83	GRILLS/DIFFUSERS	PRECISE/ASAWA INSULATION/MAPRO (AIR FLOW)/CRYSTAL/TRISTAR	CATEGORY-3
84	INSULATION MATERIAL- ROCK WOOL/GLASS WOOL	ENSAVE/ROCK INSUL/AEROLAM/SUNROCK (THERMOCARE ROCK WOOL)/ INSUFLEX (THE SUPREME)/LIONROCK/POLYBOND/EPACK/TWIGA INSUL	CATEGORY-3
85	INSULATION MATERIAL- XLPE/EPOM NITRILE RUBBER	AEROFOAM/PARAMOUNT/SAFARI/AEROLAM/INSUFLEX (THE SUPREME)/ EPACK/SUNROCK (THERMOCARE ROCK WOOL)/INSUFLEX (THE SUPREME)/ LIONROCK/POLYBOND/TWIGA INSUL	CATEGORY-3

ITEM CODE	ITEMS	PREFERRED MAKES	CATEGORY FOR TEST CERTIFICATION/ INSPECTION
86	PRE-INSULATED DUCT	ASAWA INSULATION / MECHEASY	CATEGORY-3
87	PRE-FABRICATED GI DUCT	ASAWA INSULATION / WAD / DUCTOFAB / WAVES / ZECO / ADVANCE VENTILATION	CATEGORY-3
88	FIRE DAMPERS	MAPRO (AIR FLOW) / GREENHECK / TRISTAR / RUSKIN / CARRIER	CATEGORY-2
89	AIR CURTAINS	EURONICS / MITZVAH / TECHNOCRATS / DOLPHY	CATEGORY-2
90	MODULATING MOTOR FIRE DAMPER MOTOR	LHP / ANERGY / HONEYWELL / GRUNDFOS / BALEMO / SIEMENS	CATEGORY-2
91	AIR FILTERS (MERVIESP HEPA) FOR HVAC SYSTEM	MECHMAARK / ADITYA / O2 CURE / WAVES / HUMIDIN / INTELLIGREEN	CATEGORY-3
92	THERMOSTATS/ HUMIDISTATS	OMICRON / ANERGY / FINDER / DANFOSS / HONEYWELL	CATEGORY-3
93	THERMOMETERS/ PRESSURE GAUGE	OMICRON / ANERGY / EMERALD / FIEBIG	CATEGORY-3
94	INTEGRATED BUILDING MANAGEMENT SYSTEM (IBMS/BMS/SCADA) SYSTEM (HARDWARE & SOFTWARE, EXCEPT COMPUTER & ACCESSORIES)	SCHNEIDER / ENLITE / PANASONIC / WAGO / PHOENIX / SIEMENS / AZBIL / LAURITZ KNUDSEN / TRIDIYMincludes all hardware of BMS	CATEGORY-3
95	FIELD DEVICES (FOR IBMS-BMS/SCADA)	SELEC / OMICRON	CATEGORY-3
96	VFD DRIVE	YASKAWA / SELEC / FUJI / TMEIC / LAURITZ KNUDSEN / DANFOSS / SCHNEIDER / SIEMENS	CATEGORY-3
H	AC PLANTS, AC UNITS & EQUIPMENTS		
97	AIR-CONDITIONER UNITS SPLIT / WINDOW/ CASSETTE/ TOWER	HAVELLS / HITACHI (JOHNSON) / LG / BLUE STAR / DAIKIN / VOLTAS / SAMSUNG / HAIER / O GENERAL / PANASONIC / CARRIER	CATEGORY-2
98	PRECISION AIR CONDITIONING (PAC)	CLIMAVENTA / SWEGON BLUE BOX / SIDWAL	CATEGORY-3
99	PACKAGED AIRCONDITIONER	DAIKIN / HITACHI (JOHNSON) / VOLTAS / LG / SIDWAL / CARRIER / DAIKIN / BLUE STAR	CATEGORY-2

100	CHILLERS	KIRLOSKAR / DAIKIN / CARRIER / VOLTAS / BLUE STAR / LG / CUMAVENETA / TRANE / YORK / SWEGON BLUE BOX / DUNHAM BUSH	CATEGORY-1
101	AIR HANDLING UNITS (AHU)	CRYSTAL / CITIZEN / WAVES / EDGE TECH / CARRIER / ZECO / HUMIDIN / TRISTAR	CATEGORY-1
102	FAN COIL UNIT (FCU)	WAVES / CRYSTAL / ZECO / CITIZEN / EDGE TECH / CARRIER / DAIKIN / TRISTAR / YORK	CATEGORY-2
103	VRV/ VRF HVAC UNIT	LG / HITACHI (JOHNSON) / SAMSUNG / DAIKIN / VOLTAS / HAIER / CARRIER / BLUE STAR	CATEGORY-2

ITEM CODE	ITEMS	PREFERRED MAKES	CATEGORY FOR TEST CERTIFICATION/ INSPECTION
104	COOLING TOWER UP TO 200 TR	DELTA/BELL COOLING TOWERS/MHIR/PAHARPUR	CATEGORY-2
105	COOLING TOWER ABOVE 200 TR	DELTA/BELL COOLING TOWERS/MHIR/PAHARPUR	CATEGORY-2
106	EXPANSION TANK	ANERGY	CATEGORY-3
107	AIR & DIRT SEPARATOR	ANERGY	CATEGORY-3
108	FAN-AXIAL FLOW/ INLINE/VENTILATION/ PROPELLER/PLUG	DYNAIR- MAICO/DUSTECH/KRUGER/WAVES/HUMIDIN/WOLTER/AIR FLOW/ RR KABEL/CRYSTAL/GREENHECK	CATEGORY-2
109	RO SYSTEM WATER SOFTENING PLANT	SURYA RO/DELTA/WAE/VENZA (MGROW)	CATEGORY-3
110	WATER COOLER	CLIMATROL/VOLTAS/ORIENT ELECTRIC/SIDWAL	CATEGORY-3
111	WATER DISPENSER	WAE/VENZA (MGROW)/VOLTAS	CATEGORY-3
112	DRINKING WATER FOUNTAIN	WAE/VENZA (MGROW)/OASIS	CATEGORY-3
1	PA SYSTEM & RELATED ITEMS		
113	AMPLIFIERS	ATEIS/SCHRACK/HEINRICH/BOSCH/HONEYWELL/OPTIMUS/BOSE	CATEGORY-2
114	ANNOUNCEMENT MICROPHONES/CA R CALL CONSOLES	ATEIS/SCHRACK/HEINRICH/BOSCH/HONEYWELL/OPTIMUS/BOSE	CATEGORY-2
115	CONTROLLERS	ATEIS/SCHRACK/BOSCH/HEINRICH/HONEYWELL/OPTIMUS	CATEGORY-3
116	SPEAKER	ATEIS/SCHRACK/HEINRICH/BOSCH/NOTIFIRE/OPTIMUS/BOSE	CATEGORY-3
117	DIGITAL CALL STATION/ WORK	AVTRON/ATEIS/HEINRICH/BOSCH/OPTIMUS	CATEGORY-3

	STATION		
118	EQUIPMENT RACK	HEINRICH/BOSCH/PRESIDENT/ORDEIN	CATEGORY-3
119	DVD/DVR /MP3 PLAYER	TYCO/HEINRICH/BOSCH/HONEYWELL/SIEMENS/OPTIMUS	CATEGORY-2
120	CABLE FOR MICROPHONE/SPEAKER	RR KABEL/JMW KABEL/POLY CAB/BONTON/BOSCH/HPL/KVVS (INDUSTRIAL)	CATEGORY-2
121	DIGITAL LINE ARRAY SPEAKER	ATEIS/HEINRICH/BOSCH/BOSE/OPTIMUS	CATEGORY-2
122	CCTV CAMERA	AVTRON/TYCO/ILLUSTRA/HEINRICH/SIEMENS/BOSCH/HONEYWELL/ULTRAK/PELCO	CATEGORY-2
123	MONITOR/DISPLAY-LCD/ LED/PLASMA	LG/PANASONIC/SAMSUNG/SONY	CATEGORY-2
124	COMPUTER/LAPTOP (FOR IBMS/SMS/SCADA)	HP/DELL/LENOVO/IBM	CATEGORY-4
125	COMPUTER ACCESSORIES (KEY BOARD/MOUSE)	HP/DELL/LENOVO/IBM	CATEGORY-4

CODE	ITEMS	PREFERRED MAKES AI ENGINEERING SERVICES LIMITED	CATEGORY FOR TEST CERTIFICATION INSPECTION
J	SOLAR PLANT & ACCESSORIES		
126	SOLAR INVERTER/POWER CONDITIONING UNIT	SELEC/HAVELLS/POWER ONE	CATEGORY-2
127	SOLAR MODULES	SWELECT/HAVELLS/JAKSON	CATEGORY-2
128	DC CABLES	GEMSCAB/APAR/RR KABEL/SPECIAL CABLES/JMW KABEL/POLY CAB/HAVELLS/RALLISON (LKB)/KEC/HPL/GLOSTER/KEI/BONTON	CATEGORY-2
K	MISCELLANEOUS & OTHER MECHANICAL ITEMS		
129	HAND DRIER	TECHNOCRATS/EURONICS/DOLPHY/ANAND AUTOMATIC SYSTEM	CATEGORY-3
130	DOUBLE WALL CORRUGATED HOPE PIPE/PLAIN HOPE PIPE	VPL/GANGOTRI/ASTRAL/CPE/BEC PLAST/KESHAV KRIPA/VALENS/TIRUPATI PLASTOMATIC/GEMINI/HIMALYAN/MANGALAM	CATEGORY-3
131	AUTOMATIC SLIDING DOOR	HOUSYS/GEZE/NEPTUNE/S. ADITYA/DORMAKABA/TECHNOCRATS/AUTOINGRESS	CATEGORY-3

132	ELEVATOR	ORBIS/SCHINDLER/FUJITEC/INFRA/TRIO ELEVATOR/OMEGA ELEVATOR/ESCON JOHNSON LIFTS/ECE/KONE/TKE/OTIS	CATEGORY-1
133	ESCALATOR TRAVELATOR	ORBIS/SCHINDLER/TRIO ELEVATOR/OMEGA ELEVATOR/JOHNSON LIFTS/KONE/ TKE/OTIS	CATEGORY-1
134	BOLLARD	HOUSYS/AVIANS/SWARAJ/S. ADITYA/TECHNOCRATS/EURONICS/NEPTUNE/ BROSIS/FAAC	CATEGORY-3
135	BOOM BARRIER	HOUSYS/AVIANS/SWARAJ/S ADITYA/DORMAKABA/TECHNOCRATS/BROSIS/ NEPTUNE/AUTOINGRESS/FAAC/SPEEDGATZ	CATEGORY-3
136	TROLLEY GATE	AVIANS/SWARAJ/S ADITYA/TECHNOCRATS/DELITE/AUTOINGRESS/LOTUS	CATEGORY-3
137	TYRE KILLER SPIKE BARRIER	HOUSYS/SWARAJ/S ADITYA/TECHNOCRATS/NEPTUNE/BROSIS/FAAC/ SPEEDGATZ	CATEGORY-3
138	UNDER VEHICLE SCANNING SYSTEM	HOUSYS	CATEGORY-3
139	EXTERNAL LIGHTING POLES/DECORATIVE LIGHT POLE	SUBHAM/AMBIKA POLES/LYSAGHTPOLE/VAKRANGE/VSTP/UTKARSH/ RMSCO (RAJASTHAN METAL)/SKIPPER/BP PROJECTS/K-LITE/TRANSRAIL/ PRAKASH SURYA (SURYA ROSHNI)/SUMIP/SIGNIFY/BAJAJ/WIPRO/CROMPTON/ ORIENT ELECTRIC	CATEGORY-3
140	HIGH MAST	SUBHAM/AMBIKA POLES/VAKRANGE/VSTP/LYSAGHTPOLE/UTKARSH/SKIPPER/ BP PROJECTS/K-LITE/PRAKASH SURYA (SURYA ROSHNI)/TRANSRAIL/SIGNIFY/ BAJAJ/WIPRO/ORIENT ELECTRIC/CROMPTON	CATEGORY-3
141	ALUMINIUM LADDERS/ HYDRAULIC LADDERS	DELITE	CATEGORY-2
142	BOOM SCISSOR/SPIDER/VE RTIC MLIFT AL LIFT		CATEGORY-2
143	DASH FASTENERS	HILTI/FISCHER	CATEGORY-4
144	GEAR BOX	MGM VARVEL/MAK	CATEGORY-3
145	GEARED MOTOR	LHP/LENZE/ROTOMOTIVE/MGM VARVEL/MAK	CATEGORY-3
146	WEATHER -PROOF JUNCTIONBOX	TRINITY TOUCH/SPELSBERG (CAPE)/RITTAL	CATEGORY-3

## **PROFORMA & APPENDIX**

**AI ENGINEERING SERVICES LIMITED**

**FORM "A"**

DETAILS OF SIMILAR WORKS SUCESSFULLY COMPLETED OR SUBSTANTIALLY COMPLETED DURING THE LAST SEVEN YEARS.

Sl. No.	Details of work	W-1	W-2	W-3
i)	Name of work / project and Location			
ii)	Name and Address of client			
iii)	Awarded Cost of work (In Rs. Lakhs)			
iv)	Date of commencement as per contract			
v)	Stipulated date of completion			
vi)	Actual date of completion			
vii)	Completion Cost / Actual work done			
viii)	List of Litigation /Arbitration Cases, if any			


 The logo for AIESL (AI Engineering Services Limited) features the acronym 'AIESL' in a bold, blue, sans-serif font. Below it, the full name 'AI ENGINEERING SERVICES LIMITED' is written in a smaller, blue, all-caps, sans-serif font.
**SIGNATURE (S) OF BIDDER (S) (WITH STAMP)**

**Note:** The contractor shall give list of only of eligible category works of requisite amount with supporting documents issued from client.

## FORM "B"

## FINANCIAL INFORMATION

Name of the firm / contractor:.....

1. Financial Analysis - Details to be furnished turnover on construction works with profit / loss as per figure in balance sheet account for the last three years duly certified by the Chartered Accountant as submitted by the applicant to the Income - Tax Department

Figure in lakhs Rs.

S. No.	Particulars	Financial Years (Last three years)		
		FY 2022-23	FY 2023-24	FY 2024-25
1.	Turn-Over on Construction Works			
2.	Profit / Loss after Taxes (standalone)			
3.	Net Worth			

2. Financial arrangements for carrying out the proposed work Unique Document Identification Number (UDIN).....

SIGNATURE OF CHARTERED ACCOUNTANT WITH SEAL

SIGNATURE (S) OF BIDDER (S)

Note: The bidder should give information strictly on above format.

**TENDER ACCEPTANCE LETTER**  
**(To be given on Contractor's Letter Head)**

To  
AI ENGINEERING SERVICES LIMITED,  
2nd Floor, AI Admin. Building,  
Safdarjung Airport,  
New Delhi-110 003.

**Sub: Acceptance of Terms & Conditions of Tender. (Tender ID No: .....)**

**Name of work: Renovation/relocation and development of AIESL (a subsidiary company of AIAHL) Corporate Office, 2nd Floor, AI Admin. Building, Safdarjung Airport, New Delhi 110 003.**

Dear Sir,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from CPP Portal web site(s) namely: <https://etenders.gov.in/eprocure/app> as per your advertisement, given in the above-mentioned website(s).
2. I / We hereby certify that I / we have inspected the site and read the entire terms and conditions of the tender documents, corrigendum(s) and reply to query if any made available to me/ us which shall form part of the contract agreement, and I / we shall abide hereby by the terms / conditions / clauses contained therein.
3. I / We hereby unconditionally accept the tender conditions of AIESL's tender documents in its totality / entirety for the above-mentioned work.
4. I/We declare that I/We have not paid and will not pay any bribe to any officer of AIESL for awarding this contract at any stage during its execution or at the time of payment of bills, and further if any officer of AIESL asks for bribe/gratification, I will immediately report it to the Appropriate AIESL'.
5. I/ We hereby submitted that I/ We paid/ submitted the required earnest money as per NIT conditions.
6. I / We certify that all information/ documents furnished by our Firm is true & correct and in the event at any stage, the information/ documents is found to be incorrect/ untrue or found violated, then we shall be liable for debarment from tendering in AIESL without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

**(Signature of the Bidder,  
with Official Seal)**

**UNDERTAKING REGARDING DEBARMENT/BLACKLISTING**  
**(To be given on Contractor's Letter Head)**

**Name of work:** Renovation/relocation and development of AIESL (a subsidiary company of AIAHL) Corporate Office, 2nd Floor, AI Admin. Building, Safdarjung Airport, New Delhi 110 003.

(Tender ID No: )

I/We ..... (Name and post of authorized signatory) on behalf of .....(Name of firm) do here by solemnly affirm and declare as follows:

1. Our firm is not restrained/ debarred/ blacklisted by any Govt. Dept./PSU's/ Dept. of Expenditure (DoE), Ministry of Finance and the debarment/ blacklisting/ restraint is not in force as on last date of opening of tender (Envelope-I, normally called as technical bid).
2. None of Proprietor /Partners /Board Members /Directors of M/s..... (Name of firm) has remained Proprietor /Partner /Board Member /Director in any firm which stands debarred /blacklisted/restrained by Govt. Dept./PSU's/ Dept. of Expenditure (DoE), Ministry of Finance and the debarment/ blacklisting/ restraint is not in force as on last date of opening of tender (Envelope-I, normally called as technical bid).
3. Our firm understands that if our firm either debarred before the date of opening of tender (first bid, normally called as technical bid, in case of two packet/two stage bidding) or debarred before the date of contract by Govt. Dept./PSU's/ Dept. of Expenditure (DoE), Ministry of Finance (Debarment applicable for all Ministries/ Departments), our bid is liable to be rejected at that stage.
4. Our firm understands that at any stage, if above statements are found to be false, our firm shall be liable for debarment from bidding in AIESL, apart from any other appropriate contractual legal action including debarment/ blacklisting/ restraint, termination of the contract etc. as deemed fit.

**Date:**

**Signature**

**Place:**

**Name of the authorized signatory of the firm**

**UNDERTAKING REGARDING PLANT AND MACHINERY**  
**(To be given on Contractor's Letter Head)**

**Name of work:** Renovation/relocation and development of AIESL (a subsidiary company of AIAHL) Corporate Office, 2nd Floor, AI Admin. Building, Safdarjung Airport, New Delhi 110 003.

(Tender ID No: )

I / we have applied for issue of tender for the above-mentioned work and hereby undertake that: -

1. I / we have gone through the tender documents and drawings in its entirety, visited the site and have understood the nature of work to be executed.
2. I / we will deploy adequate T&P in working condition with adequate standby arrangement for efficient / timely execution of the work.
3. I / we have submitted the details of T&P owned by us and undertake to procure or take on lease the balance T&P for the work as per requirement of the work matching with the work programme.
4. I / we will abide by any instructions by AIESL for such procurement / arrangement of T&P on lease as is considered necessary for efficient / timely execution of work.
5. I / We will deploy sufficient plant and machinery as per the requirement of the work in consultation with the Engineer-In-Charge (E-I-C) to achieve the milestones / targets and overall completion within the time period.

Date:

Signature

Place:

Name of the authorized signatory of the firm]

## CHECK LIST/PQ PER FORMAT

**Name of work: Renovation/relocation and development of AIESL (a subsidiary company of AI AHL) Corporate Office, 2nd Floor, AI Admin. Building, Safdarjung Airport, New Delhi 110 003.**

(Tender ID No: )

Name and address of the Firm / Contractor			Copy enclosed Yes / No
Telephone No.			
Mobile No.			
E Mail ID			
Authorized Signatory Name with Designation.			Copy enclosed Yes / No
S. No.	Qualifying criterion / parameter / supportive document	Supporting Document must have the following salient information which AIESL would like to note	Documents submitted in Support of column 3
(1)	(2)	(3)	(4)
1.	Part-1: (Tender processing fee, EMD, Technical Bid and Pre-qualification)		
<b>A)</b>	<b>Tender Processing Fee &amp; EMD</b>		
	i) Details of tender fee	Scanned copy of Tender Processing Fee paid as prescribed above.	Copy enclosed Yes / No
	ii) Details of Earnest Money Deposit (EMD)	Scanned copy of Tender EMD paid as prescribed above.	Copy enclosed Yes / No
<b>B)</b>	<b>Technical Bid containing the following:</b>		
	i) Unconditional acceptance letter	As per Annexure	Copy enclosed Yes / No
	ii) Permanent Account (PAN) and GST Registration No.	Enclosed documentary proof in support.	Copy enclosed Yes / No
	iii) Undertaking regarding black listing / debarment on Company letter's head.	As per Annexure	Copy enclosed Yes / No
	iv) Form-A along with Work completion certificate as WNIT	As per Annexure	Copy enclosed Yes / No
	v) Form-B	As per Annexure	Copy enclosed Yes / No
	vi) Undertaking regarding deployment of T&P on Company letter's head.	As per Annexure	Copy enclosed Yes / No
	vii) Copy of Authorization letter / Power of Attorney.		Copy enclosed Yes / No
	viii) Check list / PQ Performa	As per Annexure	Copy enclosed Yes / No
<b>C)</b>	<b>Qualifying requirements of contractors / tenderers containing the following:-</b>		
Experience details (excluding GST)			
	i) Should have satisfactorily completed the works during last seven years ending on .....	Certificate of completion of the Three/Two/One work(s) as applicable	

		<p><b>Work No. 1</b></p> <p>Name of work: Work Order/Agreement No. &amp; Date. Contract Cost: Stipulated Date of commencement as per agreement. Stipulated Date of completion as per agreement. Actual Date of completion Actual Completion Cost: EOT granted (if any) upto ..... with/without levy of compensation. Completion certificate issuing AIESL name and designation.</p>	<p>Copy enclosed Yes / No</p> <p>Details of EOT case as per column-3</p>
		<p><b>Work No. 2</b></p> <p>Name of work: Work Order / Agreement No. &amp; Date. Contract Cost: Stipulated Date of commencement as per agreement. Stipulated Date of completion as per agreement. Actual Date of completion Actual Completion Cost:</p>	<p>Copy enclosed Yes / No</p>
		<p>EOT granted (if any) upto ..... with/without levy of compensation. Completion certificate issuing AIESL name and designation.</p>	<p>Details of EOT case as per column-3</p>
		<p><b>Work No. 3</b></p> <p>Name of work: Work Order / Agreement No. &amp; Date. Contract Cost: Stipulated Date of commencement as per agreement. Stipulated Date of completion as per agreement. Actual Date of completion Actual Completion Cost: EOT granted (if any) upto ..... with / without levy of compensation. Completion certificate issuing AIESL name and designation. Completion certificate issuing AIESL name and designation.</p>	<p>Copy enclosed Yes / No</p> <p>Details of EOT case as per column-3</p>

ii)	<b>List of work in hand</b>		
	Whether experience from Govt. organizations or private clients?	Govt. Organization/Private Clients. (Tick whichever is applicable. In support of experience from private clients, TDS certificate from clients is to be enclosed).	
iii)	<b>TURNOVER :</b> Annualized average financial turnover Abridged Balance Sheet of the firm with profit and loss account shall be submitted along with the application.	Year	Turn Over (In Lakhs)
		2022-23	
		2023-24	
		2024-25	
		Average:	
<b>2. Envelope- II: - The Financial e- Bid through CPP portal:</b>			
	Standard BOQ (.xls)		BOQ enclosed Yes / No
<b>3. Details of any other information:</b>			



Place:

**Signature Authorized Signatory of the contractor/ Firm**

**DECLARATION**

I ( ) hereby declare that the documents submitted /enclosed are true and correct.

In case any document at any stage found fake / incorrect, my EMD may be forfeited & action as deemed fit by AIESL can be taken against me.

Place:

**Signature Authorized Signatory of the contractor/ Firm**

Date:

**SECTION D:**  
**TECHNICAL BID FORMAT**

(To be submitted on Bidder's company letterhead)

(all pages must be signed and stamped with the company's seal)

**Tender No: AIESL/HQRS/GM/2025/1024 dtd 18-12-2025**

**Tender Description: Renovation/relocation and development of AIESL Corporate Office, 2<sup>nd</sup> Floor, AI Admin. Building, Safdarjung Airport, New Delhi- 110 003.**

**Bidder's Details: (all informations below must be specific and no generic response like NA etc. will be accepted)**

<b>Sl.No</b>	<b>Description</b>	<b>Information to be furnished along with supporting documents</b>
1.	Name of Contract	
2.	Name of the Company/Establishment	
3.	Full Address of Registered Office	
4.	Telephone No./ Mobile No.	
5.	Email id	
6.	Fax No.	
7.	Name of Contact Person	
8.	Name of the person signing the tender	
9.	Phone/Mobile No of the person signing the tender	
10.	Designation of the person signing the tender	
11.	Relationship with the bidder of the person signing the tender	
12.	Name & address of Banker	
13.	RTGS /NEFT Registered form duly signed by Banker to be enclosed	
14.	Details of Earnest Money Deposit (EMD) submitted: i) Online transaction detail must be attached	
15	Is the Bid Security Declaration Form (duly filled & signed) attached/ enclosed along with the Technical Bid (for MSE/Startup Bidder)	
16	Has any Director/Partner/Proprietor been convicted at any time by a court of law?	
17	Has your company been Blacklisted by any agency of the airport or elsewhere?	

**B) Parameters**

Bidder's Response (Shall be considered for evaluation of technical Bid as per TBEC mentioned in Section-E

Sr. No.	Parameter	Party's Response (Yes/No) ( <i>supporting document to be attached</i> )
1	The Bidder must be a limited Company registered under Indian Companies Act, 1956 or a partnership firm or a sole proprietorship firm or a private limited company duly registered under the concerned acts applicable for conducting business in India.	
2	The Bidder should be in the business of similar activity for the past Seven years (from April 2018 onwards).	
3	The Bidder should have an Average Annual Financial turnover of ₹ 1.3 Cr during the last Three Financial years i.e., 2022-23, 2023-2024 and 2024- 2025 as per the Annual Report (Audited Balance Sheet and Profit & Loss Account) duly authenticated by a Chartered Accountant/Cost Accountant in India.	
4	<p>a) The Bidder must have successfully executed/completed similar services over three financial years (starting from 01<sup>st</sup> April 2022 to 31<sup>st</sup> March 2025) –</p> <ul style="list-style-type: none"> <li>• One similar completed service costing not less than the amount equal to 80% (eight percent) of the estimated cost or ₹ 3 Cr.</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Two similar completed services costing not less than the amount equal to 50% (fifty percent) of the estimated cost or ₹ 1.875 Cr. each.</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Three similar completed services costing not less than the amount equal to 40% (forty percent) of the estimate cost or ₹ 1.50 Cr. each.</li> </ul>	
4	The bidder must have PAN No. & GST registration No., at the time of tender application.	

**B) Techno-commercial Bid Form Part-A**

SI No	Description	AIESL Requirement	Vendor Response	Document Proof
1	The tenderer shall have a minimum average annual turnover of ₹. 1.13 Crores or more for last three financial years ending on 31st March 2025. Certificate duly signed by the chartered accountant to be submitted.	Must	Yes/No	To submit document proof
2	The Tenderer shall not have negative net worth during the last 3 financial years.	Must	Yes/No	To submit document proof
3	The tenderer shall have the experience of construction/Civil renovation works of similar nature	Must	Yes/No	To submit document proof
4	Tenderer agrees to the general terms and conditions as mentioned in Annexure-E	Must	Yes/No	To confirm
5	The tenderer shall have their own office in Delhi	Must	Yes/No	To submit document proof
6	Tenderer agrees to pay a non-interest bearing security deposit which shall be 5% of the contract value as a security deposit for the period of the contract	Must	Yes/No	To confirm
7	The tenderer shall agree that the payment will be made against the tenderers invoice submitted on 45 days credit term basis	Must	Yes/No	To confirm
8	PAN and GST Number	Must	Yes/No	To submit document proof

**C. Satisfactory Completion Certificate**

i. construction/Civil renovation works of similar nature together with Satisfactory Completion Certificate along with copy of contract/ way Bills/invoices of clients)

S. No.	Name Of Contract	Name &Address of Company	Period of Contract (From...to....)	Annual Value of Contract
I				
II				
III				

ii. For any other information which the bidder may like to furnish, a separate sheet may be enclosed. In support of the above information self-attested copies of all Documents, wherever required be enclosed.

Authorized Signatory:

Name of Signatory \_\_\_\_\_

Designation of Signatory \_\_\_\_\_

Seal of Company

Place: \_\_\_\_\_

Date: \_\_\_\_\_

**AFFIDAVIT**

Name of Work: Renovation/relocation and development of AIESL (a subsidiary company of AIAHL) Corporate Office, 2nd Floor, AI Admin. Building, Safdarjung Airport, New Delhi 110 003.

(Tender ID No: \_\_\_\_\_) I..... (Name), aged ..... years, s/o (Name), Proprietor/Managing Partner/ Managing Director of (Name of the Agency) (Address of the company) do hereby solemnly affirm and state as follows:

I am competent to swear this affidavit on behalf of ..... (Name of the agency), and hereby confirm that I am fully complying with the legal obligations with regard to payment of minimum wages as per the Minimum Wages Act-1948 and deduction of Provident Fund Authorities as per EPF & MP Act-1952 and Contract Labour (Regulation & Abolition) Act-1970.

Dated this, the ..... day of ..... month ..... Year.

Place:  
Date:

DEPONENT

Note: This affidavit is to be attested by a First-Class Magistrate/ Notary Public on non-judicial stamp paper of Rs. 100/- and shall be submitted within 10 days from the award of work.

**CERTIFICATE OF SITE VISIT**

To,

The Dy. GM – PPMM  
CPC  
2<sup>nd</sup> Floor, AI Admin Building  
Safdarjung Airport  
New Delhi – 110003

Sub: Authorization for Site visit – AIESL.

Tender No:

Tender Description : Renovation/relocation and development of AIESL (a subsidiary company of AIAHL)

Corporate Office, 2nd Floor, AI Admin. Building, Safdarjung Airport, New Delhi 110 003.

I/We, \_\_\_\_\_ representative/s of M/s \_\_\_\_\_, have visited the site and understood the scope of work and Terms & Conditions detailed in the Tender Document.

Authorised signatory

Signature : \_\_\_\_\_

Name & Designation : \_\_\_\_\_

(with company seal)

**To be filled by AIESL**

This is to certify that M/s \_\_\_\_\_ have visited the site for assessment of the work as per scope of work.

Authorised signatory

Company seal

Date of visit

**Format Consent Letter  
Dispute Resolution Clause-Para 2 ii (b)**

To,  
The chairman  
AIESL

Sub: Request for appointment under Clause ----- of the agreement dated --- for

Sir / Madam,

1. We state that----- (contractor / agency) was awarded work / concession of at ----- AIESL Award Letter dated --.Dispute related to -----arose between us (contractor/agency) and AIESL. On---- (date), dispute was referred to Mediation as per AIESL Mediation Policy and any settlement on the following claims / disputes was not reached between the parties. i) ii) iii) A concise statement along with claim in respect of each of such disputes is attached herewith.

2. In view of the above, we invoke arbitration under clause --- of the -----agreement between us and AIESL and as per provision to Section-12(5) of the Arbitration & Conciliation Act, 1996, we hereby agree and request the Chairman/ Member/ Regional Executive Director AIESL to appoint arbitrator from AIESL's panel arbitrators.

3. I/We also give my/our consent for appointing any of an arbitrator from AIESL's approved panel of arbitrators, as above.

Thanking you,

Authorized Signatory

( )

**Enclosed: As above**

## ACCEPTANCE OF GENERAL CONDITION OF CONTRACT

**Tender Description:** Renovation/relocation and development of AIESL Corporate Office, 2<sup>nd</sup> Floor, AI Admin. Building, Safdarjung Airport, New Delhi- 110 003.

I/We have read and examined the notice inviting tender, schedule, Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, Clauses of contract, Special conditions, Schedule of Rates & 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 AIESL within the time specified in schedule of quantities and in accordance in all respects of the Conditions of contract and with such material as are provided for, by and in respects in accordance with, such conditions so far as applicable.

We agree to keep the tender open for One Hundred Twenty (120) days from the date of opening of financial bid in 2 bid system and not to make any modifications in its terms and conditions.

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

I/ We further undertake and confirm that information/ documents submitted by us are genuine, and if at any stage such documents/ information found false, then we shall be liable for debarment from tendering in AIESL, and any other appropriate legal action.

We have submitted the EMD in the format prescribed in tender documents as earnest money. If I/we fail to furnish the prescribed performance bank guarantee within prescribed period, I/we agree that without prejudice to any other right or remedy, AIESL be at liberty to take appropriate action as per terms of contract. Further, if I/ we fail to commence work as specified, I/we agree that AIESL shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money absolutely, otherwise the said earnest money shall be retained by AIESL towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered. Further, I/We agree that in case of forfeiture of earnest money or Performance Guarantee 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.

**Date:**

**Witness:**

**Signatures of Contractor: Postal Address**

## Layout Plan (Second Floor)



STAMP:	
PROJECT: INTERIOR RENOVATION OF AAI OFFICE AT NEW DELHI AIRPORT	
DRAWING TITLE: REVISED LAYOUT PLAN (SECOND FLOOR)	
PROJECT NO. AII/200	DRAWN BY Bittu
DATE 20/03/2023	REVISION R2
SOUTH EAST WEST NORTH	