Tender No. AIESL/HYD/PPMM/ENQ/31 Dated 10/11/2026

Tender

For

Subject: Execution of Internal Electrical Wiring, Installation of Split Air Conditioning Units & IT infrastructure at AIESL Engineering Hangar, Begumpet Airport, Hyderabad

Issued by:

AI Engg. Services Ltd. (AIESL)

Hyderabad - 500108

CAUTION: *While every care has been taken to ensure that the contents of this tender are accurate and up to date till date, the entities are advised to check the precise current provisions of extant law and other applicable instruction from the original sources. In case of any conflict between the provisions stipulated in this tender and in the original sources. Such as GFR or the prevailing laws, the provisions contained in the extant law and the original instructions shall prevail.*

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1. Notice Inviting Tender

AIESL, a public-sector undertaking is an aviation MRO. AIESL requires product/Service Provider for performing the services mentioned below. For this purpose, AIESL is inviting Service Providers (herein after referred toas SP) to quote for these services in 2(two) bid tendering process viz. technical bid as per Section 10 and Financial Bid as per Section 12.

SN	Brief Description of Goods/ services	Estimated tender value	Earnest Money (INR)	Remarks
1	Execution of Internal Electrical Wiring, Installation of Split Air Conditioning Units & IT infrastructure at AIESL Engineering Hangar, Begumpet Airport, Hyderabad	Rs. 36,00,000/-	Rs. 72,000/-	EMD/SECURITY Deposit PAYMENTS MUST BE DONE THROUGH AIESL PAYMENT GATEWAY ONLY.

Table 1:

S/N	Criteria	Description
T1.1	Type of tender:	Services Two Bid System with Part I - Technical Bid & Part II - Financial Bid.
T1.2	Selection Criteria	Least cost selection L1
T1.3	Date of issue of tender documents:	**10/11/2026**
T1.4	Pre-Bid Conference	**12/11/2026, 1100 Hrs**
T1.5	Offline meeting Venue of Pre-Bid Conference	AI Engineering Services Ltd. (AIESL), MRO Complex, Near Gate 03, RGI Airport, Shamshabad – 500108 Telangana **Meeting can be attained either in offline or online. Online link will be provided on Gem portal.**
T1.6	Process to raise pre-bid queries.	Bidders may send pre-bid queries in writing to badikela.yadav@aiesl.in; dgmppmm.hyd@aiesl.in; bala.murali@aiesl.in; } before pre-bid meeting as per para T 1.4 as per the format specified in the RFP. Queries raised in writing will be discussed during the pre-bid Meeting. Verbal or telecom queries will not be entertained prior to or during the pre-bid meeting.
T1.7	Contact Number	Phone no: 040 – 23477636/637 / 692; 9160221608
T1.8	Closing date and time for submission of Bids	**20/11/2026,**
T1.9	Place of submission of Bids	Refer Gem Portal (https://gem.gov.in)
T1.10	Opening of Part 1 Technical Bid	Refer Gem Portal (https://gem.gov.in)
T1.11	Time, and date of Opening of Price (Financial) bid would be intimated later only to the bidders shortlisted in Part I.	Refer Gem Portal (https://gem.gov.in)
	Officer to be contacted for clarifications/ help:	{ badikela.yadav@aiesl.in ; dgmppmm.hyd@aiesl.in;}
	Authority in whose favour all tender related financial instruments (DD, Banker cheque etc.) are to be made.	https://forms.eduqfix.com/aiengineering/add?formType=8489935188309188 EMD/SECURITY Deposit PAYMENTS MUST BE DONE THROUGH AIESL PAYMENT GATEWAY ONLY. **THE PAYMENT LINK IS PROVIDED ABOVE OR YOU MAY VISIT OUR WEBSITE @ WWW.AIESL.IN (AI Engineering Services Limited) and scroll to the bottom of the homepage to locate the Payments link. This will redirect you to the Qfix Payment Gateway. Select the "Vendor" option from the dropdown menu, choose the appropriate Payment Type for EMD, and fill in all the mandatory fields, including the EMD amount in Rupees.**
	All Financial Instruments to be payable at:	Delhi
	Site Visit Dates (optional)	**13/11/2026; 14/11/2026; contact** badikela.yadav@aiesl.in one day before site visit for Gate Pass arrangement.

2. Disclaimer

2.1	The information contained in this tender document (hereinafter referred to as the "Tender") or and any information pertaining to the aforesaid subject matter provided subsequently to the applicants/bidders in anyform by AIESL – AI Engineering Service Limited (hereinafter referred to as "AIESL") shall be subject to the terms and conditions to which such information is provided contained herein and any other terms and conditions as may be prescribed by AIESL prior to award of the tender.
2.2	The purpose of this tender is to provide all bidders with the information that may be useful to them in the formulation of their proposals/bids (hereinafter referred to as "BID(S)") in response to this tender. The statements and facts contained herein, which reflect various assumptions and assessments arrived at by AIESL do not purport to contain exhaustive /all the information on the aforesaid subject matter that each applicant may require for the purpose of submitting their bids.
2.3	Each bidder should, conduct its own due diligence, investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, and information contained in this tender and shall obtain independent advice from appropriate sources at no cost to AIESL
2.4	The information provided in this tender to the applicants is on a wide range of matters, some of which depends upon interpretation of law. The information given is not an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. AIESL accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on the law expressed herein.
2.5	AIESL also accepts no liability of any nature whether resulting from negligence or otherwise, however caused arising from reliance by any applicant/bidder upon the statements contained in this tender.
2.6	AIESL may, in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumption contained in this tender, from time to time till the close date of the tender.
2.7	The tender does not imply that AIESL is bound to select a bidder or to appoint the selected bidder and AIESL reserves the right to reject all or any of the bids without assigning any reason whatsoever at any time.
2.8	The bidder shall bear all its costs associated with or relating to the preparation & submission of its 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 in bids. All such costs and expenses shall 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 the bidder in preparation for submissionof the bid, regardless of the conduct or outcome of the bid selection process as contained herein.

3. Abbreviations

S. No		
1.	AMC	Annual Maintenance Contract
2.	BG	Bank Guarantee
3.	BIS	Bureau of Indian Standards
4.	CA	Competent Authority
5.	GeM	Government e-Marketplace
6.	CVC	Central Vigilance Commission
7.	DFP	Delegation of Financial Power
8.	ECS	Electronic Clearing System
9.	EMD	Earnest Money deposit
10.	EUR	Euro
11.	EOI	Expression of Interest
12.	EPFO	Employees Provident Fund Organization
13.	ESIC	Employees State Insurance Corporation
14.	FM	Force Majeure
15.	GeM	Govt e-Marketplace
16.	GTC	General Terms & Conditions
17.	INR	Indian Rupees
18.	IP	Integrity pact
19.	MSME	Micro, Small and Medium Enterprises
20.	NEFT	National Electronic Fund Transfer
21.	NIT	Notice Inviting Tender
22.	NSIC	National Small Industries Corporation
23.	OEM	Original Equipment Manufacturer
24.	PAC	Proprietary Article Certificate
25.	PBG	Performance Bank Guarantee
26.	PO	Purchase Order
27.	PQC	Prequalification Criteria
28.	PR	Purchase Requisition
29.	PVC	Price Variation Clause
30.	QAC	Quality Assurance Certificate
31.	RA	Reverse Auction
32.	RC	Rate Contract
33.	RFx	Request for Quote/Information
34.	RTGS	Real Time Gross Settlement
35.	SD	Security Deposits
36.	UOM	Unit of Measurement
37.	SP	Service Provider
38.	FMS	Facility Management System
39.	ITSM	Information Technology Service Management
40.	CAPEX	Capital Expenditure
41	BOQ	Bill of Quantity
42	SITC	Supply, Installation, Commissioning and Testing

4. Introduction

AI Engineering Services Ltd (AIESL) a biggest DGCA (Directorate General of Civil Aviation) approved MRO Set up inIndia that can serve as a one-stop-shop for all engineering requirements at major Airports with pan India footprinti.e., Delhi, Mumbai, Hyderabad, Thiruvananthapuram, Kolkata, Nagpur etc.

With a great skill set, huge professional experience and competency, AIESL manages and maintains Airbus, Boeing & ATR's fleet with the Technical Dispatch Reliability of more than 99%. With major hangars and bases located at all the major metros.

Our Facilities includes Hanger Facility, Line and Base Maintenance, Engine Overhaul, Avionics Accessories shops and components shops, Structural Repairs, Cabin and seat Repair Facility, Landing Gear, Engineering Support Service, and many Specialized services. Our dedicated support team for AOG requests provides highly coordinated troubleshooting and engineering support round the clock.

4.1 Future Planning

The company is planning to improve revenue generation by way of providing MRO services pertaining to Existing Capabilities to third parties (through aggressive marketing) and acquiring new Capabilities. AIESL plans to acquireEASA Base Maintenance Capability to capture Aircraft Redelivery Business. It intends to expand on its MRO Services to the Defense sector such as DRDO/IAF/Indian Navy. To acquire EASA certifications for our LandingGear overhaul Capability and CFM 56-5B Engine overhaul Capability, as also to upgrade ATEC Shop to service various components of A320 NEO Family Aircraft. Refer website Aiesl.in for further details.

5. General Terms of Tender

5.1	The bid shall be furnished under Two stage-two-part bidding system i.e., Technical-bid and Financial Bid, submitted only in Refer Gem Portal (https://gem.gov.in) as mentioned in NIT. AIESL invites bids from Service Provider to provide "**Execution of Internal Electrical Wiring, Installation of Split Air Conditioning Units & IT infrastructure at AIESL Engineering Hangar, Begumpet Airport, Hyderabad** " through open tender considering L1 Least cost criteria for selection as per enclosed Bill of Quantity & Price. The complete tender can be downloaded from AIESL's website: www.aiesl.in and from Gem Portal (https://gem.gov.in)
5.2	AIESL reserves the right to itself to postpone and/ or extend the date of receipt or to withdraw the Bid notice, without assigning any reason thereof, entirely at its discretion. In such an event, bidders shall not be entitled to any compensation, in any form whatsoever.
5.3	Bidders are advised to quote strictly as per terms and conditions of Tender and not to stipulate any deviation / exceptions.
5.4	Vague and ambiguous replies and conditions of Bid etc. shall be avoided. Such replies shall be deemed to be incomplete and may prevent the Bid from being considered by the AIESL.
5.5	The bidders in their own interest are advised to be very careful while mentioning their rates in Financial Bid in electronic form.
5.6	The services covered by this Bid Specification shall be executed strictly in accordance with the conditions specified in this Bid document. If any of the aforesaid condition is not clear to the bidder, clarification may be sought from the AIESL before submission of bids. Bidders are advised to accept all the conditions specified in the Bid document, to facilitate early finalization of bids. Separate set of commercial conditions (such as bidders' standard printed conditions) enclosed with the offer and any reference thereto may render the Bid liable to summarily rejection.
5.7	The bidder shall submit rate analysis/bifurcation of quoted price if so desired by the AIESL.
5.8	Any addition, deletion or substitution in the bid document is not permitted. Failure to do so may render the bid liable for rejection. The Contract shall be for the whole Works, based on the 'Bill of Quantity (BOQ) and Price' submitted by the Bidder.
5.9	Bidders must upload the technical bid along with tender document duly signed in all papers as soft copy and upload financial bid separately as mentioned in GeM portal format as mentioned in section 1 Notice Inviting tender under Two-part bidding process i.e., technical bid and Financial Bid. Selection will be based on Least cost L1 criteria.
5.10	Bids received through fax will not be considered. **Refer GeM Portal (https://gem.gov.in)**
5.11	Bids received late, or bids that are incomplete or those, which are not in the prescribed format, will be rejected. **Refer Gem Portal (https://gem.gov.in)**
5.12	Bids should be neatly filled / typed, all pages duly numbered, duly Signed and stamped on every page by an authorized Signatory of the bidder. Unsigned Bids will be rejected.
5.13	The rates quoted in the Financial Bid should be clearly typed / written in figures and words free from over typing or over writing. The corrections, if any, must be authenticated by the full Signature of the person, who has Signed the bid
5.14	The financial bids should be in Indian Rupees (INR) only unless otherwise specified in Financial Bid.
5.15	Conditional discounts / credits, if any, shall not be given any consideration in the evaluation.
5.16	AIESL reserves the right to accept or reject, in whole or in part, any of the bids, without assigning any reason whatsoever at any stage
5.17	The Bids should be valid for acceptance by AIESL for a minimum period of 120 days from the date of opening of the Technical Bid
5.18	All information related to the price quoted by the bidder should be given only in the Financial Bid format. The technical Bid should not contain any indication of the price. In case the price quoted is indicated in the technical Bid, the Bid will be rejected, without any reference to the Bidder. No further correspondence will be entertained in this regard
5.19	Financial Bids of only those bidders who qualify based on evaluation of their technical bid would be opened and accordingly such bidders would be intimated.
5.20	The bid is to be submitted after careful study and examination of the tender document, and after obtaining a full understanding of the requirements. Bidders are therefore advised to study the tender document carefully before submitting their bids. The submission of a bid will imply that the Bidder has read this tender, its terms & conditions and has fully understood the work scope, specifications, project execution and solution implementation requirements.
5.21	AIESL reserves the right of not awarding any contract to any of the Bidders.
5.22	The bidders should bear all the costs associated with the preparation and submission of their bids, including the costs incurred in presentations, demonstrations etc. for the purposes of evaluation of the bids by AIESL. AIESL will in no case be responsible or liable for such costs regardless of the conduct or outcome of the bidding process. AIESL would however be responsible for the cost on account of travel, accommodation etc. of its Evaluation Team if a decision is taken during the process of evaluation of the bids to make visits to client sites.
5.23	No bidder shall submit more than one Bid against this Tender. In case more than one bid is received, only the last submitted bid would be considered.

5.24	Determination of whether the bid complies with the tender requirements or not will be at the sole discretion of AIESL.
5.25	No advance/pre-delivery payment term will be accepted
5.26	In case the taxes, levies and duties are not mentioned separately, the bid shall be considered as inclusive of taxes.
5.27	The Financial Bids must be complete in all respects and no representation whatsoever would be entertained by AIESL for inclusion of any other cost head / cost after the opening of the bids. The prices quoted should remain firm / fixed for the entire term of the agreement. Withdrawal or unilateral modification of the Bids shall constitute a breach of terms of the tender and the Bids shall be liable for rejection thereof. No representations from the unsuccessful bidders shall be entertained with respect to the evaluation of their bids by AIESL, whatsoever. Financial Bid shall be submitted as per GEM Financial Bid Format.
5.28	Bidders are advised to quote strictly as per terms and conditions of Tender and not to stipulate any deviation / exceptions.
5.29	**5. TERMINATION RIGHTS UNDER** GFR 2017 Rules 171 and 204, as amended; Manual for Procurement of Works, 2025, Chapter 7.AIESL reserves the right to: AIESL shall have the right to terminate the Contract, either wholly or partly, in the event of: (a) Persistent failure to maintain the approved work programme or completion schedule. (b) Failure to rectify defective workmanship or non-conforming materials within the stipulated period. (c) Abandonment of work without prior written approval. (d) Serious or repeated violations of applicable safety, security or statutory requirements. (e) Insolvency or inability to perform contractual obligations. (f) Fraud, misrepresentation, corruption, collusion or other serious contractual misconduct. Except in cases involving fraud, serious safety violations or circumstances requiring immediate action, AIESL shall issue a written show-cause notice specifying the breach and provide a reasonable opportunity to rectify the same. If the Contractor fails to remedy the breach within the stipulated period, AIESL may terminate the Contract by written notice. Upon termination for default, AIESL shall be entitled to recover demonstrable additional expenditure incurred in completing the balance work through an alternative agency, subject to the contractual provisions and applicable law. Such recovery shall be adjusted against the Contractor's pending bills and Performance Security, without prejudice to other remedies available to AIESL.
5.30	**Termination and Exit Clause:** In case of unsatisfactory performance or breach of any of the clauses of this contract, AIESL would issue a notice of 3 days to the party to rectify the breach and improve the performance failing which AIESL shall be at liberty to terminate this agreement by providing 3 days written notice to the party. The party shall not have any right to dispute or question the judgment of AIESL of the unsatisfactory performance of the party. Notwithstanding the above, AIESL shall also be at liberty to terminate this agreement for any reason including change in situation/circumstances, etc. by providing the party with 3 days written notice.

SPECIFIC TERMS AND CONDITIONS

a) The successful Tenderer shall ensure compliance and shall be solely responsible to adhere to all the safety and security regulations of AIESL or any other agency like AAI, Begumpet airport etc. for personnel and vehicles deployed by them.

b) The successful Tenderer shall also be responsible for getting all necessary clearances, if any, from Govt. Agencies/Legal Authorities from time to time, with regards the provisions of services. As well all such clearances/licenses shall be current.

c) The successful Tenderer shall provide to AIESL all personal details (name, father's name, age, permanent address & present address) along with passport size photograph, of its employees, and proof of age and educational qualifications who shall be working under this contract at the Begumpet Airport and shops/ plants/ hangars located at AIESL, MRO Complex, Shamshabad, wherever necessary. AIESL shall arrange to issue a letter of intent (LOI) on the Successful Service Provider before the releaseof formal Work Order to enable the Service Provider to apply for the Entry Pass in time before the commencement of this contract. Any violation of security regulations and indulging in illegal activities including but not limited to smuggling/ theft/ act of sabotage/ pilferage of property by successful Tenderer's personnel shall be at the cost / risk of successful Tenderer and shall be liable for all the legal consequences thereof.

d) The successful Tenderer shall provide declaration ensuring a prior verification of character and antecedents of its personnel before deployment, in AIESL as it is a "protected industry" and Airport Hangar as "protected area", wherever necessary. It shall be successful tenderer's responsibility to submit/ surrender the Airport Entry Passes (AEP) of its employees immediately to AIESL when demanded.

e) The personnel so deployed must be in possession of photo identity cards provided by the successful Tenderer under its signatures, company's name, and seal apart from Entry Passes issued by AIESL/AAI for entry to be shown if and when demanded by AAI/AIESL's officials.

f) The successful Tenderer shall have a system to issue/ retrieve AEP/ Entry Passes to/ from their employees while they report or leave the AIESL/ premises, to ensure that their employees are not misusing the AEP/ Entry Passes.

g) The successful Tenderer shall have a system to surrender the Expired/ Lapsed/ Terminated Entry Pass of its employees to the issuing authority.

h) On award of contract, the successful bidder shall arrange Airport Entry Passes for its personnel from applicable authority at its own cost. The successful bidder's employees entering the aircraft/ tarmac area/Hangar shall always carry valid passes/ permits issued by applicable authority.

i) **The successful bidder shall also arrange for Police verification certificate(PVC), Airport Entry Pass (AEP), Airport Vehicle Permit (AVP) for the Operators/Drivers of these vehicles. The charges will be borne by successful service provider and there will be No reimbursement from AIESL.**

j) Any lapse noticed on the part of any employee of successful Tenderer involved in theft/pilferage/malpractices shall be inquired into by AIESL Security/other officials and suitable action including legal proceedings shall be initiated for breach of contractual liability along with penal provisions of various laws.

k) AIESL reserves right to impose penalty on the successful tenderer apart from AIESL's right to take appropriate legal action.

l) The successful tenderer shall also be responsible for getting all necessary clearances, if any, from Govt. Agencies/ Legal Authorities including AAI and applicable authority (Security) from time to time, with regards the provisions of services.

m) It shall be the responsibility of the successful tenderer to ensure that no unauthorized personnel other than those deployed by it specifically for the services, gains access to the Airport premises where and when the services are to be provided.

n) The successful bidder at its own cost shall obtain security clearance to comply with requirement of Rule 92, of Aircraft Rules 1937 (amended in 2009) from the applicable authority (security)., before commencement of the work.

2. For providing Prompt, Punctual, Efficient, Safe, Courteous, seamless and Quality Service, the tenderer should comply the following conditions.

2.1 The Service Provider shall ensure the availability of appropriate communication facilities—such as mobile phones, telephones, fax, or other reliable means—to enable effective communication between the Service Provider/supervisor and AIESL.

2.2 If any driver deployed must be in possession of valid driving license issued by the R.T.O to drive such vehicles and must carry the same with him while on duty.

2.3 The drivers so deployed shall be issued with Identity Card provided by the service provider, which shall be displayed by them while on duty.

2.4 The Service Provider shall ensure that no worker/labour either under the influence of alcohol or under stress be deployed for AIESL service.

2.5 Since AIESL is a "Protected Industry", all staff deployed by the service provider for AIESL duty should be verified by the applicable authority and security procedure to be followed as per applicable authority.

2.6 The Contractor shall not assign or transfer the entire Contract or its principal contractual obligations without prior written approval of AIESL.

2.7 The quoted rates must be inclusive of all costs towards labour, material, tools, equipment, instruments, access stands, lifting tackles, hardware, consumable, transport, insurance etc. required resources to complete the proposed work.

2.8 Payment will be made as per the joint measurement for the work actually completed at site and handed over to AIESL. No payment will be admissible for any excess or wastage.

2.9 The quantities mentioned in the BOQ are tentative and may vary depending on the site requirements. The contractor will not have any claim towards change in quantities. The contractor must take his own measurements before buying the material.

2.10 Contractor will not do any extra work leading to any extra payment, without permission of EIC. Any change in design, layout, scheme, tech specifications etc. must be duly approved in advance.

2.11 Workmen's compensation insurance policy shall be submitted before execution of work. In case of any loss to the individual property or assets of AIESL, the contractor is liable to pay the compensation to the individual and/or AIESL. The contractor will ensure the validity of Workmen's compensation Insurance Policy for the workers deployed at site.

2.12 5% of contract value shall be submitted before starting the execution of work, as Security Deposit. This amount shall be submitted to AIESL-Finance. Alternately, this security deposit can be in form of a Bank Guarantee of equal amount for Six months period.

2.13 In case of breach of Contract or violation of any terms of the Contract, the Security Deposit / Performance Guarantee shall be forfeited / bank guarantee be invoked. Such Security Deposit / Performance Guarantee shall not bear any interest, and shall be refunded without interest only on successful completion of the awarded work and on fulfilling of all Contractual obligations after completion period i.e. DLP. In case of Bank guarantee the validity shall be of full contract period plus DLP months and the same shall be returned after successful completion of the contract and on fulfilling of all Contractual obligations after the claim period i.e. DLP.

2.14 The Defects Liability period (DLP) will be 6 months from the date of completion of work. AIESL will retain 5% of contract value as Security Deposit for this period. The contractor will attend all defects arising during this period at no extra cost. The response time will be next working days and the defects will be attended within maximum 03 working days. Alternately, this security deposit can be in form of a Bank Guarantee of equal amount for one year period. All interim and final bills will be submitted in 2 copies along with 2 copies of duly signed Joint Measurement sheet for the work done.

2.15 If the L-1 bidder, after issuance of the work order, fails to commence the work within the stipulated time as per contract conditions or discontinues the work without prior written approval of the Engineer-in-Charge (EIC), AIESL shall have the right to cancel the work order. In such an event, the Performance Guarantee and Security Deposit of the L-1 bidder shall be forfeited. AIESL may, with the approval of the Competent Authority, offer the work to the L-2 bidder subject to L-2 agreeing in writing to execute the work at the rates quoted by L-1. If L-2 does not agree, L-3 and so on in the order of least quoted amount for the tender will be asked to match the L-1 rates, AIESL reserves the right to retender the work incase No one from the participated bidders accepts the L1 rates.

2.16 The DLP shall be as below: Sr. No. 1) Defect Liability Period Electrical works 6 months for Equipment Installations as per the warranty period mentioned in the BOQ

2.17 EXECUTION OF JOB: i) The successful bidder must deploy at its own cost a supervisor to monitor the work allotted to its (Service Providers) employee / staff ensure smooth provision of services. ii) Any replacement / transfer of personnel deployed shall be informed to designated official of AIESL 02 days in advance & the new incumbent shall fulfil all the conditions listed herein. iii) While the scope of work is initially confined to the designated area, it may, under instructions from the Engineer-in-Charge (EIC), be extended to other locations within the same premises, provided the nature of work remains similar. Accordingly, the scope shall not be deemed limited to the designated area alone.

FIXED & CORRECT CONTRACT PERIOD CLAUSE

Contract Period

"The total completion period for the work shall be 20 (Twenty Days) days, counted from the 2nd (second) day after the date of issue of the Letter of Intent (LOI)". **LOI/PO acceptance must be given by the successful bidder by EOD of Issue of PO/LOI.**

1. Mobilisation Time

The period from the date of issuance of the Letter of Acceptance (LOA) until the second day will be considered as the mobilisation period. During this time, the contractor is expected to arrange all necessary manpower, tools, equipment, materials, safety clearances, and airport entry permissions required for commencement of work.

Issuance of airport gate passes requires submission of supporting documents such as an Aadhaar card and a recent passport-size photograph for each proposed worker. The processing and approval of gate passes typically require two (2) working days**, and bidders should factor this into their mobilisation planning. The Charges related to Gate pass shall be borne by the successful service provider and No reimbursement will be given by AIESL.**

2. Delay in Site Handover by AIESL

"If handing over of site is delayed by AIESL, the completion period shall shift accordingly. The contractor shall not be entitled to any claim for delay in site handover."

Definition of Similar Work (to be included in work scope section)

"Similar Work" shall mean:

1. Electrical repair works
2. Electrical Substation Installations.
3. Electrical Wiring

3. <u>Safety and Security</u>:

3.1 The service provider should ensure that all safety and security regulations of AIESL and various other agencies working in and around the Airport is strictly followed by the personnel deployed for this service.

3.2 All the mandatory regulations stipulated by RTO, AAI or any other applicable authority etc. such as speed limit etc. must be complied with.

3.3 AIESL being a protected Industry the personnel deployed by the service provider for this service will not indulge in any illegal/Anti-Social/ anti-national activities.

3.4 AIESL will not be liable for any incident/accident or non-compliance of any rules/ regulations issued by Government, RTO or other regulatory bodies.

3.5 The Worker/Labours shall at all times will ensure safety and security of officials and their luggage.

<u>COMPLIANCE OF SAFETY REGULATIONS:</u>

1. Except for Supervisor, Use of cell phones and other mobile electronic devices (including hands-free devices) in the work spot and while rendering services is prohibited.
2. Service provider employees working on AIESL premises must wear appropriate personal protective equipment. Strict adherence to all required Personal Protective Equipment (Like Head cap, Mask, Gloves, Safety Shoes etc.,) is mandatory.
3. Fire-fighting, emergency shutdown devices, and life-saving equipment, should not be blocked by the Service provider/employees and access to the path to this equipment should be maintained at all times.
4. Only approved containers for cleaning fluid should be used where flammable mixtures are present.
5. Smoking/use of Tobacco is not allowed in areas where it is prohibited.
6. It is the responsibility of the Service provider to understand and use the appropriate Work Permits and to verify any permit requirements at the location. Service provider must make necessary arrangements with their Representative to acquire appropriate authorization to perform those operations at the site.
7. Proper care must be taken on safety aspects of the job. The Service provider should ensure the gardeners with safety equipment's like shoes, gloves, caps and raincoats etc.
8. The Service provider will be solely responsible for any mishap due to lapse in safety measures. In case of a death or accident /mishap occurred during discharging the duty, the compensation liability will solely rest with the Service provider.

GENERAL SAFETY REQUIREMENTS

1. The contractor shall ensure **strict compliance with all applicable safety laws**, including the Factories Act, Labour Laws, and Airport/AIESL safety regulations.
2. All personnel deployed must be equipped with appropriate **PPE (Personal Protective Equipment)** including:
   a. Safety Helmets
   b. Safety Shoes
   c. Reflective Jackets
   d. Gloves
   e. Goggles
   f. Ear Protection (for noisy operations)
   g. Safety harness
   h. Safety ropes
3. No worker shall be permitted inside the hangar premises without proper PPE and Entry Pass.

AIRPORT & HANGAR SAFETY COMPLIANCE

1. The contractor shall follow all **AAI / Airport Security or applicable authority Regulations** including:
   a) Entry passes from AAI/Airport applicable authority
   b) Toolbox verification at entry
   c) Prohibition on mobile photography
2. Firearms, lighters, matches, knives, chemicals, explosive items, alcohol, and tobacco are strictly prohibited.
3. All equipment, ladders, tools, and materials entering the airport must be **recorded and verified** by AIESL/AAI Security.

WORKING AT HEIGHT (MANDATORY)

1. Work at height (above 1.8 m) shall only be carried out using:
   a) Approved scaffolding and suitable equipment at service provider cost
   b) Full Body Safety Harness with double lanyard
   c) Safety nets where required, safety helmets to be used at all the time and all the heights during the work execution.
2. Roof access shall be controlled and supervised by AIESL Engineering.

ELECTRICAL SAFETY & HOT WORK

Electrical Safety

1. Only authorized electricians shall handle electrical connections.
2. All portable equipment shall have **valid earth continuity** and shall be inspected.
3. No loose or temporary wiring is allowed without AIESL approval.

Hot Work (Welding, Cutting, Grinding)

1. Prior **Hot Work Permit** from applicable authority is mandatory.
2. Fire extinguishers must be kept nearby.
3. A dedicated fire watcher shall be posted during hot work.
4. No hot work allowed near fuel/oil stores or aircraft zones without explicit permission.

MATERIAL STORAGE & WASTE MANAGEMENT

1. All materials shall be stored in an organized manner without obstructing hangar operations.
2. No material shall be placed:
   a. Near aircraft movement areas
   b. Near doors, exits, fire points
3. Hazardous waste must be handled as per CPCB guidelines.

FIRE SAFETY MEASURES

1. Contractor shall ensure availability of:
   a. CO_2 extinguishers
   b. Dry Chemical Powder (DCP) extinguishers
   c. Sand buckets
2. No smoking or open flame allowed in hangar premises.
3. All workers must undergo fire safety briefing conducted by AIESL.

ENVIRONMENTAL PRECAUTIONS

1. Noise levels must be minimized; noisy work must be performed during designated hours.

SITE HOUSEKEEPING (MANDATORY)

1. Work area must be kept clean at all times.
2. Tools shall be stored safely when not in use.
3. Sharp objects or debris must be removed immediately.
4. Daily housekeeping report to be submitted to AIESL Supervisor.

SAFETY SUPERVISION & COMPLIANCE

1. The contractor must deploy a **full-time Safety Supervisor** (minimum 3 years experience).
2. Daily Toolbox Talk (TBT) shall be conducted.
3. Non-compliance may lead to:
   a. Work stoppage
   b. Penalties
   c. Removal of unsafe workers
   d. Cancellation of contract in severe cases

DAMAGE TO AIESL PROPERTY / AIRCRAFT/Third Party/AAI

1. Contractor shall be fully responsible for any damage caused to:
   a. AIESL property/Third Party/AAI
   b. Hangar infrastructure
   c. Aircraft components

d. Security installations

2. The contractor shall bear all associated costs for repair or replacement.
3. Criminal negligence will attract legal action.

EMERGENCY RESPONSE PROCEDURES

1. Contractor must ensure all workers know:
   a. Emergency exits
   b. Assembly points
   c. Fire alarm locations
2. Workers must follow instructions of AIESL Safety Officer during emergencies.
3. At least one worker trained in First Aid must be present at site.

PENALTIES FOR NON-COMPLIANCE

AIESL may impose the following:

1. ₹2000 per worker per violation
2. Removal of worker from site
3. Stop-work notice
4. Deduction in bills
5. Termination of contract for repeated violations

CONTRACTOR'S SAFETY AFFIDAVIT (Mandatory)

Before starting the work, the contractor must submit an Undertaking confirming to:

1. Compliance with all safety rules
2. No unauthorized workers. Only trained personnel assigned

COMPLIANCE OF SECURITY REGULATIONS:

1. The Service Provider shall have a system to issue/ retrieve Airport Entry Pass to their Employees while they report / leave the AIESL premises, so as to ensure that it is not misused. The Service Provider shall have a system to surrender the Expired/Lapsed PIC and also that of the Terminated Employees to the Issuing Authority.
2. The Service Provider shall ensure that all the safety and security regulations of AIESL, AAI or any other agency associated with Airports activity are strictly adhered to and complied with by Personnel deployed..
3. Any lapse noticed on the part of Service Provider or Service Provider's Employee involvement in theft / pilferage / malpractice/ illegal activities shall be inquired into by AI Engineering Services Limited, Security / other officials, and suitable action including legal proceedings initiated for breach of Contractual liability and also it will attract penal provisions of law. AIESL reserves the right to impose penalty on the Service Provider apart from legal provisions.

for I

General Manager (Engg.)
AI Engineering Services Ltd, Hyderabad.

महाप्रबंधक (इंजीनियरिंग)/General Manager (Engg.)
ए आई इंजीनियरिंग सर्विसेज लिमिटेड
AI Engineering Services Limited
एम.आर.ओ. कॉम्प्लेक्स, आर जी आई एयरपोर्ट
MRO Complex, RGI AIRPORT
गेट सं. ३, के पास,/Near Gate No. 3, शंशाबाद/ Shamshabad
हैदराबाद/Hyderabad - 500 108, तेलंगाना/ T.S.

6. Guidance to Bidders

6.1	Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the relevant contact person indicated as below: Mr. B. Parmesh Yadav – Sr.AGM- (EP&PM) AI Engineering Services Limited (AIESL) MRO Complex, Near Gate 03 RGI Airport, Shamshabad - 500108 Email: badikela.yadav@aiesl.in; dgmppmm.hyd@aiesl.in; bala.murali@aiesl.in ; suryanarayana.madhira@aiesl.in
6.2	**Clarification of Bidding Documents:** A prospective Bidder requiring any clarification of the bidding documents may notify the contact person by e-mail at the address indicated in the 6.1 of GTB. AIESL will respond to any request for clarification received prior to the Pre-Bid date. AIESL response will be published on AIESL's website including a description of the inquiry, but without identifying its source. AIESL shall not be obliged to respond to any request for clarification received later than the above said period. Further, the mere request for clarification from the bidder(s) shall not be a ground for seeking extension in the deadline for submission of bids.
6.3	**Pre-Bid Meeting** The purpose of the Pre-Bid meeting shall be to clarify the issues and to answer questions received from or any matter that shall be raised by the prospective Bidders. The Bidders are advised to send their queries as per date and time mentioned in Notice Inviting tender. The queries may be addressed to badikela.yadav@aiesl.in ; dgmppmm.hyd@aiesl.in ; bala.murali@aiesl.in ; suryanarayana.madhira@aiesl.in Text of the questions raised, and the responses given, together with any responses prepared after the Pre - Bid meeting, shall be transmitted (without identifying the sources of the question) to all participants of the Pre-Bid meeting. Any modifications or alteration to the Bidding documents listed in Tender that shall become necessary because of the Pre-Bid meeting, shall be made by AIESL exclusively through the issue of an Addendum / Corrigendum separately and shall be available on AIESL's website/GEM portal. No separate press advertisement will be given for the same. Addendum and/or Corrigendum, if any, to the Tender, shall be referred to and taken into consideration by the prospective Bidders. It is the Bidder's responsibility to visit the said portal regularly for the aforesaid Addendum / Corrigendum as applicable. Non-attendance of the Pre-Bid meeting shall not be a cause for disqualification of a Bidder. Interested Bidders who desire to attend the Pre-Bid meeting shall communicate one day in advance to the Pre-Bid meeting scheduled date to make necessary arrangements for entry passes with names of their representative (only two authorized representatives per Bidder), by email to suryanarayana.madhira@aiesl.in badikela.yadav@aiesl.in ; dgmppmm.hyd@aiesl.in ; bala.murali@aiesl.in **Pre-Bid Meeting (offline & online) will be held on 12/11/2026 at 1100 Hrs at AI Engineering Services Limited, MRO Complex, Shamshabad – 500108 for online link please refer https://gem.gov.in** Maximum 2(two) representatives of each Bidder shall be allowed to attend the Pre-Bid meeting on the date fixed by AIESL. The Bidders authorized representatives shall carry an authorization letter on the letter head of the Bidder duly Signed by the authorized Signatory for the Bidder, along with an identity card to attend the Pre-Bid meeting. Inputs/suggestions/queries submitted by the Bidders as part of the Pre-Bid meeting and otherwise will be given due consideration by AIESL. However, AIESL is not mandated to accept any submission made by the Bidder and the final decision will rest with AIESL.
6.4	A pre-bid conference, which will be held on Refer Gem Portal (https://gem.gov.in), at AIESL, MRO Complex, Nare Gate 03, RGI Airport, Shamshabad 500108. Bidder can join the meeting remotely or in person. A maximum of two representative of each prospective Bidder Shall be permitted to attend the pre-bid conference. The representative(s) must carry an authority letter from the company's authorized signatory for participation in the pre-bid conference. The name(s) of the representative(s) for the pre-bid conference may also preferably be directly sent to AIESL in advance of the date of pre-bid conference by e-mail as under: E-mail: badikela.yadav@aiesl.in ; dgmppmm.hyd@aiesl.in ; bala.murali@aiesl.in; suryanarayana.madhira@aiesl.in
6.5	**Amendment of Bidding Documents** Before the deadline for submission of bids, AIESL may for any reason, whether at its own will or in response to a clarification requested by a prospective Bidder, modify the bidding documents by issuing addenda. Any addenda/ corrigenda issued prior to submission of bids would be put up on AIESL's website. Any addenda/ corrigendum/ clarifications thus issued shall be part of the bidding document. The prospective bidders must check aforesaid portal for any amendment/ corrigenda/ clarifications periodically and before submission of their bids. All prospective bidders are presumed to have examined all amendments/ corrigendum/ clarifications published on the website and have submitted their bids accordingly.

	To give prospective Bidders reasonable time in which to take an amendment into account in preparing their bid, AIESL shall extend as necessary the deadline for the submission of bids	
6.6	**Modification of Bids** The Bidder(s) can modify or withdraw their Bid(s) after the Bid submission but prior to the Due Date/Time for submission of the Bid. Last modification by the Bidder shall be final. 1. No Bid shall be modified after the Due Date/Time for submission of Bids. 2. No Bidder shall be allowed to modify/withdraw its Bid during the period after the due Date/Time for submission of Bids and prior to the expiration of the period of Bid validity. Withdrawal/modification of Bid, during the time-period mentioned above, shall result in the forfeiture of the EMD submitted by the Bidder.	
6.7	**Bid Offer Validity:** The Proposal shall be valid for a period of one hundred twenty (120) calendar days from the last date of submission of proposal. Prior to expiry of the validity period of the Proposal, AIESL may request the Bidders to extend the validity period of the Proposals. The request and the response thereto shall be made in writing. A Bidder agreeing to the request shall not be permitted to modify its Proposal but shall be required to extend the validity of its Proposal. All the terms of the RFP shall continue to be applicable during the extended period of validity.	
6.8	**Bid Submission:** **Refer Gem Portal (https://gem.gov.in)**	
6.9	PART-I	This shall be named **"Technical Bid"**. No "Financial Bid" related information shall be mentioned in the Technical Bid. REFER Section 10 & 11 – for Technical Bid related information & guidance
6.10	PART-II	It shall be named **"Financial Bid or Financial Bid"** and shall comprise of Bill of Quantity and Price. REFER Section 12 – Financial Bid for guidance
6.11	**Bid Security / Earnest Money Deposit** An Earnest Money Deposit (EMD) of Rs. 72,000/- (2 % of the Tender Value) must be submitted along with technical bid only THROUGH AIESL PAYMENT GATEWAY (refer T 1.11 - https://forms.eduqfix.com/aiengineering/add?formType=8489935188309188) mentioned in NIT of the Tender and please check GEM portal (https://gem.gov.in). Acknowledgement copy upload in GeM portal. DD will not be accepted. a) It is clarified that Bidders seeking exemption under MSME provisions are required to submit the Bid Security Declaration Form 15 in lieu of the Earnest Money Deposit. b) Tenders received without EMD shall be rejected. c) In case a Bidder withdraws his bid during the process of evaluation of tender or fails or refuses to accept the contract if awarded in his favour, the Earnest Money Deposit will be forfeited. d) EMD of the Tenders, who do not qualify in the 'Technical Bid', will be refunded to them within one month of the award of contract. e) EMD in respect of the successful Bidder will be adjusted against Security Deposit / Performance Bank Guarantee. EMD in respect of bidders, who have been unsuccessful in the evaluation of the financial bids, would be refunded within one month of award of the contract.	
6.12	**Security Deposit / Performance Bank Guarantee** a) A Security deposit (SD) @ 5 % of the contract value, or a Performance Bank Guarantee (PBG) for the same amount would be required to be submitted by the successful Bidder within one weeks from the date of award of contract. The SD / PBG is for meeting the project commitments till the end of the contract period. The SD / PBG would be refunded / returned within two months of successful completion of 6 months period subject to adjustment for penalties, if any, on account of deficiencies in performance as per the terms of the contract. b) It is to be noted that the costs involved in furnishing of the PBG / SD are to be borne by the bidder who has been awarded the contract and the same is to be included in the Financial Bid.	
6.13	On the date of opening of the Technical Bid, only the Technical Bids would be opened. AIESL reserves the right to award the contract(s) to successful bidder as it may deem fit as per its operational requirements. Please refer https://gem.gov.in E-mail: dgmppmm.hyd@aiesl.in	
6.14	Financial Bids will be opened of those bidders who have successfully fulfilled the Technical bid evaluation criteria as specified in Section 11. Please refer Gem Portal https://gem.gov.in	

6.15	**REJECTION OF BIDS** a) The Bid shall stand rejected if the Bidder submits an incomplete Bid, i.e., where only the Technical or only the Financial Bid is received. b) The Technical Bid should not contain any indication of the price related to the Financial Bid. In case an indication of such price quoted is included in the Technical Bid, the Bid will be rejected without any reference to the Bidder. No correspondence will be entertained in this regard. c) Bids received through other than GeM will not be considered. d) Bids received after Due Date/Time shall not be considered. e) The bids are liable to be rejected forthwith, i.e., without being evaluated, on the following grounds: i. If only the technical bid has been received and the Financial Bid has not been received, and vice versa. ii. If the Tender has been received by email or fax or in any other manner instead of uploading in CPP portal. iii. If the Tender has not been signed by the authorized signatory of the Bidder. (Signed by any key managerial personnel or an officer of the company duly authorized by the Director/Partner/Proprietor in this behalf). iv. If the technical bid has been received without EMD as the case may be and the EMD has been submitted in a mode other than as specified in the Tender NIT. v. If the information given in response to the Tender is incomplete, ambiguous, without requisite supporting documents, unverified, unattested, and/or submission of illegible copies or unexplained materials and/or bids not received as per the desired formats & bidding instructions. vi. If the Financial Bid indication has been provided in the technical bid response vii. If the bid response is not presented neatly and corrections if any are not duly authenticated with full authorized signatures of the person who has signed the bid document. (Signed by any key managerial personnel or an officer of the company duly authorized by the Director/Partner/Proprietor in this behalf). viii. If the bid has been received without the undertaking of acceptance of all terms & conditions ix. If the bid (technical/price) is incomplete. x. The above list is only illustrative and there can be other relevant grounds of rejection of bids. f) In case of any variation, in the documents/data submitted by the Bidder in support of the Technical Bid and in comparison, with the original documents during technical evaluation, the Bids of such Bidder would be out-rightly rejected/disqualified during technical evaluation of Tender and EMD would be forfeited. g) If the price indicated in the Financial Bid is Conditional. h) If the Financial Bid is not submitted in the format described in Section12 Form 8 of the Tender. i) In case the Bidder being an MSME unit as specified in Clause 6.11, fails to submit a copy of the relevant MSME certificate and the required Bid Security Declaration Form along with the technical bid **j) AIESL, in its sole discretion and without incurring any obligation or liability, reserves the right, at any time, to:** **i. Suspend and/or cancel the Bidding process and/or amend and/or supplement the Bidding process or modify the dates or other terms and conditions relating thereto.** **ii. Consult with any Bidder to receive clarification or further information.** **iii. retain any information and/or evidence submitted to the AIESL by, on behalf of, and/ or concerning any Bidder; and/ or** **iv. Independently verify, disqualify, reject, and/or accept all submissions or other information and/ or evidence submitted by or on behalf of any Bidder.** **It shall be deemed that by submitting the Bid, the Bidder agrees and releases the AIESL,its employees, agents, and advisers, from any and all liability for claims, losses, damages, costs, expenses, or liabilities in any way related to or arising from the exercise of any rights and/ or performance of any obligations hereunder, pursuant hereto and/ or in connection with the Bidding process and waives, to the fullest extent permitted by applicable laws, any and all rights and/ or claims it may have in this respect, whether actual or contingent,whether present or in future.**
6.16	The site for this work is in old airport at **AIESL HANGAR premises at Begumpet Airport, Prakash Nagar, HYD - 500016** and it is a restricted area and security sensitive area. The contractor will keep entry passes always valid and will employ safe practices at work. The working hours for carrying out any job is 9:00 am to 17:00 pm or applicable authority acceptable timings. In case, the contractor is willing to extend their working hours, the same shall be intimidated through email to Security officer AIESL/AAI/applicable authority and Line maintenance (User) department (security.hydmro@aiesl.in ; suryanarayana.madhira@aiesl.in; badikela.yadav@aiesl.in). In case the contractor intends to extend the working hours beyond the stipulated time, the same shall be intimated in advance via email to AIESL Security Officer, and the EF&PM (User) Department upon obtaining permission from AAI or applicable authority. Interested bidders must visit the Site, study the tender documents, take the actual measurements and fully clarify to understand the exact work content and note the site conditions before quoting. This proposed work is to be done in existing working area; hence contractor must understand the site constraints and safety concern.

7. Other Terms and Conditions

7.1	**Fall in price clause** The successful bidder should pass on any benefits arising due to lower taxation or change in input/raw material cost by virtue of some exemption by government or for any reasons during the contract/order
7.2	**SUBMISSION OF BILL:** SP shall tender pre-receipted bills once in a month (Consolidated bills should be submitted every First Week of the month) for service provided to AIESL. Billshould be on the letterhead of SP and in the format prescribed by AIESL. A checklist and original documents in support of various Charges indicated in the bill should accompany each bill. Anybill not accompanied by a checklist and one or more documents will not be received in AIESL. Personnel authorized by AIESL will acknowledge receipt of the bills after due verification of enclosures. Bills that are returned to SP on account of deficiencies will contain remarks about deficiencies. Incidence of storage charges attributed to oral/verbal queries of customs authorities shall not be claimed by SP.
7.3	**Payment Terms** All payments to the successful Bidder by AIESL for the services rendered by it shall be subject tothe following compliances: Payment will be done as per the actual measurements of the work executed and Measurements carried out in presence of both parties (AIESL & Successful Vendor). **a.** AIESL shall make every effort to examine and arrange payment of bills within 45 days ofreceipt of the pre-receipted bills with all the relevant original supporting documents. However, a delay in the settlement of payments shall not be accepted as a valid ground for SP to delay consignments and/or make any request for advance payment. It is clearly and specifically understood that storage charges incurred on account of delay in transportation of consignments on grounds of delay in payment of bills on the part of AIESL will have to be borne by SP. AIESL does not undertake to communicate to SP, reasons for partial or non-admission of one or more claims made in the bills. The bills should be submitted as per the agreed tender terms & conditions clearly with the breakup along with the supporting documents, failing which the bills will not beconsidered for payment process until the SP submits the clear and relevant supporting documents. **b.** Payment will be made through ECS (Electronic Clearance Service). **c.** The successful bidder is required to submit a duly verified Bank Mandate form along with a copyof the relevant cheque leaf, duly canceled to enable Accounts Department to make payment through ECS. **d.** TDS and GST TDS shall be deducted by AIESL from the payments made against these invoices, as per the applicable laws. **e.** 100% payment will be released within the time limit prescribed in Clause 7.3(a), only after filing of the GST returns.
7.4	**Force Majeure Event** 7.4.1 Neither the Service Provider nor AIESL (collectively "Parties" and individually "Party") shall be in breach of any obligation under the Contract if it is unable to perform that obligation in whole or part by reason of occurrence of Force Majeure Event. 7.4.2 Force Majeure Event means extraordinary events or circumstance beyond human control such as an event described as an act of God (like a natural calamity, but not including seasonal rains) or events such as a war, strike, riots. The affected Party shall give immediate notice in writing of occurrence of a Force Majeure Event as soon as it occurs (in any case not later than 5 days of information about the occurrence of such an event becoming known to such Party) and shall thereafter keep the other Party informed of the continuation or termination of such event as soon as possible (and in any event within three (3) days of the continuation or termination of such event). 7.4.3 Notwithstanding the occurrence of a Force Majeure Event, the affected Party shall use its best reasonable efforts and due diligence to mitigate the economic and other effects of the event of Force Majeure and shall reasonably allocate its available resources, giving priority to its obligations under the Contract. 7.4.4 The Party so affected shall take all reasonable steps to remedy the failure and reasonably allocate its available resources, giving priority to perform its obligations under the Contract and to keep the other Party informed of the steps being taken to mitigate the effects of an event of force majeure. 7.4.5 If the performance in whole or in part or any obligation under the Contract is prevented or delayed

	by any reason of subsistence of a Force Majeure Event for a period exceeding 90 (Ninety) days, either Party may atits option terminate the Contract without any financial repercussions on either side. 7.4.6 Notwithstanding the punitive provisions contained in the Contract for delay or breach of Contract, the Service Provider would not be liable for imposition of any such damages so long as the delay and/or failure of the Service Provider in fulfilling its obligations under the Contract solely attributable to the occurrence of a Force Majeure Event.
7.5	**Resolution of Disputes and Arbitration** 7.5.1 Any dispute arising between the Service Provider and AIESL(Party/Parties), in respect of the construction, interpretation, application, meaning, scope, operation or effect of the Contract or the validity or breach thereof (the "Dispute"), shall first be settled by mutual consultation between the authorized representatives of the Parties. If the Dispute remains unresolved after a period of 90 (ninety) days from the date when the mutual consultation has, the same shall be settled and finally resolved by arbitration. 7.5.2 Such arbitration shall be conducted in accordance with the Arbitration and Conciliation Act, 1996, as amended from time to time, by a panel of three (3) arbitrators. The Parties shall appoint one (1) arbitrator each and the two (2) such appointed arbitrators shall in turn appoint the third (3rd) arbitrator as the presiding arbitrator or Sole Arbitrator nominated by AIESL. 7.5.3 The arbitration award passed under the arbitration shall be final and binding on the Parties. 7.5.4 The proceedings of the Arbitration shall be conducted in English language and place of arbitration shall be Delhi. **7.5.5** Each Party shall bear their own cost with respect to such arbitration
7.6	**Subcontracting** 7.6.1 The essence of the Tender is that there will be no subcontracting or delegation or outsourcing of any of Services to any third party without prior written approval of AIESL. However, if any sub-contracting is proposed by the Successful Bidder, such appointment / engagement of the sub-contractor shall be at the sole discretion of AIESL. Furthermore, the successful Bidder shall be responsible for all acts/omissions of such sub-contractor. 7.6.2 In event, the Contract is sub-contracted or assigned in violation of terms specified here under or the Contract, AIESL reserves the right to terminate the Contract and/ or take appropriate action against the Successful Bidder/ claim damages/ any other remedies for breach of the Tender/ Contract.
7.7	**Recovery of Sums Due** 7.7.1 Whenever under the Contract any sum of money is recoverable from Bidder, AIESL shall be entitled to recover such sum from the monthly bills. If the value of monthly bills is not sufficient to recover the dues recoverable under the contract, the same will be recovered by invoking bank guarantee / security deposit held by AIESL. In the event of the said security deposit /Bank Guarantee being insufficient, the balance of total amount recoverable shall be deducted from any sum due to Bidder under this or any other contract with AIESL. 7.7.2 Should this amount be insufficient to cover the said full amount recoverable, Bidder shall pay to AIESL on demand the balance amount within 14 days of the demand along with the interest as per applicable SBI lending rate from the due date specified in the demand notice. 7.7.3 If any amount due to AIESL is so set off against the said security deposit, the Service Provider shall have to make good, the said amount immediately but not later than 14 (fourteen) calendar days, to restore the Security Deposit to its original value. Non- restoration of such Security Deposit will be treated as event of default, leading to right of AIESL to take appropriate remedial action, including termination. 7.7.4 In addition to the above, AIESL reserves the right to deduct from the Successful Bidder's invoice, amounts attributable to loss or damage caused to AIESL -employees / cargo / equipment / machinery / building or any other property of AIESL or any damage caused to any third party by negligence or due to reasons attributable to the Successful Bidder including its employees.
7.8	**Intellectual Property** 7.8.1 The Successful Bidder warrants that in providing the Services under the Contract, it shall not infringe the intellectual property including without limitation trademark, copyright design, right patent or etc. of AIESL and / or of any third party and agrees to defend, hold harmless and indemnify AIESL against any losses, damages, claims, costs, expenses etc. suffered by AIESL arising from any such infringement of any intellectual property. 7.8.2 The intellectual property produced by the Successful Bidder during or in relation to the Services under the Contract shall belong to AIESL absolutely. 7.8.3 AIESL reserves the right for injunctive relief to prevent the breach of any it's or third parties' intellectual property rights. 7.8.4 If the use of the Services is preliminarily or permanently enjoined because of a finding of infringement or the likelihood of infringement of the Successful Bidder's intellectual property, the Successful Bidder shall, at its sole cost and expense, and at its option:

	i) procure for AIESL the right to continue using the Services; or ii) modify the Services so that it becomes non -infringing; or iii) refund to AIESL the money paid by AIESL for the enjoined part or parts of the Services.
7.9	**Assignment** During the Term of the Contract, the Successful Bidder shall not assign any of its rights or duties under the Contract without prior written consent of AIESL. Any assignment or transfer in violation of this Clause shall result in termination by AIESL with Liquidated damages to the Successful Bidder.
7.10	**Non-Waiver** Failure of AIESL to enforce any of the terms & conditions incorporated in the Tender / Contract, or failure or delay to exercise any rights or remedies herein, or by law or failure to properly notify the Successful Bidder in the event of breach, or the acceptance of or payment of any Services hereunder shall not release the Successful Bidder and shall not be deemed a waiver of any right of AIESL to insist upon the strict performance thereof or of any of its or their rights or remedies as to any such Services regardless of when such Services have been delivered nor shall any purported verbal modification or revision of the order by AIESL act as waiver of the terms hereof. Any waiver to be effective must be in writing. Any lone incident of waiver of any condition of the Tender and Contract by AIESL shall not be considered as a continuous waiver or waiver for other condition by AIESL.
7.11	**Fraudulent Practices** a) AIESL requires that Bidders observe the highest standard of ethics during the Bidding process and execution of contracts. In pursuance of this, AIESL defines, for the purpose so this provision, the terms set forth be low as follows: I. "**Corrupt practice**" means the offering, giving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution. II. "**Fraudulent practice**" means a misrepresentation of facts to in fluence a procurement process, or the execution of a contract deemed to be detrimental to AIESL and includes collusive practice among Bidders (prior to or after Bid submission) designed to establish Bid prices at artificial non-competitive levels and to deprive AIESL of the benefits of free and open competition. b) Shall reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the Contract. c) Shall declare a Bidder ineligible and blacklist such Bidder, either indefinitely or for a stated period if at any time, AIESL determines that the Bidder has engaged in corrupt or fraudulent practices in competing for, or in executing the Contract. d) Shall rescind the Contract forthwith, in case of Successful Bidder adopting fraudulent / corrupt practices during the currency of the Contract. e) EMD or Security deposit shall be forfeited in addition to the above-mentioned remedies which AIESL shall have taken.
7.12	**Conflict of Interests** **SP not to Benefit from Commissions, Discounts, etc.** The payment to SP under this Contract shall constitute the SP's sole remuneration in connection with this Contract or the services. The SP shall not accept, for their own benefit any trade commission, discount, or similar payment in connection with activities pursuant to this Contract or to the Services in the discharge of their obligations hereunder. **Prohibition of Conflicting Activities** Neither the SP nor the Personnel shall engage, either directly or indirectly, in any business or professional activities conflicting to the Services assigned to them under this Contract.
7.13	**Change Management** The Service Provider shall address all the problems which will occur during the contract period at no additional cost. The Service Provider shall identify and resolve problems due to which the SP is not able to give the desired performance. **Introducing a Change** 1. AIESL shall have the right to propose, and subsequently require, AIESL to order the SP from time to time during the performance of the Contract to make any change in requirements provided that such Change falls within the general scope of the work, does not constitute unrelated work, and is technically practicable. 2. The SP may from time to time during its performance of the Contract propose to AIESL for any Change that the SP considers necessary or desirable to improve the quality or

	efficiency of the contract. AIESL may at its discretion approve or reject any Change proposed by the SP. 3. Notwithstanding the clauses mentioned above, no change made necessary because of any default of the SP in the performance of its obligations under the Contract shall be deemed to be a Change, and such change shall not result in any extra cost or Time for achieving Operational Acceptance. AIESL and SP will agree, during contract period for coordination to achieve better result within the work scope.
7.14	**Confidentiality** 1. The Bidder / Successful Bidder shall always keep confidential, all information acquired in consequence of this Tender, including (without limitation) the any / all data concerning the technology, software & programs, technical processes, business processes, procedures, personal data, business affairs, AIESL customer/ passenger details, financial affairs of AIESL (herein after referred to as "**Confidential Information**"). Confidential information shall also include information that is designated as 'confidential' or which by its nature is clearly confidential. 2. The Bidder / Successful Bidder shall not disclose the Confidential Information to any other third party without the prior written consent of AIESL unless such disclosure is (a) required by law, decree, order or directive of a competent judicial / administrative / legislative authority (b) such Confidential Information is or becomes generally available to the public through no breach of such Bidder / Successful Bidder (c) was in the Bidder / Successful Bidder's possession prior to the time of receipt of it by such Bidder / Successful Bidder (d) Is developed independently by the Bidder / Successful Bidder or (e) is rightfully obtained by third party without breach of this Clause. 3. As such, the Bidder / Successful Bidder agrees to keep such Confidential Information as strictly confidential and shall disclose the same to their employees / professional advisers only on a 'need to know' basis. 4. The Bidder / Successful Bidder agree that any such information received by it shall be (1) protected and kept in strict confidence, using the same degree of care and safeguards as it uses to protect its own information of like importance, but in any case, no less than a reasonable degree of care (2) not to use Confidential Information for any purpose other than to carry out its respective obligations under this Tender. 5. It is understood by the Bidder / Successful Bidder that the breach of provisions of this Clause or the provisions of confidentiality agreed by the parties under the Contract shall cause irreparable harm and injury to AIESL for which monetary compensation may not be adequate. Therefore, in addition to the damages, AIESL shall be entitled to injunctive or other equitable relief against such Bidder / Successful Bidder or any other remedy under law or at equity. 6. The Bidder/ Successful Bidder shall execute a separate Non-Disclosure Agreement with AIESL on non-judicial stamp paper of requisite value. In addition to the content hereunder, all global laws related to privacy and confidentiality will have to be maintained. 7. The Successful Bidder shall be committed to respect privacy and to ensure lawful processing of personal data. The Successful Bidder shall be responsible, as a sole data controller, for its own processing of personal data pursuant to and / or in connection with the Contract.
7.15	**Indemnification** 1. The Service Provider shall indemnify AIESL against all liability arising out of any claim, penalty, loss damages or costs actually paid, suffered, or incurred by AIESL pursuant to any injury or death to any person or by reasons of any damage to any property (including but not limited to the Aircrafts) belonging to AIESL/Third party/AAI caused by the Service Provider's personnel deployed for the Services. In case, any such amount is not deposited / paid to AIESL, the same shall be deducted from Security Deposits / Bills / Future payments due to the Service Provider, without prejudice to the other rights available to AIESL under any applicable law. 2. The Successful Bidder shall indemnify AIESL from all liability arising out of any claim /penalty /loss or damages, including costs (including counsel fees and reasonable legal cost) thereof,

	arising out of any breach or violation by the Successful Bidder of any provisions of any law, including but not limited to the intellectual property rights whether in India or any other country and labor laws governing the employees of the Successful Bidder.
7.16	**1. TIME IS THE ESSENCE OF THE CONTRACT** Time shall be deemed to be **strictly the essence of this contract**. **The Contractor shall be required to complete the entire work within the stipulated period of 20 days from *the 2nd (second) day after the date of issue of the Letter of Acceptance (LOA)".** LOA must be given by the successful bidder by EOD of Issue of PO. (or as specified), including all testing, finishing, and handing over.** Any failure to maintain the required progress shall be treated as a **contractual breach**. --- **2. MILESTONE-BASED PROGRESS SCHEDULE** The following milestones shall be monitored by AIESL: **Milestone Work Component Target % Completion Deadline (Days)** M1 Volume of Work 20% Day 4 M2 Volume of Work 40% Day 8 M3 Volume of Work 60% Day 12 M4 Volume of Work 80% Day 16 M5 Volume of Work 100% Day 20 The Contractor **must meet each milestone**. Any slippage will be recorded in the Site Register and may lead to LD, penalty, or termination.

8. Exemptions / Preference to MSME Units:

8.1	As per Public Procurement Policy for Micro and Small Enterprises (MSMEs) Order, 2012 issued vide Gazette Notification No. 503 dated 23.03.12 by Ministry of Micro, Small and Medium Enterprise of Govt. of India., MSMEs must be registered with any of the following to avail the benefits / preference available vide Public Procurement Policy MSMEs Order, 2012 a. District Industries Centers (DIC) b. Khadi and Village Industries Commission (KVIC) c. Khadi and Village Industries Board d. Coir Board e. National Small Industries Corporation (NSPC) f. Directorate of Handicraft and Handloom g. Any other body specified by Ministry of MSME. h. Udyog Aadhaar (UDYAM)
8.2	MSMEs participating in the tender must submit the certificate of registration with any one of the above agencies indicating the details of the tendered item along with their bid.
8.3	The MSMEs registered with District Industries Centers must submit the Acknowledgement of Entrepreneur Memorandum (EM) Part-II along with their bid. The MSMEs registered with National Small Industries Corporation (NSIC) must submit the valid NSIC registration certificate along with their bid.
8.4	The registration certificate issued from any one of the above agencies must be valid as on close date of the tender. The Successful Bidder should ensure that the same is valid till the end of the Contract period.
8.5	The MSMEs, who have applied for registration or renewal of registration with any of the above agencies/bodies but have not obtained the valid certificate as on close date of the tender, are not eligible for exemption / preference.
8.6	Exemption from submission of EMD – The MSMEs registered with above mentioned agencies/bodies are exempted from payment of EMD. If MSME claims exemption, relevant Udyam certificate must cover SAME CATEGORY of works.
8.7	The Successful Bidder (MSME/Non MSME) will be required to submit the Security Deposit as applicable on the Contract value. However, in case of MSME Bidders, the Security Deposit/Bank Guarantee can be submitted on yearly basis renewable every year.
8.8	**Note:** Above policy of extending benefits is meant for procurement of only goods produced and services rendered by MSMEs and not for any trading activities by them.

Work Scope **SECTION 9**

Scope of Work (SoW)

1. Objective of Work

The work involves comprehensive supply, installation, testing and commissioning (SITC) of electrical installations, power distribution systems, internal electrical wiring, industrial electrical outlets, lighting systems, street lighting infrastructure, air-conditioning equipment and structured LAN networking infrastructure at the designated premises of Old Airport, Begumpet, Hyderabad.

The work shall be executed on a turnkey basis, covering all materials, equipment, accessories, transportation, installation, labour, supervision, tools and tackles, testing, commissioning and other incidental requirements necessary for completing the work in a safe, reliable and operational condition.

The Service Provider (SP) shall execute the work strictly in accordance with the BOQ, approved technical specifications, drawings, applicable Indian Standards, instructions of the Engineer-in-Charge (EIC).

All debris, dismantled materials, waste materials, and surplus items generated during execution shall be removed and disposed outside departmental premises up to 20 km lead as directed by the Engineer-in-Charge.

All works shall be executed in coordination with ongoing operations of the hangar without affecting existing services and operations.

2. Detailed Scope of Work

The scope of work shall broadly comprise the following activities:

2.1 Internal Electrical Installation and Wiring

a. Carry out a detailed site survey and assess the existing electrical infrastructure, installation conditions, electrical loads and designated locations before commencement of work.

b. Supply and installation of modular metal flush boxes, modular front plates, switches, socket outlets, fan regulators and associated accessories as specified in the BOQ.

c. Supply and laying of 1.5 sq.mm, 2.5 sq.mm and 4 sq.mm FR/FRLS copper conductor wires through suitable PVC conduits for internal electrical wiring.

d. Supply, installation, testing and commissioning of LED batten lights, ceiling fans, wall-mounted fans, exhaust fans and associated electrical accessories.

e. Provision of separate electrical circuits for lighting, fans, general-purpose sockets and air-conditioning loads, wherever applicable, in accordance with the approved load schedule.

f. Installation of dedicated power outlets and electrical connections for equipment and other designated loads.

g. All wiring shall be properly routed, dressed, ferruled and identified. Concealed wiring joints shall not be permitted except within accessible junction boxes.

h. Making good of walls, ceilings and other affected surfaces after completion of electrical installation, including removal of debris and disposal of waste materials.

2.2 Distribution Boards and Electrical Protection Systems

a. Supply, installation, testing and commissioning of SPN and TPN distribution boards, complete with suitable MCBs, RCCBs, isolators, neutral links, earth bars, busbars and internal accessories as specified in the BOQ.
b. Installation and integration of appropriately rated MCBs, RCCBs and isolators in existing distribution boards, including inspection of existing DBs, verification of ratings, available space, busbar configuration and circuit requirements.
c. Supply and installation of suitable single-phase and three-phase switch disconnectors/isolators for electrical feeders and designated equipment.
d. Proper termination of incoming and outgoing cables, internal wiring modifications, interconnections, crimping, tightening, insulation and circuit identification.
e. Ensure proper coordination of protective devices with the connected electrical loads and upstream protection systems.
f. All distribution boards shall be properly labelled with circuit identification, ratings, source details and updated circuit schedules.

2.3 Industrial Power Outlets and Equipment Connections

a. Supply and installation of industrial-grade single-phase and three-phase metal-clad socket outlets, including associated MCB protection, enclosures, interlocking arrangements wherever specified and necessary electrical accessories.
b. Installation of 20A, 32A, 40A, 63A and 160A industrial socket arrangements, as applicable to the respective BOQ items.

c. Installation of 200A, four-pole switch disconnector/isolator for designated SFC/Compressor feeder applications.
d. All industrial socket outlets and isolators shall be installed at the designated locations, ensuring proper mounting, electrical connectivity, mechanical protection and safe operation.

2.4 Air-Conditioning Installation

a. Supply, installation, testing and commissioning of inverter-type split air-conditioning units of the capacity specified in the BOQ.
b. The work shall include suitable mounting brackets, indoor and outdoor unit installation, interconnecting refrigerant copper piping, insulation, condensate drainage, electrical interconnections, necessary supports and accessories.
c. The installation shall include pressure testing, leak testing, vacuuming, refrigerant charging wherever required, trial operation and performance verification in accordance with the manufacturer's recommendations.
d. The SP shall ensure proper drainage, vibration control, electrical safety and satisfactory cooling performance before handover.

2.5 Industrial and High-Bay Lighting Installation

a. Supply, installation, testing and commissioning of 100W industrial LED high-bay luminaires of dome type, suitable for workshop and industrial applications.
b. Complete installation of lighting fixtures at designated locations, including mounting arrangements, brackets, fasteners, electrical connections and necessary accessories.
c. Ensure appropriate illumination coverage, uniformity and safe mounting at the designated installation heights.

2.6 Street Lighting Infrastructure

a. Supply, installation and commissioning of minimum 6-metre hot-dip galvanised street-light poles, complete with base plates, foundation/anchor bolts, inspection doors, earthing terminals and associated accessories.

b. Supply and installation of 200W LED street-light luminaires of the make and specifications indicated in the BOQ.

c. Installation of luminaires at the designated pole heights using suitable brackets, clamps, fasteners and weatherproof electrical connections.

d. Supply and laying of 2-core x 10 sq.mm copper armoured XLPE power cables and other associated cables as specified in the BOQ.

e. Provide suitable cable routing, terminations, glands, lugs, cable identification and electrical connections.

f. Installation shall include suitable lifting equipment, hydraulic lifts, boom lifts or cranes wherever required, including competent operators and necessary safety arrangements.

g. The SP shall ensure proper earthing, mechanical stability, electrical safety and satisfactory illumination of the designated outdoor areas.

2.7 Earthing and Electrical Safety

a. Supply, installation and fixing of 8 SWG hot-dip galvanised GI earthing wire as specified in the BOQ.

b. Provide proper earthing and bonding connections for distribution boards, electrical equipment, industrial socket outlets, lighting poles and other electrical installations wherever required.

c. All earthing connections shall be mechanically secure, electrically continuous and protected against corrosion.

d. Earth continuity and other applicable electrical tests shall be conducted before commissioning.

2.8 Power Distribution Cables and Interconnections

a. Supply, laying, installation, testing and commissioning of 25 sq.mm, 3.5-core, XLPE-insulated, aluminium conductor, armoured power cables from the Main Distribution Board (Main DB) to the respective Local Distribution Boards (Local DBs).

b. Laying and routing of cables through existing/new cable trays, approved trenches, conduits or designated pathways, as applicable.

c. Provision of suitable cable glands, aluminium-compatible lugs, supports, clamps, saddles, cleats, ferrules and termination accessories.

d. Proper identification of phases, neutral and cable routes, ensuring compliance with the manufacturer's recommended bending radius and installation practices.

e. Carry out insulation resistance, continuity, phase sequence and other applicable electrical tests before energisation.

2.9 PVC Conduit System

a. Supply, installation and fixing of a complete 25 mm nominal diameter rigid PVC conduit system for routing electrical and data cables.

b. The scope shall include conduits, bends, couplers, junction boxes, connectors, saddles, clamps, fittings, fasteners, protective accessories and all necessary consumables.

c. Conduit routing shall be carried out through concealed or surface-mounted arrangements, as directed by the EIC and as per approved site layouts.

d. For external wall installations, suitable U-channel/U-angle supports shall be provided wherever specified to ensure secure fixing and proper cable protection.

e. The SP shall assess the actual site requirements, determine the necessary routing and submit the proposed conduit layout and quantity assessment for approval before execution.

2.10 Structured LAN Networking Infrastructure

A. CAT6 Room-wise LAN Cabling

a. Supply, laying, installation, routing, testing and commissioning of CAT6 UTP, 4-pair, 23 AWG, 100% solid bare copper LAN cables for individual room-wise LAN connectivity.

b. The approximate cable quantity indicated in the BOQ is 1,300 metres. Actual routing shall be as per approved room-wise drawings and site requirements.

c. Individual CAT6 cable runs shall be provided from the designated network distribution point/patch panel to the respective LAN outlets.

d. Termination shall be carried out using compatible CAT6 RJ45 female keystone jacks and loaded patch panels, as specified in the BOQ.

e. All terminations shall follow the T568B wiring configuration consistently.

f. Cable identification and labelling shall be provided at both ends, indicating room number, outlet identification and corresponding patch panel port number.

B. CAT6A Main and Backup Backbone Cabling

a. Supply, installation, laying, routing, testing and commissioning of CAT6A S/FTP, 4-pair, solid bare copper backbone LAN cables for main and backup network connectivity.

b. The backbone shall comprise separate main and backup cable connections between the designated network distribution points.

c. Independent physical routing shall be provided wherever feasible to minimise the possibility of simultaneous disruption of both network connections.

d. CAT6A shielded RJ45 female keystone jacks and compatible termination accessories shall be provided at both ends as specified in the BOQ.

e. Shield continuity, appropriate bonding and earthing shall be ensured in accordance with the manufacturer's recommendations.

f. All backbone cables shall be identified and labelled at both ends, clearly indicating main/backup connectivity and corresponding network port details.

C. Network Racks and Patch Panels

a. Supply and installation of 4U and 6U wall-mounted network racks as specified in the BOQ, complete with mounting brackets, anchor fasteners, lockable front doors, ventilation, cable entry arrangements, cable management and earthing accessories.

b. Supply and installation of 24-port CAT6 loaded patch panels, complete with factory-fitted keystone jacks, IDC terminations, rear cable management and port identification.

c. Racks shall be installed at the designated locations and identified as Rack-1, Rack-2, Rack-3, Rack-4 and Rack-5, as applicable.

d. Ensure proper cable dressing, segregation, termination, port numbering and neat cable management within each rack.

D. LAN Outlets and Faceplates

a. Supply and installation of modular faceplates with suitable concealed/surface-mounted back boxes for room-wise LAN outlets.

b. Provide CAT6/CAT6A-compatible RJ45 female keystone jacks and associated mounting accessories as specified in the BOQ.

c. All LAN outlets shall be properly aligned, fixed, labelled and integrated with the respective network cabling infrastructure.

d. The complete structured cabling system shall be tested for wire mapping, continuity, pair integrity and applicable transmission performance.

3. General Execution Requirements

3.1 The SP shall visit the site and familiarise itself with the actual working conditions, existing electrical infrastructure, installation locations, cable routes and access restrictions before submitting its bid.

3.2 The SP shall prepare and submit the proposed work methodology, detailed execution schedule, manpower deployment plan, material submittals and installation drawings wherever applicable for approval of the EIC.

3.3 All materials shall be brand new, unused, genuine and of the specified make, rating and technical specifications. Reconditioned, refurbished or substandard materials shall not be accepted.

3.4 The makes and models of major electrical equipment and accessories shall be subject to approval by the EIC. Any proposed equivalent make shall require prior written approval and shall meet or exceed the specified technical requirements.

3.5 The SP shall ensure compatibility between all supplied equipment, accessories, cables, protective devices and existing electrical infrastructure.

3.6 No deviation from the approved drawings, technical specifications or BOQ shall be carried out without prior written approval of the EIC.

3.7 The SP shall arrange all necessary manpower, competent supervisors, electricians, technicians, tools, tackles, instruments, transportation, lifting equipment and consumables required for execution.

3.8 The SP shall coordinate with the concerned AIESL departments to minimise disruption to ongoing MRO and office operations.

3.9 All work shall be executed in a professional manner, maintaining proper workmanship, alignment, cable dressing, equipment mounting and installation aesthetics.

3.10 The SP shall protect existing buildings, structures, equipment, services and installations during execution. Any damage caused due to the SP's activities shall be rectified at its own cost.

4. Material Approval and Quality Assurance

4.1 Before commencement of supply, the SP shall submit technical datasheets, catalogues, compliance statements, test certificates, manufacturer details and warranty documents for approval by the EIC, wherever applicable.

4.2 Electrical cables shall be accompanied by relevant manufacturer's test certificates and shall conform to the applicable IS standards specified in the BOQ.

4.3 All electrical equipment shall conform to the relevant applicable IS/IEC standards and statutory requirements.

4.4 Materials shall be inspected and verified by the EIC before installation. Inspection or acceptance of materials shall not relieve the SP of its contractual obligations.

4.5 The EIC reserves the right to reject any material that does not conform to the approved specifications or is found damaged, defective or unsuitable for the intended application.

5. Testing and Commissioning

The SP shall carry out complete testing and commissioning of all installations, including but not limited to:

a. Continuity and insulation resistance testing of all electrical wiring and power cables.

b. Verification of polarity, phase sequence and earth continuity.

c. Functional testing of MCBs, RCCBs, isolators, distribution boards and industrial socket outlets.

d. Verification of earthing and bonding connections.

e. Functional testing of lighting fixtures, fans, exhaust fans and air-conditioning units.

f. Operational testing of street-lighting installations, including illumination and switching arrangements.

g. Testing of CAT6 and CAT6A LAN cabling for wire mapping, continuity, pair integrity and applicable transmission parameters.

h. Verification of patch panel terminations, network rack connectivity, port identification and main/backup backbone connectivity.

All testing shall be carried out using suitable calibrated instruments. Test reports and commissioning records shall be submitted to the EIC before final acceptance.

6. Safety and Statutory Compliance

6.1 The SP shall comply with all applicable electrical safety regulations, CEA regulations, factory safety requirements and other statutory provisions in force.

6.2 All personnel deployed shall possess appropriate qualifications, competency and authorisations for the work assigned to them.

6.3 Suitable PPE, including safety helmets, safety shoes, insulated gloves, reflective jackets, safety harnesses and other necessary protective equipment, shall be provided by the SP.

6.4 Proper barricading, warning boards and restricted access arrangements shall be provided wherever required.

6.5 Electrical isolation and Lockout/Tagout (LOTO) procedures shall be followed before undertaking work on existing electrical systems.

6.6 Work at height shall be undertaken using approved access equipment and appropriate fall-protection arrangements.

6.7 All lifting equipment, hydraulic lifts, cranes and other machinery deployed shall have valid inspection and fitness certificates wherever applicable.

6.8 The SP shall be solely responsible for the safety of its personnel, materials, equipment and working areas during execution.

6.9 Any accident, damage or loss arising due to negligence, unsafe practices or failure to comply with safety requirements shall be dealt with in accordance with the applicable contractual and statutory provisions.

7. Completion, Documentation and Handover

On completion of the work, the SP shall:

a. Demonstrate satisfactory operation of all electrical and LAN installations to the satisfaction of the EIC.

b. Submit approved material details, manufacturer's warranties, test certificates and commissioning reports.

c. Submit updated as-built electrical and LAN drawings, including cable routing, DB schedules, circuit details, rack layouts, patch panel port mapping and cable identification schedules, as applicable.

d. Submit LAN cable testing reports and backbone connectivity test records.

e. Provide equipment manuals, operation and maintenance instructions and warranty documentation.

f. Remove surplus materials, packing materials, construction debris and waste from the work premises.

g. Rectify all defects, deficiencies and observations identified during inspection and commissioning at no additional cost to AIESL.

h. Hand over all installations in a complete, safe, clean and fully operational condition.

8. Warranty and Defect Liability

8.1 All supplied materials and equipment shall carry the manufacturer's warranty as specified in the respective BOQ items.

8.2 The Service Provider (SP) shall provide a minimum Defect Liability Period (DLP) of six (06) months for all electrical works, commencing from the date of successful completion, testing and commissioning of the works. Further, all equipment supplied and installed under the contract shall be covered by the respective manufacturer's warranty or the warranty period specified in the BOQ/Contract, whichever is applicable. The SP shall be responsible for rectifying, at no additional cost to AIESL, any defects or deficiencies arising during the applicable DLP/warranty period.

8.3 Any defects arising due to defective materials, improper installation, faulty workmanship or inadequate termination during the applicable warranty/defect liability period shall be rectified or replaced by the SP at no additional cost to AIESL.

8.4 The SP shall coordinate with the respective OEMs/manufacturers for warranty-related repairs and replacements wherever required.

9. Measurement and Payment

9.1 Measurement and payment shall be governed by the BOQ quantities, specified units of measurement and actual executed quantities, wherever applicable.

9.2 Items specified on a unit-rate basis shall be measured and paid for based on the actual quantities executed, jointly verified and certified by the EIC, subject to the terms of the contract.

9.3 Items specified on a job/lump-sum basis shall be paid for upon satisfactory completion of the entire specified scope, subject to verification and certification by the EIC.

9.4 The quoted rates shall be deemed inclusive of all materials, accessories, consumables, transportation, loading/unloading, labour, supervision, tools, tackles, testing instruments, installation, termination, testing, commissioning, safety arrangements and incidental expenses required for completion of the respective BOQ items.

9.5 No additional payment shall be admissible for accessories, minor materials, fittings or incidental works necessary for completing the specified installation, unless expressly approved in writing by AIESL as a variation under the contract.

10. Responsibility of the Service Provider

The SP shall be fully responsible for the complete execution, quality, safety, testing, commissioning and satisfactory performance of the works covered under the BOQ. The SP shall ensure that all installations are completed in accordance with approved specifications and are handed over in a fully functional condition.

The decision of the Engineer-in-Charge regarding workmanship, quality of materials, conformity with specifications and satisfactory completion shall be final, subject to the terms and conditions of the contract.

The entire work shall be treated as a comprehensive SITC assignment, and the SP shall ensure completion of all activities necessary to deliver fully functional electrical and structured LAN infrastructure at the designated premises of AIESL.

LIQUIDATED DAMAGES CLAUSE:

In the event of delay attributable to the Contractor in completing the work within the stipulated completion period or approved extended period, AIESL shall be entitled to levy Liquidated Damages at the rate of 0.5% of the value of the delayed portion of work for every completed week of delay, subject to a maximum of 5% of the total Contract Value.

Any extension of time approved by AIESL on account of delays attributable to AIESL, approved variations or Force Majeure events shall be excluded while calculating contractor-attributable delay.

Before recovery of LD, the Contractor shall be informed of the proposed recovery and given a reasonable opportunity to submit its explanation.

The final amount of LD shall be determined by the Competent Authority and may be recovered from the Contractor's pending bills or Performance Security, in accordance with the Contract.

Recovery of LD shall not relieve the Contractor from completing the remaining contractual obligations.

General Manager (Engg.)
AI Engineering Services Ltd, Hyderabad.

महाप्रबंधक (इंजीनियरिंग)/General Manager (Engg.)
ए आई इंजीनियरिंग सर्विसेज लिमिटेड
AI Engineering Services Limited
एम.आर.ओ. कॉम्प्लेक्स, आर जी आई एयरपोर्ट
MRO Complex, RGI AIRPORT
गेट सं. ३, के पास,/Near Gate No. 3, शंशाबाद/ Shamshabad
हैदराबाद/Hyderabad - 500 108, तेलंगाना/ T.S.

Technical Bid Form

SECTION-10
FORM 1

TECHNICAL BID FORMAT

(To be submitted on Bidder's company letterhead)

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

A. Bidder's Details

1.	Name of Contract	
2.	Name of the Company/Establishment	
3.	Full Address of Registered Office	
4.	Telephone No./ Mobile No.	
5.	Email address	
6.	Fax Number	
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 of the person signing the tender with the bidder	
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: Acknowledge copy Ref. No.	
15	Is the Bid Security Declaration Form (duly filled & signed) attached/ enclosed along with the Technical Bid (for MSME Bidder)	
16	If Bidder is an MSME unit, please specify the details of the MSME registration certificate below:	
	Registration Certificate No.	
	Date of issue	
	Valid up to	
	Services covered under the Registration Certificate	
	Whether the MSME Unit is owned by an SC/ST. If yes, please attach documentary proof to substantiate the castestatus.	

B. Parameters

Bidder's Response

Sr. No.	Parameter	Bidder's Response (Yes/No) (Attach documentary proof)
1	The Bidder must be a limited Company registered under Indian Companies Act, 1956 or registered under Indian Companies Act 2013 or a partnership firm or a sole proprietorship firm or aprivate limited company duly registered under the concerned acts applicable for conducting business in India.	
2	Whether having ESIC Regn No. self-attested copy be enclosed (Must)	Regn No….. Date……
3	Whether having PF Regn. No. self-attested copy to be enclosed (Must, As & if applicable)	Regn No….. Date……
4	Has any Director/Partner/Proprietor been convicted at any time by a court of law?	
5	Has your company been Blacklisted by any agency of the airport or elsewhere?	

C. Techno-Financial Bid Form

Sl No	Description	AIESL Requirement	Vendor Response	Document Proof
1	Minimum average annual turnover of Rs. 18 Lakhs (Rupees Eighteen Lakhs) during the last three financial years ending on 31st March 2026 (2023-2024; 2024-2025; 2025-2026). Certificate duly signed by the CA (chartered accountant) to be submitted.	Must	Yes/No	To submit document proof. If NO, Disqualify
2	Proof of related services provided. (Note: They should have managed minimum three projects related to tender. Details should be provided as per PARA D below.). Similar works – minimum 3 years' experience.	Must	Yes/No	To submit document proof. If NO, Disqualify
3	Agree to all the General Terms & Conditions, Work Scope, Workflow and Evaluation Criteria as prescribed in the bidding document. (Form 3)	Must	Yes/No	To confirm
4	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
5	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
6	The tenderer shall have demonstrated experience and expertise in Electrical works of industrial/commercial buildings including structural repairs, roofing, painting, and associated MEP works.	Must	Yes/No	To confirm.
7	PAN and GST Number	Must	Yes/No	To submit document proof. If NO, Disqualify
8	The service provider shall verify that they have proper insurance coverage to protect against potential damages, loss of goods, or accidents within the warehouse.	Must	Yes/No	To confirm and submit document proof. If NO, Disqualify
9	The service provider must have deployed qualified Site Engineer/Supervisor for at least 3 similar works and shall demonstrate capability to deploy minimum required skilled tradesmen (masons, carpenters, electricians, painters) as required by the BOQ	Must	Yes/No	To confirm and submit document proof. If NO, Disqualify

10	The bidder must have successfully completed similar kind of work over the last three years i.e. the current financial year and the last three financial years: - • Three similar completed service each costing not less than amount equal to Rs. 14,40,000/- (Indian Rupees Fourteen Lakhs forty thousand only). (40%) Estimated contract value **OR** Two similar completed service each costing not less than amount equal to Rs. 18,00,000/- (Indian Rupees Eighteen Lakhs only). (50%) Estimated contract value **OR** • One similar completed service costing not less than the amount equal to Rs. 28,80,000 (Indian Rupees Twenty Eight Lakhs Eighty thousand only). (80%) Estimated contract value If the bidder is a Micro or Small Enterprise as per latest orders issued by Ministry of MSME, the bidder shall be exempted from the eligibility criteria of "Experience Criteria" as defined above subject to meeting of quality and technical specifications. The bidder seeking exemption from Experience Criteria, shall upload the supporting documents to prove his eligibility for exemption.	Must	Yes/No	To confirm and submit document proof. If NO, Disqualify
11	The bidder must be a firm/entity registered in India under the Companies Act, 2013 (or Companies Act, 1956), or the Limited Liability Partnership Act, 2008, or the Partnership Act, 1932, or as a Sole Proprietorship, and must have been in active business/existence in India for a minimum period of 5 (five) consecutive years as on the date of bid submission. Proof of incorporation/registration and GST registration shall be submitted.	Must	Yes/No	If NO, Disqualify

D. Details of related services provided during the last three financial years ending on 31st March 2025. together with a copy of contract/ /invoices of clients)

S. No.	Name Of Contract	Name &Address of Company	Period of Contract (From…to….)	Annual Value of Contract	Date of Completion of Work	Document Attached YES/NO
I						
II						
III						

DECLARATION

We certify that the above works have been executed by our company and all details furnished are true.

E. 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: _____

Technical Bid Evaluation Criteria SECTION 11

AIESL/ Authority inviting Tender will open the bids as per the date, time and place specified in the bid. Bidder(s) can view Bid opening event in person or online. In the event of the Specified datefor the opening of bids being declared a holiday for AIESL, the Bids will be opened at the appointed time and location on the next working day.

General Conditions	
1.	Part-I i.e., Technical Bids shall be evaluated for establishing eligibility of the bidder as well as techno- commercially responsiveness as per bid conditions, and a list will be drawn up of the responsive bids whose financial bids are eligible for consideration.
2.	During the detailed evaluation of "Technical Bids", AIESL will determine whethereach Bid: a. Meets the eligibility criteria defined in Section 6 GTB. b. Has been properly signed c. Is accompanied by the required bid securities declarations d. Is substantially responsive to the requirements of the bidding documents. During the detailed evaluation of the "Financial Bids", the responsiveness of the bids will be further determined as per remaining bid conditions, i.e., Bill of Quantity and Price, Technical Specifications, if any.
3.	A substantially responsive "Bid" is one which conforms to all the terms, conditions, and specifications of the bidding documents, without material deviation or reservation. A material deviation or reservation is one: a. Which affects in any substantial way the scope, quality, or performance of the Works. b. Which limits in any substantial way, AIESL's rights, or the Bidder's obligations under the Contract. c. Whose rectification would affect unfairly the competitive position of other bidders presenting substantially responsive bids or d. Which is inconsistent with the bidding documents, If a "Bid" is not substantially responsive, it will be rejected by AIESL and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation. During Technical qualification/ Financial Bid evaluation, AIESL may, at its discretion, ask any Bidder for a clarification of its Bid. The request for clarification and response shall be in writing or e-mail, however, no change in the price or substance of the Bid shall be sought, offered, or permitted. Reply shall be submitted by Bidder within a stated reasonable period. If Bidder does not provide clarifications of the information requested by the date and time set in AIESL's request for clarification, its Bid may be rejected.
4.	AIESL will evaluate and compare the submitted bids on Least cost selection L1 criteria, whose bids are determined to be substantially techno-commercially responsive in accordance with Section 10.
5.	Award Criteria & AIESL's Right to accept/ reject any or all Bids. The notification of award will constitute the formation of the Contract until the Formal Agreement is signed.
6.	The Technical Bids would be first evaluated for compliance. AIESL reserves the right at its sole discretion to seek whatever information, documents etc. from the Bidder as it may consider necessary for the purpose of evaluation of the Bids.
7.	In the event the Bidder fails to provide any information or documents sought by AIESL, the Bid of the said Bidder shall be rejected by AIESL. No correspondence in this regard will be entertained.
8.	The Bidders must meet all the mandatory technical qualification criteria as listed in this section of tender. Should a bidder fail to comply with one or more of the mandatory criteria, his bid will not be evaluated any further.
9.	Bidders are advised to note that taking deviation to following terms and conditions of Tender shall lead to rejection of their Bids: I. Firm/Quoted Price throughout the Contract Period and the extension period II. Scope of work III. EMD/ Security Declaration IV. Period of Validity of Bid V. Performance Bank Guarantee / Security Deposit

	VI. Arbitration / Resolution of Dispute VII. Force Majeure VIII. Statutory Compliance to Applicable Laws IX. Registration of PF & ESIC in the name of Firm X. All the pages of the Tender must be mandatorily signed and stamped by the authorized signatory along with the supporting documents as asked in the technical bid.((signed by any key managerial personnel or an officer of the company duly authorized by the Director/Partner/Proprietor in this behalf).) XI. All documents in support of the Tender must be submitted in accordance with thechecklist as given below of this section Form2. XII. Any other condition specifically mentioned in the Tender elsewhere that non-compliance of the clause shall lead to rejection of the bid. XIII. Experience in Electrical /Aviation Hangar /Industrial Building repair.
10.	AIESL would evaluate the responses based on information as provided. The decision of AIESL in this regard shall be final.
11.	The Bidders who qualify as per the Technical Bid evaluation criteria as mentioned in this Section and other requirements of the Tender would be considered for next stage of Tender process.
Experience	
12.	The Bidder should be a Registered Company / Firm in India under the and should be in existence in India for 5 YEARS.
13.	The bidder should not have been blacklisted/ debarred by any Government Departments, Agencies or Public Sector Undertakings in India as on the date of submission of the tender.
14.	The bidder should have experience of having "Successfully Completed" similar kind of work over the last three years i.e. the current financial year and the last three financial years: - • Three similar completed service each costing not less than amount equal to Rs. 14,40,000/- (Indian Rupees Fourteen Lakhs forty thousand only). (40%) Estimated contract value **OR** Two similar completed service each costing not less than amount equal to Rs. 18,00,000/- (Indian Rupees Eighteen Lakhs only). (50%) Estimated contract value **OR** • One similar completed service costing not less than the amount equal to Rs. 28,80,000 (Indian Rupees Twenty Eight Lakhs Eighty thousand only). (80%) Estimated contract value If the bidder is a Micro or Small Enterprise as per latest orders issued by Ministry of MSME, the bidder shall be exempted from the eligibility criteria of "Experience Criteria" as defined above subject to meeting of quality and technical specifications. The bidder seeking exemption from Experience Criteria, shall upload the supporting documents to prove his eligibility for exemption.
15.	The bidder must mandatorily submit compliance to technical specifications as mentioned in this section for proposed infra solution.
Turnover	
16.	Average Annual financial Turnover value of the bidder(s) in the preceding years 3 financial years (FY 2023-24; 2024-25; 2025-26) should not be less than Rs 18 LAKHS in value (INR) The necessary documents viz. Annual Report/ Audited Balance Sheet/ Profit & loss account for calculation of the above should be submitted by the bidder.
Make In India	
17.	**PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA) ORDER, 2017** The procurement shall be governed by the Public Procurement (Preference to Make in India) Order, 2017, as amended from time to time, including the revision dated 19.07.2024 and subsequent applicable Government instructions. The Bidder shall declare the percentage of local content in the prescribed format and identify the location(s) where the local value addition is undertaken. Unless a higher threshold has been notified by the concerned Nodal Ministry: (a) Class-I Local Supplier shall mean a supplier offering local content of 50% or more. (b) Class-II Local Supplier shall mean a supplier offering local content of 20% or more but less than 50%. (c) Non-Local Supplier shall mean a supplier whose local content is below the prescribed Class-II threshold.

	Purchase preference shall be extended strictly in accordance with the applicable provisions of the DPIIT Order, including the prescribed eligibility, purchase preference margin, quantity/value allocation and price-matching requirements, as applicable to the nature of the procurement. The Bidder shall furnish the prescribed self-certification and supporting particulars. A certificate from the statutory auditor/cost auditor or practising Chartered Accountant/Cost Accountant shall be obtained wherever required under the applicable Order. AIESL shall have the right to verify local content declarations, examine supporting documents and take appropriate contractual and statutory action in the event of false declaration or non-fulfilment of local content obligations.
Verification of local content:	
18.	1. The 'Class-I local supplier'/ 'Class-II local supplier' at the time of tender, bidding or solicitation shall be required to indicate percentage of local content and provide self-certification that the item offered meets the local content requirement for 'Class-I local supplier'/ 'Class-II local supplier', as the case may be. They shall also give details of the location(s) at which the local value addition is made. 2. In cases of procurement for a value in excess of Rs. 10 crore, the 'Class-I local supplier'/ 'Class-II local supplier' shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.
19.	Bids will be rejected if submitted after the last date as per Table 1
20.	Bids will be rejected in case of EMD is not submitted except if the bidder is exempted as per MSME exemptions
21.	Incomplete Bids will be rejected

Technical Bid Evaluation Criteria- Form 2

Check list for Tender No

Tender Description- Execution of Internal Electrical Wiring, Installation of Split Air Conditioning Units & IT infrastructure at AIESL Engineering Hangar, Begumpet Airport, Hyderabad

Tender Opening due Date- 20/11/2026

S/N	Particulars	Observation (Yes/No)	Reference Page No
1	EMD EMD PAYMENTS MUST BE DONE THROUGH AIESL PAYMENT GATEWAY ONLY.		
2	Eligibility Criteria With Experience / Completion Certificate/Completion Certificate of similar work as per NIT requirement		
3	Financial Turnover certificate as per NIT requirement The Bidder should have made Net Profit after taxation in last three financial year (audited Balance Sheet profit and loss account)		
4	Copy of Pan Card		
5	Copy of GST Certificate		
6	Registration- Copy of UDYAM registration Certificate issued by Ministry of MSMEs of GOI or any other agency specified by Ministry of MSME		
7	No Blacklisting- Self Declaration by the bidder		
8	The bidder Should be ISO -9001 or any other criteria (optional)		
9	Declarations as per attached proforma of NIT		
10	Whether all pages of tender document are duly filled signed and stamped		
11	Forms and Format as specified in Section 14		

CONFIRMATION (Applicable for the whole tender document & to be submitted on Company's letter head)

We confirm that we have read this whole document and understand all the requirement as mentioned in this document. We have submitted all the required document : Bid Evaluation and Eligibility Criteria and FORMS CHECK-LIST, also other records required as documentary support & we accept all the terms & conditions and payment terms mentioned in this tender document(s) and subsequent corrigendum.

Signature and seal of the bidder:

Date: Place:

Financial Bid Form Section-12

Financial Bid Evaluation Criteria

1.	The Part-II i.e. Financial Bid of only of those Bidder(s), who are found to be meeting the eligibility criteria as well as techno-commercially responsive for the subject Works shall be opened thereafter. The date of opening of the Financial Bid shall be notified separately to all the eligible & techno-commercial responsive Bidder. Bidder(s) can view Bid opening event in person or over online call at their end.
2.	The Financial Bids of Bidder(s), who are not considered eligible and techno commercial responsive, shall not be opened. The decision of AIESL will be final and binding in this regard.
3.	The Financial Bids of only those Bidders who qualify under the Criteria and comply with the other Tender requirements would be considered for financial bid evaluation.
4.	Financial Bids should be submitted strictly as per the format given below of this Section (Form 8) only. The detailed procedure / method of quoting and criteria for evaluation of the Financial Bids has been provided.
5.	Form 8 consists of table; The total cost of the table will form a part of evaluation for successful bidder. Total Cost of Ownership (TCO) will be arrived at by adding cost of all components as mentioned in financial bid format Form-8. Form 08A is provided to understand unit prices for each of the items required as part of network and infrastructure establishment at AIESL.
6.	The Bidder shall quote a price for all the components and services of the solution to meet the requirements of AIESL.
7.	All the prices will be in Indian Rupees (in words and figures). In case of discrepancy, the amount in word will prevail.
8.	In case of discrepancy in the unit price and the total price, the unit prices shall be taken to arrive at L-1.
9.	No adjustment of the price quoted in the Price Proposal shall be made on account of any variations in costs of supply & services, currency exchange fluctuations with international currency or any other cost component affecting the total cost in fulfilling the obligations under the contract. No clauses for price fluctuations due to fluctuation of the Indian currency against any of foreign currency will be accepted during the period of the contract.
10.	The prices, once offered, must remain fixed and must not be subject to escalation for any reason whatsoever within the period of the validity of the proposal and the contract. A proposal submitted with an adjustable price quotation or conditional proposal shall be treated as nonresponsive.
11.	Bidder should not leave any field blank. In case the field is not applicable, Bidder must indicate "0" (zero) in all such fields.
12.	It is mandatory to provide the break-up of all components in the format specified in Form 8. The Financial Bid should include the unit price and proposed number of units for each component provided in the Financial Bid.
13.	It is mandatory to capture all taxes including duties and levies wherever applicable and/or payable. All the taxes of any nature whatsoever shall be borne by the Bidder and should be mentioned separately.
14.	The bid amount shall be inclusive of packing, forwarding, transportation, insurance, delivery charges, labour, materials, tools & plants, scaffolding/staging for working at all heights, and providing, using and maintaining all required safety equipment such as safety belts, harnesses, helmets, lifelines, PPE, along with all incidental works, complete in all respects as per specifications and direction of the In-Charge and any other charges as applicable.
15.	All costs incurred due to delay of any sort, shall be borne by the Bidder.
16.	AIESL reserves the right to ask the Bidder to submit proof of payment against any of the taxes, duties, levies indicated within specified time frames.
17.	AIESL reserves the right to ask the Bidder to submit analysis of rate and data sheet for the rates quoted in the Financial Bid by the bidder including break-up of price quoted.
18.	If the price for any of the service is not explicitly quoted in the Financial Bid or mentioned as zero, it is assumed that the price for that element is absorbed in some other service element for which a price has been quoted and AIESL has the right to source services for which no price was quoted or quoted as zero at no additional price.
19.	If taxes or any other applicable charges are not indicated explicitly, they are assumed to be

	bundled within the prices quoted and unbundling of these charges will not be entertained either during evaluation or while signing the contract.
20.	Bidder must submit financial proposal in the format prescribed in Form 8. Any deviation proposed by the bidder will make the bid liable to be rejected.
21.	The costs quoted should be individually classified under "Recurring" and "Non-Recurring". All such costs would be considered for evaluation of the Financial Bids.
22.	It will be the responsibility of the bidder to comply and pay all taxes / levies / duties in the country of origin as well as in India, as applicable for the entire contract.
23.	The prices quoted in the Financial Bid must be exclusive of all applicable taxes and duties. The taxes and duties components applicable in the country of origin of the Bidder as well as that applicable in India for all the items of Financial Bid format should be indicated clearly and separately in the Financial Bid. In case, no taxes are applicable, it should be indicated as 'NIL' or 'Zero' in the Financial Bid format.
24.	Withholding tax (applicable to foreign bidders) and TDS (applicable to Indian bidders) shall be deducted by AIESL on all payments, as per applicable Government of India rules & regulations.
25.	Any increase in taxes / levies / duties in subsequent years will be reimbursed by AIESL on submission of proof of payment by the bidder. Similarly, in case of any reduction in the taxes / levies / duties from the present level, the benefit will be passed on to AIESL.
26.	In case, any new taxes/ levies/ duties are introduced in future by the Government in the country of origin or in India during the period of the contract, the same shall be reimbursed to the bidder by AIESL on submission of proof of such payments.
27.	Any other costs not quoted in the Financial Bid, but which must be borne by AIESL for implementation of the bidder's solution, would be added to the total bid price for price comparison. The costs for this purpose will be taken from the prevailing market rate. The decision of AIESL in this respect would be final.
28.	Unconditional discounts and credits, if any, would be adjusted in the total bid price for price comparison.
29.	Conditional discounts and credits, if any offered in the Financial Bid, will not be considered for price comparison.
30.	Representations, if any, for modifications to the price quoted in the Financial Bids will not be entertained after opening of the Tender.
31.	**Final Selection Marking Methodology: The final selection of the bidder will be based on Least Cost Selection (L1). The bidder quoting the lowest financial bid will be awarded the contract.**
Price Preference	
32.	The MSMEs registered with above mentioned agencies/bodies for the Tendered Service and quoting price within price band of L1+15% (fifteen per cent) shall also be allowed to supply a portion of requirement by bringing down their price to the price quoted by L1 in a situation where the price quoted by the L1 Bidder (the "L1 Price") is from other than a MSME and such MSME shall be allowed to supply up to 20 % (twenty per cent) of total Tendered value/service. In case of more than one such MSMEs are in the price band of L-1 + 15% and matches the L-1 Price, the 25% value shall be shared proportionately, if it can be divided, else the complete contract shall be allocated to the MSME unit.
33.	An MSMEs unit will not get any purchase preference over another MSME unit.
34.	**Note:** Above policy of extending benefits is meant for procurement of only goods produced and services rendered by MSMEs and not for any trading activities by them.
Price Negotiation	
35.	As a general norm price negotiations are not to be carried out with the bidders. Negotiations, if at all, shall be an exception and may be held for better pricing with the L1 bidder only and with the L2, L3, and so on bidders only in case of the split of the Services/Value.

Form 08: Financial Proposal Format

[To be submitted on Bidder Company's Letterhead]

The format for Financial Bid is given below. Bidders must fill the fields concerned in the appropriate space given below:

The BOQ quantities, descriptions, specifications and units of measurement specified in the Tender Document shall constitute the common basis for financial evaluation.
Bidders shall quote their rates against each BOQ item without altering the specified quantities, technical specifications, makes or scope of work.
The evaluated tender price shall be calculated by multiplying the quoted unit rates by the corresponding BOQ quantities and adding the applicable taxes and other admissible charges in accordance with the prescribed financial bid format.
No additional market-rate adjustment, unquoted cost loading or post-opening price correction shall be introduced except for arithmetic corrections expressly permitted under the tender conditions and applicable procurement instructions.
Any item for which the bidder is required to quote a price shall not be left blank. NIL or zero pricing shall be accepted only where expressly permitted by the BOQ and applicable procurement rules. An unconditional zero-charge offer for the entire procurement shall be treated in accordance with the prescribed bid responsiveness provisions.
The evaluated financial bid shall be determined on a uniform and objectively verifiable basis for all technically qualified bidders.

To,

O/o. Dy.GM(E-PPMM)
AI Engineering Services Ltd. MRO Complex,
Near Gate 03, RGI Airport,
Shamshabad – 500108.

Sub: Financial Proposal for Selection of Service Provider for the **Execution of Internal Electrical Wiring, Installation of Split Air Conditioning Units & IT infrastructure at AIESL Engineering Hangar, Begumpet Airport, Hyderabad**
Ref. No.: AIESL/HYD/PPMM/ENQ/31 Dated 10/11/2026

Dear Sir,

We are pleased to submit our Financial Proposal for the **Execution of Internal Electrical Wiring, Installation of Split Air Conditioning Units & IT infrastructure at AIESL Engineering Hangar, Begumpet Airport, Hyderabad**

We hereby declare that our Financial Proposal is unqualified and unconditional in all respects.

1) The Financial Bid has been quoted without seeking any minimum guaranteed support from AIESL.
2) Financial bid will cover all charges required for successful completion of the project with no hidden charges.
3) Prices are only quoted in the financial bid and no price element should be mentioned in the technical bid.
4) If any price element is found in the technical bid, we are liable to be rejected from the bidding process.
5) Our attached Financial Proposal is as follows:

BOQ - ELECTRICAL & IT WORKS TO BE EXECUTED AT BEGUMPET HANGAR					
Sl.No.	**Work Description**	**QTY (A)**	**UOM**	**Rate in INR (B) Excl. GST**	**Total Amount (C = A * B) Excl. GST**
1	Supply, installation, fixing and commissioning of 8-module metal flush box, fabricated from CRCA sheet steel of minimum 1.0 mm thickness, with corrosion-resistant treatment and durable black powder-coated, minimum 75 mm depth or as required, complete with suitable fixing holes, cable entry knock-outs and earthing provision. The box shall have smooth, deburred edges and shall be dimensionally compatible with the corresponding 8-module switch plate, including all necessary accessories, fixing hardware	38	Nos		C1 = A1*B1

	and labour, complete in all respects as per site requirements and directions of the Engineer-in-Charge. Make Polycab				
2	Supply, installation, fixing and commissioning of 6-module metal flush box, fabricated from CRCA sheet steel of minimum 1.0 mm thickness, with corrosion-resistant treatment and durable black powder-coated, minimum 75 mm depth or as required, complete with suitable fixing holes, cable entry knock-outs and earthing provision. The box shall have smooth, deburred edges and shall be dimensionally compatible with the corresponding 6-module switch plate, including all necessary accessories, fixing hardware and labour, complete in all respects as per site requirements and directions of the Engineer-in-Charge. Make Polycab.	88	Nos		C2 = A2*B2
3	Supply, installation, fixing and commissioning of 3-module metal flush box, fabricated from CRCA sheet steel of minimum 1.0 mm thickness, with corrosion-resistant treatment and durable black powder-coated, minimum 75 mm depth or as required, complete with suitable fixing holes, cable entry knock-outs and earthing provision. The box shall have smooth, deburred edges and shall be dimensionally compatible with the corresponding 3-module switch plate, including all necessary accessories, fixing hardware and labour, complete in all respects as per site requirements and directions of the Engineer-in-Charge. Make Polycab	94	Nos		C3 = A3*B3
4	Supply and installation of 8-module modular front plate, manufactured from high-quality, flame-retardant, impact-resistant engineering-grade thermoplastic, UV-stabilised and resistant to fading, with a smooth, durable finish. The plate shall be provided with a matching modular frame/support, suitable screw-fixing arrangement and all necessary fixing accessories. It shall be fully compatible with the 8-module metal flush box and the specified modular switches and socket outlets, ensuring proper alignment, secure fixing and a neat finish. Colour and finish shall be subject to approval of the Engineer-in-Charge, complete in all respects as per the technical specifications and site requirements. Make: ANCHOR ROMA URBAN	38	Nos		C4 = A4*B4
5	Supply and installation of 6-module modular front plate, manufactured from high-quality, flame-retardant, impact-resistant engineering-grade thermoplastic, UV-stabilised and resistant to fading, with a smooth, durable finish. The plate shall be provided with a matching modular frame/support, suitable screw-fixing arrangement and all necessary fixing accessories. It shall be fully compatible with the 6-module metal flush box and the specified modular switches and socket outlets, ensuring proper alignment, secure fixing and a neat finish. Colour and finish shall be subject to approval of the Engineer-in-Charge, complete in all respects as per the technical specifications and site requirements. Make: ANCHOR ROMA URBAN	88	Nos		C5 = A5*B5
6	Supply and installation of 3-module modular front plate, manufactured from high-quality, flame-retardant, impact-resistant engineering-grade thermoplastic, UV-stabilised and resistant to fading, with a smooth, durable finish. The plate shall be provided with a matching modular frame/support, suitable screw-fixing arrangement and all necessary fixing accessories. It shall be fully compatible with the 3-module metal flush box and the specified modular switches and socket outlets, ensuring proper alignment, secure fixing and a neat finish. Colour and finish shall be subject to approval of the Engineer-in-Charge, complete in all respects as per the technical specifications and site requirements. Make: ANCHOR ROMA URBAN	94	Nos		C6 = A6*B6

7	Supply, installation, testing and commissioning of industrial-grade 20A, 230V AC, single-phase, 50Hz, 3-pin (Phase, Neutral and Earth) metal-clad socket outlet assembly, complete with heavy-duty fabricated sheet-steel enclosure, socket outlet, corrosion-resistant contacts, terminals, cable-entry glands, terminal blocks, earthing terminal, mounting hardware and all necessary accessories. The enclosure shall have a minimum protection rating of IP44 for indoor installations and IP55 for exposed or industrial-duty locations. Socket contacts shall be adequately rated, shuttered or suitably protected against accidental contact, ensuring reliable electrical connections and effective earth continuity. Wherever industrial plug-and-socket configurations are adopted, the assembly shall comply with the applicable requirements of IS/IEC 60309 for the specified rating and configuration. The complete assembly shall be suitable for continuous industrial operation. The contractor shall verify the connected equipment load, existing plug configuration and site requirements prior to supply and installation. The work shall include all necessary wiring, fixing, connections, testing and commissioning, complete in all respects as directed by the Engineer-in-Charge. Make: ANCHOR ROMA URBAN	27	Nos		C7 = A7*B7
8	Supply, installation, testing and commissioning of complete 1200 mm nominal length LED batten/tube light fitting, with maximum power consumption of 40 W, suitable for operation on 220–240 V AC, 50 Hz supply. The luminaire shall have power factor (PF) ≥ 0.90, colour rendering index (CRI) ≥ 80, correlated colour temperature (CCT) of 4000–6500 K, minimum system luminous efficacy of 100 lm/W and rated operational life of at least 30,000 hours (L70). The fitting shall be provided with a high-efficiency internal LED driver incorporating overload, short-circuit and surge protection, effective thermal management and flicker-free operation. The complete assembly shall include a diffuser, end caps, internal driver, mounting clips and all necessary accessories for installation. The luminaire shall conform to the applicable and latest BIS standards, including IS 10322 / IS 16102, wherever applicable. The LED luminaire shall carry a minimum two (02) years comprehensive warranty from the date of successful installation and commissioning, covering all manufacturing defects and failures of LED modules, drivers and associated components. Any defective components shall be repaired or replaced by the contractor/supplier free of cost during the warranty period. The scope shall include mounting, electrical connections, testing and commissioning, complete in all respects as directed by the Engineer-in-Charge. Make: PHILIPS	166	Nos		C8 = A8*B8
9	Supply, installation, testing and commissioning of 1400 mm (48 inches) sweep conventional ceiling fan, suitable for continuous operation in office/workshop premises, complete with single-phase AC induction motor, capacitor-operated design, 230 V AC, single-phase, 50 Hz supply. The motor shall be provided with 100% copper winding and double ball bearings for smooth, low-noise operation, reduced friction and longer service life. The fan shall deliver a minimum air delivery of 210 m^3/min or higher and shall be suitable for manual ON/OFF and speed control through conventional wall-mounted switches and fan speed regulators. The motor shall incorporate suitable thermal protection against overheating. The fan shall have dust-resistant construction with suitably protected motor and electrical components to minimize dust ingress. The fan shall be supplied complete with down rod, canopy, shackle, mounting brackets, fasteners and all necessary accessories required for installation and commissioning. The fan shall conform to IS 374 (latest applicable edition) and applicable BEE energy-efficiency requirements. BEE star rating shall be as applicable on the date of supply. Colour and finish shall be as approved by the Engineer-in-Charge. Minimum 2 years comprehensive warranty	17	Nos		C9 = A9*B9
10	Supply, installation, testing and commissioning of 400 mm (16 inches) sweep conventional wall-mounted oscillating fan, suitable for continuous operation in office premises and general indoor applications. The fan shall be equipped with a single-phase AC induction motor with 100% copper winding and double ball bearings to ensure reliable performance, smooth	28	Nos		C10 = A10*B10

	operation and extended service life. The fan shall operate on 230 V AC, single-phase, 50 Hz supply, with minimum five-speed control through a manual speed regulator or integrated speed selector. It shall have automatic horizontal oscillation with provision for locking the oscillation mechanism to enable stationary operation. The fan shall provide minimum air delivery of 60 m³/min, with power consumption approximately 50–65 W or as per the manufacturer's standard model. The fan shall be provided with aerodynamically designed, corrosion-resistant blades (engineering grade polymer), a robust protective metal safety guard, heavy-duty wall-mounting bracket and necessary fasteners. The motor and electrical components shall have suitable dust-resistant construction, thermal protection and properly insulated electrical connections with an appropriate earthing arrangement. The fan shall ensure smooth, vibration-free and low-noise operation. The complete assembly shall be supplied with all accessories required for installation and commissioning. The fan shall conform to applicable IS standards, wherever applicable, and shall be supplied with a minimum comprehensive manufacturer's warranty of two (02) years.				
11	Supply, installation, testing and commissioning of modular step-type fan regulator (switch - size), suitable for conventional single-phase AC induction motor ceiling fans, rated for operation on 230 V AC, single-phase, 50 Hz electrical supply. The regulator shall provide smooth and reliable stepped speed control through multiple speed settings, with minimum five-step speed regulation or as per the manufacturer's standard design. The regulator shall be compatible with conventional capacitor-operated induction motor ceiling fans and suitable for the connected fan load. It shall be of modular design, compatible with the specified modular switch plate and mounting box, with flame-retardant, heat-resistant insulating housing and robust construction. The regulator shall incorporate secure screw-type terminals for reliable electrical connections and shall be designed to minimize humming noise, overheating and power losses during operation. The regulator shall be suitable for continuous operation under normal indoor environmental conditions and shall be supplied complete with all necessary mounting accessories, terminal connections and hardware required for installation and commissioning. The product shall conform to relevant applicable IS/IEC standards. make: ANCHOR ROMA URBAN	45	Nos		C11 = A11*B11
12	Supply, installation, testing and commissioning of 225 mm (9 inches) nominal sweep conventional wall-mounted exhaust fan, suitable for ventilation and air extraction in office premises, workshops and general indoor applications. The fan shall be equipped with a robust single-phase AC induction motor with 100% copper winding and double ball bearings, designed for continuous operation. The fan shall operate on 230 V AC, single-phase, 50 Hz electrical supply and shall provide a minimum air delivery of 500 m³/hour, supported by the manufacturer's published technical datasheet. The motor shall incorporate suitable thermal overload protection against overheating. The fan blades shall be aerodynamically designed and manufactured from corrosion-resistant material, suitable for efficient air extraction with minimum noise and vibration. The assembly shall be provided with a protective metal safety guard, corrosion-resistant outer body, automatic gravity-type shutters wherever applicable, sturdy wall-mounting frame, necessary fasteners and all standard accessories required for proper installation and commissioning. Electrical connections shall be properly insulated, with suitable earthing arrangements. The exhaust fan shall conform to relevant applicable BIS safety and performance standards and shall be suitable for continuous operation under normal indoor environmental conditions. Minimum comprehensive manufacturer's warranty shall be two (02) years. Make: Polycab	14	Nos		C12 = A12*B12

13	Supply, installation, testing and commissioning, laying through PVC conduits (SITC) of 1.5 mm² single-core flexible/stranded annealed copper conductor, PVC insulated, 1100 V grade, suitable for internal electrical wiring installations in office premises, workshops and industrial buildings. The conductor shall be manufactured from high-conductivity electrolytic-grade annealed copper, conforming to IS 8130 (latest applicable edition), with PVC insulation conforming to IS 694 (latest applicable edition). The wire shall be FRLS (Flame Retardant Low Smoke) grade, unless otherwise specified by AIESL, with adequate insulation thickness, dielectric strength and current-carrying capacity as per applicable standards. The conductor shall have uniform cross-section, proper flexibility and smooth insulation finish, free from cuts, cracks, pinholes and other manufacturing defects. Each coil shall contain 180 metres net length, without joints or splices, and shall be supplied in manufacturer-sealed packaging. The wire shall be available in red, yellow, blue, black and green colours, as applicable. Green colour shall be exclusively reserved for protective earth conductors. The scope shall include supply, laying, dressing, routing through existing or specified conduits/trunking, termination at designated points using suitable connectors/lugs, ferruling, identification, testing for continuity and insulation resistance, and commissioning, complete in all respects as directed by the Engineer-in-Charge. Make: POLYCAB	40	Bundle		C13 = A13*B13
14	Supply, installation, testing and commissioning laying through PVC conduits (SITC) of 2.5 mm² single-core flexible/stranded annealed copper conductor, PVC insulated, 1100 V grade, suitable for internal electrical wiring installations in office premises, workshops and industrial buildings. The conductor shall be manufactured from high-conductivity electrolytic-grade annealed copper, conforming to IS 8130 (latest applicable edition), with PVC insulation conforming to IS 694 (latest applicable edition). The wire shall be FRLS (Flame Retardant Low Smoke) grade, with adequate insulation thickness and dielectric strength as per applicable standards. The conductor shall have uniform cross-section, proper flexibility and smooth insulation finish, free from cuts, cracks, pinholes and other manufacturing defects. Each coil shall contain 180 metres net length, without joints or splices, and shall be supplied in manufacturer-sealed packaging. The wire shall be available in suitable colours for phase and neutral identification in accordance with IS 732 and the approved wiring schedule. Green colour shall be exclusively reserved for protective earth (PE) conductors. The scope shall include supply, laying, routing through existing or specified conduits/trunking, dressing, termination at designated points using suitable connectors/lugs, ferruling, identification, continuity testing, insulation	40	Bundle		C14 = A14*B14

	resistance testing and commissioning, complete in all respects as directed by the Engineer-in-Charge. Make: POLYCAB				
15	Supply, installation, testing and commissioning, laying through PVC conduits (SITC) of 4.0 mm^2 single-core flexible/stranded annealed copper conductor, PVC insulated, 1100 V grade, suitable for internal electrical wiring installations in office premises, workshops and industrial buildings. The conductor shall be manufactured from high-conductivity electrolytic-grade annealed copper, conforming to IS 8130 (latest applicable edition), with PVC insulation conforming to IS 694 (latest applicable edition). The wire shall be FRLS (Flame Retardant Low Smoke) grade, with adequate insulation thickness, dielectric strength and current-carrying capacity as per applicable standards. The conductor shall have uniform cross-section, proper flexibility and smooth insulation finish, free from cuts, cracks, pinholes and other manufacturing defects. Each coil shall contain 180 metres net length, without joints or splices, and shall be supplied in manufacturer-sealed packaging. The wire shall be available in suitable colours for phase and neutral identification in accordance with IS 732 and the approved wiring schedule. Green colour shall be exclusively reserved for protective earth (PE) conductors. The scope shall include supply, laying, routing through existing or specified conduits/trunking, dressing, termination at designated points using suitable connectors/lugs, ferruling, identification, continuity testing, insulation resistance testing and commissioning, complete in all respects as directed by the Engineer-in-Charge.	25	Bundle		C15 = A15*B15
16	Supply, installation, testing and commissioning (SITC) of 10 A, 240/250 V AC, one-way modular switch, suitable for operation in indoor electrical installations in office premises, workshops and industrial buildings. The switch shall be of robust construction, incorporating a quick-make/quick-break switching mechanism with high-quality silver-alloy contacts to ensure reliable electrical connectivity, reduced contact resistance and long operational life. The switch shall be provided with a flame-retardant, heat-resistant insulating body, suitable screw/clamp-type terminals for secure wire termination and adequate contact pressure to prevent loose connections and overheating. The switch shall be designed for a minimum of 10,000 mechanical/electrical operations or higher as declared by the manufacturer. The switch shall be of standard modular design, compatible with the specified modular switch plate, mounting frame and concealed switch box. The scope shall include supply, installation, fixing, electrical connections, testing and commissioning, complete with all necessary mounting accessories and hardware. The switch shall conform to IS 3854 (latest applicable edition) and relevant applicable safety requirements. Make: ANCHOR ROMA URBAN	456	Nos		C16 = A16*B16

17	Supply, installation, testing and commissioning (SITC) of 10 A, 230/250 V AC, 5-pin shuttered modular socket outlet, suitable for indoor electrical installations in office premises, workshops and industrial buildings. The socket shall be provided with phase, neutral and earth contacts, incorporating child-safe internal safety shutters to prevent accidental insertion of foreign objects. The socket shall be manufactured from high-quality, flame-retardant, heat-resistant insulating material, with robust, corrosion-resistant conductive contacts and secure screw/clamp-type terminals to ensure reliable electrical connections and prevent loosening or overheating during operation. The socket shall be of standard modular design, compatible with the matching modular switch plate, mounting frame and concealed switch box. The plug pin configuration shall be compatible with the socket outlet, ensuring proper phase, neutral and earth connections. The socket shall conform to IS 1293 (latest applicable edition) and relevant electrical safety requirements. The scope shall include supply, installation, fixing, electrical termination, testing and commissioning, complete with all necessary mounting accessories and hardware. Make: ANCHOR ROMA URBAN	172	Nos		C17 = A17*B17
18	Supply, installation, testing and commissioning (SITC) of 20 A, 240/250 V AC, heavy-duty modular one-way switch, suitable for controlling electrical loads in office premises, workshops and industrial installations. The switch shall be of robust construction, incorporating a quick-make/quick-break switching mechanism with high-quality silver-alloy contacts to ensure reliable electrical connectivity, low contact resistance and extended operational life. The switch shall be suitable for resistive and inductive loads within the manufacturer's declared switching capacity and duty rating. It shall be provided with a flame-retardant, heat-resistant insulating body and heavy-duty screw-type terminals capable of accommodating the specified conductor size, ensuring secure electrical connections and preventing loose contacts and overheating. The switch shall be of standard modular design, compatible with the specified modular switch plate, mounting frame and concealed switch box. The product shall conform to IS 3854 (latest applicable edition), wherever applicable, and relevant product safety standards. The scope shall include supply, installation, fixing, electrical termination, testing and commissioning, complete with all necessary mounting accessories and hardware as directed by enigeer incharge. Make: ANCHOR ROMA URBAN	93	Nos		C18 = A18*B18

19	Supply, installation, testing and commissioning (SITC) of 20 A, 230/250 V AC, 5-pin heavy-duty modular shuttered socket outlet, suitable for electrical installations in office premises, workshops and industrial buildings. The socket shall be provided with dedicated phase, neutral and earth contacts, designed to accommodate the matching 20 A plug configuration, ensuring firm contact pressure, reliable electrical connectivity and safe operation under the rated load. The socket shall be manufactured from high-quality, flame-retardant and heat-resistant insulating material, with robust, corrosion-resistant conductive contacts and heavy-duty screw-type terminals suitable for secure termination of the specified copper conductor size. The socket shall incorporate internal safety shutters to prevent accidental insertion of foreign objects into live contact openings. The socket shall be of robust modular construction, compatible with the matching 20 A modular plate, mounting frame and suitable concealed switch box. The plug and socket configuration shall be specifically designed for 20 A applications and shall not be interchangeable with 6/10 A plug configurations unless expressly designed and certified for such compatibility. The product shall conform to IS 1293, wherever applicable within its scope, or the relevant current BIS product standard, including applicable electrical safety requirements. The scope shall include supply, installation, fixing, electrical termination, testing and commissioning, complete with all necessary mounting accessories and hardware as directed by Engineerin Incharge. Make: ANCHOR ROMA URBAN.	93	Nos		C19 = A19*B19
20	Supply, installation, testing and commissioning (SITC) of 10 A, single-pole (SP) miniature circuit breaker (MCB), rated for 230/240 V AC, 50 Hz electrical supply, suitable for protection of final electrical circuits against overload and short-circuit faults in distribution boards installed at office premises, workshops and industrial buildings. The MCB shall incorporate a reliable thermal-magnetic tripping mechanism, with B-curve or C-curve characteristics as per the final circuit/load study, with C-curve as the default requirement unless otherwise approved by the Engineer-in-Charge. The MCB shall have a minimum rated short-circuit breaking capacity of 6 kA at 230 V AC and shall provide reliable and rapid disconnection under fault conditions. The MCB shall be of robust, compact construction, suitable for standard 35 mm DIN-rail mounting, with adequately rated terminals for secure conductor termination. It shall be compatible with the existing/proposed distribution board (DB) busbar arrangement and shall ensure proper electrical contact, safe operation and ease of maintenance. The MCB shall conform to IS/IEC 60898-1 (latest applicable edition) and relevant BIS certification requirements. The rated current, tripping characteristic and breaking capacity shall be clearly marked on the device body. The scope shall include supply, installation, fixing, connection, testing and commissioning, complete with necessary accessories, Labour and hardware as directed by engineer incharge. Make: LEGRAND / L&T / SCHNEIDER	62	Nos		C20 = A20*B20

21	Supply, installation, testing and commissioning (SITC) of 16 A, single-pole (SP) miniature circuit breaker (MCB), rated for 230/240 V AC, 50 Hz supply, suitable for protection of final electrical circuits feeding inductive loads, including conventional ceiling fans, wall-mounted fans, exhaust fans and other motor-operated equipment. The MCB shall incorporate a reliable thermal-magnetic tripping mechanism with suitable tripping characteristics to withstand normal motor starting and inrush currents without unwanted tripping, while providing effective protection against overload and short-circuit faults. The tripping curve (C &D, as applicable) and rated short-circuit breaking capacity shall be selected strictly in accordance with the approved electrical circuit schedule and connected load characteristics. The MCB shall be suitable for 35 mm DIN-rail mounting, compatible with the specified distribution board (DB) busbar arrangement and provided with robust screw/clamp-type terminals for secure conductor termination. The MCB shall conform to IS/IEC 60898-1 (latest applicable edition), with rated current, tripping characteristic and breaking capacity clearly marked on the device as directed by engineer incharge. Make: LEGRAND / L&T / SCHNEIDER	93	Nos		C21 = A21*B21
22	Supply, installation, testing and commissioning (SITC) of 16 A, single-pole (SP) miniature circuit breaker (MCB), rated for 230/240 V AC, 50 Hz supply, suitable for protection of final electrical circuits feeding inductive loads, including conventional ceiling fans, wall-mounted fans, exhaust fans and other motor-operated equipment. The MCB shall incorporate a reliable thermal-magnetic tripping mechanism with suitable tripping characteristics to withstand normal motor starting and inrush currents without unwanted tripping, while providing effective protection against overload and short-circuit faults. The tripping curve (C &D, as applicable) and rated short-circuit breaking capacity shall be selected strictly in accordance with the approved electrical circuit schedule and connected load characteristics. The MCB shall be suitable for 35 mm DIN-rail mounting, compatible with the specified distribution board (DB) busbar arrangement and provided with robust screw/clamp-type terminals for secure conductor termination. The MCB shall conform to IS/IEC 60898-1 (latest applicable edition), with rated current, tripping characteristic and breaking capacity clearly marked on the device as directed by engineer incharge. Make: LEGRAND / L&T / SCHNEIDER	40	Nos		C22 = A22*B22
23	Supply, installation, testing and commissioning (SITC) of 40 A rated Residual Current Circuit Breaker (RCCB), suitable for protection against earth leakage currents and electric shock in electrical distribution systems installed in office premises, workshops and industrial facilities. The RCCB shall have a rated current of 40 A and a rated residual operating current (IΔn) of 30 mA, with instantaneous tripping characteristics at the specified residual current. The device shall be available in 2-pole (2P) configuration for single-phase circuits, strictly as per the approved electrical circuit schedule. The RCCB shall be rated for 230/415 V AC, 50 Hz, as applicable, and shall preferably be Type A, suitable for detecting sinusoidal AC and pulsating DC residual currents, particularly for circuits supplying electronic equipment, SMPS-based loads and other equipment capable of generating pulsating DC residual currents. Type AC RCCB shall be accepted only where the connected load characteristics permit and with prior approval of the Engineer-in-Charge. The RCCB shall incorporate a built-in test button, robust operating mechanism, flame-retardant insulating housing and secure screw/clamp-type terminals. It shall be suitable for standard 35 mm DIN-rail mounting and compatible with the specified distribution board (DB) arrangement. The RCCB shall have a minimum conditional short-circuit current rating of 10 kA when coordinated with the specified upstream MCB/MCCB, subject to the manufacturer's declared coordination and backup protection tables.	33	Nos		C23 = A23*B23

	The RCCB shall conform to IS 12640 (Part 1) / applicable IEC 61008-1, latest applicable edition. The RCCB shall be properly coordinated with the upstream short-circuit protective device to ensure safe operation under fault conditions. The scope shall include supply, installation, connection, testing and commissioning, complete with necessary accessories and hardware. Make: LEGRAND / L&T / SCHNEIDER				
24	**12-Way SPN Distribution Board with Protective Devices** Supply, Installation, Testing and Commissioning (SITC) of 230 V, single-phase, 2-wire (Phase + Neutral), 12-outgoing-way SPN (Single Pole and Neutral) distribution board, suitable for indoor electrical distribution in office premises, workshops and industrial buildings. The distribution board shall be manufactured from heavy-gauge sheet steel with robust construction and corrosion-resistant powder-coated finish. The enclosure shall be provided with a removable gland/knockout plate, hinged door/cover, suitable locking arrangement and adequate internal space for installation, operation and maintenance of protective devices. The DB shall be provided with a suitably rated insulated phase busbar, neutral link and independent earth bar, having adequate current-carrying capacity. All live parts and busbar connections shall be adequately shrouded to prevent accidental contact. The enclosure shall accommodate standard DIN-rail-mounted SP MCBs and the specified incomer protection arrangement. The scope shall specifically include the supply, installation and integration of the following protective devices, as indicated in the approved BOQ/circuit schedule: 1. SP MCBs: Installation of suitably rated Single Pole Miniature Circuit Breakers (MCBs) for individual outgoing circuits, with appropriate breaking capacity and current ratings (MCB's - 10A, 16A, 20A). 2. DP Isolator: Installation of a suitably rated Double Pole (DP) Isolator at the incomer, wherever specified, for simultaneous isolation of Phase and Neutral. 3. DP RCCB: Installation of a suitably rated Double Pole Residual Current Circuit Breaker (RCCB) at the incomer, with specified rated current and residual operating current (sensitivity), for protection against earth leakage. 4. All necessary interconnections, busbar links, neutral and earth terminations, internal wiring, mounting accessories and hardware required for proper integration and functioning of the above protective devices. The distribution board shall have clearly identified outgoing circuit numbers, circuit identification labels, phase and neutral markings, wiring termination facilities and suitable cable entry arrangements. All internal connections shall be properly insulated, securely terminated and arranged for convenient maintenance. The complete scope shall include supply, installation, mounting, internal assembly, installation of specified MCBs/DP Isolators/DP RCCBs, electrical connections, earthing, testing and commissioning, complete with all necessary accessories and hardware. Make: LEGRAND	8	Nos		C24 = A24*B24

25	Supply, installation, testing and commissioning (SITC) of 63 A, four-pole (3P+N) switch disconnector/isolator, suitable for 415 V AC, three-phase, 4-wire electrical distribution systems operating at 50 Hz, for safe isolation of electrical circuits and equipment in office premises, workshops and industrial installations. The isolator shall be of heavy-duty construction, suitable for reliable electrical isolation and switching operations under the specified load conditions. It shall have a minimum AC-23A utilization category, particularly where switching of motor-operated and inductive loads is involved. The device shall incorporate a robust operating mechanism with positive ON/OFF contact position indication, ensuring clear identification of the switching status. The isolator shall be provided with a facility for padlocking in the OFF position to prevent unauthorized operation during maintenance and servicing activities. All four poles, including neutral, shall operate through a common operating mechanism, with suitable neutral switching arrangement as per the manufacturer's design and applicable standards. The equipment shall be suitable for panel mounting or installation within a suitable enclosure, as required by site conditions. The enclosure, where applicable, shall be of robust construction with adequate protection against accidental contact with live parts. The switch disconnector/isolator shall conform to IS/IEC 60947-3 (latest applicable edition). The manufacturer shall submit relevant short-circuit withstand, conditional short-circuit rating and coordination data for verification against the upstream protective device. The scope shall include supply, installation, mounting, electrical termination, testing and commissioning, complete with necessary accessories and hardware. Make: LEGRAND / L&T / SCHNEIDER	11	Nos		C25 = A25*B25
26	Supply, installation, testing and commissioning (SITC) of 32 A, two-pole (2P) switch disconnector/isolator, suitable for 230/240 V AC, single-phase, 50 Hz electrical supply, for safe isolation and switching of electrical circuits in office premises, workshops and industrial installations. The switch disconnector shall be of robust construction, designed for reliable electrical isolation and switching operations under the specified connected load conditions. It shall incorporate a suitable switching mechanism with positive contact indication, clearly identifying the ON and OFF positions, and shall provide effective isolation of both phase and neutral conductors. The device shall be provided with a padlocking facility in the OFF position to prevent unauthorized operation during maintenance and servicing. The switch shall have a suitable utilization category corresponding to the connected load characteristics, including resistive or inductive loads, as applicable. The isolator shall be suitable for DIN-rail or panel mounting, as required, and shall be compatible with the specified distribution board (DB) or enclosure arrangement. All live parts and terminals shall be adequately protected against accidental contact. The equipment shall conform to IS/IEC 60947-3 (latest applicable edition) and relevant electrical safety requirements. The scope shall include supply, installation, fixing, electrical termination, testing and commissioning, complete with all necessary accessories and hardware. Make: LEGRAND / L&T / SCHNEIDER	14	Nos		C26 = A26*B26

27	Supply, installation, testing and commissioning (SITC) of 1.5 TR (approximately 5.0–5.3 kW) capacity, inverter-type split air-conditioning unit, suitable for continuous operation in office premises, cabins and other indoor applications. The AC unit shall operate on 230 V AC, single-phase, 50 Hz electrical supply, subject to the manufacturer's specified electrical requirements. The air-conditioning unit shall be equipped with a high-efficiency inverter-driven rotary compressor, designed for energy-efficient operation, stable temperature control and reduced power consumption. The equipment shall have a minimum 5-Star BEE energy rating, as per the applicable BEE labelling schedule prevailing on the date of supply, subject to availability for the specified capacity. The refrigerant shall be R32 or another approved low-global-warming-potential (GWP) refrigerant. The AC unit shall be suitable for high-ambient operating conditions prevailing in Hyderabad, with guaranteed cooling performance at an outdoor ambient temperature of 46°C or higher. The indoor unit shall be wall-mounted and provided with washable/reusable air filters, wireless remote control, temperature/operational display and adjustable air-distribution louvers. The outdoor unit shall be provided with a 100% copper condenser coil (heat exchanger), manufactured using copper tubes, with suitable anti-corrosion protection for reliable operation under high-ambient and outdoor environmental conditions. Aluminium condenser coils, copper-coated aluminium coils and copper-aluminium composite coils shall not be accepted. The outdoor unit shall have weather-resistant, corrosion-protected construction. The installation shall include a minimum of **6 metres of copper refrigerant piping**, complete with suitable thermal insulation, insulated condensate drain piping, interconnecting power and control cables, heavy-duty powder-coated outdoor unit mounting brackets, anti-vibration pads, necessary fasteners, and all other standard accessories required for proper installation and commissioning. **The bidder shall quote the price considering a minimum copper refrigerant piping length of 6 metres per unit.** The electrical installation shall include a dedicated MCB-protected power supply circuit, properly rated wiring, suitable electrical connections and effective earthing arrangement. The contractor shall carry out refrigerant piping installation, pressure testing wherever prescribed, nitrogen purging during brazing wherever applicable, evacuation and deep vacuuming using a suitable vacuum pump, refrigerant leak testing, condensate drainage verification, trial operation and commissioning in accordance with the manufacturer's installation guidelines.. Make: VOLTAS/BLUESTAR	18	Nos		C27 = A27*B27

28	**7 Segment, 8-Way Metal-Enclosed Distribution Board (TPN) with MCBs, RCCBs and Isolators** Supply, Installation, Testing and Commissioning (SITC) of 7-segment, 8-outgoing-way, metal-enclosed electrical distribution board (DB), suitable for 240/415 V AC, 50 Hz electrical distribution systems, for installation in office premises, workshops and industrial facilities. The distribution board shall be of robust construction, manufactured from CRCA (Cold Rolled Close Annealed) sheet steel, finished with corrosion-resistant powder coating and suitable for indoor installation with a minimum degree of protection of IP42. The distribution board shall be provided with high-conductivity electrolytic-grade copper busbars, rated for a minimum current-carrying capacity of 63 A or higher, as established by the approved connected-load calculation. The DB configuration shall be TPN (Three Phase and Neutral), with suitable provision for SP, DP and TP outgoing circuits, strictly as per the approved electrical circuit schedule. Overall dimensions shall be approximately Height: 670 mm, Width: 792 mm and Depth: 127 mm, or as per the approved manufacturer design. The DB shall be supplied complete with the following protective and switching devices, as specified in the approved BOQ and electrical circuit schedule: 1. MCBs (Miniature Circuit Breakers): Supply and installation of suitably rated SP/DP/TP MCBs for individual outgoing circuits, with appropriate current ratings, tripping characteristics and minimum short-circuit breaking capacity of 10 kA or higher, as established by the fault-level assessment. 2. RCCBs (Residual Current Circuit Breakers): Supply and installation of suitably rated DP/FP RCCBs, as applicable to the circuit configuration, with appropriate rated current and residual operating current (sensitivity), such as 30 mA or 100 mA, as specified in the approved electrical design, for protection against earth leakage. 3. DP Isolators (Double Pole): Supply and installation of suitably rated 2-pole isolators for single-phase incomer/sub-circuit isolation, wherever specified. 4. FP Isolators (Four Pole): Supply and installation of suitably rated 4-pole isolators for three-phase incomer isolation, ensuring simultaneous isolation of all three phases and neutral, wherever specified. All protective devices shall be of reputed make, compatible with the distribution board and suitable for DIN-rail mounting. The ratings, quantities and configurations shall be strictly in accordance with the approved electrical load schedule and circuit diagram. The DB shall incorporate adequately rated insulated neutral links/bars, a separate copper earth bar, properly insulated internal connections and shrouded live parts to prevent accidental contact. Internal wiring shall be carried out using FRLS-insulated copper conductors of suitable cross-section, properly routed, dressed and terminated with identification ferrules. The enclosure shall be provided with a hinged, lockable front door, suitable cable entry arrangements, circuit identification labels, circuit directory and schematic wiring diagram. Adequate internal space shall be provided for safe operation, maintenance and future circuit identification. The distribution board shall conform to the applicable IS/IEC 61439 series, including relevant design verification and routine verification requirements. The complete scope shall include supply of the DB enclosure, copper busbars, MCBs, RCCBs, DP/FP isolators, internal wiring, mounting accessories, installation, mounting, electrical connections, earthing, testing and commissioning, along with all necessary accessories and hardware required for a complete and functional installation. Make: LEGRAND / WINTRIP	4	Nos		C28 = A28*B28

29	**Supply, Installation, Testing and Commissioning (SITC) of 8 SWG Hot-Dip Galvanised Iron (GI) Wire** Item Description: Supply, installation, testing and commissioning (SITC) of hot-dip galvanised mild-steel (MS) wire, 8 SWG (Standard Wire Gauge), nominal diameter approximately 4.0 mm, suitable for the intended electrical/industrial application. The wire shall be manufactured from good-quality mild steel and hot-dip galvanised to provide uniform zinc coating, corrosion resistance and extended service life under the specified environmental conditions. The wire shall be supplied in properly wound coils, free from rust, cracks, sharp edges, surface irregularities, mechanical damage and other manufacturing defects. The galvanised zinc coating shall be uniform, firmly adherent and free from bare patches, excessive lumps, flaking or peeling. The tensile strength, elongation and other mechanical properties shall conform to the applicable material/product standard. The manufacturer shall furnish a test certificate indicating wire diameter, material grade, mechanical properties and zinc coating details. Where the wire is intended for earthing or electrical bonding applications, its suitability shall be specifically assessed and approved in accordance with IS 3043 (latest applicable edition). The nominal diameter alone shall not be considered sufficient evidence of its suitability as a protective earthing conductor. Make: ISI reputed make	50	Kgs		C29 = A29*B29
30	**SITC of 100 W Industrial LED High-Bay Luminaire (Dome Type)** Supply, installation, testing and commissioning (SITC) of 100 W industrial-grade LED high-bay luminaire, dome type, suitable for high-ceiling industrial workshops, aircraft maintenance hangars, warehouses and other industrial applications. The luminaire shall operate on 230 V AC, single-phase, 50 Hz supply and shall deliver a minimum total luminous flux of 12,000 lumens, with a minimum system luminous efficacy of 120 lm/W. The LED luminaire shall be provided with high-efficiency LED chips and a constant-current electronic LED driver, designed for reliable, continuous-duty operation and energy-efficient illumination. The correlated colour temperature (CCT) shall be 4000 K or 5000 K, with a minimum colour rendering index (CRI Ra) of 80 and power factor of 0.95 or higher. Total harmonic distortion (THD) shall not exceed 10%, wherever supported by the manufacturer's product specifications. The luminaire housing shall be manufactured from heavy-duty die-cast aluminium with an efficient heat-dissipation arrangement to ensure reliable thermal management and extended LED service life. The diffuser shall be made of impact-resistant polycarbonate or equivalent material suitable for industrial environments. The luminaire shall have a minimum ingress protection rating of IP65 against dust and water ingress and shall be of Class I electrical protection, complete with suitable protective earthing provision. The LED driver shall incorporate overvoltage and short-circuit protection, along with a minimum 4 kV surge protection rating, preferably 6 kV or higher. The fixture shall be provided with a suitable hook/chain/pendant mounting arrangement, including all necessary suspension accessories, fasteners and electrical connection provisions. The luminaire shall have a rated service life of minimum L70 at 50,000 operating hours and shall be covered by a minimum manufacturer's warranty of five (05) years. The luminaire shall conform to applicable BIS/IEC safety and performance standards. The bidder shall submit photometric test reports and IES/LDT files to establish the light distribution characteristics and suitability for the intended hangar/workshop illumination requirements. Make: CROMPTON / HAVELLS / PHILIPS	30	Nos		C30 = A30*B30

31	Supply, installation, testing and commissioning (SITC) of complete three-phase industrial socket arrangement comprising a suitably rated 3-pole, 32 A miniature circuit breaker (MCB), 415 V AC, 50 Hz, and matching heavy-duty industrial socket outlet, suitable for supplying three-phase electrical equipment in aviation maintenance workshops, hangars and industrial premises. 279 mm x 127 mm x 76 mm The socket outlet shall be of 3-pin configuration (3P), rated 32 A, 415 V AC, conforming to IS/IEC 60309 (latest applicable edition). The socket shall be manufactured from heavy-duty, impact-resistant insulating material with robust phase, neutral and earth contacts, ensuring secure plug engagement and reliable electrical connectivity. .The industrial socket outlet shall be provided with a heavy-duty, impact-resistant, dustproof and weather-resistant protective safety cap/cover, preferably hinged type, with a secure closing arrangement. The complete assembly shall be housed in a robust metal-clad enclosure with corrosion-resistant protective finish and minimum ingress protection rating of IP44 for indoor installations and IP55 for exposed outdoor locations. The enclosure shall be provided with a suitable mounting arrangement, cable entry provisions, secure cover and necessary accessories. The incoming supply shall be protected through a 3-pole, 32 A MCB with thermal-magnetic tripping mechanism. The MCB shall have a minimum rated short-circuit breaking capacity of 10 kA or higher, as established by the prospective fault-current assessment. The tripping characteristic shall normally be C-curve, subject to verification of connected equipment starting-current requirements and cable protection coordination. The assembly shall incorporate a dedicated protective earthing connection, adequately rated internal copper wiring, robust terminals, phase identification and electrical hazard/warning labels. Mechanical or electrical interlocking shall be provided wherever required by the selected socket arrangement to prevent unsafe insertion. The complete assembly shall conform to applicable electrical safety standards and shall be suitable for reliable operation under industrial working conditions. The scope shall include supply, installation, mounting, electrical connections, protective earthing, testing and commissioning, complete with all necessary accessories and hardware. Make: LEGRAND / L&T / SCHNEIDER	5	Nos		C31 = A31*B31
32	Supply, installation, testing and commissioning (SITC) of complete three-phase industrial socket arrangement comprising a suitably rated 3-pole, 40 A miniature circuit breaker (MCB), 415 V AC, 50 Hz, and matching heavy-duty industrial socket outlet, suitable for supplying three-phase electrical equipment in aviation maintenance workshops, hangars and industrial premises. 279 mm x 127 mm x 76 mm The socket outlet shall be of 3-pin configuration (3P), rated 40 A, 415 V AC, conforming to IS/IEC 60309 (latest applicable edition). The socket shall be manufactured from heavy-duty, impact-resistant insulating material with robust phase, neutral and earth contacts, ensuring secure plug engagement and reliable electrical connectivity.The industrial socket outlet shall be provided with a heavy-duty, impact-resistant, dustproof and weather-resistant protective safety cap/cover, preferably hinged type, with a secure closing arrangement. The complete assembly shall be housed in a robust metal-clad enclosure with corrosion-resistant protective finish and minimum ingress protection rating of IP44 for indoor installations and IP55 for exposed outdoor locations. The enclosure shall be provided with a suitable mounting arrangement, cable entry provisions, secure cover and necessary accessories. The incoming supply shall be protected through a 3-pole, 40 A MCB with thermal-magnetic tripping mechanism. The MCB shall have a minimum rated short-circuit breaking capacity of 10 kA or higher, as established by the prospective fault-current assessment. The tripping characteristic shall normally be C-curve, subject to verification of connected equipment starting-current requirements and cable protection coordination. The assembly shall incorporate a dedicated protective earthing connection, adequately rated internal copper wiring, robust terminals, phase identification and electrical hazard/warning labels. Mechanical or electrical interlocking shall be provided wherever required by the selected socket arrangement to prevent unsafe insertion. The complete assembly shall conform to applicable electrical safety	5	Nos		C32 = A32*B32

	standards and shall be suitable for reliable operation under industrial working conditions. The scope shall include supply, installation, mounting, electrical connections, protective earthing, testing and commissioning, complete with all necessary accessories and hardware. Make: LEGRAND / L&T / SCHNEIDER				
33	Supply, installation, testing and commissioning (SITC) of complete three-phase industrial socket arrangement comprising a suitably rated 3-pole, 63 A miniature circuit breaker (MCB), 415 V AC, 50 Hz, and matching heavy-duty industrial socket outlet, suitable for supplying three-phase electrical equipment in aviation maintenance workshops, hangars and industrial premises. 279 mm x 127 mm x 76 mm The socket outlet shall be of 3-pin configuration (3P), rated 63 A, 415 V AC, conforming to IS/IEC 60309 (latest applicable edition). The socket shall be manufactured from heavy-duty, impact-resistant insulating material with robust phase, neutral and earth contacts, ensuring secure plug engagement and reliable electrical connectivity.The industrial socket outlet shall be provided with a heavy-duty, impact-resistant, dustproof and weather-resistant protective safety cap/cover, preferably hinged type, with a secure closing arrangement. The complete assembly shall be housed in a robust metal-clad enclosure with corrosion-resistant protective finish and minimum ingress protection rating of IP44 for indoor installations and IP55 for exposed outdoor locations. The enclosure shall be provided with a suitable mounting arrangement, cable entry provisions, secure cover and necessary accessories. The incoming supply shall be protected through a 3-pole, 63 A MCB with thermal-magnetic tripping mechanism. The MCB shall have a minimum rated short-circuit breaking capacity of 10 kA or higher, as established by the prospective fault-current assessment. The tripping characteristic shall normally be C-curve, subject to verification of connected equipment starting-current requirements and cable protection coordination. The assembly shall incorporate a dedicated protective earthing connection, adequately rated internal copper wiring, robust terminals, phase identification and electrical hazard/warning labels. Mechanical or electrical interlocking shall be provided wherever required by the selected socket arrangement to prevent unsafe insertion. The complete assembly shall conform to applicable electrical safety standards and shall be suitable for reliable operation under industrial working conditions. The scope shall include supply, installation, mounting, electrical connections, protective earthing, testing and commissioning, complete with all necessary accessories and hardware. Make: LEGRAND / L&T / SCHNEIDER	2	Nos		C33 = A33*B33
34	Supply, installation, testing and commissioning of a complete single-phase, 20A MCB-protected industrial/heavy-duty socket outlet assembly, comprising a single-pole (SP) 20A MCB, 230V AC, 50Hz, with a minimum rated short-circuit breaking capacity of 10kA or as established by the site fault-level calculation, and a matching 20A, 3-pin (Phase-Neutral-Earth) socket outlet, suitable for the intended electrical load. The scope shall include all necessary accessories, internal connections, mounting hardware, installation, testing and commissioning, complete in all respects as per applicable IS standards, CEA regulations and relevant electrical safety requirements, as directed by the Engineer-in-Charge. The contractor shall ensure compatibility of the socket, MCB, enclosure and connected load. All materials shall be new, genuine and from reputed manufacturers, subject to approval by the Engineer-in-Charge.	7	Nos		C34 = A34*B34

35	**Supply, Installation, Fixing, Testing and Commissioning of Complete 25 mm Diameter Rigid PVC Conduit System** Providing, supplying, installing, fixing, testing and commissioning of a complete 25 mm nominal diameter rigid, non-metallic PVC electrical conduit system for routing and mechanical protection of electrical wires and structured LAN cables, as per approved layout and site requirements. The scope shall include rigid PVC conduits of suitable classification and wall thickness conforming to applicable IS 9537 requirements, factory-moulded bends, couplers, junction/inspection boxes with removable covers, connectors, bushes, grommets, saddles, clamps, U-channels/U-angles for external wall installations, corrosion-resistant fasteners, draw wires and all necessary accessories and consumables required for a complete installation. The work shall include measurement, marking, cutting, bending, jointing, drilling, fixing, routing and securing of conduits through concealed or surface-mounted arrangements, as approved by the Engineer-in-Charge (EIC). Conduits shall be properly aligned, adequately supported and installed with suitable bends and junction boxes to facilitate cable drawing without damaging cable insulation. Separate and suitable conduit routes shall be provided for electrical power wiring and structured LAN/data cabling wherever required, ensuring appropriate segregation and compliance with applicable electrical and data cabling installation practices. The scope shall include making good of affected wall and ceiling surfaces, removal of debris and all incidental civil finishing works arising from conduit installation. **Exclusions:** Supply, laying, pulling, termination and testing of electrical wires, CAT6/CAT6A LAN cables, network accessories and electrical switches/socket outlets are excluded from this item and shall be covered under their respective BOQ items. The quoted rate shall be inclusive of all conduits, fittings, accessories, consumables, transportation, labour, tools, tackles, installation, fixing and incidental expenses required for satisfactory completion of the work. All materials and workmanship shall conform to applicable BIS standards and approved technical specifications, subject to inspection and approval by AIESL.	1	Job		C35 = A35*B35

36	**200A, 4-Pole Switch Disconnector / Isolator** Supply, installation, testing and commissioning of heavy-duty, four-pole (3 Phase + Neutral) switch disconnector/isolator, rated 200 A, 415 V AC, 50 Hz, suitable for SFC/Compressor feeder applications. The switch disconnector shall have a utilisation category of AC-23A or suitable category based on actual load characteristics and shall conform to IS/IEC 60947-3. Rated insulation voltage shall be as per manufacturer's certified specifications and applicable standards. Short-circuit withstand capacity shall be adequate for the prospective fault level at the installation point and coordinated with the upstream protective device. The isolator shall be provided with a heavy-duty manual rotary operating mechanism, door-interlocking arrangement, simultaneous operation of all four poles, provision for padlocking in the OFF position and clear ON/OFF position indication. The complete assembly shall be housed in a robust, powder-coated metal enclosure with minimum IP55 protection, suitable for industrial environments. The scope shall include suitable cable entry and termination arrangements, separate earthing terminal, cable lugs, cable glands, mounting brackets, fixing hardware and all necessary accessories for complete installation and satisfactory operation. The contractor shall submit the manufacturer's technical catalogue, dimensional drawings and short-circuit withstand/coordination details for approval by the Engineer-in-Charge before supply. The equipment shall be of an approved reputed make and installed, tested and commissioned in accordance with applicable electrical safety standards and manufacturer's recommendations. The quoted rate shall be inclusive of supply, transportation, installation, mounting, cable termination, testing, commissioning, labour, tools, tackles and all required accessories and incidental works for satisfactory completion. Make: LEGRAND / L&T / SCHNEIDER	2	Nos		C36 = A36*B36
37	**160A, 5-Pin Industrial Metal-Clad Socket Outlet** Supply, installation, testing and commissioning of heavy-duty metal-clad industrial socket outlet, rated 160 A, 415 V AC, three-phase, 50 Hz, with 5-pin configuration (3P+N+E), suitable for industrial equipment/workshop applications. The socket outlet shall conform to applicable IEC 60309 requirements or equivalent approved standards and shall have a minimum degree of protection of IP55. The socket contacts shall be manufactured from high-conductivity copper alloy with suitable corrosion-resistant plating, ensuring reliable electrical contact and minimum contact resistance. The assembly shall be provided with high-grade insulating material, robust and reliable earth contact, heavy-duty cable entry gland and terminals suitable for the specified cable cross-section and current-carrying capacity. The socket outlet shall be provided with mechanical interlocking arrangement wherever required, to prevent unsafe insertion or withdrawal of the plug under load. The mating plug and socket shall be fully compatible in terms of rated current, operating voltage, number of poles, earthing arrangement and clock position. The assembly shall include a suitable heavy-duty metal enclosure, mounting arrangement, terminal connections, cable gland, fixing hardware and all necessary accessories for safe and reliable operation. The contractor shall submit the manufacturer's technical catalogue, dimensional details and relevant compliance/test certificates for approval by the Engineer-in-Charge before supply. The equipment shall be of an approved reputed make and suitable for continuous industrial duty. The quoted rate shall be inclusive of supply, transportation, installation, mounting, cable termination, testing, commissioning, labour, tools, tackles, mounting hardware and all necessary accessories and incidental works required for satisfactory completion. Make: LEGRAND / L&T / SCHNEIDER	2	Nos		C37 = A37*B37

38	**Supply, Installation, Testing and Commissioning of 6 Metre Hot-Dip Galvanised Street-Light Pole** Supply, installation, testing and commissioning of heavy-duty hot-dip galvanised steel street-light pole, minimum 6 metres height above finished ground level, of tapered polygonal/octagonal or approved tubular construction, suitable for outdoor street-lighting applications. The pole shall be manufactured from structural steel conforming to applicable IS 2062 requirements and designed to withstand the applicable wind speed and loading conditions at the installation location. The pole shall be hot-dip galvanised after fabrication in accordance with IS 4759, ensuring uniform and corrosion-resistant galvanised coating. The pole shall be complete with structurally designed base plate, hot-dip galvanised foundation/anchor bolts with nuts, washers and positioning template, lockable inspection door with suitable locking arrangement, internal cable routing passage, dedicated earthing terminal, weather-resistant sealed top cap and all necessary mounting accessories. The pole shall have adequate structural strength, stability and corrosion resistance for long-term outdoor installation. The scope shall include excavation, construction and casting of suitable RCC foundation based on actual soil conditions and structural design requirements, including reinforcement, concrete, anchor bolt positioning, grouting, levelling, backfilling and surface finishing. All necessary civil and electrical installation accessories required for complete erection shall be included. The contractor shall submit structural design calculations for the pole, wind-load design details, foundation drawings and calculations, material specifications and galvanising test certificate for approval by the Engineer-in-Charge before commencement of fabrication and installation. The quoted rate shall be inclusive of design, supply, fabrication, hot-dip galvanising, transportation, loading/unloading, excavation, RCC foundation, reinforcement, anchor bolts, erection, alignment, grouting, earthing provisions, testing, commissioning, labour, tools, tackles and all incidental materials and works required for satisfactory completion of the installation.	6	Nos		C38 = A38*B38
39	Supply, installation, mounting, testing and commissioning of high-efficiency LED street-light luminaire, rated 200 W, 230 V AC, 50 Hz, suitable for outdoor roadway, industrial premises and MRO complex illumination applications Make: Havells/Philips. The luminaire shall deliver a minimum luminous efficacy of 120 lumens/Watt and minimum actual luminaire luminous flux of 24,000 lumens. Correlated Colour Temperature (CCT) shall be 4000–5700 K, Colour Rendering Index (CRI) Ra minimum 70, Power Factor minimum 0.95 and Total Harmonic Distortion (THD) maximum 10%, as declared by the manufacturer. The luminaire shall be equipped with a high-efficiency constant-current LED driver with suitable protection against overvoltage, overcurrent, short-circuit and thermal conditions. Minimum surge protection shall be 10 kV. The housing shall be manufactured from pressure die-cast aluminium with an efficient thermal management arrangement and corrosion-resistant external finish. The luminaire shall have a minimum ingress protection rating of IP66 and impact protection rating of IK08, suitable for continuous outdoor operation. The LED modules shall have a rated service life of minimum L70 50,000 operating hours. The luminaire shall be provided with a minimum five-year comprehensive manufacturer's warranty covering LED modules, driver, surge protection device and associated electrical components. The optical system shall incorporate roadway-specific light distribution suitable for the proposed pole mounting height, bracket arrangement, road width and required illumination levels, ensuring uniform light distribution with minimum glare and unwanted light spill. The LED street-light luminaire shall be securely mounted on the approved street-light pole at the designated mounting height using suitable heavy-duty, corrosion-resistant mounting clamps, brackets, fasteners and connectors compatible with the pole and luminaire. The scope shall include	10	Nos		C39 = A39*B39

	all necessary internal/external wiring, weatherproof cable connections, cable glands, electrical terminations and protective arrangements required for safe and reliable electrical connectivity. Installation and mounting shall be carried out at the designated height using suitable hydraulic lifts, boom lifts, mobile elevated work platforms (MEWPs) or cranes, wherever required, operated by competent and authorised personnel. All lifting equipment shall have valid inspection and fitness certificates and shall be operated in accordance with applicable safety requirements. The contractor shall ensure strict compliance with work-at-height and lifting safety procedures, including the use of approved safety helmets, full-body safety harnesses with suitable anchorage/lifelines, safety shoes, reflective jackets, gloves and other necessary personal protective equipment (PPE). The work area shall be properly barricaded with warning signs and adequate safety precautions to prevent unauthorised entry and protect personnel, equipment and property. Electrical isolation and Lockout/Tagout (LOTO), wherever applicable, shall be ensured before carrying out electrical connections or related installation activities. The contractor shall provide adequate supervision and ensure that all installation activities are carried out safely without damage to the pole, luminaire or existing installations. The equipment shall conform to applicable current provisions of IS 10322 (Part 5/Sec 3) and relevant LED luminaire safety and performance standards. The contractor shall submit manufacturer's technical datasheets, valid test certificates, IES/LDT photometric files, proposed lighting layout, illumination calculations and warranty documents for approval by the Engineer-in-Charge before supply and installation. The quoted rate shall be inclusive of supply, transportation, loading/unloading, installation, mounting, electrical connections, internal/external wiring, cable glands, mounting clamps, brackets, fasteners, hydraulic lifts, boom lifts/MEWPs, cranes wherever required, operators, rigging arrangements, safety equipment, PPE, barricading, manpower, testing, commissioning, labour, tools, tackles and all incidental materials and works required for satisfactory completion of the installation in all respects, as directed by the Engineer-in-Charge.				
40	**Supply, Laying, Testing and Commissioning of 2 Core × 10 mm² Copper Armoured XLPE Power Cable,** Supply, laying, installation, testing and commissioning of 1.1 kV grade, 2-core, 10 mm² copper-conductor, XLPE-insulated, armoured power cable, suitable for industrial electrical power distribution applications. The cable conductors shall be made of high-conductivity, stranded copper conforming to IS 8130, with XLPE insulation, extruded inner sheath, galvanised steel wire/strip armouring, as applicable to the cable construction, and FR/FRLS PVC or other approved suitable outer sheath. The cable shall conform to IS 7098 (Part 1), IS 8130 and other applicable current Indian Standards. Core identification shall be red/black or other approved colour identification. The outer sheath shall be durably marked with the manufacturer's name, cable size, voltage grade, applicable standard and year of manufacture. The cable shall be supplied in factory-sealed drums accompanied by the manufacturer's routine test certificate and relevant technical datasheets. The scope shall include laying and routing of the cable through approved underground trenches, PVC/RCC conduits, cable trays or other designated routes, as applicable, ensuring proper cable dressing, alignment, support, mechanical protection and adherence to the manufacturer's recommended minimum bending radius. Suitable cable glands, including double-compression type wherever required, tinned copper cable lugs of appropriate size, termination accessories, ferrules, identification tags, cable clamps, saddles, protective sleeves and all necessary fixing materials shall be provided for complete installation and termination. All cable joints and terminations shall be properly executed to ensure electrical continuity, mechanical strength, insulation integrity and safe operation. The cable shall be tested for conductor continuity, insulation resistance and other applicable electrical parameters before energisation. Testing shall be carried out using suitable calibrated instruments, and test reports shall be submitted to the Engineer-in-Charge for verification and acceptance. The quoted rate shall be inclusive of supply, transportation, loading/unloading, laying, installation, cable dressing, routing, cable glands, tinned copper lugs, termination, identification, mechanical protection, testing, commissioning, labour, tools, tackles and all incidental materials and accessories required for satisfactory	100	Mtrs		C40 = A40*B40

	completion of the work in all respects, as directed by the Engineer-in-Charge.				
41	**Complete Internal Electrical Wiring – Room-wise Circuit Integration, Coordination, Testing and Commissioning** Carrying out complete room-wise internal electrical wiring integration and commissioning of the identified office premises, using the electrical wires, conduits, modular switches, socket outlets, lighting fixtures, fans, distribution boards, protective devices and other electrical accessories separately specified and priced under the respective BOQ items. The scope shall include: 1. Verification of the approved room-wise electrical layout, connected load schedule, circuit distribution and existing electrical infrastructure before commencement of work. 2. Coordination and integration of all separately itemised electrical wiring materials, accessories, lighting points, fan points, socket outlets, dedicated air-conditioning circuits and distribution boards to establish a complete and functional electrical installation. 3. Ensuring proper segregation of lighting circuits, fan circuits, general-purpose socket circuits, dedicated equipment circuits and air-conditioning power circuits, as per the approved electrical load schedule. 4. Verification of cable sizing, circuit loading, current-carrying capacity, voltage drop, phase balancing and suitability of protective devices in coordination with the approved electrical design. 5. Verification of proper routing, dressing, identification, ferruling, numbering and termination of electrical wiring and connections at the respective distribution boards, switches, sockets, fixtures and equipment. 6. Verification of electrical continuity, insulation integrity, polarity, earth continuity and functional operation of the complete installed wiring system. 7. Identification and rectification of wiring defects, loose connections, improper terminations, circuit identification errors and other deficiencies observed during testing and commissioning.	1	Job		C41 = A41*B41

	8. Preparation and submission of updated room-wise electrical circuit schedules, distribution board schedules, wiring layouts and test reports. 9. Final testing, commissioning and demonstration of the complete internal electrical installation to the satisfaction of the Engineer-in-Charge. **Exclusions:** Supply of electrical wires, PVC conduits, switches, socket outlets, modular plates, lighting fixtures, fans, distribution boards, MCBs, RCCBs, isolators, cable trays and other materials separately covered under their respective BOQ items. Their individual supply, installation and termination charges shall not be claimed again under this item. The quoted rate shall cover only the overall coordination, system integration, verification, consolidated testing, commissioning and documentation activities described above. No separate payment shall be admissible for any activity already included in another BOQ item. The work shall comply with applicable CEA safety regulations, IS 732, IS 3043, IS 694 and other relevant electrical installation standards.				
42	**Inspection, Installation, Integration, Testing and Commissioning of MCBs, RCCBs and Isolators in Existing Distribution Boards** Carrying out inspection, assessment, installation, integration, testing and commissioning of appropriately rated MCBs (Miniature Circuit Breakers), RCCBs (Residual Current Circuit Breakers) and isolators in the existing Distribution Boards (DBs) available at the designated premises, as per the approved electrical load schedule, circuit diagram and requirements of AIESL. The scope shall include: 1. Inspection and assessment of existing distribution boards, including physical condition, enclosure arrangement, available space, existing busbar configuration, incoming/outgoing connections and electrical load requirements. 2. Verification of the ratings, configuration, short-circuit breaking capacity and compatibility of the proposed MCBs, RCCBs and isolators with the existing distribution board and connected electrical loads. 3. Supply and installation of new MCBs, RCCBs and isolators of the ratings, quantities and configurations specified in the approved device-wise schedule appended to the BOQ. 4. Installation, mounting and integration of the protective devices with existing DB busbars and outgoing circuits, including necessary internal wiring modifications, interconnections, connectors, termination accessories and mounting arrangements. 5. Proper termination of incoming and outgoing electrical connections, including crimping, ferruling, tightening, insulation, phase identification and circuit numbering. 6. Ensuring proper coordination of protective devices with the connected electrical loads and upstream protection systems, including verification of appropriate tripping characteristics and residual current sensitivity, wherever applicable. 7. Testing of the modified distribution boards, including insulation resistance, continuity, polarity, earth continuity, phase sequence and functional testing of installed protective devices. 8. Proper labelling of installed devices, circuit identification, updating of circuit schedules and submission of relevant test reports. 9. Removal of electrical debris, rectification of defects observed during testing and handing over the modified distribution boards in safe and fully operational condition.	1	Job		C42 = A42*B42

	Exclusions: Supply and installation of new distribution board enclosures, complete new distribution boards, busbars and associated protective devices forming part of new DB assemblies separately covered under BOQ Item No. 28. Any replacement of existing DB enclosures, busbars or major components shall be undertaken only against a separately approved BOQ item or authorised variation. The Contractor shall ensure that the existing DBs are isolated from the electrical supply before carrying out installation or modification work and shall follow applicable electrical safety and lockout/tagout procedures. All materials shall be new, genuine and conform to applicable IS/IEC standards. The installed equipment shall be subject to inspection and approval by AIESL. The quoted rate shall include the supply of the specified protective devices, installation, integration, internal wiring modifications, termination accessories, testing, commissioning, labour, tools, tackles and all incidental materials required for satisfactory completion of the work.				
43	**Supply, Installation, Testing and Commissioning (SITC) of 25 Sq.mm, 3.5 Core, XLPE Insulated, Aluminium Conductor, Armoured Power Cable** Supply and laying of 25 Sq.mm, 3.5 Core, XLPE insulated, Aluminium conductor, armoured cable conforming to applicable IS standards (IS 7098 Part-1), suitable for 1.1 kV grade electrical distribution systems. Installation of cable through existing/new cable trays, trenches, conduits or other approved routes, as per site conditions and instructions of the Engineer-in-Charge. Providing and fixing necessary cable supports, clamps, saddles, cleats, cable ties, identification tags and other accessories required for proper cable installation. Providing suitable cable glands, aluminium-compatible lugs, ferrules and termination accessories at both ends of the cable. Making proper electrical connections at the outgoing terminals of the Main DB and incoming terminals of the respective Local DBs, including necessary interconnections. Ensuring proper phase identification, neutral identification, cable dressing, bending radius and mechanical protection. Testing of the installed cable for insulation resistance, continuity, phase sequence and termination tightness before commissioning. Commissioning and demonstrating satisfactory operation of the connected Local DBs. Including all necessary labour, tools, tackles, consumables, transportation, handling and incidental charges required for completion of the work. The work shall be carried out in accordance with applicable IS standards, CEA safety regulations, relevant CPWD specifications and instructions of the Engineer-in-Charge.	100	Mtrs		C43 = A43*B43

44	Supply, installation, laying, routing, dressing, testing and commissioning of CAT6 UTP, 4-Pair, 23 AWG, 100% Solid Bare Copper LAN Cable through 25 mm PVC conduits for room-wise LAN connectivity, including identification, labelling, termination at both ends with compatible CAT6 connectors/modules and integration with the designated network distribution point/patch panel, complete in all respects as per approved drawings, technical specifications and instructions of the Engineer-in-Charge. Individual CAT6 cable runs shall be provided from the designated network distribution point/patch panel to the respective LAN outlets in each identified room, as per approved room-wise drawings and cable layout. Termination/Crimping of CAT6 cables at both ends using compatible CAT6 RJ45 female keystone jacks, I/O outlets (one end 62 points + second end loaded patch panel) and patch panels, wherever specified in the approved LAN layout. All terminations shall follow T568B wiring configuration consistently. Proper identification and labelling of cables at both ends, including room number, LAN outlet identification and corresponding patch panel port number. with all labels, ties, fasteners, grommets and termination accessories complete as directed by Engineer in-charge.	1300	Mtrs		C44 = A44*B44
45	Supply, installation, laying, routing, testing and commissioning of CAT6A S/FTP, 4-Pair, solid bare copper backbone LAN cable, Category 6A, for main and backup network connectivity, including cable dressing, shielding continuity, identification(labeling), termination and testing at both ends, complete in all respects as per approved drawings and technical specifications. Provision of separate main and backup backbone cable connections between the designated network distribution points, ensuring independent cable routing wherever feasible, to provide network redundancy. Laying and routing of cables through designated 25mm PVC conduits, cable trays or approved pathways, including pulling, dressing, securing and proper cable management. Ensuring continuity of the overall cable shielding system and proper termination of shielded connectors at both ends. Shield bonding and earthing shall be carried out in accordance with the manufacturer's recommendations and applicable structured cabling standards. Termination/Crimping of CAT6A cables at both ends using compatible CAT6A RJ45 Female keystone jacks, I/O outlets (16 Nos) and patch panels, wherever specified in the approved LAN layout. All terminations shall follow T568B wiring configuration consistently. The entire installation shall be completed in a professional manner, ensuring compliance with applicable standards, manufacturer's recommendations, with all labels, ties, fasteners, grommets and termination accessories and instructions of the Engineer-in-Charge.	316	Mtrs		C45 = A45*B45

46	Supply of factory-fabricated, wall-mounted network rack of 4U capacity, constructed from CRCA sheet steel with rigid welded/bolted construction and corrosion-resistant powder-coated finish. Standard 19-inch equipment mounting provision conforming to applicable EIA-310 requirements. Rack depth shall be adequate for housing the proposed network switches, patch panels and associated accessories. Provision of suitable wall-mounting brackets, anchor fasteners, bolts, nuts and other necessary hardware for secure installation on the existing wall structure. Lockable front door with toughened glass or perforated metal door, providing visibility, security and adequate ventilation. Removable or hinged side panels, wherever applicable, to facilitate equipment installation, inspection and maintenance. Suitable top/bottom cable entry openings with protective bushings or grommets for incoming and outgoing LAN cables. Adequate ventilation arrangements, including provision for cooling fan installation wherever required. Provision of suitable horizontal cable management accessories and cable dressing arrangements for neat routing and management of LAN cables and patch cords. Provision for proper rack earthing, including earthing terminal, bonding arrangements and necessary accessories. Complete assembly, positioning, levelling, wall mounting, fastening and integration with the incoming LAN cabling infrastructure. Labelling of racks as Rack-1, Rack-3, Rack-4 and Rack-5 at their respective installation locations. The rack shall be supplied with all standard accessories required for safe installation and effective operation with all labels, ties, fasteners, grommets and termination accessories complete in all respects to the satisfaction of the Engineer-in-Charge.	4	Nos		C46 = A46*B46
47	Supply, installation, testing and commissioning of 6U wall-mounted network rack, complete with standard 19-inch equipment mounting provisions, wall mounting brackets, anchor fasteners, lockable front door, removable side panels, cable entry arrangements, ventilation provisions, cable management accessories, earthing arrangements and all necessary hardware, suitable for housing network switches, patch panels and associated LAN equipment at the designated location (Rack-2), complete in all respects as per technical specifications and instructions of the Engineer-in-Charge.	1	Nos		C47 = A47*B47
48	Supply, installation, testing and commissioning of 24-port, 19-inch rack-mountable, CAT6 UTP loaded patch panel, complete with factory-fitted CAT6 RJ45 keystone jacks, rear cable management arrangement, mounting hardware, port numbering and identification labels, including termination of incoming CAT6 LAN cables, testing and integration with the structured LAN network, complete in all respects as per technical specifications and instructions of Engineer-in-Charge. Termination of individual CAT6 solid copper LAN cables at the rear of the patch panel using IDC termination blocks, compatible with T568B wiring configuration. Consistent wiring configuration shall be maintained throughout the installation. Complete integration with incoming room-wise CAT6 LAN cabling and provision for interconnection with network switches through suitable patch cords.	5	Nos		C48 = A48*B48

49	Supply, installation and fixing of matching modular faceplate with suitable surface-mounted back box for room-wise LAN outlets, compatible with CAT6 RJ45 female keystone jacks, including mounting frame, fixing screws, accessories, alignment, fixing and integration with the existing PVC conduit and LAN cabling system, complete in all respects as per approved room-wise LAN layout and instructions of Engineer-in-Charge. Faceplates shall be provided with suitable mounting frames, fixing screws, clips and other necessary accessories for secure installation. Back boxes shall be suitably integrated with the 25 mm PVC conduit system to facilitate entry and routing of incoming CAT6 LAN cables without sharp bends or cable damage. All necessary mounting hardware, screws, frames and accessories shall be included in the quoted rate. The completed installation shall be free from loose fittings, sharp edges and improper alignment. The exact locations of the mounting points shall be determined by the Engineer-in-Charge (EIC) based on actual site conditions and functional requirements. The layout provided is indicative and for reference purposes only and shall not be treated as final or binding.	62	Nos		C49 = A49*B49
	D = TOTAL AMOUNT (Excl. GST) = (C1+C2+C3+……+C47+C48+C49)				
	E = GST % (As Applicable) on D				
	GRAND TOTAL (incl. GST) = F = D+E The amount F must be reflected in GeM portal				

The bid amount shall be inclusive of packing, forwarding. Transportation, insurance and delivery charges and any other charges as applicable.

The Electrical Layouts provided against each room are only for reference actual position of the equipment may change as per the requirement of the site and as directed by Engineer-in-charge, AIESL.

Note*:*

1. The price quoted above by the Bidder is inclusive of applicable taxes.
2. The price components should be inclusive of all taxes, duties, boarding, lodging, travel expenses (if required)and any other charges. No fee other than agreed Fee as per Form 8 shall be paid to the Service Provider.
3. All statutory/government taxes, duties, surcharges, GST etc. would be as applicable at the time ofinvoicing/releasing of payments.
4. AIESL may ask for price break up of components or any other clarification as required by the bidder.
5. **Bidder must submit financial proposal in the format prescribed in Form 8. Any deviation proposed by the bidder will make the bid liable to be rejected.**

Yours faithfully,

Date: (Signature of the Authorized signatory)

Place: (Name and designation of the Authorized signatory) (Name and rubber seal of the Bidder)

Award of Contract

a. Award Criteria & AIESL's Right to accept/ reject any or all Bids

1.	AIESL will award the Contract to the Bidder who has offered the lowest evaluated Bid price criteria, provided that such Bidder has been determined to be (a) eligible in accordance with the provisions of Section 11 & 12 Bid evaluation and eligibility criteria; (b) determined substantive responsive.
2.	AIESL reserves the right to accept or reject any bid, and to cancel the bidding process and reject all bids, at any time prior to the award of Contract, without thereby incurring any liability to the affected bidder or bidders. However, the Bidder(s) who wish to seek reasons for such decision of cancellation/ rejection shall be informed of the same by AIESL unless its disclosure reasonably could be expected to affect the sovereignty and integrity of India, the security, strategic, scientific, or economic interest of the state or lead to incitement of an offence.
3.	The bidder whose bid has been accepted will be notified of the award by AIESL prior to expiration of the Bid validity period through the "Letter of Acceptance/ Letter of Award", which will state the sum that AIESL will pay to the Contractor in consideration of the execution, completion by the Contractor as prescribed by the Contract.
4.	The award of Contract shall be subject to fulfilment (in addition to eligibility criteria and the Undertakings as provided under the Tender) of following conditions by the Bidder: I. The Successful Bidder must convey acceptance of Letter of Award (LOA)/contract BY EOD ISSUE OF LOA days of receipt of the same and provide their bank details with a cancelled cheque. II. The Successful Bidder must commence the Services within 2 days after Acceptance of LOA. III. The Successful Bidder shall execute the Contract within 14 days of acceptance of LOA. The cost towards the preparation and execution of the Contract shall be borne by the Successful Bidder.

14.Forms and Format

Form- 03
DECLARATION

(On Letter head of Bidder)

To,
AI Engineering Services Ltd. (AIESL),

MRO Complex, Near Gate 03,

RGI Airport, Shamshabad – 500108

Contact : 040 23477608

M/s.....(name of Bidder) having its registered office at ---------- (hereinafter referred to as `the Bidder') having carefully studied all the Tender documents, specifications, drawings, etc. and agree to all terms and conditions pertaining to the Work for **"Execution of Internal Electrical Wiring, Installation of Split Air Conditioning Units & IT infrastructure at AIESL Engineering Hangar, Begumpet Airport, Hyderabad"**, and having undertaken to execute the said works.

It is declared without any reservation whatsoever that:

1) The submitted Technical Bid/Financial Bid proposals are without any deviations and are strictly in conformity with the documents issued by AIESL,
2) In case any deviations are noticed which might have crept inadvertently, that such deviations without reservation of any kind are automatically deemed to have been withdrawn by us,
3) We are familiar with all the requirements of the Contract and has not been influenced by any statement or promise of any person of AIESL,
4) We are experienced and competent Bidder to perform the Contract to the satisfaction of AIESL and are familiar with all general and special laws, acts, ordinances, rules and regulations of the Municipalities, District, State and Central Government of India that may affect the work, its performance or personnel employed therein,
5) We hereby authorize AIESL to seek reference from our bankers for its financial position and undertake to abide by all labor welfare legislations, and

The above statement submitted by us is true and correct to our best knowledge.

Dated: For and on behalf of the bidder

Form-5

Letter of Application

(On Letter Head of Bidder)

To,
AI Engineering Services Limited
MRO Complex, Near Gate 03,
RGI Airport, Shamshabad - 500108

Sir,

1. Being duly authorized to represent and act on behalf of <**Name of Applicant**> ---------- (hereinafter referred to as 'the applicant'), and having reviewed and fully understood all the pre- qualification information provided, the undersigned hereby apply to be pre-qualified by yourselves as a bidder for the works of **"Execution of Internal Electrical Wiring, Installation of Split Air Conditioning Units & IT infrastructure at AIESL Engineering Hangar, Begumpet Airport, Hyderabad"**

2. Attached to this letter are copies of original documents defining
   a. The Applicant's Registration/ Legal Status (as per Prequalification/ Eligibility Criteria)
   b. The principal place of business.
   c. The place and date of incorporation
3. You and your authorized representatives are hereby authorized to conduct any inquiries or investigations to verify the statements, documents, and information submitted in connection with this service, and to seek clarification from our bankers and clients regarding any financial and technical aspects. This letter of Application will also serve as authorization to any individual or authorized representative of any institution referred to in the supporting information, to provide such information and requested by yourselves to verify statements and information provided in this application, or regarding the resources, experience, and competence of the applicant (s).
4. This service is made in the full understanding that:
   a. Tenders by prequalified Applicants will be subjected to verification of all information submitted for prequalification at the time of tendering.
   b. You reserve the right to:
      i. Amend the scope and value of any contracts to be tendered under this Project. In such event, tenders will only be called from prequalified bidders who meet the revised requirements; and
      ii. Reject or accept any application, cancel the prequalification process, and reject all applications; and
   c. AIESL shall not be liable for any such actions and shall be under no obligation to inform the Applicant of the grounds for them.

5. The undersigned declare that the statements made, and the information provided in the duly completed Application are complete, true, and correct in every detail.

Signature

Name

For and on behalf of (Name of Applicant)

Form-6

Undertaking by Bidder towards Anti-profiteering Clause of GST Act / Rules

(To be submitted on letter head)

To,

AI Engineering Services Ltd.

MRO Complex, Near Gate 03,

RGI Airport, Shamshabad – 500108

Sub.: **Execution of Internal Electrical Wiring, Installation of Split Air Conditioning Units & IT infrastructure at AIESL Engineering Hangar, Begumpet Airport, Hyderabad**

Dear Sir,

We, M/s..... (Name of Bidder) have submitted bid dt. .....for the aforesaid RFP.

Section 171 of CGST Act. / SGST Act. stipulates that it is mandatory to pass on the benefit of reduction in rate of tax on supply of Goods or Services or availability of Input Tax Credit, by way of commensurate reduction in prices.

Accordingly, it is certified that we have duly considered the impact of Input Tax Credit available on supplies in the GST regime, in our quoted prices. Further, any additional benefit of ITC if available to bidder shall be passed on to AIESL.

Further, we hereby confirm that our quoted prices are duly considering maximum possible benefit available and follow the aforesaid Section 171 of CGST Act/ IGST Act.

Further, if any refund on account of GST is received from the Government in future by the Bidder under any GST Refund/ Exemption or Subsidy Scheme, the same shall also be passed on to AIESL.

In case this declaration is found faulty in any manner, we shall fully be responsible for the consequential effect including making good of any losses of interest etc. to AIESL

Place: [Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal:

Form-7

Format for declaration by the Bidder – Bank Insolvency

"Self-Declaration by the Bidder on Letter Head"

To

AI Engineering Services Ltd. (AIESL),

MRO Complex, Near Gate 03,

RGI Airport, Shamshabad

500108

I/ We, M/s_____(Name of Bidder) hereby certify that proceedings for insolvency under the Insolvency and Bankruptcy Code, 2016, or as amended from time to time, have not started, against us and/ or our Parent/ Holding company _____(Name of Parent/ Holding company).

*Strike out if not applicable

(Seal & Signature of Bidder)

Form 9

BIDDER'S COMPANY INFORMATION

Form 09

To

AI Engineering Services Ltd. (AIESL),

MRO Complex, Near Gate 03,

RGI Airport, Shamshabad – 500108

Please complete the below table. Please note references to other sources e.g., websites addresses are not acceptable. Additional information can be given as an attached sheet.

Sl. No.	**Requirements**	**Details**
1	Bidder's Company Name & address	
2	The company must have been incorporated as a partnership, private or a public limited company	
3	Paid up capital	
4	Year of incorporation	
5	Annual turnover for the last three years (FY 2023-24, FY 2024-25, FY 2025-26)	
6	Bidder's Company Contact Person Name, Job title, e-mail address, mobile, and direct contact telephone no. and fax no.	
7	Location and details of network support	

Form 10

EVALUATION CRITERIA - TECHNICAL BID

To,

AI Engineering Services Ltd. (AIESL),

MRO Complex, Near Gate 03,

RGI Airport, Shamshabad – 500108

Evaluation Criteria: Technical Bid

1. The Bidders must meet all the mandatory technical qualification criteria as listed in Section 11 of this tender. Should a bidder fail to comply with one or more of the mandatory criteria, his bid will not be evaluated any further.
2. The Bidders are to provide the detailed write-up under each item of their offered product listing the main / special features of each process / function including references / whichever and wherever applicable, along with process flow charts and screen shots, to support their compliance claims made in response to the tender requirements / specifications. Attach separate sheets, as necessary.
3. **AIESL** would evaluate the responses based on the detailed information as provided. The decision of **AIESL** in this regard shall be final.

We have studied all the terms and conditions , Evaluation Criteria –Technical Bid and agree to abide the same in total.

Authorized signatory of the bidder: _____

Name: _____

Designation: _____

Bidder's Company Name & Seal: _____

Business Address:

Form 10 A

TECHNICAL BID FORMAT

To be printed on the Bidder's Company Letter Head

To,

AI Engineering Services Ltd. (AIESL),

MRO Complex, Near Gate 03,

RGI Airport, Shamshabad – 500108

Ref. No: AIESL/HYD/PPMM/ENQ/31 **Dated 10/11/2026**

Dear Sir,

Sub: Technical Bid as per your Tender No. AIESL/HYD/PPMM/ENQ/31 Dated 10/11/2026

With reference to your tender **AIESL/HYD/PPMM/ENQ/31 Dated 10/11/2026**for **Execution of Internal Electrical Wiring, Installation of Split Air Conditioning Units & IT infrastructure at AIESL Engineering Hangar, Begumpet Airport, Hyderabad**, we hereby submit our **Technical Bid** as per requirements mentioned in **Section** 10 and 11**.**

We also agree to the General Terms & Conditions, Work Scope, Workflow and Evaluation Criteria as prescribed in the bidding document.

Thanking you,

Encl:

Authorized signatory of the bidder: _____

Name:_____

Designation: _____

Bidder's Company Name & Seal: _____

Business Address: _____

Form 11

EVALUATION CRITERIA - FINANCIAL BID

To,

AI Engineering Services Ltd. (AIESL),

MRO Complex, Near Gate 03,

RGI Airport, Shamshabad – 500108

Evaluation Criteria: Financial Bid

1. The Financial Bids of Bidders, qualifying in the technical evaluation, will only be opened, and evaluated. The evaluation of Financial Bids will be based on price and other terms offered in the Financial Bid as per Section8,12, and Form 8 of Section 13.
2. The costs quoted should be individually classified under "Recurring" and "Non-Recurring". All such costs would be considered for evaluation of the Financial Bids.
3. It will be the responsibility of the bidder to comply and pay all taxes / levies / duties in the country of origin as well as in India, as applicable for the entire contract.
4. The prices quoted in the Financial Bid must be exclusive of all applicable taxes and duties**.** The taxes and duties components applicable in the country of origin of the Bidder as well as that applicable in India for all the items of Financial Bid format should be indicated clearly and separately in the Financial Bid. In case, no taxes are applicable, it should be indicated as 'NIL' or 'Zero' in the Financial Bid format.
5. If the taxes and duties are not mentioned separately, the bid would be deemed to be inclusive of such taxes, levies, and duties applicable in India.
6. Withholding tax (applicable to foreign bidders) and TDS (applicable to Indian bidders) shall be deducted by AIESL on all payments, as per applicable Government of India rules & regulations.
7. Any increase in taxes / levies / duties in subsequent years will be reimbursed by AIESL on submission of proof of payment by the bidder. Similarly, in case of any reduction in the taxes / levies / duties from the present level, the benefit will be passed on to AIESL.
8. In case, any new taxes/ levies/ duties are introduced in future by the Government in the country of origin or in India during the period of the contract, the same shall be reimbursed to the bidder by AIESL on submission of proof of such payments.
9. Any other costs not quoted in the Financial Bid, but which must be borne by AIESL for implementation of the bidder's solution, would be added to the total bid price for price comparison. The costs for this purpose will be taken from the prevailing market rate. The decision of AIESL in this respect would be final.
10. Unconditional discounts and credits, if any, would be adjusted in the total bid price for price comparison.
11. Conditional discounts and credits, if any offered in the Financial Bid, will not be considered for price comparison.
12. Representations, if any, for modifications to the price quoted in the Financial Bids will not be entertained after opening of the Tender.
13. Comparative evaluation of the Financial Bids would be based on the costs computed in INR. The prices in Financial Bid should be in INR only.

We also agree to the General Terms & Conditions, Work Scope, Workflow and Evaluation Criteria as prescribed in the bidding document.

Thanking you,

Encl:

Authorized signatory of the bidder: _____

Name: _____

Designation: _____

Bidder's Company Name & Seal: _____

Business Address: _____

Form 12

Formats for Certificates and Undertakings

Form 12 A

From Bidder's any Client / Customer

To be printed on the Client / Customer's Company Letter Head

Ref. No: AIESL/HYD/PPMM/ENQ/31 **Dated 10/11/2026**

To

AI Engineering Services Ltd. (AIESL),

MRO Complex, Near Gate 03,

RGI Airport, Shamshabad - 500108

This is to certify that the (Name of the service offered in response to the tender) _____

_____

_____provided by M/s (Company name and address of Service provider)

_____

_____has been Implemented at (Company name and address of client / customer) _____

_____

_____and has been in operation Since _____

_____(Mention the month and year the service went live). The service is currently operational.

Authorized Signatory of

the Client / Customer: _____

Name:_____

Designation: _____

Client / Customer's

Company Name & Seal: _____

Business' Address: _____

Form 12B

Joint Undertaking from the Parent Company & Subsidiary (Bidding) Company for meeting the Pre-qualification Criteria

To be printed on the Parent Company Letter Head

Ref. No: AIESL/HYD/PPMM/ENQ/31 **Dated 10/11/2026**

To

AI Engineering Services Ltd. (AIESL),

MRO Complex, Near Gate 03,

RGI Airport, Shamshabad - 500108

1) With respect to Tender no **AIESL/HYD/PPMM/ENQ/31 Dated 10/11/2026** isued by AIESL, this is to certify that M/s (Name & address of the subsidiary who is applicant to the tender) _____ _____is the subsidiary company of M/s (Name & address of parent company) _____ _____

2) At present, our subsidiary company M/s _____ _____does not have the required turnover of ₹ ---------- during the last financial year as stipulated in the AIESL tender no. **AIESL/HYD/PPMM/ENQ/31 Dated 10/11/2026** for the reason stated below:
   a) _____
   b) _____

3) However, our subsidiary company M/s _____ is interested to be an applicant to the above-mentioned tender and therefore to fulfill the requirement of the tender clauses and any contract that may be entered with AIESL in respect of this tender, if successful in winning the bid, M/s (the parent company) _____ _____hereby declares as under:
   a) That, we shall act as a confirming party to the performance of our subsidiary company M/s _____ _____
   b) That, we shall stand as a guarantee towards performance of our subsidiary company in respect of contract with AIESL for the above-mentioned tender and there shall be a joint and several responsibilities of the parent company and the subsidiary company towards meeting the obligations and commitments of the Tender.

Signature:_____
CEO of Parent Company
Name:_____
Name of the Company: _____
Seal / Stamp of the company: _____
Signature:_____
CEO of Subsidiary (Bidding) Company
Name:_____
Name of the Company: _____
Seal / Stamp of the company: _____

Form 12C

Bank Guarantee Format for Security deposit

To

AI Engineering Services Ltd. (AIESL),

MRO Complex, Near Gate 03,

RGI Airport, Shamshabad

500108

WHEREAS_____(Name and address of Bidder) (Hereinafter called "Bidder") has undertaken, in pursuance of Contract no. _____ dated_____(Herein after called "Contract") to deliver all the Services comprised in the Contract and agree to abide by the terms and conditions of the Contract.

AND WHEREAS it has been stipulated by you in the said Contract that the Bidder shall furnish you with a bank guarantee by a Scheduled Commercial bank in India recognized by you for the sum specified thereinas Security deposit amounting to ₹_____(_____), for compliance with its obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Bidder such a bank guarantee.

NOW THEREFORE, we_____Bank, a body corporate incorporated / constituted under (*) Act, (*) with its CIN (*), and having its Registered/Head Office at (*) and among others a branch at (*), hereby affirm that we are guarantors and responsible to you, on behalf of the bidder, up to a total of Rs._____(_____), and we undertake to pay you, upon your first written demand declaring Bidder to be in default under the Contract No._____and without demur or protest, any sum or sums within the limitsof (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand of the sum specified therein.

We hereby waive the necessity of your demanding the said debt from Bidder before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract to be performed there under or of any of the Contract documents which may be made between you and Bidder shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition, or modification.

This Bank Guarantee shall be valid until the_____day of_____20 .

(Signature of the authorized officer of the Bank) _____

Name and designation of the officer _____

Date: (_____) **Place: (_____)**

Form 13

PRE-BID QUERY - TECHNICAL BID

To be printed on the Bidder's Company Letter Head

To

AI Engineering Services Ltd. (AIESL),

MRO Complex, Near Gate 03,

RGI Airport, Shamshabad

500108

We hereby wish to seek the following clarification on the various clauses to the tender terms, conditions, functional requirements, and technical requirements as mentioned in the AIESL tender.

Sr. No.	Annexure No.	Clause No.	Query / Clarifications

Signature of the Bidder: _____

Name of the Bidder: _____

Company Name & Seal: _____

Business' Address: _____

Form 14
PRE-BID QUERY - FINANCIAL BID

To be printed on the Bidder's Company Letter Head

To

AI Engineering Services Ltd. (AIESL),

MRO Complex, Near Gate 03,

RGI Airport, Shamshabad

500108

We hereby wish to seek the following clarification on the various clauses to the tender terms, conditions as mentioned in the tender on Financial Bid of the tender.

Sr No.	Annexure No.	Clause No.	Query / Clarifications

Signature of the Bidder: _____

Name of the Bidder: _____

Company Name & Seal: _____

Business' Address: _____

Form 15

FORMAT OF BID SECURITY DECLARATION FROM BIDDERS IN LIEU OF EMD

(To be submitted by Bidders seeking exemption under provisions of MSE's refer para 8.5 of this document)

(On Bidder's Letter Head)

To,

AI Engineering Services Limited
MRO Complex, Near Gate 03,
RGI Airport, Shamshabad
500108

I / We, the authorized signatory of M/s....., participating in the subject tender No **AIESL/HYD/PPMM/ENQ/31 Dated 10/11/2026** for the item / job of Execution of Internal Electrical Wiring, Installation of Split Air Conditioning Units & IT infrastructure at AIESL Engineering Hangar, Begumpet Airport, Hyderabad do hereby declare the following:

1. That I / we have availed the benefit of waiver of EMD under MSE's provisions while submitting our offer against the subject Tender and no EMD being deposited for the said tender.

2. That in the event we withdraw / modify our bid during the period of validity or I/we fail to execute formal contract agreement within the given timeline or I/we fail to submit a Performance Security within the given timeline or I/we commit any breach of Tender Conditions / Contract which attracts penal action of forfeiture of EMD and I/we will be suspended from being eligible for bidding / award of all future contract(s) of AI Engineering Services Limited for minimum period of One year from the date of committing such breach.

Signature and Seal of Authorized Signatory of bidder

Name of Authorized Signatory..... .

Bidding Organization Name ..... .

Form 16

Format for self-declaration on " No Conflict of Interest"

To be submitted on Bidders Company's letterhead

To

AI Engineering Services Ltd.

MRO Complex, Near Gate 03,

RGI Airport, Shamshabad

500108

Subject: Undertaking for No

Conflict of Interest.

Dear Sir,

In accordance with this RFP document, we_____Name of the firm wish to declare that

I/We Name of the firm confirm that I/We do not have any relative, who is an employee of AIESL and who is likely to benefit us during the Award / Implementation of this contract.

I/We also indemnify that any subsequent detection of direct or indirect beneficiary of any application / award of the contract to any employee of this organization may result in disqualification / termination. AIESL will have the sole discretion to do so, and such cases cannot be referred for arbitration.

Yours faithfully,

(Signature of the authorized signatory)
(Name and Designation of the authorized signatory)
(Seal of the Bidder)

` Date:
Place:

SAFETY COMPLIANCE DECLARATION

Tender No.: AIESL/HYD/PPMM/ENQ/31 Dated 10/11/2026
Name of Work: *Execution of Internal Electrical Wiring, Installation of Split Air Conditioning Units & IT infrastructure at AIESL Engineering Hangar, Begumpet Airport, Hyderabad*

I, **Mr./Ms. _____**,
S/o / D/o _____,
aged _____ years, residing at _____,
the **Authorized Signatory** of:

M/s _____,
having Registered Office at:

---

do hereby solemnly affirm and declare as under:

1. COMPLIANCE WITH SAFETY RULES
That our firm/company has **read, understood, and shall strictly comply** with all safety rules, precautions, and regulations stipulated by:

a. AI Engineering Services Limited (AIESL)
b. Airports Authority of India (AAI)
c. CISF / Airport Security Agencies
d. Statutory safety laws (Factories Act, Labour Acts, IS Codes)
e. The Tender Document and Safety Clauses issued for this work

2. DEPLOYMENT OF TRAINED & CERTIFIED WORKERS
We declare that:

a. Only **trained, medically fit, and experienced workers** shall be deployed at site.
b. All workers shall wear **mandatory PPE** including safety helmets, shoes, reflective jackets, gloves, goggles, and harnesses (for height work).
c. No unauthorized person will be allowed inside the hangar or airport premises.

3. WORKING AT HEIGHT / ROOF WORK SAFETY
We affirm that for all height-related works:

a. Only approved **scaffolding** will be used.
b. All workers will wear **full body safety harness** with double lanyard.
c. Roof safety anchorages will be used.
d. No roof work will be performed during rain / strong wind.

4. ELECTRICAL & HOT WORK SAFETY
We confirm that:

a. Only authorized electricians will handle electrical connections.
b. Hot work (welding, cutting, grinding) will be carried out **only after obtaining Hot Work Permit** from AIESL.
c. Adequate firefighting equipment (CO_2, DCP extinguishers) shall be maintained.

5. SITE HOUSEKEEPING AND WASTE DISPOSAL
We declare that:

a. We shall maintain **cleanliness and housekeeping** throughout the execution.
b. All waste (paint cans, debris, glass, metal) will be **disposed daily** as per instructions.
c. No material will obstruct aircraft movement, taxi paths, hangar doors, or fire exits.

6. RESPONSIBILITY FOR DAMAGE OR ACCIDENTS

We undertake:

a. Complete accountability for any damage caused to AIESL property, hangar structure, equipment, aircraft parts, or airport installations due to our operations.
b. Responsibility for any injury/accident to our workers.
c. Prompt reporting of any incident to the AIESL Safety Officer.

7. SAFETY SUPERVISOR & TOOLBOX MEETINGS

We confirm that:

a. A **qualified Safety Supervisor** will be deployed full-time at site.
b. **Daily Toolbox Talks (TBT)** will be conducted and recorded.
c. AIESL may conduct safety audits at any time.

8. EMERGENCY RESPONSE COMPLIANCE

We affirm that:

a. All workers will be trained in emergency procedures, exit routes, and assembly points.
b. At least one worker trained in First Aid will be deployed at all times.

9. ACCEPTANCE OF PENALTIES FOR VIOLATION

We understand that:

c. AIESL may impose penalties, suspend work, or remove workers in case of safety violation.
d. Repeated violations may lead to **termination of contract** and **blacklisting** as per GFR-2017.

10. TRUE DECLARATION

I declare that the above statements are **true and correct**, and I am fully authorized to issue this affidavit on behalf of the firm/company.

Signature of the authorized signatory

Name: _____

Designation: _____

Company Seal: _____

Date: _____

Place: _____

FORM – POWER OF ATTORNEY (PoA)

POWER OF ATTORNEY

Tender No.: AIESL/HYD/PPMM/ENQ/31 Dated 10/11/2026

Name of Work: *Execution of Internal Electrical Wiring, Installation of Split Air Conditioning Units & IT infrastructure at AIESL Engineering Hangar, Begumpet Airport, Hyderabad*

Know all men by these presents that we, **M/s** _____,
a company/partnership/proprietorship registered under the laws of India, having its registered office at:

Address:

---

hereby appoint and authorize:

Mr./Ms. _____,
Designation: _____,
Aadhaar/ID No.: _____,
Mobile No.: _____,
Email: _____,

to act as our Authorized Signatory for the following purposes:

1. PURPOSE OF AUTHORIZATION

To represent and act on behalf of our firm/company **for the tender titled:**

"Execution of Internal Electrical Wiring, Installation of Split Air Conditioning Units & IT infrastructure at AIESL Engineering Hangar, Begumpet Airport, Hyderabad"
Tender No.: AIESL/HYD/PPMM/ENQ/31 Dated 10/11/2026

issued by:

AI Engineering Services Limited (AIESL)
MRO Complex, Shamshabad, Hyderabad – 500108.

2. AUTHORIZED POWERS

The Authorized Signatory is hereby empowered to:

a. Sign and submit the **Technical Bid**, **Financial Bid**, Forms, Annexures, and all tender-related documents.

b. Upload / submit documents and respond to clarifications on GEM.

c. Represent us in all meetings, negotiations, and communications with AIESL.

d. Sign Minutes, Agreements, Acceptance Letters, and provide undertakings as required.

e. Sign all documents related to contract award, PBG submission, and execution of the contract.

All acts done by the Authorized Signatory shall be **binding on our company**.

3. VALIDITY

This Power of Attorney shall remain valid:

f. Until completion of the tender process, OR

g. Until revoked explicitly in writing by us, whichever is later.

4. ACCEPTANCE BY AUTHORIZED SIGNATORY

I, **Mr./Ms. _____**, hereby accept the above authorization and agree to act on behalf of **M/s _____** for the said tender.

Signature of Authorized Signatory:

Name: _____
Designation: _____
Date: _____

5. SIGNATURE OF FIRM / COMPANY

For M/s _____

Authorized Person / Director / Proprietor:
Name: _____
Designation: _____
Signature: _____
Company Seal: _____

Date: _____

6. WITNESSES

Witness	Name	Address	Signature
1			
2			

INDEMNITY BOND

Tender No.: AIESL/HYD/PPMM/ENQ/31 Dated 10/11/2026
Name of Work: *Execution of Internal Electrical Wiring, Installation of Split Air Conditioning Units & IT infrastructure at AIESL Engineering Hangar, Begumpet Airport, Hyderabad*

THIS INDEMMTY BOND is executed on this_____ Day of _____2026, by hereinafter referred to as having, its registered Office at Service Provider (which expression shall unless it be repugnant to the context to the meaning thereof shall be deemed to mean and include its successor and assigns). Whereas (.name of the Service Provider) shall enter into an agreement with M / s. AIESL, a Company hereinafter referred to as "AIESL" incorporated in New Delhi under Companies Act, 1956 having, its Headquarters at AI Engineering Services Ltd (AIESL), 2ND FLOOR, CRA BUILDING, SAFDARJUNG AIRPORT AREA, Safdarjung Air Port, Central Delhi, Delhi, Delhi, India, 110003 (which expression shall unless it be repugnant to the context to the meaning thereof shall be deemed to mean and include its successors and assigns). And whereas the Service Provider by means of an agreement shall complete the subject work at AIESL, Hyderabad as per the annexure: In terms of section 16 of the special terms and conditions specified in the Tender Document AIESL/HYD/PPMM/ENQ/31 Dated 10/11/2026 the Service Provider agrees to undertake to keep AIESL indemnified against any claims I cost / damages and penalties in respect of breach of any Labour Laws both Central and State.

1. In terms of Clause 14 in Special terms and conditions specified in the Tender Document the Service Provider agrees to be responsible for ensuring the compliance of Labour Laws both Central and State especially, but not limited to Employees State Insurance Act,1948 and Workmen's Compensation Act 1923, Employees Provident Funds & Miscellaneous Provisions Act 1952, Payment of Wages Act 1936, Minimum Wages Act, 1938, Contract Labour (Regulations and Abolition) Act, 1970, Employers' Liability Act, 1938, Maternity Benefit Act 1961 and Bombay Labour Welfare Fund Ac| 1953 as applicable from time to time and further shall be solely responsible for any cost and consequences on account of any breach and/ or non compliance of any other provisions of Labour Laws and shall indemnify AIESL against any claim I cost / remedies and penalties in respect of breach of any of the provisions of Laws in force.

2. It is further agreed that the Service Provider shall, within 02 days from the receipt of LOI (letter of intent), obtain Form-V from AIESL and arrange license under Contract Labour (Regulation & Abolition) Act, 1970 issued by the Competent Authority & deposit a copy with AIESL at the time of commencement of the job. ln the event of the Service Provider not be covered by the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 for any reason whatsoever, the Service Provider shall obtain a letter from the concerned labour authorities confirming the same.

3. It is further agreed that the Service Provider shall indemnify AIESL against any claim / s with regard to Minimum Wages Act, Payment of Wages Act, Provident Fund Act, ESI Act, Contract Labour (Regulations & Abolition) Act, Workmen Compensation Act, Bombay Labour Welfare Fund Act, any Acts / Laws prevailing during the validity of the contract applicable to the Service Provider and other emoluments / allowances payable to the workmen deployed by the Service Provider during the validity of the Contract. The Service Provider confirms that all records of payments including Wage Registers / Muster Roll/ Bank Clearance Statements / Overtime incurred penalties and advances if any in respect of the workmen engaged by the Service Provider shall be maintained and produced as and when required by the AIESL and I or any other third-party including Government Agencies / Authorities.

4. All payments shall be made to the workmen deployed by Service Provider on a monthly basis. Attendance register incorporating all details of attendance in respect of the workmen deployed by them is to be maintained. The Bidder shall ensure that the disbursement of wages to the persons deployed / engaged by them shall be made on or before the 7th of the following month. Payments are to be made each month in the presence of a nominated representative of the Management of the company. The signature of the nominated representative shall be obtained on the salary sheets, date of disbursement to be indicated and official stamp to be affixed.

5. The Successful Tenderer shall strictly ensure that Minimum Wages as stipulated by the appropriate Government is paid each month to the workmen deployed by them. The Bidder shall issue salary slips to each of the workmen engaged by them every month in respect of the wages paid. The Bidder sha1l ensure that the workmen deployed by them are granted apaid weekly off This shall be a mandatory compliance.

6. The Service Provider further confirms that necessary ESI / PF payments in respect of the workmen engaged by the Service Provider shall be made during the tenure of the contract within the time schedule as specified under the applicable Acts and further indemnifies AIESL against any claim / claims and liabilities arising out of the contract during the validity of the contract.

7. The Service provider also confirms that the relevant records pertaining to half yearly returns in respect of ESI and Annual returns in respect of PF filed by the service provider shall be submitted to the AIESL from time to time. The Service Provider also undertakes to produce the relevant documents in respect of the various returns and the payments made during the tenure of the contract in

respect of the workmen engaged by the Service Provider before any third party, Government Agency / Authority. The Service Provider also confirms that the Service Provider shall maintain all records relevant to the record of ESI / PF deductions / deposits made and shall produce the same before the AIESL as and when required and / or required by any third party, Government Agency / Authority.

8. The Service Provider hereby indemnifies and agrees to keep the AIESL indemnified, during the period of the contract and even thereafter, to make good any losses, payments, penalties incurred by AIESL on account of non-compliance of whatsoever nature on the part of the Service Provider in the matter of all applicable legislations with regard to his employees deployed on contract awarded to them by the AIESL.

9. We indemnify AIESL and its subsidiaries against any claim from ESI Authorities / PF Authorities and / or any other statutory bodies under various labour laws relating to claim with regard to the workmen deployed. by us. We further indemnify, AIESL and its subsidiaries against any losses that may accrue / occur on account of any vigilance case / s filed / to be filed by ESI Authorities / PF Authorities and I or any other statutory bodies under various labour laws.

10. The Service Provider hereby indemnifies and agrees to keep AIESL indemnified, against any clause elsewhere as referred to in this tender document No. AIESL/HYD/PPMM/ENQ/31 Dated 10/11/2026which specifies so.

Signed, Sealed & Delivered

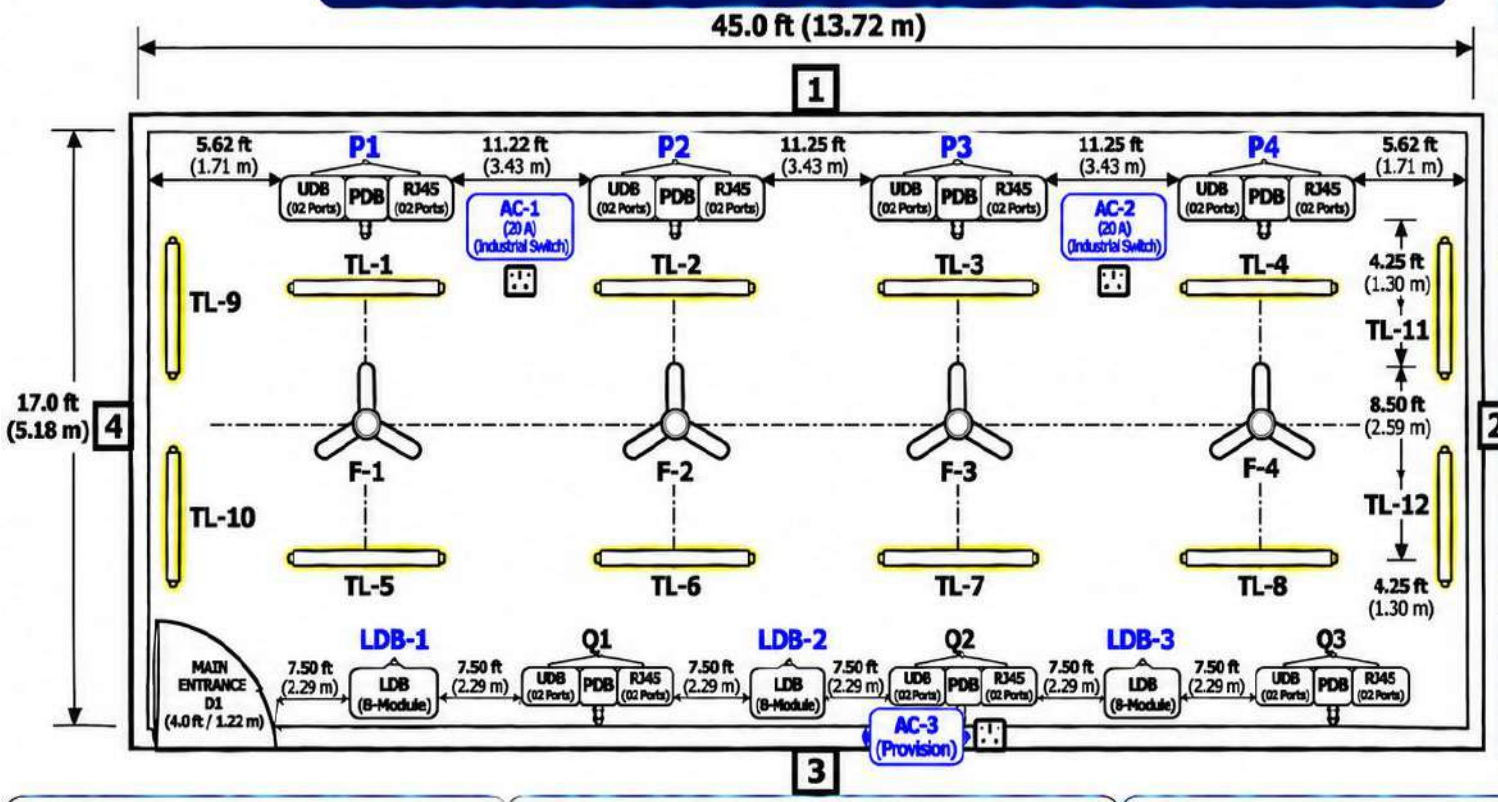
Within the named _____

Through their Director / Proprietor / Representative

Witness: 1)

2)

ELECTRICAL LAYOUT – ROOM No. 1



SWITCH PLATE DETAILS (WITH IMAGES)

UDB – 6-Module Switch Plate (Modified Configuration)



- UDB – Utility Distribution Board
- 6-Module Plate
- Configuration:
  - 2 Nos. Switches
  - 2 Nos. 10 A, 3-Pin Sockets (230 V, 10 A Only)

PDB – 3-Module Switch Plate



- PDB – Power Distribution Board
- 3-Module Plate
- Typical Configuration:
  - 1 No. 20 A Switch/MCB (as required)
  - 2 Nos. Auxiliary Switches (typically)

LDB – 8-Module Switch Plate (with Regulator)



- LDB – Lighting Distribution Board
- 8-Module Plate
- Configuration:
  - 7 Nos. Light Switches
  - 1 No. Fan Regulator (for Ceiling Fan)

Internet – 2-Module Switch Plate



- Data & Voice Connectivity
- 2-Module Plate
- Typical Configuration:
  - 2 Nos. RJ45 Female Jacks (Internet/Data)

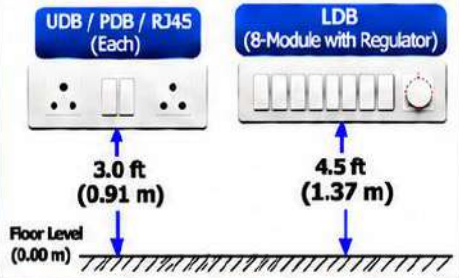
LEGEND (SYMBOLS)

	Ceiling Fan (4 Nos.)
	LED Tubelight (12 Nos.)
UDB (02 Ports) PDB RJ45 (02 Ports)	UDB (Utility Distribution Board) with 02 Ports + PDB (Power Distribution Board) + RJ45 (02 Ports) – Wall Plate Pair
LDB (8-Module with Regulator)	LDB (Lighting Distribution Board) (8-Module with Regulator)
	AC Point – Industrial Switch (20 A)
D1	Main Entrance Door – D1 (4.0 ft / 1.22 m)

KEY DETAILS

Room Size	: 45.0 ft (L) × 17.0 ft (W) (13.72 m × 5.18 m)
Ceiling Fans	: 4 Nos. (F-1 to F-4)
Tube Lights	: 12 Nos. (TL-1 to TL-12)
Wall-1 Plates	: 4 Pairs (P1 to P4) – Each Pair: UDB (02 Ports) + PDB + RJ45 (02 Ports)
Wall-2 Plates	: 1 Pair: UDB (02 Ports) + PDB + RJ45 (02 Ports)
Wall-3 Plates	: 3 Pairs (LDB-1 to LDB-3) – Each Pair: LDB (8-Module with Regulator)
Wall-4 Plates	: 1 Pair: UDB (02 Ports) + PDB + RJ45 (02 Ports)
AC Points	: 3 Nos. (AC-1 & AC-2) – 20 A Industrial Switches + 1 No. (AC-3) – Provision
Main Entrance	: 1 No. (D1) on Wall-3 (Left Side) – 4.0 ft (1.22 m)

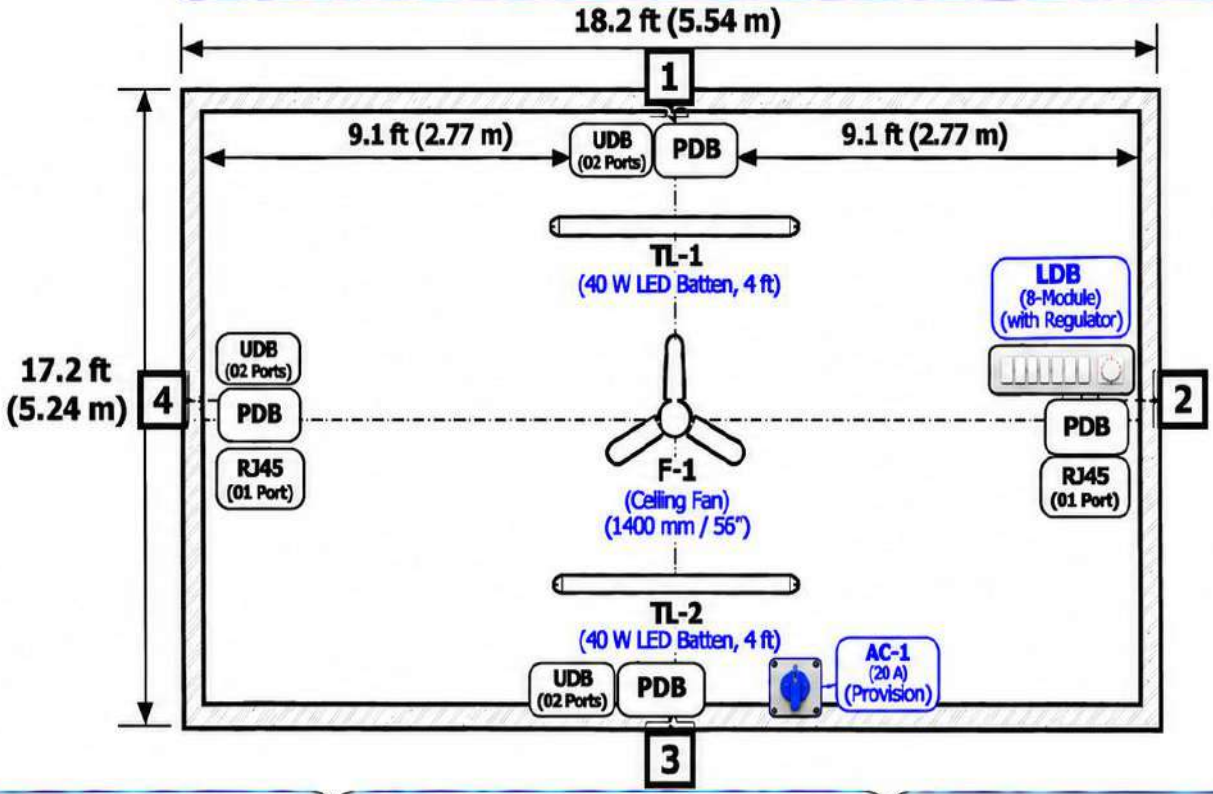
MOUNTING HEIGHT DETAILS (FROM FINISHED FLOOR LEVEL)



NOTES

1. All dimensions are center-to-center.
2. UDB – Utility Distribution Board (2 Switches + 2 × 10 A Sockets).
3. PDB – Power Distribution Board.
4. RJ45 – Data/Voice Outlet (each location with 02 Nos. RJ45 Female Jacks).
5. LDB – Lighting Distribution Board (8-Module Switch Plate) with 1 No. Regulator.
6. AC Points (AC-1 & AC-2): Industrial Switch (20 A, 230 V Ac,
7. Mounting Height (from Finished Floor Level):
   - UDB, PDB & RJ45 : 3.0 ft (0.91 m).
   - LDB. : 4.5 ft (1.37 m).
   - LDB. : 4.5 ft (1.37 m).
8. Wiring, installation and heights to be as per IS 732 (Electrical Wiring Code) and applicable site requirements.

ELECTRICAL LAYOUT – ROOM No. 2 (18.2 ft × 17.2 ft)



SWITCH PLATE DETAILS (WITH IMAGES)

UDB – 6-Module Switch Plate (Modified Configuration)



- UDB – Utility Distribution Board
- 6-Module Plate
- Configuration:
  - 2 Nos. Switches
  - 2 Nos. 10 A, 3-Pin Sockets (230 V, 10 A Only)

PDB – 3-Module Switch Plate



- PDB – Power Distribution Board
- 3-Module Plate
- Typical Configuration:
  - 1 No. 20 A Switch/MCB (as required)
  - 2 Nos. Auxiliary Switches (typically)

LDB – 8-Module Switch Plate (with Regulator)



- LDB – Lighting Distribution Board
- 8-Module Plate
- Configuration:
  - 7 Nos. Light Switches
  - 1 No. Fan Regulator (for Ceiling Fan)

RJ45 Port – Single Port Switch Plate



- Data & Voice Connectivity
- 1-Port Plate
- Typical Configuration:
  - 1 No. RJ45 Female Jack (Internet/Data)

AC Provision – Industrial Switch (20 A)



- AC Provision (For Future Use)
- Industrial Switch – 20 A, 240 V AC, 50/60 Hz
- Mounted on Wall-3

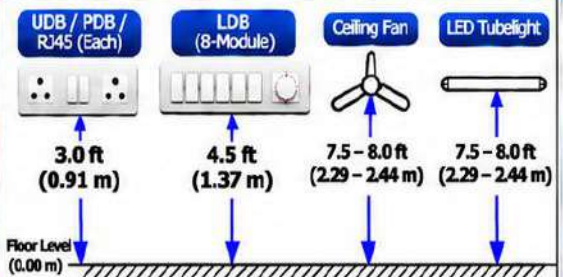
LEGEND (SYMBOLS)

	Ceiling Fan (1 No.)
	LED Tubelight (2 Nos.)
UDB (02 Ports) PDB LDB (8-Module)	UDB (Utility Distribution Board) with 02 Ports + PDB (Power Distribution Board) + LDB (Lighting Distribution Board – 8-Module Switch Plate)
	RJ45 (01 Port)
AC-1 (20 A)	AC Provision – Industrial Switch (20 A) (For Future Use)
D1	Door – D1

KEY DETAILS

Room Size	:	18.2 ft (L) × 17.2 ft (W) (5.54 m × 5.24 m)
Ceiling Fan	:	1 No. (F-1)
Tube Lights	:	2 Nos. (TL-1 & TL-2)
Wall-1 Plates	:	1 Pair: UDB (02 Ports) + PDB
Wall-2 Plates	:	1 Set: LDB (8-Module with Regulator) + PDB + RJ45 (01 Port)
Wall-3 Plates	:	1 Set: UDB (02 Ports) + PDB + AC-1 (20 A Provision)
Wall-4 Plates	:	1 Set: UDB (02 Ports) + PDB + RJ45 (01 Port)
Door	:	1 No. (D1)

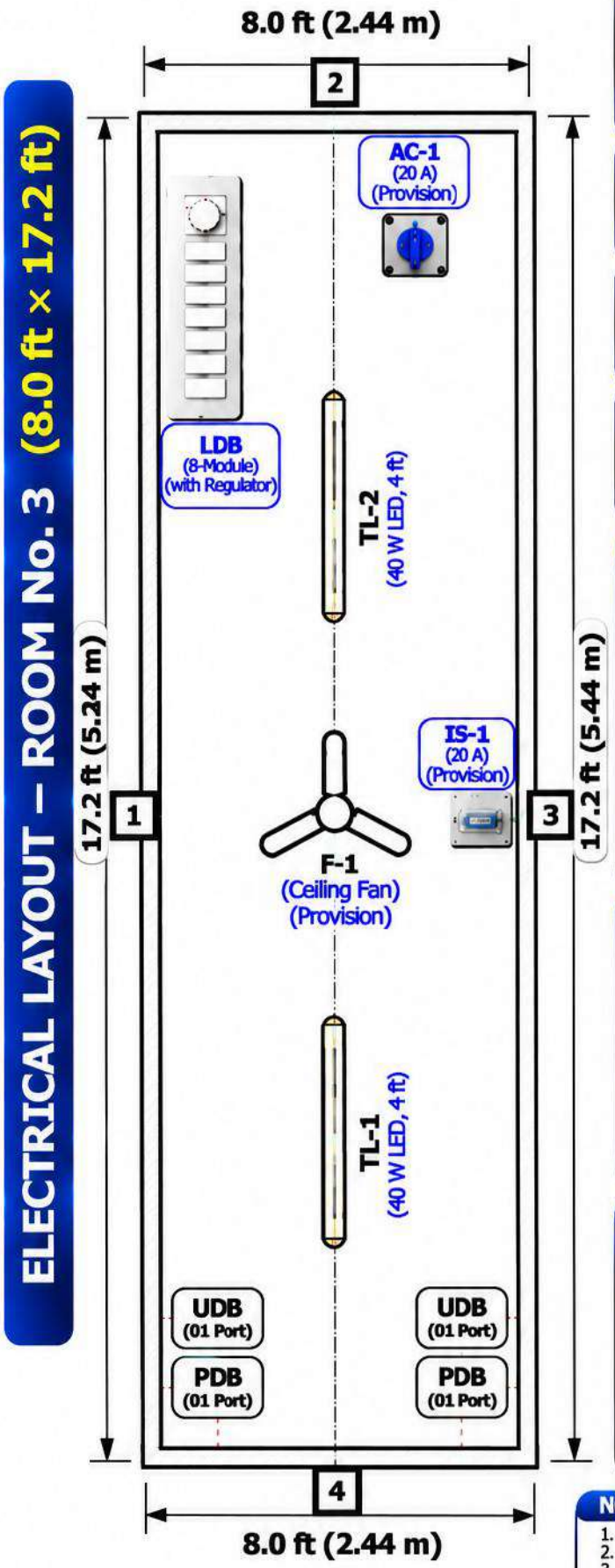
MOUNTING HEIGHT DETAILS (FROM FINISHED FLOOR LEVEL)



NOTES

1. All dimensions are center-to-center.
2. UDB – Utility Distribution Board (02 Ports).
3. PDB – Power Distribution Board.
4. LDB – Lighting Distribution Board (8-Module Switch Plate) with 1 No. Regulator.
5. RJ45 – Data/Voice Outlet (01 Port) on Wall-2 and Wall-4.
6. AC-1 – AC Provision (Industrial Switch – 20 A) on Wall-3 (for future use).
7. Mounting Height (from Finished Floor Level):
   - UDB, PDB & RJ45 : 3.0 ft (0.91 m).
   - LDB. : 4.5 ft (1.37 m).
   - Ceiling Fan : 7.5 – 8.0 ft (2.29 – 2.44 m).
   - LED Tubelight : 7.5 – 8.0 ft (2.29 – 2.44 m).
8. Wiring, installation and heights to be as per IS 732 (Electrical Wiring Code) and applicable site requirements.

ELECTRICAL LAYOUT – ROOM No. 3 (8.0 ft × 17.2 ft)



SWITCH PLATE DETAILS (WITH IMAGES)

LDB – 8-Module Switch Plate (with Regulator)



- LDB – Lighting Distribution Board
- 8-Module Plate
- Configuration:
  - 7 Nos. Switches
  - 1 No. Fan Regulator

UDB – Single Port Plate



- UDB – Utility Distribution Board
- Single Port (16 A, 3-Pin Socket)
- **230 V, 10/16 A**

PDB – Single Port Plate



- PDB – Power Distribution Board
- Single Port (16 A, 3-Pin Socket)
- **230 V, 16 A**

AC Provision – Industrial Switch (20 A)



- AC Provision (For Future Use)
- Industrial Switch – 20 A, 240 V AC, 50/60 Hz
- Mounted on Wall-2

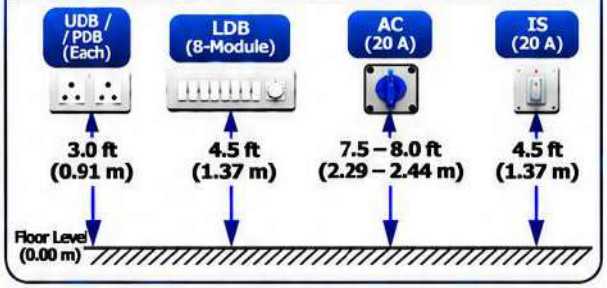
LEGEND (SYMBOLS)

	Ceiling Fan (1 No., Provision)
	LED Tubelight (2 Nos., 40 W, 4 ft)
UDB	Utility Distribution Board (1 No., 3-Pin Socket, 230 V)
PDB	Power Distribution Board (1 No., 3-Pin Socket, 230 V)
LDB	Lighting Distribution Board (8-Module with Regulator) (1 No.)
AC	AC Provision – Industrial Switch (20 A, For Future Use)
IS	Industrial Switch (20 A) (1 No., Provision)

KEY DETAILS

Room Size	: 8.0 ft (W) × 17.2 ft (L) (2.44 m × 5.24 m)
Ceiling Fan	: 1 No. (F-1, Provision)
Tube Lights	: 2 Nos. (TL-1 & TL-2)
UDB Ports	: 2 Nos. (1 No. on Wall-3 + 1 No. on Wall-3)
PDB Ports	: 2 Nos. (1 No. on Wall-3 + 1 No. on Wall-3)
LDB Plate	: 1 Set (8-Module with 1 No. Regulator, on Wall-1)
AC Point	: 1 No. (AC-1, 20 A, Provision on Wall-2)
Industrial Switch	: 1 No. (IS-1, 20 A, Provision on Wall-3)
Mounting Height	: As per table (right)

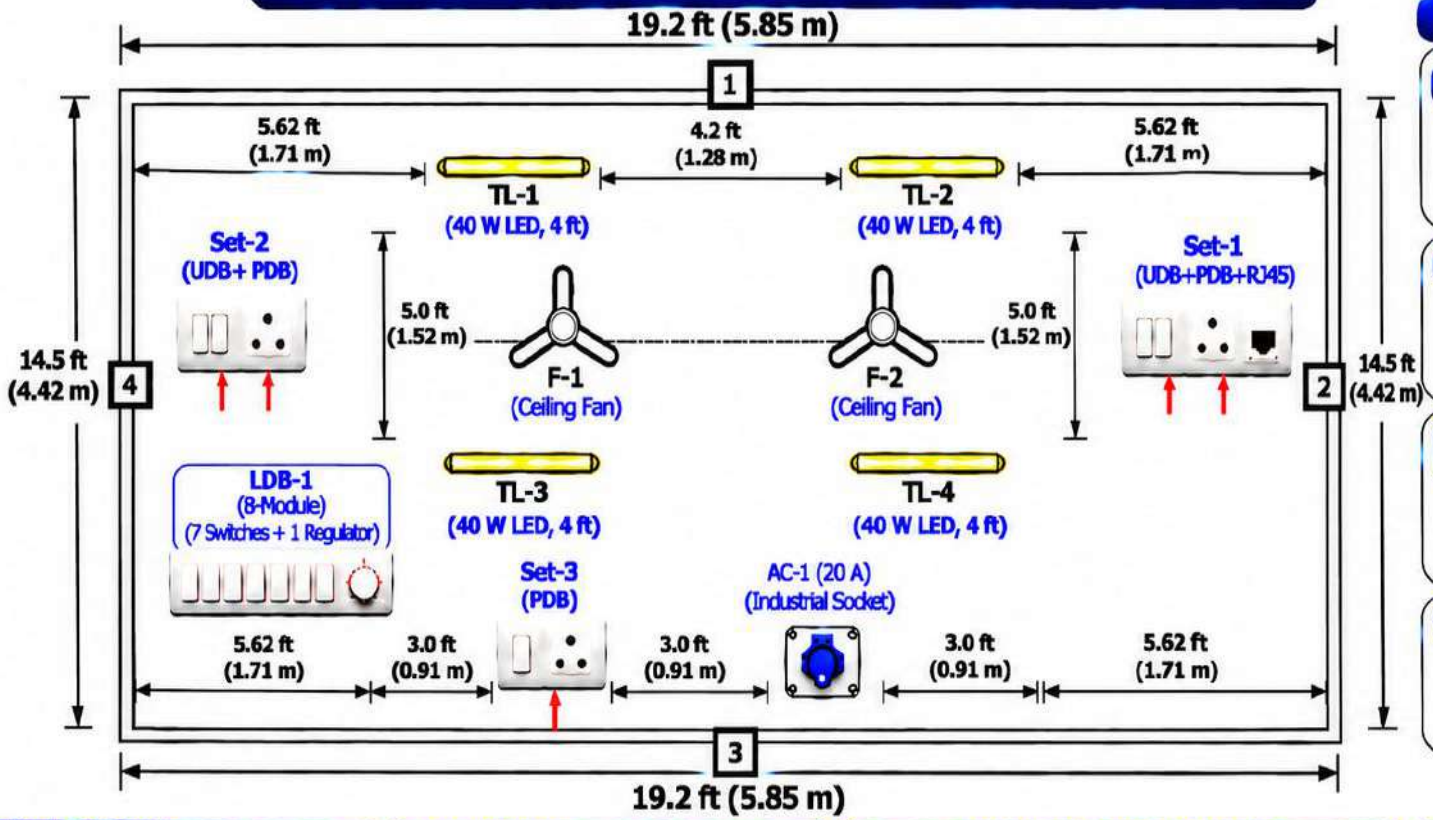
MOUNTING HEIGHT DETAILS (FROM FINISHED FLOOR LEVEL)



NOTES

1. All dimensions are center-to-center.
2. UDB – Utility Distribution Board (2 Nos.).
3. PDB – Power Distribution Board (2 Nos.).
4. LDB – Lighting Distribution Board (8-Module) with 1 No. Regulator.
5. AC – 20 A Industrial Switch (Provision for Future Use).
6. Mounting Heights (from Finished Floor Level):
   - UDB & PDB : 3.0 ft (0.91 m).
   - LDB : 4.5 ft (1.37 m).
   - AC Point : 7.5 – 8.0 ft (2.29 – 2.44 m).
   - IS : 4.5 ft (1.37 m).
7. Wiring, installation and heights to be as per IS 732 (Electrical Wiring Code) and applicable site requirements.

ELECTRICAL LAYOUT – ROOM No. 4



SWITCH PLATE DETAILS (WITH IMAGES)

UDB – 6-Module Switch Plate



- UDB – Utility Distribution Board
- 6-Module Plate
- Configuration:
  - 2 Nos. Switches (10 A)
  - 2 Nos. 10 A Sockets

PDB – 3-Module Switch Plate



- PDB – Power Distribution Board
- 3-Module Plate
- Configuration:
  - 1 No. Switch (10 A)
  - 1 No. 20 A Socket

LDB – 8-Module Switch Plate (with Regulator)



- LDB – Lighting Distribution Board
- 8-Module Plate
- Configuration:
  - 7 Nos. Switches (10 A)
  - 1 No. Fan Regulator

AC – Industrial Socket (20 A)



- AC Point – 20 A, 240 V AC, 50/60 Hz
- Industrial Socket (for AC)

LEGEND (SYMBOLS)



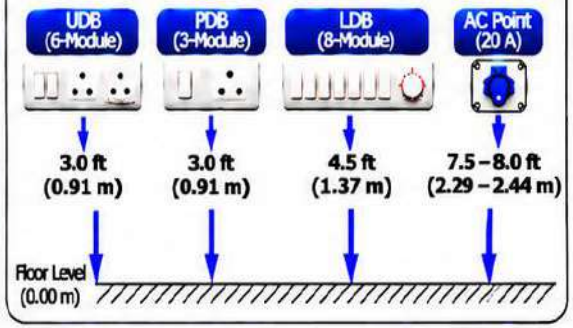
- Ceiling Fan (2 Nos.)
- LED Tubelight (4 Nos.)
- UDB – 6-Module (2 Switches + 2 Sockets, 10 A)
- PDB – 3-Module (1 Switch + 1 Socket, 20 A)
- LDB – 8-Module (7 Switches + 1 Regulator)
- AC Point – Industrial Socket (20 A, 240 V AC)
- RJ45 Port (Data/Voice) – 1 No. (Only at Set-1)

KEY DETAILS

Room Size	:	19.2 ft (L) x 14.5 ft (W) (5.85 m x 4.42 m)
Ceiling Fans	:	2 Nos. (F-1 & F-2)
Tube Lights	:	4 Nos. (TL-1 to TL-4)
Sets (UDB+PDB)	:	2 Nos.
Set-1	:	UDB + PDB + RJ45 (Wall-2)
Set-2	:	UDB + PDB (Wall-4)
Set-3 (PDB only)	:	1 No. (Wall-3)
LDB Plates	:	1 No. (LDB-1 only)
AC Points	:	1 No. (AC-1 – 20 A)
RJ45 Ports	:	1 No. (at Set-1 only)

Total Switch Plates : 4 Nos. (Set-1, Set-2, Set-3 & LDB-1)

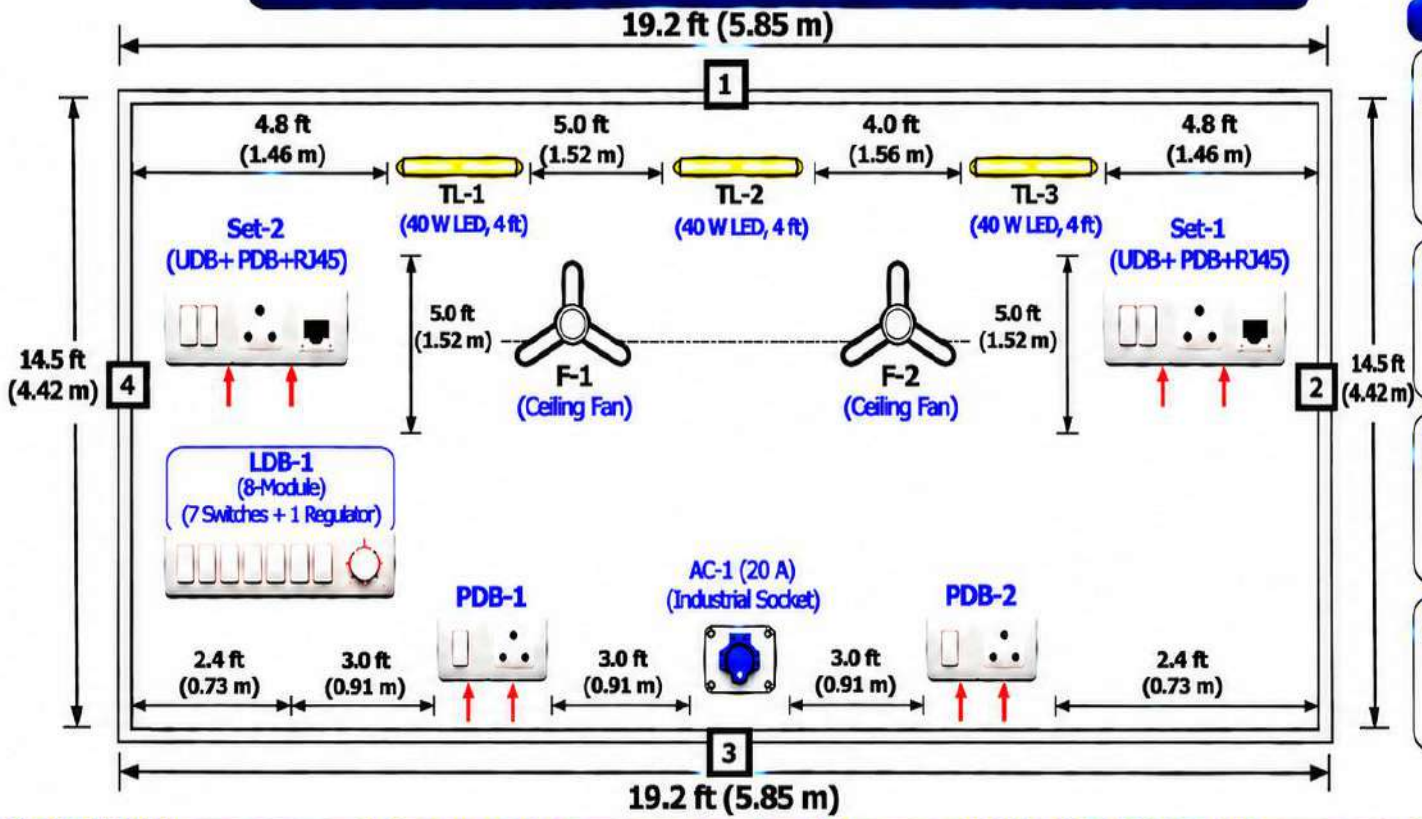
MOUNTING HEIGHT DETAILS (FROM FINISHED FLOOR LEVEL)



NOTES

1. All dimensions are center-to-center.
2. UDB – 6-Module with 2 switches and 2 sockets (10 A).
3. PDB – 3-Module with 1 switch and 1 socket (20 A).
4. LDB – 8-Module with 7 switches (10 A) and 1 fan regulator.
5. AC – 20 A Industrial Socket, 240 V AC, 50/60 Hz.
6. RJ45 (Data/Voice) – 1 No. only at Set-1 (Wall-2).
7. Mounting heights are from finished floor level.
8. Wiring, installation and heights to be as per IS 732 (Electrical Wiring Code) and applicable site requirements.

ELECTRICAL LAYOUT – ROOM No. 5



SWITCH PLATE DETAILS (WITH IMAGES)

UDB – 6-Module Switch Plate



- UDB – Utility Distribution Board
- 6-Module Plate
- Configuration:
  - 2 Nos. Switches (10 A)
  - 2 Nos. 10 A Sockets

PDB – 3-Module Switch Plate



- PDB – Power Distribution Board
- 3-Module Plate
- Configuration:
  - 1 No. Switch (10 A)
  - 1 No. 20 A Socket

LDB – 8-Module Switch Plate (with Regulator)



- LDB – Lighting Distribution Board
- 8-Module Plate
- Configuration:
  - 7 Nos. Switches (10 A)
  - 1 No. Fan Regulator

AC – Industrial Socket (20 A)



- AC Point – 20 A, 240 V AC, 50/60 Hz
- Industrial Socket (for AC)

LEGEND (SYMBOLS)

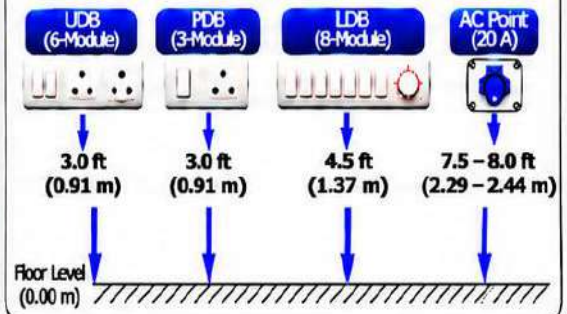


- Ceiling Fan (2 Nos.)
- LED Tubelight (3 Nos.)
- UDB – 6-Module (2 Switches + 2 Sockets, 10 A)
- PDB – 3-Module (1 Switch + 1 Socket, 20 A)
- LDB – 8-Module (7 Switches + 1 Regulator)
- AC Point – Industrial Socket (20 A, 240 V AC)
- RJ45 Port (Data/Voice) – 2 Nos. (One each at Set-1 & Set-2)

KEY DETAILS

Room Size	:	19.2 ft (L) × 14.5 ft (W) (5.85 m × 4.42 m)
Ceiling Fans	:	2 Nos. (F-1 & F-2)
Tube Lights	:	3 Nos. (TL-1 to TL-3)
UDB + PDB + RJ45 Sets	:	2 Nos. (Set-1 & Set-2) (Each Set: 1 UDB + 1 PDB + 1 RJ45)
PDB Plates	:	2 Nos. (PDB-1 & PDB-2)
LDB Plates	:	1 No. (LDB-1 only)
AC Points	:	1 No. (AC-1 – 20 A)
RJ45 Ports	:	2 Nos. (1 at Set-1 & 1 at Set-2)
Total Switch Plates	:	5 Nos. (2 Sets + 2 PDB + 1 LDB)

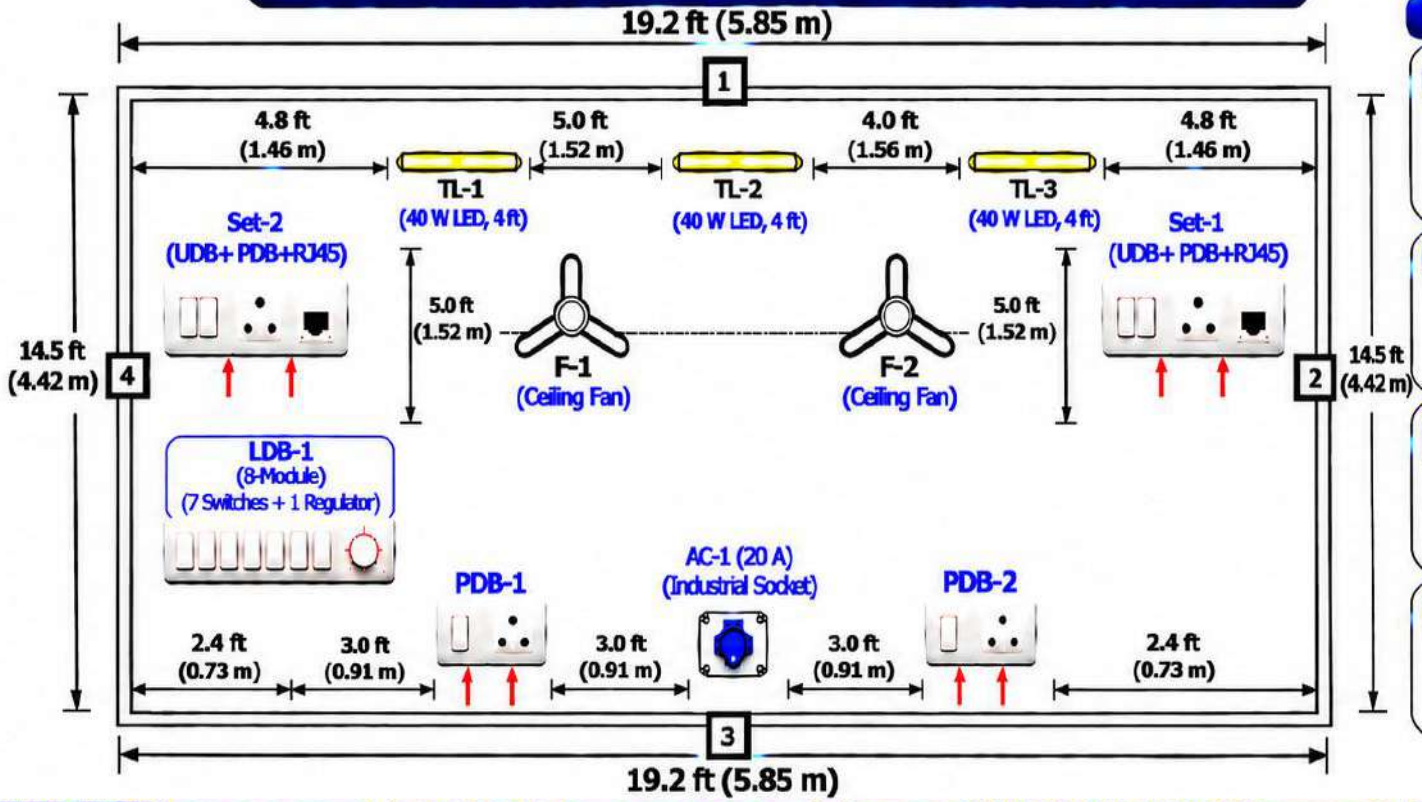
MOUNTING HEIGHT DETAILS (FROM FINISHED FLOOR LEVEL)



NOTES

1. All dimensions are center-to-center.
2. Set-1 & Set-2: Each set comprises 1 UDB (6-Module), 1 PDB (3-Module) and 1 RJ45 (Data/Voice) – UDB & PDB paired.
3. PDB: 2 Nos. (PDB-1 & PDB-2) as per layout.
4. LDB: 1 No. (LDB-1), with 7 switches (10 A) and 1 fan regulator.
5. AC – 20 A Industrial Socket, 240 V AC, 50/60 Hz.
6. Mounting heights are from finished floor level.
7. Wiring, installation and heights to be as per IS 732 (Electrical Wiring Code) and applicable site requirements.

ELECTRICAL LAYOUT – ROOM No. 6



SWITCH PLATE DETAILS (WITH IMAGES)

UDB – 6-Module Switch Plate



- UDB – Utility Distribution Board
- 6-Module Plate
- Configuration:
  - 2 Nos. Switches (10 A)
  - 2 Nos. 10 A Sockets

PDB – 3-Module Switch Plate



- PDB – Power Distribution Board
- 3-Module Plate
- Configuration:
  - 1 No. Switch (10 A)
  - 1 No. 20 A Socket

LDB – 8-Module Switch Plate (with Regulator)



- LDB – Lighting Distribution Board
- 8-Module Plate
- Configuration:
  - 7 Nos. Switches (10 A)
  - 1 No. Fan Regulator

AC – Industrial Socket (20 A)



- AC Point – 20 A, 240 V AC, 50/60 Hz
- Industrial Socket (for AC)

LEGEND (SYMBOLS)

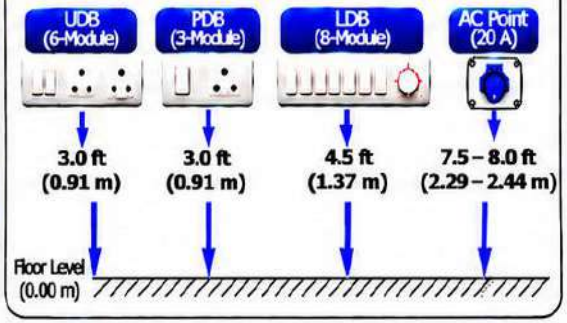


- Ceiling Fan (2 Nos.)
- LED Tubelight (3 Nos.)
- UDB – 6-Module (2 Switches + 2 Sockets, 10 A)
- PDB – 3-Module (1 Switch + 1 Socket, 20 A)
- LDB – 8-Module (7 Switches + 1 Regulator)
- AC Point – Industrial Socket (20 A, 240 V AC)
- RJ45 Port (Data/Voice) – 2 Nos. (One each at Set-1 & Set-2)

KEY DETAILS

Room Size	:	19.2 ft (L) x 14.5 ft (W) (5.85 m x 4.42 m)
Ceiling Fans	:	2 Nos. (F-1 & F-2)
Tube Lights	:	3 Nos. (TL-1 to TL-3)
UDB + PDB + RJ45 Sets	:	2 Nos. (Set-1 & Set-2) (Each Set: 1 UDB + 1 PDB + 1 RJ45)
PDB Plates	:	2 Nos. (PDB-1 & PDB-2)
LDB Plates	:	1 No. (LDB-1 only)
AC Points	:	1 No. (AC-1 – 20 A)
RJ45 Ports	:	2 Nos. (1 at Set-1 & 1 at Set-2)
Total Switch Plates	:	5 Nos. (2 Sets + 2 PDB + 1 LDB)

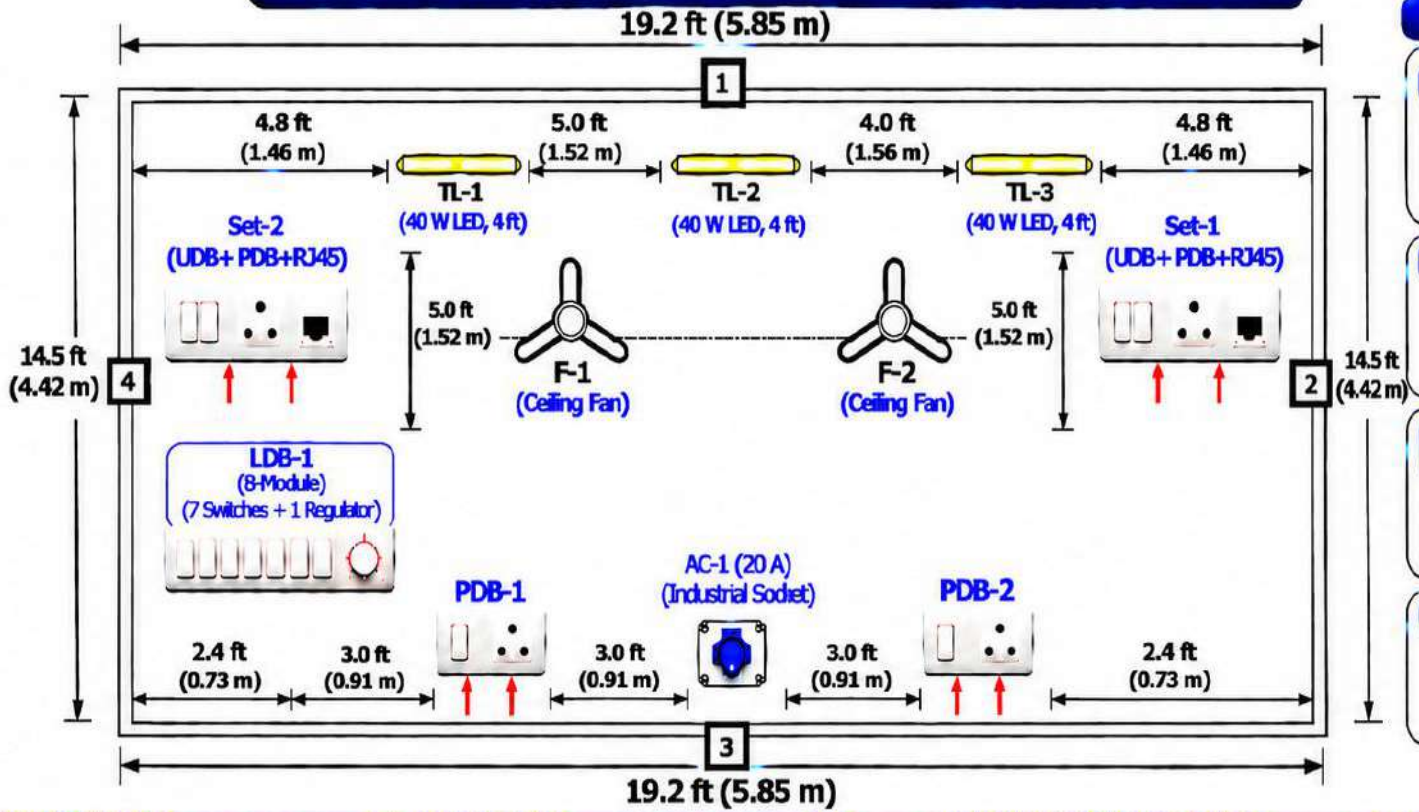
MOUNTING HEIGHT DETAILS (FROM FINISHED FLOOR LEVEL)



NOTES

1. All dimensions are center-to-center.
2. Set-1 & Set-2: Each set comprises 1 UDB (6-Module), 1 PDB (3-Module) and 1 RJ45 (Data/Voice) – UDB & PDB paired.
3. PDB: 2 Nos. (PDB-1 & PDB-2) as per layout.
4. LDB: 1 No. (LDB-1), with 7 switches (10 A) and 1 fan regulator.
5. AC – 20 A Industrial Socket, 240 V AC, 50/60 Hz.
6. Mounting heights are from finished floor level.
7. Wiring, installation and heights to be as per IS 732 (Electrical Wiring Code) and applicable site requirements.

ELECTRICAL LAYOUT – ROOM No. 7



SWITCH PLATE DETAILS (WITH IMAGES)

UDB – 6-Module Switch Plate



- UDB – Utility Distribution Board
- 6-Module Plate
- Configuration:
  - 2 Nos. Switches (10 A)
  - 2 Nos. 10 A Sockets

PDB – 3-Module Switch Plate



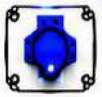
- PDB – Power Distribution Board
- 3-Module Plate
- Configuration:
  - 1 No. Switch (10 A)
  - 1 No. 20 A Socket

LDB – 8-Module Switch Plate (with Regulator)



- LDB – Lighting Distribution Board
- 8-Module Plate
- Configuration:
  - 7 Nos. Switches (10 A)
  - 1 No. Fan Regulator

AC – Industrial Socket (20 A)



- AC Point – 20 A, 240 V AC, 50/60 Hz
- Industrial Socket (for AC)

LEGEND (SYMBOLS)

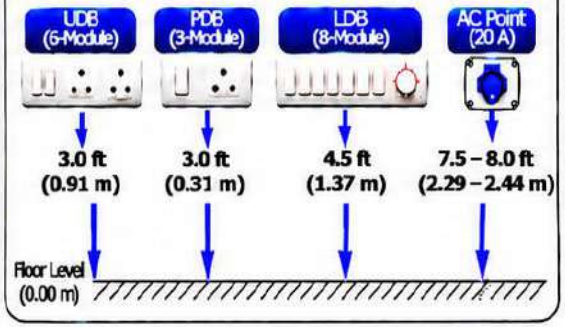


- Ceiling Fan (2 Nos.)
- LED Tubelight (3 Nos.)
- UDB – 6-Module (2 Switches + 2 Sockets, 10 A)
- PDB – 3-Module (1 Switch + 1 Socket, 20 A)
- LDB – 8-Module (7 Switches + 1 Regulator)
- AC Point – Industrial Socket (20 A, 240 V AC)
- RJ45 Port (Data/Voice) – 2 Nos. (One each at Set-1 & Set-2)

KEY DETAILS

Room Size	:	19.2 ft (L) × 14.5 ft (W) (5.85 m × 4.42 m)
Ceiling Fans	:	2 Nos. (F-1 & F-2)
Tube Lights	:	3 Nos. (TL-1 to TL-3)
UDB + PDB + RJ45 Sets	:	2 Nos. (Set-1 & Set-2) (Each Set: 1 UDB + 1 PDB + 1 RJ45)
PDB Plates	:	2 Nos. (PDB-1 & PDB-2)
LDB Plates	:	1 No. (LDB-1 only)
AC Points	:	1 No. (AC-1 – 20 A)
RJ45 Ports	:	2 Nos. (1 at Set-1 & 1 at Set-2)
Total Switch Plates	:	5 Nos. (2 Sets + 2 PDB + 1 LDB)

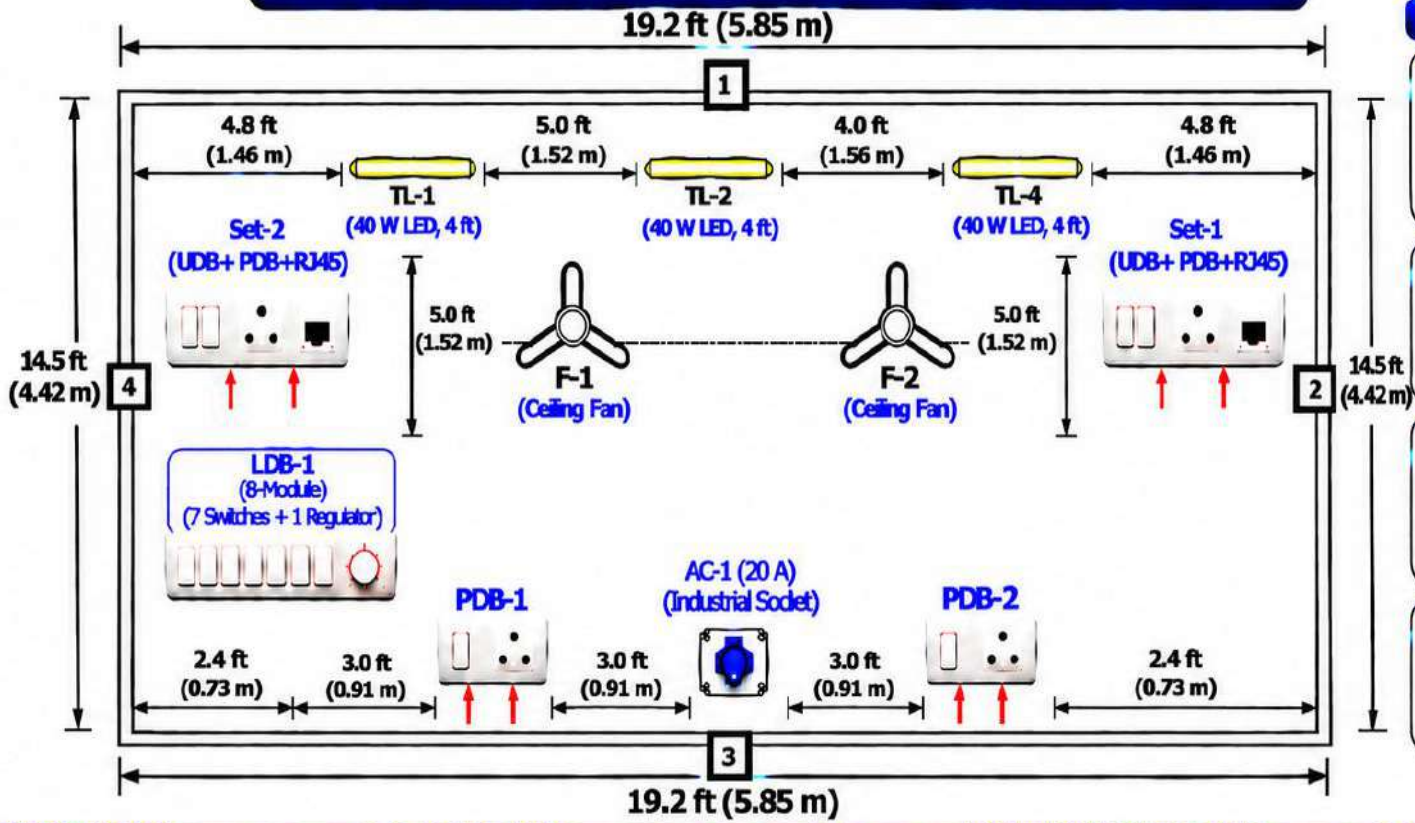
MOUNTING HEIGHT DETAILS (FROM FINISHED FLOOR LEVEL)



NOTES

1. All dimensions are center-to-center.
2. Set-1 & Set-2: Each set comprises 1 UDB (6-Module), 1 PDB (3-Module) and 1 RJ45 (Data/Voice) – UDB & PDB paired.
3. PDB: 2 Nos. (PDB-1 & PDB-2) as per layout.
4. LDB: 1 No. (LDB-1), with 7 switches (10 A) and 1 fan regulator.
5. AC – 20 A Industrial Socket, 240 V AC, 50/60 Hz.
6. Mounting heights are from finished floor level.
7. Wiring, installation and heights to be as per IS 732 (Electrical Wiring Code) and applicable site requirements.

ELECTRICAL LAYOUT – ROOM No. 8



SWITCH PLATE DETAILS (WITH IMAGES)

UDB – 6-Module Switch Plate



- UDB – Utility Distribution Board
- 6-Module Plate
- Configuration:
  - 2 Nos. Switches (10 A)
  - 2 Nos. 10 A Sockets

PDB – 3-Module Switch Plate



- PDB – Power Distribution Board
- 3-Module Plate
- Configuration:
  - 1 No. Switch (10 A)
  - 1 No. 20 A Socket

LDB – 8-Module Switch Plate (with Regulator)



- LDB – Lighting Distribution Board
- 8-Module Plate
- Configuration:
  - 7 Nos. Switches (10 A)
  - 1 No. Fan Regulator

AC – Industrial Socket (20 A)



- AC Point – 20 A, 240 V AC, 50/60 Hz
- Industrial Socket (for AC)

LEGEND (SYMBOLS)

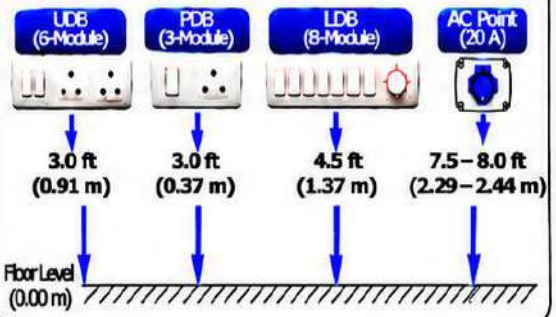


- Ceiling Fan (2 Nos.)
- LED Tubelight (4 Nos.)
- UDB – 6-Module (2 Switches + 2 Sockets, 10 A)
- PDB – 3-Module (1 Switch + 1 Socket, 20 A)
- LDB – 8-Module (7 Switches + 1 Regulator)
- AC Point – Industrial Socket (20 A, 240 V AC)
- RJ45 Port (Data/Voice) – 2 Nos. (One each at Set-1 & Set-2)

KEY DETAILS

Room Size	:	19.2 ft (L) × 14.5 ft (W) (5.85 m × 4.42 m)
Ceiling Fans	:	2 Nos. (F-1 & F-2)
Tube Lights	:	4 Nos. (TL-1 to TL-4)
UDB + PDB + RJ45 Sets	:	2 Nos. (Set-1 & Set-2) (Each Set: 1 UDB + 1 PDB + 1 RJ45)
PDB Plates	:	2 Nos. (PDB-1 & PDB-2)
LDB Plates	:	1 No. (LDB-1 only)
AC Points	:	1 No. (AC-1 – 20 A)
RJ45 Ports	:	2 Nos. (1 at Set-1 & 1 at Set-2)
Total Switch Plates	:	5 Nos. (2 Sets + 2 PDB + 1 LDB)

MOUNTING HEIGHT DETAILS (FROM FINISHED FLOOR LEVEL)

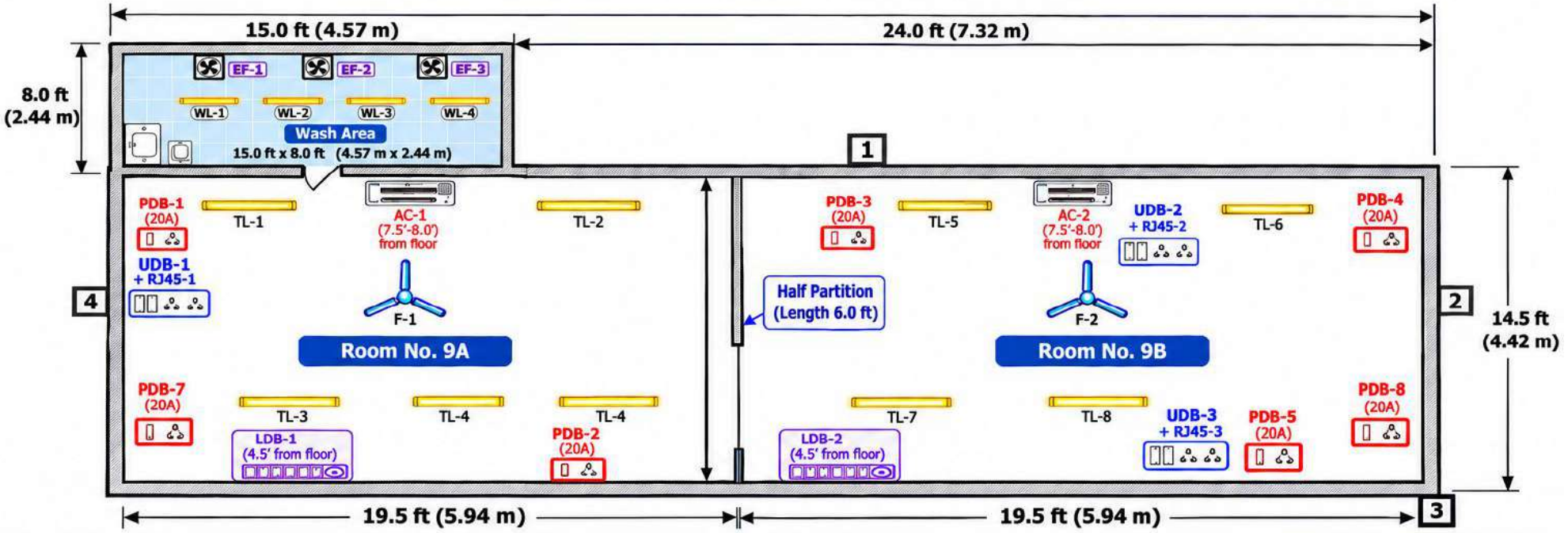


NOTES

1. All dimensions are center-to-center.
2. Set-1 & Set-2: Each set comprises 1 UDB (6-Module), 1 PDB (3-Module) and 1 RJ45 (Data/Voice) – UDB & PDB paired.
3. PDB: 2 Nos. (PDB-1 & PDB-2) as per layout.
4. LDB: 1 No. (LDB-1), with 7 switches (10 A) and 1 fan regulator.
5. AC – 20 A Industrial Socket, 240 V AC, 50/60 Hz.
6. Mounting heights are from finished floor level.
7. Wiring, installation and heights to be as per IS 732 (Electrical Wiring Code) and applicable site requirements.

ELECTRICAL LAYOUT – Room No. 9A & 9B

Total Room Length = 39.0 ft (11.89 m) (Including Wash Area)



LEGEND

- = Tube Light Point (TL) – 8 Nos. (Wash Area Light Point (WL) – 4 Nos.)
- = Ceiling Fan Point (F) – 2 Nos.
- = AC Point with 20A Industrial Switch – 2 Nos.
- = **PDB – 1 Switch + 1 Socket (20A) – 10 Nos. (20A Power Point)**
- = UDB – 6 Module (2 Switches + 2 Sockets (10A)) – 4 Nos.
- = LDB – 8 Module (with 1 Fan Regulator) – 2 Nos.
- = RJ45 – Single-Port Female Jack – 4 Nos. (Paired with UDBs)
- = Exhaust Fan Point (EF) – 3 Nos. (in Wash Area)

MOUNTING HEIGHTS

UDB & PDB	:	3 ft (0.91 m) from floor level
LDB	:	**4.5 ft** (1.37 m) from floor level
AC	:	7.5 ft – 8 ft (2.29 m – 2.44 m) from floor level

QUANTITY SUMMARY

- **UDB** : 4 Nos. (6-module plates: 2 switches + 2 sockets (10A) each)
- **PDB** : 10 Nos. (1 switch + 1 socket (20A))
- **RJ45** : 4 Nos. (single-port female jacks, paired with UDBs)
- **LDB** : 2 Nos. (8-module plates with 1 fan regulator)
- **TL (Room)** : 8 Nos. (TL-1 to TL-8)
- **WL (Wash)** : 4 Nos. (WL-1 to WL-4)
- **EF (Wash)** : 3 Nos. (EF-1 to EF-3)

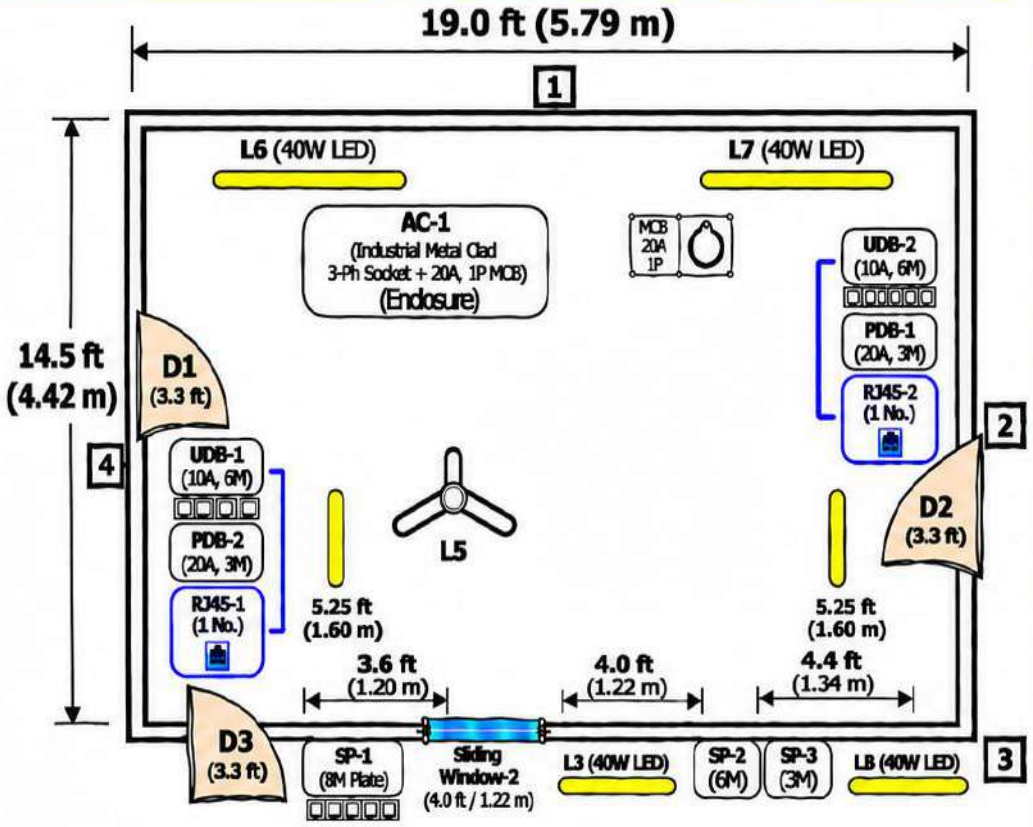
WALL REFERENCE

1	Wall 1 (Top) – Total length 39.0 ft (Including wash area)
2	Wall 2 (Right)
3	Wall 3 (Bottom)
4	Wall 4 (Left)

NOTES:

- All dimensions are in feet (meters in brackets).
- Electrical points are shown at indicative locations.
- Mounting heights are from floor level to centre of device.
- AC points to be provided with 20A industrial switch.
- LDBs provided with 1 fan regulator each.
- UDBs are 6-module plates with 2 switches + 2 sockets (10A) each.
- PDBs are 1 switch + 1 socket (20A) each.
- RJ45 jack to be provided at each UDB location (4 Nos.).
- Wash Area: 4 Nos. light points (WL-1 to WL-4) and 3 Nos. exhaust fans (EF-1 to EF-3).

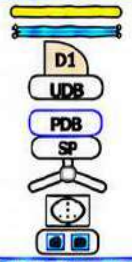
ELECTRICAL LAYOUT - ROOM NO. 10A



LAYOUT DETAILS

Room Size (L x W x H)	**19.0 ft x 14.5 ft x 9 ft (5.79 m x 4.42 m x 2.74 m)**
Attached Washroom	– (Not Provided)
Wall Identification	1 – Top Wall, 2 – Right Wall, 3 – Bottom Wall, 4 – Left Wall
Lighting	8 Nos. (40 W LED Batten) (L3, L6, L7 & LB)
Ceiling Fan	2 Nos. (1400 mm / 56") – L5 & CF
AC Point	1 No. (Industrial Metal Clad 3-Ph Socket + 20A, 1P MCB) – On Wall-1
Door	3 Nos. – D1 (On Wall-4), D2 (On Wall-2) & D3 (On Wall-3) (each 3.3 ft)
UDB (Utility DB)	2 Nos. (6 Modular Plate) – On Wall-2 and On Wall-4 (Each with 10A Switch & 10A Socket)
PDB (Power DB)	2 Nos. (3 Modular Plate) – On Wall-2 and On Wall-4 (Each with 20A Switch & 20A Socket)
RJ45 (LAN)	2 Nos. (RJ45 Ports) – RJ45-1 (1 No.) Paired to UDB-1 & PDB-2 – RJ45-2 (1 No.) Paired to UDB-2 & PDB-1
Switch Plate (SP)	3Nos. – 8 Modular (SP-1) on Wall-3, 6 Modular (SP-2) on Wall-3 and 3 Modular (SP-3) on Wall-3
Window	1 No. Sliding Window – On Wall-3 (4.0 ft / 1.22 m)

LEGEND



- LED Batten Light (4 ft, 40 W)
- Sliding Window (4 ft)
- Door with Opening Direction
- UDB – Utility Distribution Board (6 Modular Plate) (10A Switch & 10A Socket, 5 Pin with Shutter)
- PDB – Power Distribution Board (3 Modular Plate) (20A Switch & 20A Socket, 5 Pin with Shutter)
- SP – Switch Plate (8M / 6M / 3M)
- CF – Ceiling Fan (1400 mm / 56")
- AC Point – Industrial Metal Clad 3-Ph Socket with 20A, 1P MCB (Enclosure)
- RJ45 – LAN Data Outlet (RJ45 Port)

KEY NOTES

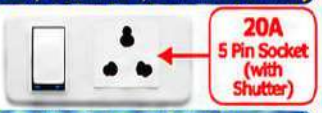
1. Total Battens: 8 Nos. (40 W each) – L3, L6, L7 & LB.
2. Ceiling Fans: 2 Nos. (1400 mm / 56") – L5 & CF.
3. Doors: 3 Nos. – D1 (Wall-4), D2 (Wall-2) & D3 (Wall-3) (each 3.3 ft).
4. AC Point: 1 No. (Industrial Metal Clad 3-Ph Socket + 20A, 1P MCB)
5. UDB: 2 Nos. (6 Modular Plate) – On Wall-2 and Wall-4 (Each with 10A Switch & 10A Socket, 5 Pin with Shutter)
6. PDB: 2 Nos. (3 Modular Plate) – On Wall-2 and Wall-4 (Each with 20A Switch & 20A Socket, 5 Pin with Shutter)
7. RJ45: 2 Nos. – RJ45-1 (1 No.) Paired to UDB-1 & PDB-2; RJ45-2 (1 No.) Paired to UDB-2 & PDB-1
8. Sliding Window: 1 No. – On Wall-3 (4.0 ft / 1.22 m).

SWITCH PLATE DETAILS (WITH IMAGES)

UDB – 6 Modular Switch Plate (Utility Distribution Board)
(Switch: 10A, Socket: 10A, 5 Pin with Shutter)



PDB – 3 Modular Switch Plate (Power Distribution Board)
(Switch: 20A, Socket: 20A, 5 Pin with Shutter)



SP – 8 Modular Switch Plate (Switch Plate)



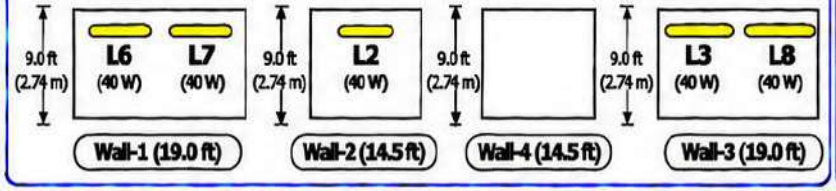
RJ45 – Data Outlet (LAN Port)



AC Point – Industrial Metal Clad (3-Ph Socket + 20A, 1P MCB)



WALL ELEVATIONS (LIGHTING PLACEMENT)

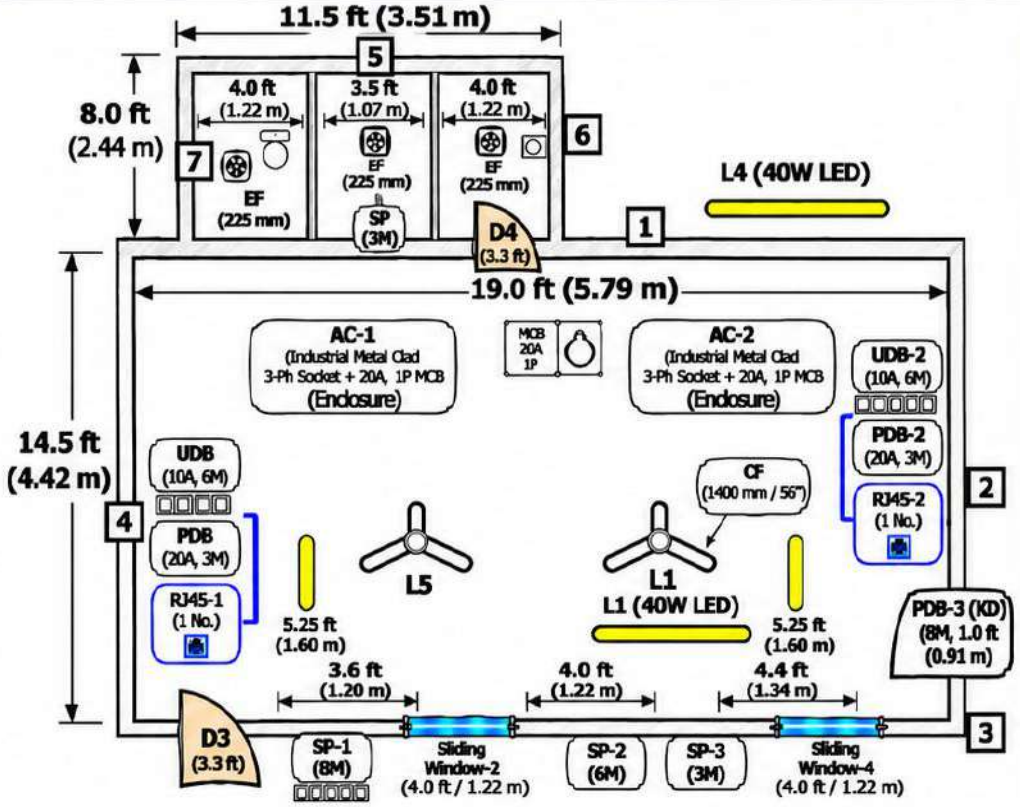


MOUNTING HEIGHT DETAILS (From Finished Floor Level)

Equipment	Height
UDB / PDB / SP	3.0 ft (0.91 m)
AC Point	7.5 ft (2.29 m)
LED Batten (Wall)	7.5 ft (2.29 m)
Ceiling Fan (C/L)	9.0 ft (2.34 m)
RJ45 (LAN)	3.0 ft (0.91 m)

TITLE : ELECTRICAL LAYOUT – ROOM NO. 10A (GM/DGM) | SCALE : NTS | UNITS : ft (m) | DRAWING No.: EL-01 | REV.: 0

ELECTRICAL LAYOUT - ROOM NO. 10B



LAYOUT DETAILS

Room Size (L x W x H)	19.0 ft x 14.5 ft x 9 ft (5.79 m x 4.42 m x 2.74 m)
Attached Washroom	11.5 ft x 8.0 ft (3.51 m x 2.44 m)
Wall Identification	1 – Top Wall, 2 – Right Wall, 3 – Bottom Wall, 4 – Left Wall
Lighting	4 Nos. (40 W LED Batten) (L1, L4 & L5)
Ceiling Fan	2 Nos. (1400 mm / 56 ") – L1 & L5
AC Point	2 Nos. (Industrial Metal Clad 3-Ph Socket + 20A, 1P MCB) – On Wall-1
Door	2 Nos. – D3 (On Wall-4) & D4 (Washroom – On Wall-1)
UDB (Utility DB)	2 Nos. (6 Modular Plate) – On Wall-2 and On Wall-4 (Each with 10A Switch & 10A Socket)
PDB (Power DB)	2 Nos. (3 Modular Plate) – On Wall-2 and On Wall-4 (Each with 20A Switch & 20A Socket)
RJ45 (LAN)	2 Nos. (RJ45 Ports) – RJ45-1 (1 No.) Paired to UDB-1 & PDB-2 – RJ45-2 (1 No.) Paired to UDB-2 & PDB-1
Switch Plate (SP)	3 Nos. – 8 Modular (SP-1) on Wall-3, 6 Modular (SP-2) on Wall-3 and 3 Modular (SP-3) on Wall-3
Window	2 Nos. Sliding Windows – On Wall-3 (4.0 ft / 1.22 m each)
Washroom Partitions	2 Nos. (3.5 ft (L) x 4.0 ft (W)) – Inside attached washroom

LEGEND

- LED Batten Light (4 ft, 40 W)
- Sliding Window (4 ft)
- Door with Opening Direction
- UDB – Utility Distribution Board (6 Modular Plate)
- PDB – Power Distribution Board (3 Modular Plate)
- Switch Plate (8M / 6M / 3M)
- CF – Ceiling Fan (1400 mm / 56")
- AC Point – Industrial Metal Clad 3-Ph Socket with 20A, 1P MCB (Enclosure)
- RJ45 – LAN Data Outlet (RJ45 Port)
- EF – Exhaust Fan (225 mm)

KEY NOTES

1. Total Battens: 4 Nos. (40 W each) – L1, L4 & L5.
2. Ceiling Fans: 2 Nos. (1400 mm / 56 ") – L1 & L5.
3. Doors: 2 Nos. – D3 (Wall-4) & D4 (Washroom – Wall-1).
4. AC Points: 2 Nos. (Industrial Metal Clad 3-Ph Socket + 20A, 1P MCB) – On Wall-1.
5. UDB: 2 Nos. (6 Modular Plate) – On Wall-2 and Wall-4 (Each with 10A Switch & 10A Socket, 5 Pin with Shutter).
6. PDB: 2 Nos. (3 Modular Plate) – On Wall-2 and Wall-4 (Each with 20A Switch & 20A Socket, 5 Pin with Shutter).
7. RJ45: 2 Nos. – RJ45-1 (1 No.) Paired to UDB-1 & PDB-2; RJ45-2 (1 No.) Paired to UDB-2 & PDB-1.
8. Sliding Windows: 2 Nos. – On Wall-3 (4.0 ft / 1.22 m each).
9. Attached Washroom: 11.5 ft (L) x 8.0 ft (W) with 2 partitions (3.5 ft (L) x 4.0 ft (W) each) and Exhaust Fans (225 mm).

SWITCH PLATE DETAILS (WITH IMAGES)

UDB – 6 Modular Switch Plate (Utility Distribution Board)
(Switch: 10A, Socket: 10A, 5 Pin with Shutter)



PDB – 3 Modular Switch Plate (Power Distribution Board)
(Switch: 20A, Socket: 20A, 5 Pin with Shutter)



SP – 8 Modular Switch Plate (Switch Plate)



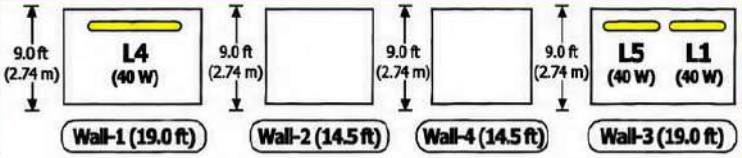
RJ45 – Data Outlet (LAN Port)



AC Point – Industrial Metal Clad (3-Ph Socket + 20A, 1P MCB)



WALL ELEVATIONS (LIGHTING PLACEMENT)

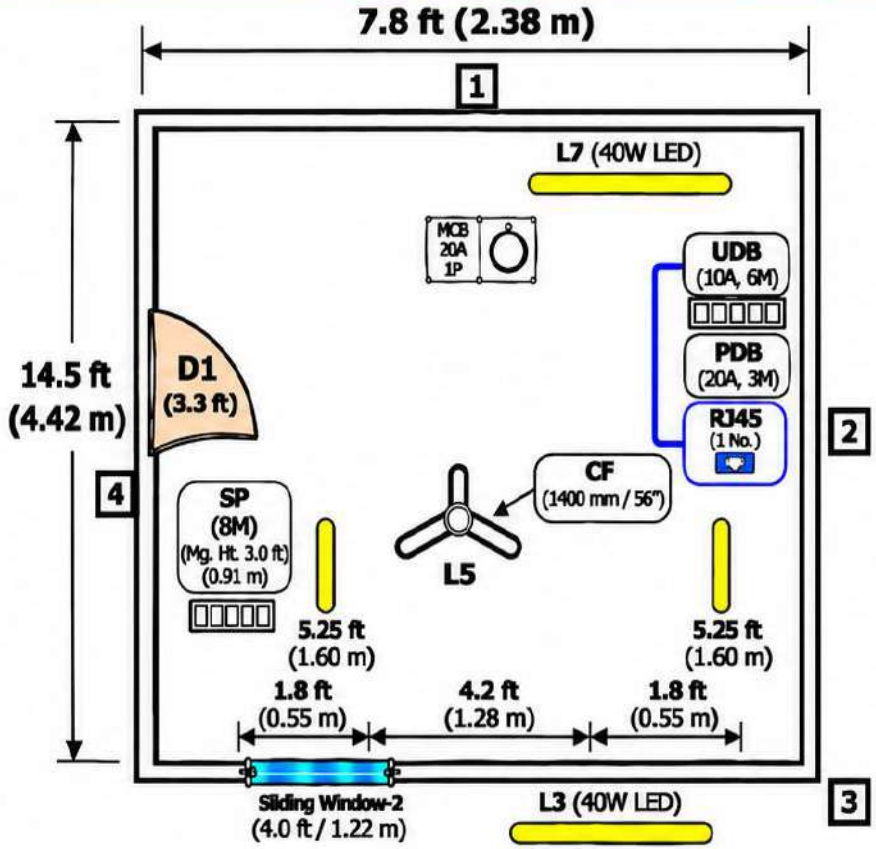


MOUNTING HEIGHT DETAILS (From Finished Floor Level)

Equipment	Height
UDB / PDB / SP	3.0 ft (0.91 m)
AC Point	7.5 ft (2.29 m)
LED Batten (Wall)	7.5 ft (2.29 m)
Ceiling Fan (C/L)	9.0 ft (2.34 m)
RJ45 (LAN)	3.0 ft (0.91 m)

TITLE : ELECTRICAL LAYOUT – ROOM NO. 10B (GM/DGM) | SCALE : NTS | UNITS : ft (m) | DRAWING No.: EL-01 | REV.: 0

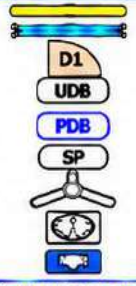
ELECTRICAL LAYOUT - ROOM NO. 10C



LAYOUT DETAILS

Room Size (L x W x H)	**7.8 ft x 14.5 ft x 9 ft** (2.38 m x 4.42 m x 2.74 m)
Attached Washroom	– (Not Provided)
Wall Identification	1 – Top Wall, 2 – Right Wall, 3 – Bottom Wall, 4 – Left Wall
Lighting	2 Nos. (40 W LED Batten) (L3 & L7)
Ceiling Fan	1 No. (1400 mm / 56") – L5
AC Point	1 No. (Industrial Metal Clad 3-Ph Socket + 20A, 1P MCB) – On Wall-1
Door	1 No. – D1 (On Wall-4) (3.3 ft)
UDB (Utility DB)	1 No. (6 Modular Plate) – On Wall-2 (Each with 10A Switch & 10A Socket)
PDB (Power DB)	1 No. (3 Modular Plate) – On Wall-2 (Each with 20A Switch & 20A Socket)
RJ45 (LAN)	1 No. (RJ45 Port) – Paired to UDB & PDB (On Wall-2)
Switch Plate (SP)	1 No. (8 Modular Plate) – On Wall-4
Window	1 No. Sliding Window – On Wall-3 (4.0 ft / 1.22 m)

LEGEND



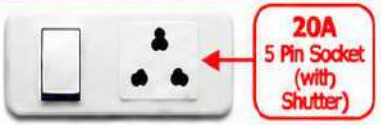
- LED Batten Light (4 ft, 40 W)
- Sliding Window (4 ft)
- Door with Opening Direction
- UDB – Utility Distribution Board (10A Switch & 10A Socket, 6 Modular Plate)
- PDB – Power Distribution Board (20A Switch & 20A Socket, 3 Modular Plate)
- SP – Switch Plate (8 Modular)
- CF – Ceiling Fan (1400 mm / 56")
- AC Point – Industrial Metal Clad 3-Ph Socket with 20A, 1P MCB (Enclosure)
- RJ45 – LAN Data Outlet (RJ45 Port)

SWITCH PLATE DETAILS (WITH IMAGES)

UDB – 6 Modular Switch Plate (Utility Distribution Board)
(Switch: 10A, Socket: 10A, 5 Pin with Shutter)



PDB – 3 Modular Switch Plate (Power Distribution Board)
(Switch: 20A, Socket: 20A, 5 Pin with Shutter)



SP – 8 Modular Switch Plate (Switch Plate)



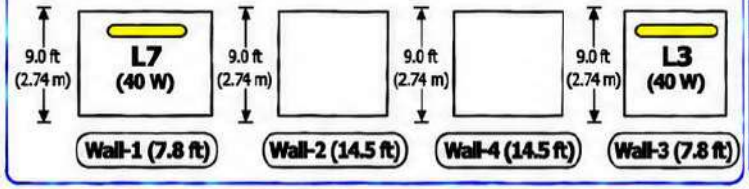
AC Point – Industrial Metal Clad (3-Ph Socket + 20A, 1P MCB)



RJ45 – Data Outlet (LAN Port)



WALL ELEVATIONS (LIGHTING PLACEMENT)



MOUNTING HEIGHT DETAILS (From Finished Floor Level)

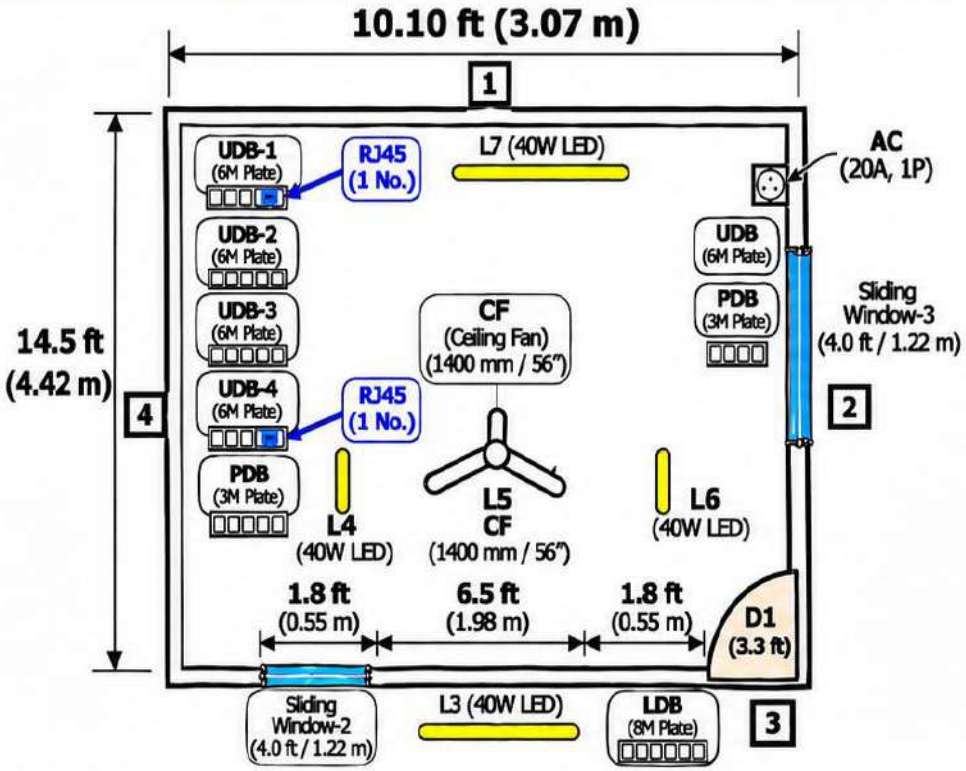
Equipment	Height
UDB / PDB / SP	3.0 ft (0.91 m)
AC Point	7.5 ft (2.29 m)
LED Batten (Wall)	7.5 ft (2.29 m)
Ceiling Fan (C/L)	9.0 ft (2.34 m)
RJ45 (LAN)	3.0 ft (0.91 m)

KEY NOTES

1. Total Battens: 2 Nos. (40 W each) – L3 & L7.
2. Ceiling Fan: 1 No. (1400 mm / 56") – L5.
3. Door: 1 No. – D1 (Wall-4) (3.3 ft).
4. AC Point: 1 No. (Industrial Metal Clad 3-Ph Socket + 20A, 1P MCB) – On Wall-1.
5. UDB: 1 No. (6 Modular Plate) – On Wall-2 (Each with 10A Switch & 10A Socket).
6. PDB: 1 No. (3 Modular Plate) – On Wall-2 (Each with 20A Switch & 20A Socket).
7. RJ45: 1 No. – Paired to UDB & PDB (On Wall-2).
8. Switch Plate: 1 No. (8 Modular) – On Wall-4.
9. Sliding Window: 1 No. – On Wall-3 (4.0 ft / 1.22 m).
10. Room Size: 7.8 ft (L) x 14.5 ft (W) x 9 ft (H); Total lighting load: 80 W.

TITLE : ELECTRICAL LAYOUT – ROOM NO. 10C (RR) | SCALE : NTS | UNITS : ft (m) | DRAWING No.: EL-01 | REV.: 0

ELECTRICAL LAYOUT - ROOM NO. 11



LAYOUT DETAILS

Room Size (L x W x H)	**10.10 ft x 14.5 ft x 9 ft (3.07 m x 4.42 m x 2.74 m)**
Attached Washroom	– (Not Provided)
Wall Identification	1 – Top Wall, 2 – Right Wall, 3 – Bottom Wall, 4 – Left Wall
Lighting	3 Nos. (40 W LED Batten) (L3, L4 & L6)
Ceiling Fan	1 No. (1400 mm / 56") – L5
AC Point	1 No. (Industrial Metal Clad 3-Ph Socket + 20A, 1P MCB) – On Wall-2
Door	1 No. – D1 (On Wall-3 & Wall-2 Corner) (3.3 ft)
UDB (Utility DB)	5 Nos. (6 Modular Plate) – 4 Nos. on Wall-4 & 1 No. on Wall-2
PDB (Power DB)	2 Nos. (3 Modular Plate) – 1 No. on Wall-4 & 1 No. on Wall-2
LDB (Lighting DB)	1 No. (8 Modular Plate) – On Wall-3
Window	2 Nos. Sliding Windows – Window-2 (On Wall-3), Window-3 (On Wall-2) (Each 4.0 ft / 1.22 m)

LEGEND



- LED Batten Light (4 ft, 40 W)
- Sliding Window (4 ft)
- Door with Opening Direction
- UDB – Utility Distribution Board (6 Modular Plate)
- PDB – Power Distribution Board (3 Modular Plate)
- LDB – Lighting Distribution Board (8 Modular Plate)
- CF – Ceiling Fan (1400 mm / 56")
- AC Point – Industrial Metal Clad 3-Ph Socket with 20A, 1P MCB (Enclosure)
- RJ45 – Data Outlet (LAN Port)

SWITCH PLATE DETAILS (WITH IMAGES)

UDB – 6 Modular Switch Plate (Utility Distribution Board)



PDB – 3 Modular Switch Plate (Power Distribution Board)



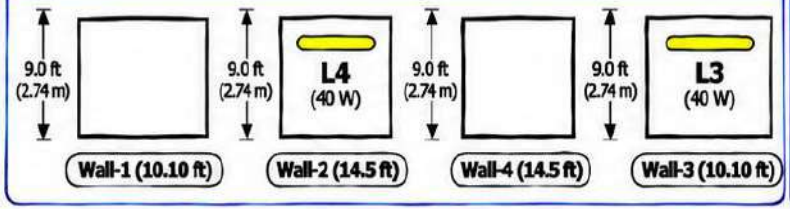
LDB – 8 Modular Switch Plate (Lighting Distribution Board)



AC Point – Industrial Metal Clad (3-Ph Socket + 20A, 1P MCB)



WALL ELEVATIONS (LIGHTING PLACEMENT)



MOUNTING HEIGHT DETAILS (From Finished Floor Level)

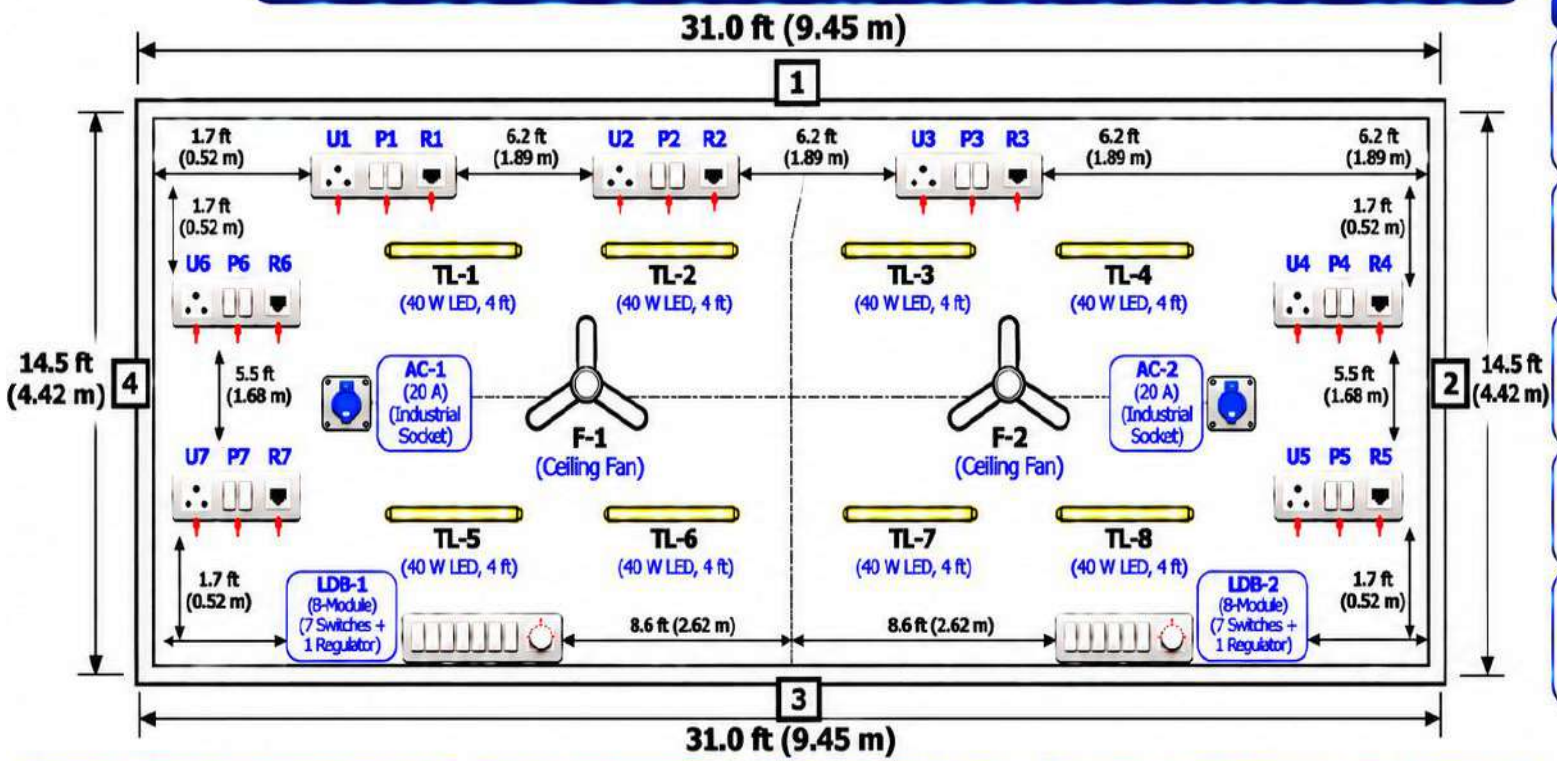
Equipment	Height
UDB / PDB / LDB	3.0 ft (0.91 m)
Switch Plate (SP)	3.0 ft (0.91 m)
AC Point	7.5 ft (2.29 m)
LED Batten (Wall)	7.5 ft (2.29 m)
LDB	4.5 ft (1.37 m)
Ceiling Fan (C/L)	9.0 ft (2.34 m)

KEY NOTES

1. Total Battens: 3 Nos. (40 W each) – L3, L4 & L6.
2. Lights provided on Wall-1 and Wall-3.
3. Sliding Windows – 2 Nos. on Wall-3 (Window-2) and Wall-2 (Window-3) (4.0 ft each).
4. Door : 1 No. – D1 (at Wall-3 & Wall-2 Corner) (3.3 ft).
5. AC Point : 1 No. on Wall-2 (Industrial Metal Clad 3-Ph Socket + 20A, 1P MCB).
6. RJ45 Ports : 2 Nos. – 1 No. paired with UDB-1 and 1 No. paired with UDB-4 (Data / LAN).

TITLE : ELECTRICAL LAYOUT – ROOM NO. 11 (IT) | SCALE : NTS | UNITS : ft (m) | DRAWING No.: EL-01 | REV.: 0

ELECTRICAL LAYOUT – ROOM No. 12 (31.0 ft × 14.5 ft)



SWITCH PLATE DETAILS (WITH IMAGES)

LDB – 8-Module Switch Plate (with Regulator)



- LDB – Lighting Distribution Board
- 8-Module Plate
- Configuration:
  - 7 Nos. Switches
  - 1 No. Fan Regulator

UDB – 6-Module Switch Plate



- UDB – Utility Distribution Board
- 6-Module Plate
- Configuration:
  - 2 Nos. Switches
  - 2 Nos. 10 A, 3-Pin Sockets (230 V, 10 A)

PDB – 3-Module Switch Plate



- PDB – Power Distribution Board
- 3-Module Plate
- Configuration:
  - 1 No. Switch
  - 1 No. 20 A Socket (230 V, 20 A)

RJ45 Port – Single Port Plate



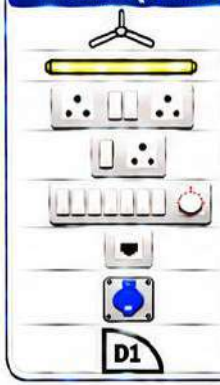
- Data & Voice Connectivity 1-Port Plate
- 1 No. RJ45 Female Jack (Internet/Data)

AC – Industrial Socket (20 A)



- AC Point – 20 A, 240 V AC, 50/60 Hz
- Industrial Socket (for AC)

LEGEND (SYMBOLS)

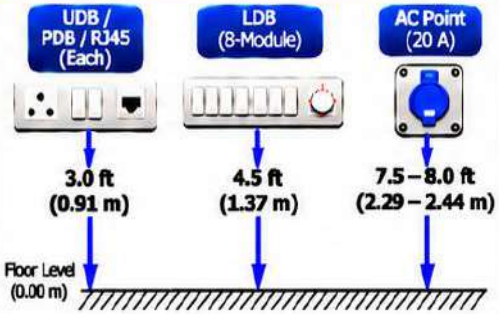


- Ceiling Fan (2 Nos.)
- LED Tubelight (8 Nos.)
- UDB – 6-Module (2 Switches + 2 x 10 A Sockets)
- PDB – 3-Module (1 Switch + 1 x 20 A Socket)
- LDB – 8-Module (7 Switches + 1 Regulator)
- RJ45 – Single Port Jack
- AC Point – Industrial Socket (20 A, 240 V AC)
- Door – D1

KEY DETAILS

Room Size	:	31.0 ft (L) × 14.5 ft (W) (9.45 m × 4.42 m)
Ceiling Fans	:	2 Nos. (F-1 & F-2)
Tube Lights	:	8 Nos. (TL-1 to TL-8)
LDB Plates	:	2 Nos. (LDB-1 & LDB-2) (8-Module, 7 Switches + 1 Regulator)
UDB Plates	:	10 Nos. (U1 to U10)
PDB Plates	:	10 Nos. (P1 to P10)
RJ45 Ports	:	10 Nos. (R1 to R10) (Single Port, Paired with each UDB & PDB)
AC Points	:	2 Nos. (AC-1 & AC-2) (20 A Industrial Socket)
Total Switch Plates	:	22 Nos. (2 LDB + 10 UDB + 10 PDB)
Door	:	1 No. (D1)

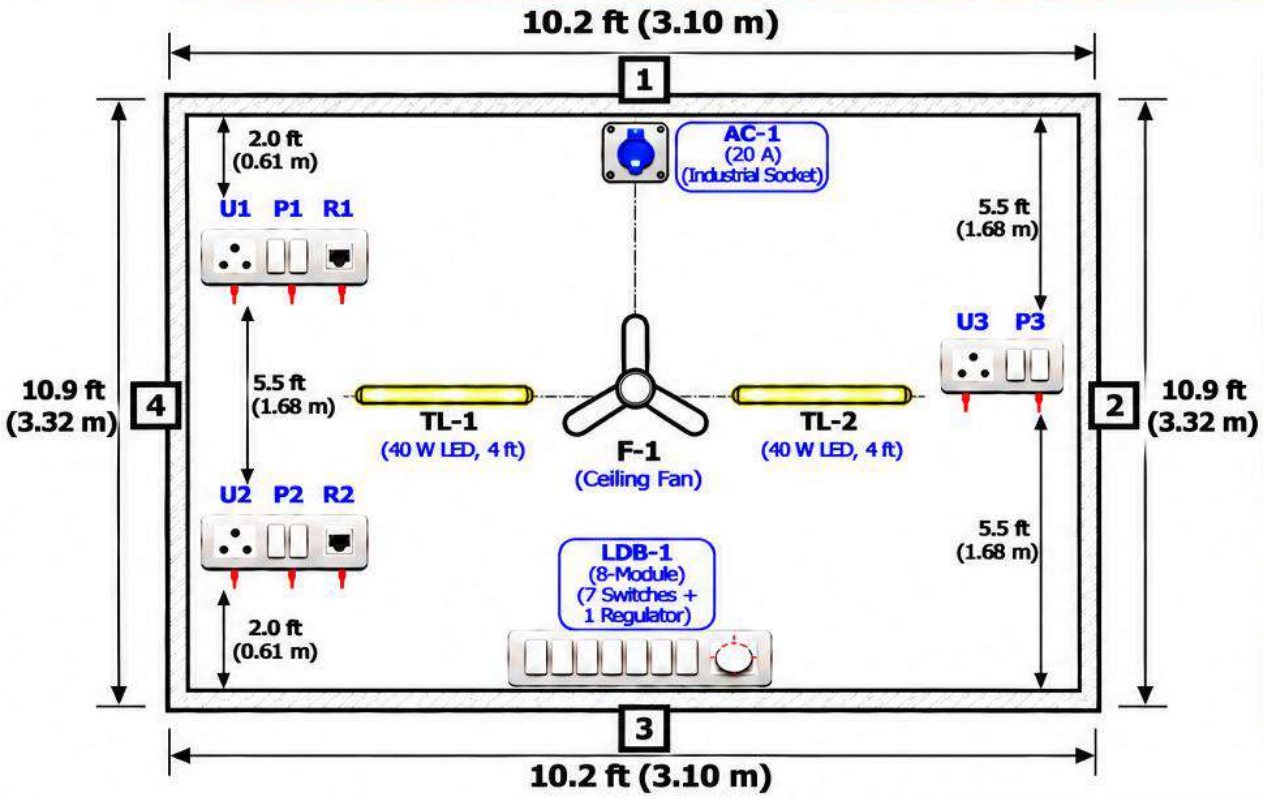
MOUNTING HEIGHT DETAILS
(FROM FINISHED FLOOR LEVEL)



NOTES

1. All dimensions are center-to-center.
2. UDB, PDB and RJ45 (R1 & R2) are provided in pairs (U1/P1/R1 to U10/P10/R10).
3. Total Quantity: LDB – 2 Nos., UDB – 10 Nos., PDB – 10 Nos., RJ45 – 10 Nos., AC – 2 Nos., Tube Lights – 8 Nos., Fan – 2 Nos.
4. LDB – 8-Module with 7 Switches and 1 Fan Regulator.
5. UDB – 6-Module with 2 Switches and 2 × 10 A Sockets.
6. PDB – 3-Module with 1 Switch and 1 × 20 A Socket.
7. AC – 20 A Industrial Socket, 240 V AC, 50/60 Hz.
8. Mounting heights are from finished floor level.
9. Wiring, installation and heights to be as per IS 732 (Electrical Wiring Code) and applicable site requirements.

ELECTRICAL LAYOUT – ROOM No. 13 (10.2 ft × 10.9 ft)



SWITCH PLATE DETAILS (WITH IMAGES)

UDB – 8-Module Switch Plate (with Regulator)



- LDB – Lighting Distribution Board
- 8-Module Plate
- Configuration:
  - 7 Nos. Switches
  - 1 No. Fan Regulator

UDB – 6-Module Switch Plate (with RJ45)



- UDB – Utility Distribution Board
- 6-Module Plate
- Configuration:
  - 2 Nos. Switches
  - 2 Nos. 10 A Sockets
  - 1 No. RJ45 Jack (Internet/Data)

PDB – 3-Module Switch Plate



- PDB – Power Distribution Board
- 3-Module Plate
- Configuration:
  - 1 No. Switch
  - 1 No. 20 A Socket (230 V, 20 A)

AC – Industrial Socket (20 A)



- AC Point – 20 A, 240 V AC, 50/60 Hz
- Industrial Socket (for AC)

RJ45 Port – Single Port Plate



- RJ45 – Data & Voice Connectivity
- 1-Port Plate
- 1 No. RJ45 Female Jack (Internet/Data)

LEGEND (SYMBOLS)


Ceiling Fan (1 No.)


LED Tubelight (2 Nos.)


UDB – 6-Module (2 Switches + 2 × 10 A Sockets + 1 × RJ45 Jack)


PDB – 3-Module (1 Switch + 1 × 20 A Socket)


LDB – 8-Module (7 Switches + 1 Regulator)

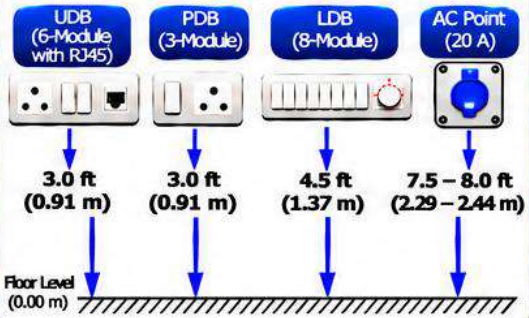

AC Point – Industrial Socket (20 A, 240 V AC)

KEY DETAILS

Room Size	:	10.2 ft (L) × 10.9 ft (W) (3.10 m × 3.32 m)
Ceiling Fan	:	1 No. (F-1)
Tube Lights	:	2 Nos. (TL-1 & TL-2)
LDB Plate	:	1 No. (LDB-1, 8-Module, 7 Switches + 1 Regulator)
UDB Plates	:	3 Nos. (U1, U2 & U3)
PDB Plates	:	3 Nos. (P1, P2 & P3)
RJ45 Ports	:	2 Nos. (R1 & R2 – paired with UDBs)
AC Point	:	1 No. (AC-1, 20 A Industrial Socket)
Total Switch Plates	:	7 Nos. (1 LDB + 3 UDB + 3 PDB)

MOUNTING HEIGHT DETAILS

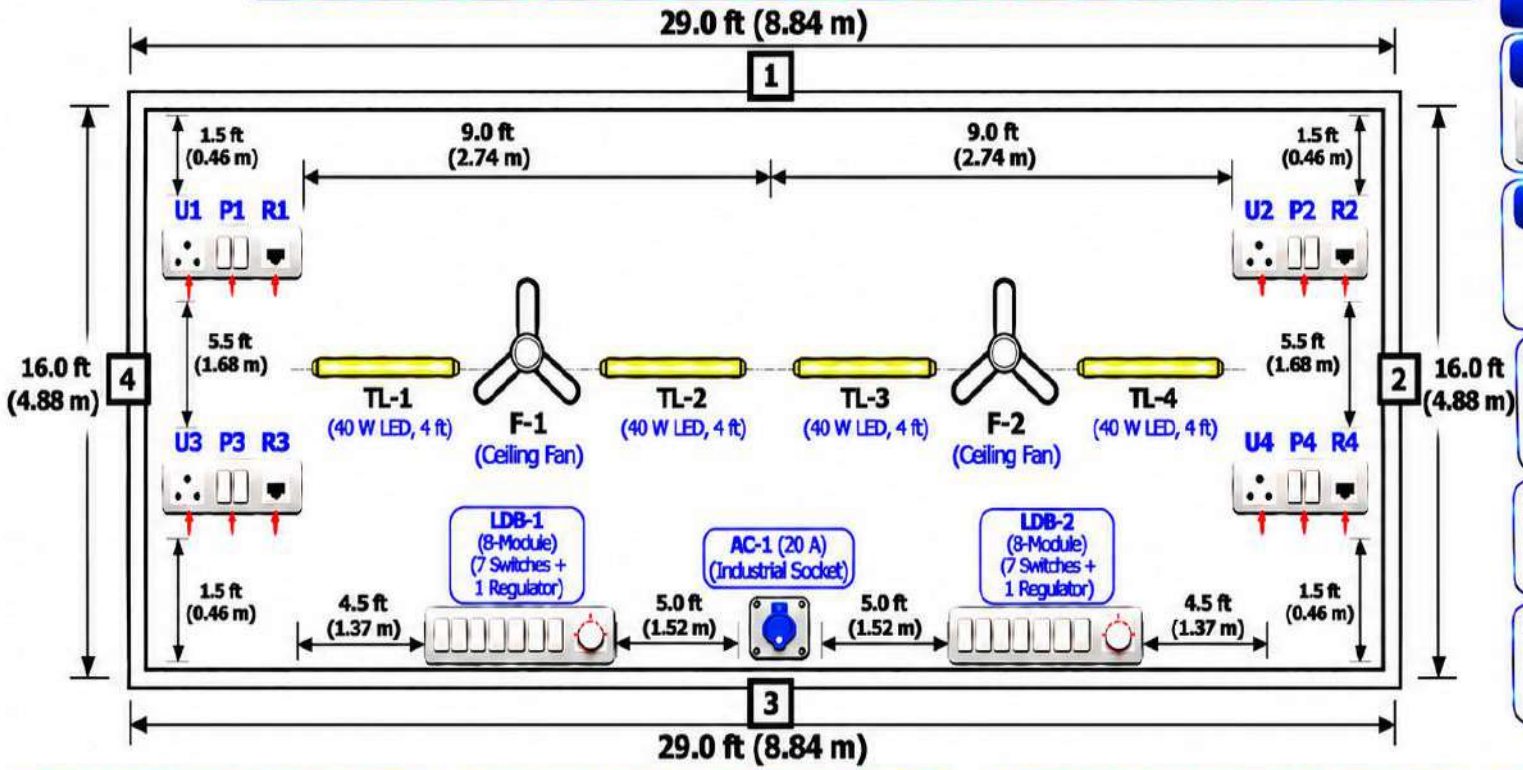
(FROM FINISHED FLOOR LEVEL)



NOTES

1. All dimensions are center-to-center.
2. UDB, PDB and RJ45 (R1 & R2) are provided in pairs (U1/P1/R1 and U2/P2/R2) on Wall-4.
3. One pair (U3/P3) is provided on Wall-2.
4. AC Point (AC-1) is provided on Wall-1.
5. Total Quantity: LDB – 1 No., UDB – 3 Nos., PDB – 3 Nos., RJ45 – 2 Nos., AC – 1 No., Tube Lights – 2 Nos., Fan – 1 No.
6. LDB – 8-Module with 7 Switches and 1 Fan Regulator.
7. UDB – 6-Module with 2 Switches + 2 × 10 A Sockets + 1 × RJ45 Jack.
8. PDB – 3-Module with 1 Switch and 1 × 20 A Socket.
9. AC – 20 A Industrial Socket, 240 V AC, 50/60 Hz.
10. Mounting heights are from finished floor level.
11. Wiring, installation and heights to be as per IS 732 (Electrical Wiring Code) and applicable site requirements.

ELECTRICAL LAYOUT – ROOM No. 14 (29.0 ft × 16.0 ft)



SWITCH PLATE DETAILS (WITH IMAGES)

LDB – 8-Module Switch Plate (with Regulator)



- LDB – Lighting Distribution Board
- 8-Module Plate
- Configuration:
  - 7 Nos. Switches
  - 1 No. Fan Regulator

UDB – 6-Module Switch Plate (with RJ45)



- UDB – Utility Distribution Board
- 6-Module Plate
- Configuration:
  - 2 Nos. Switches
  - 2 Nos. 10 A Sockets
  - 1 No. RJ45 Jack (Internet/Data)

PDB – 3-Module Switch Plate



- PDB – Power Distribution Board
- 3-Module Plate
- Configuration:
  - 1 No. Switch
  - 1 No. 20 A Socket (230 V, 20 A)

RJ45 Port – Single Port Plate



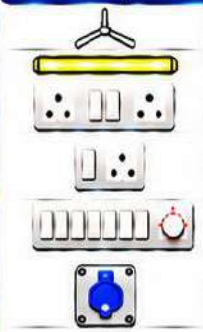
- RJ45 – Data & Voice Connectivity 1-Port Plate
- 1 No. RJ45 Female Jack (Internet/Data)

AC – Industrial Socket (20 A)



- AC Point – 20 A, 240 V AC, 50/60 Hz
- Industrial Socket (for AC)

LEGEND (SYMBOLS)

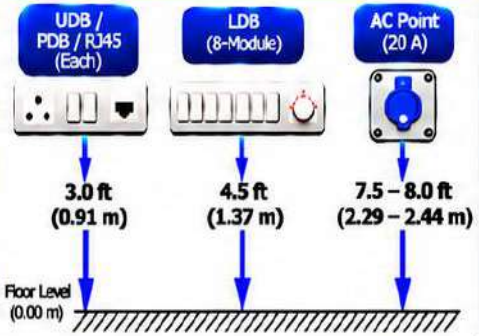


- Ceiling Fan (2 Nos.)
- LED Tubelight (4 Nos.)
- UDB – 6-Module (2 Switches + 2 × 10 A Sockets) + 1 × RJ45 Jack)
- PDB – 3-Module (1 Switch + 1 × 20 A Socket)
- LDB – 8-Module (7 Switches + 1 Regulator)
- AC Point – Industrial Socket (20 A, 240 V AC)

KEY DETAILS

Room Size	:	29.0 ft (L) × 16.0 ft (W) (8.84 m × 4.88 m)
Ceiling Fans	:	2 Nos. (F-1 & F-2)
Tube Lights	:	4 Nos. (TL-1 to TL-4)
LDB Plates	:	2 Nos. (LDB-1 & LDB-2) (8-Module, 7 Switches + 1 Regulator)
UDB Plates	:	4 Nos. (U1, U2, U3 & U4) (6-Module, 2 Switches + 2 × 10 A Sockets)
PDB Plates	:	4 Nos. (P1, P2, P3 & P4) (3-Module, 1 Switch + 1 × 20 A Socket)
RJ45 Ports	:	4 Nos. (R1, R2, R3 & R4) (Single Port, Paired with each UDB & PDB)
AC Point	:	1 No. (AC-1, 20 A Industrial Socket)
Total Switch Plates	:	10 Nos. (2 LDB + 4 UDB + 4 PDB)

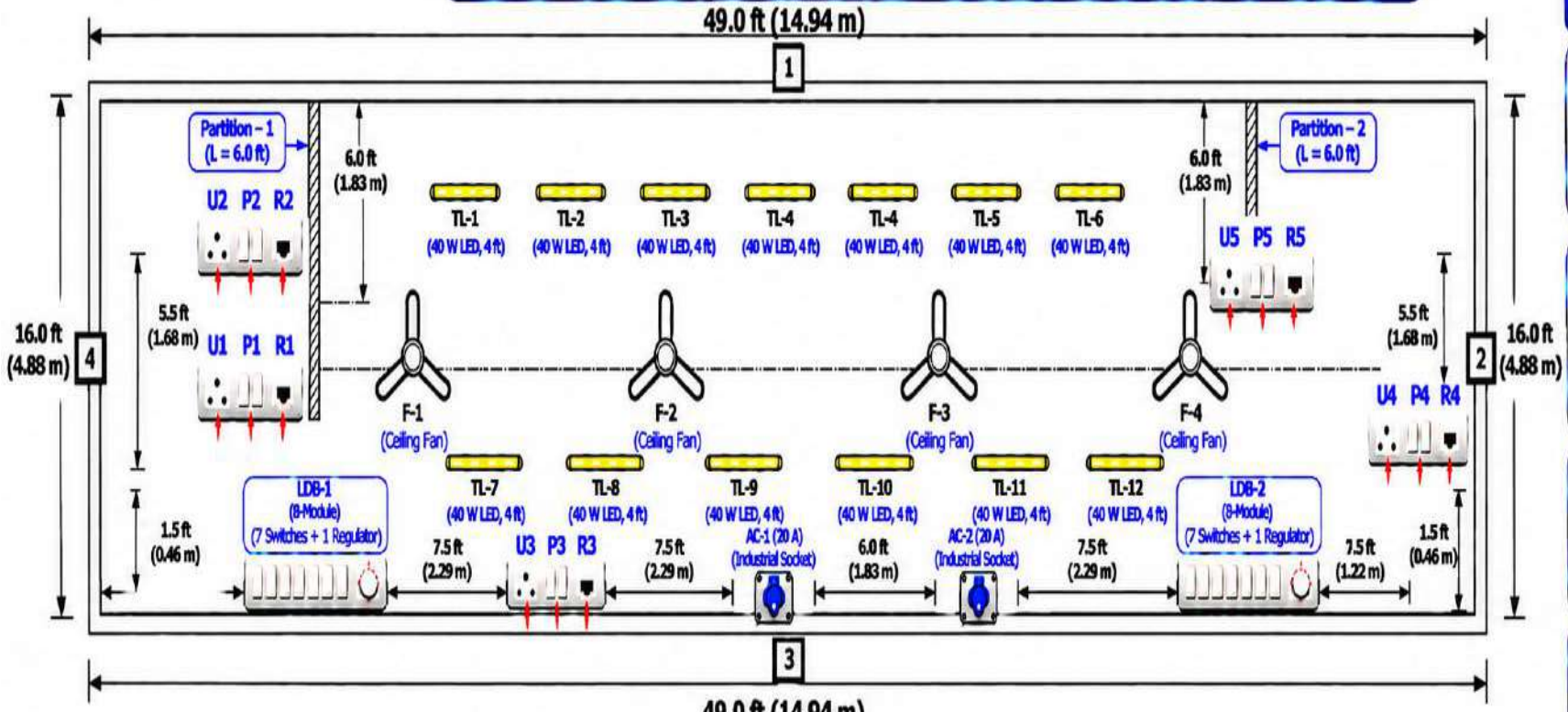
MOUNTING HEIGHT DETAILS
(FROM FINISHED FLOOR LEVEL)



NOTES

1. All dimensions are center-to-center.
2. UDB, PDB and RJ45 (R1-R4) are provided in pairs: (U1/P1/R1 & U3/P3/R3) on Wall-4 and (U2/P2/R2 & U4/P4/R4) on Wall-2.
3. Total Quantity: LDB – 2 Nos., UDB – 4 Nos., PDB – 4 Nos., RJ45 – 4 Nos., AC – 1 No., Tube Lights – 4 Nos., Fans – 2 Nos.
4. LDB – 8-Module with 7 Switches and 1 Fan Regulator.
5. UDB – 6-Module with 2 Switches + 2 × 10 A Sockets + 1 × RJ45 Jack.
6. PDB – 3-Module with 1 Switch and 1 × 20 A Socket.
7. AC – 20 A Industrial Socket, 240 V AC, 50/60 Hz.
8. Mounting heights are from finished floor level.
9. Wiring, installation and heights to be as per IS 732 (Electrical Wiring Code) and applicable site requirements.

ELECTRICAL LAYOUT – ROOM No. 15 (49.0 ft × 16.0 ft)



SWITCH PLATE DETAILS (WITH IMAGES)

LDB – 8-Module Switch Plate (with Regulator)



- LDB – Lighting Distribution Board
- 8-Module Plate
- Configuration:
  - 7 Nos. Switches
  - 1 No. Fan Regulator

UDB – 6-Module Switch Plate (with RJ45)



- UDB – Utility Distribution Board
- 6-Module Plate
- Configuration:
  - 2 Nos. Switches
  - 2 Nos. 10 A Sockets
  - 1 No. RJ45 Jack (Internet/Data)

PDB – 3-Module Switch Plate



- PDB – Power Distribution Board
- 3-Module Plate
- Configuration:
  - 1 No. Switch
  - 1 No. 20 A Socket (230 V, 20 A)

RJ45 Port – Single Port Plate



- RJ45 – Data & Voice Connectivity
- 1-Port Plate
- 1 No. RJ45 Female Jack (Internet/Data)

AC – Industrial Socket (20 A)



- AC Point – 20 A, 240 V AC, 50/60 Hz
- Industrial Socket (for AC)

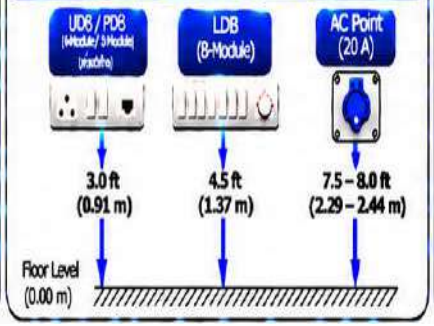
LEGEND (SYMBOLS)

- Ceiling Fan (4 Nos.)
- LED Tubelight (12 Nos.)
- UDB – 6-Module (U1/U2/U3/U4/U5 : 2 x 10 A Sockets + 1 RJ45 Jack)
- PDB – 6-Module (1 Switch + 1 x 20 A Socket)
- LDB – 8-Module (7 Switches + 1 Regulator)
- AC Point – Industrial Socket (20 A, 240 V AC)
- Partition (from Wall 1, Length = 6.0 ft)

KEY DETAILS

Room Size	:	49.0 ft (L) × 16.0 ft (W) (14.94 m × 4.88 m)
Ceiling Fans	:	4 Nos. (F-1 to F-4)
Tube Lights	:	12 Nos. (TL-1 to TL-12)
LDB Plates	:	2 Nos. (LDB-1 & LDB-2) (8-Module, 7 Switches + 1 Regulator)
UDB Plates	:	5 Nos. (U1, U2, U3, U4 & U5) (6-Module, 2 Switches + 2 x 10 A Sockets + 1 RJ45)
PDB Plates	:	5 Nos. (P1, P2, P3, P4 & P5) (3-Module, 1 Switch + 1 x 20 A Socket)
RJ45 Ports	:	5 Nos. (R1, R2, R3, R4 & R5) (Single Port, Paired with each UDB & PDB)
AC Points	:	2 Nos. (AC-1 & AC-2) (20 A Industrial Socket)
Total Switch Plates	:	12 Nos. (2 LDB + 5 UDB + 5 PDB)

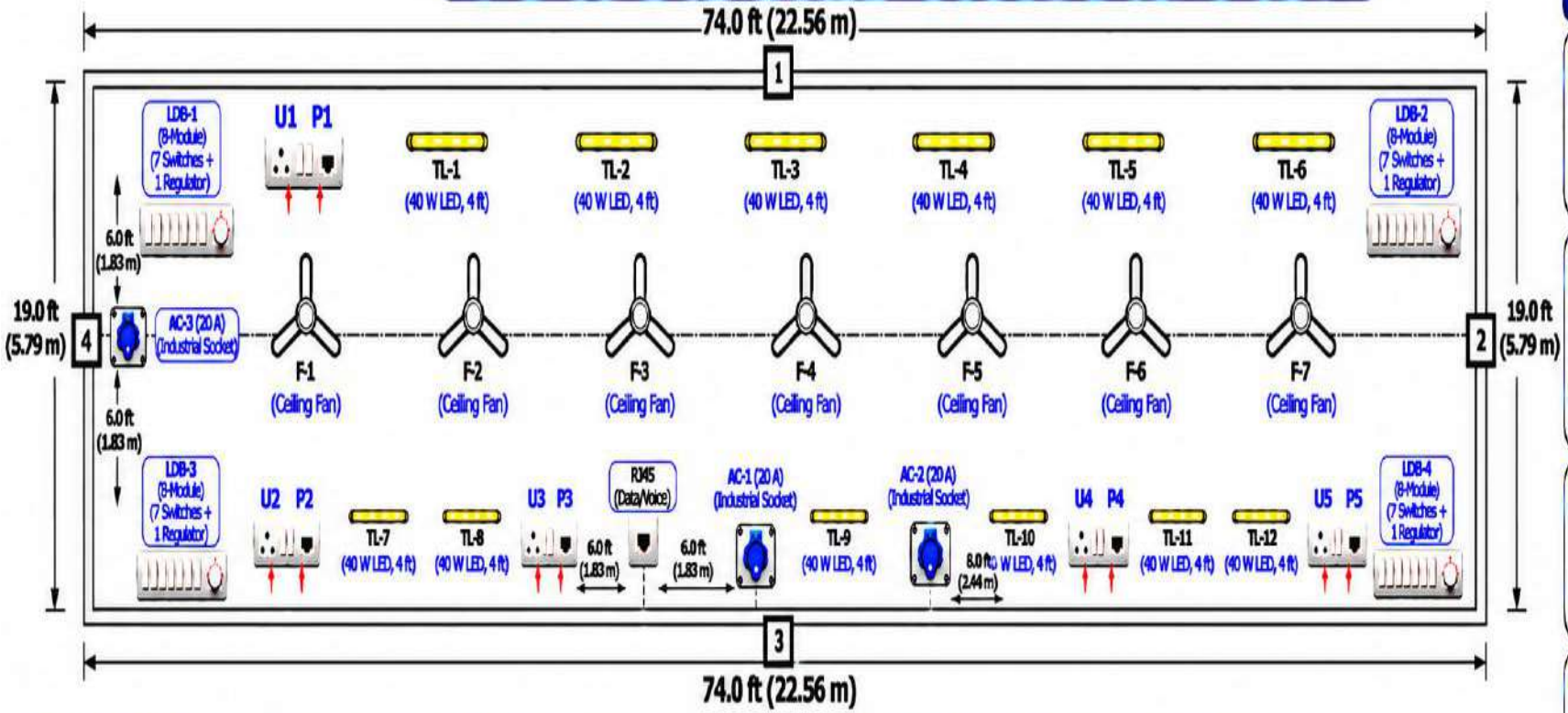
MOUNTING HEIGHT DETAILS (FROM FINISHED FLOOR LEVEL)



NOTES

1. All dimensions are center-to-center.
2. UDB, PDB and RJ45 are provided in pairs: (U1/P1/R1 & U5/P5/R5) on Partitions, (U2/P2/R2) on Partition-1, (U3/P3/R3) on Wall-3 and (U4/P4/R4) on Wall-2.
3. Total Quantity: LDB – 2 Nos, UDB – 5 Nos., PDB – 5 Nos., RJ45 – 5 Nos, AC – 2 Nos., Tube Lights – 12 Nos, Fans – 4 Nos.
4. LDB – 8-Module with 7 Switches and 1 Fan Regulator.
5. UDB – 6-Module with 2 Switches + 2 x 10 A Sockets + 1 RJ45 Jack.
6. PDB – 3-Module with 1 Switch and 1 x 20 A Socket.
7. AC – 20 A Industrial Socket, 240 V AC, 50/60 Hz.
8. Mounting heights are from finished floor level.
9. Wiring, installation and heights to be as per IS 732 (Electrical Wiring Code) and applicable site requirements.

ELECTRICAL LAYOUT – ROOM No. 20 (74.0 ft × 19.0 ft)



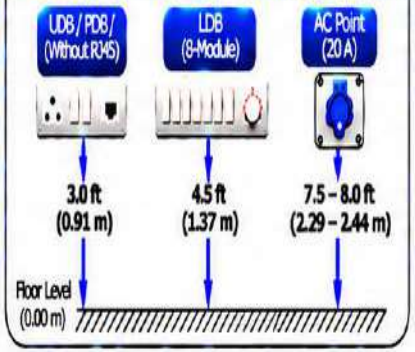
LEGEND (SYMBOLS)

- Ceiling Fan (7 Nos.)
- LED Tubelight (12 Nos.)
- UDB – 6-Module (2 Switches + 1 Socket + 1 RJ45 Jack)
- PDB – 3-Module (1 Switch + 1 × 20 A Socket)
- LDB – 8-Module (7 Switches + 1 Regulator)
- AC Point – Industrial Socket (20 A, 240 V AC)

KEY DETAILS

Room Size	:	74.0 ft (L) × 19.0 ft (W) (22.56 m × 5.79 m)
Ceiling Fans	:	7 Nos. (F-1 to F-7)
Tube Lights	:	12 Nos. (TL-1 to TL-12)
LDB Plates	:	4 Nos. (LDB-1 to LDB-4)
UDB Plates	:	6 Nos. (U1 to U5)
PDB Plates	:	6 Nos. (P1 to P5)
RJ45 Ports	:	1 No. (Data/Voice)
AC Points	:	3 Nos. (AC-1, AC-2 & AC-3)
Total Switch Plates	:	16 Nos. (4 LDB + 6 UDB + 6 PDB)

MOUNTING HEIGHT DETAILS (FROM FINISHED FLOOR LEVEL)



NOTES

1. All dimensions are center-to-center.
2. UDB, PDB and RJ45 are provided as per layout (Total UDB – 6, PDB – 6, RJ45 – 1).
3. Total Quantity: LDB – 4 Nos., UDB – 6 Nos., PDB – 6 Nos., RJ45 – 1 No., AC – 3 Nos., Tube Lights – 12 Nos., Fans – 7 Nos.
4. LDB – 8-Module with 7 Switches and 1 Fan Regulator.
5. UDB – 6-Module with 2 Switches, 1 × 10 A Socket and 1 × RJ45 Jack (only 1 UDB with RJ45; remaining UDBs without RJ45).
6. PDB – 3-Module with 1 Switch and 1 × 20 A Socket.
7. AC – 20 A Industrial Socket, 240 V AC, 50/60 Hz.
8. Mounting heights are from finished floor level.
9. Wiring, installation and heights to be as per IS 732 (Electrical Wiring Code) and applicable site requirements.

SWITCH PLATE DETAILS (WITH IMAGES)

LDB – 8-Module Switch Plate (with Regulator)

- LDB – Lighting Distribution Board
- 8-Module Plate
- Configuration:
  - 7 Nos. Switches
  - 1 No. Fan Regulator

UDB – 6-Module Switch Plate (with RJ45)

- UDB – Utility Distribution Board
- 6-Module Plate
- Configuration:
  - 2 Nos. Switches
  - 1 No. 10 A Socket
  - 1 No. RJ45 Jack (Internet/Data)

PDB – 3-Module Switch Plate

- PDB – Power Distribution Board
- 3-Module Plate
- Configuration:
  - 1 No. Switch
  - 1 No. 20 A Socket (230 V, 20 A)

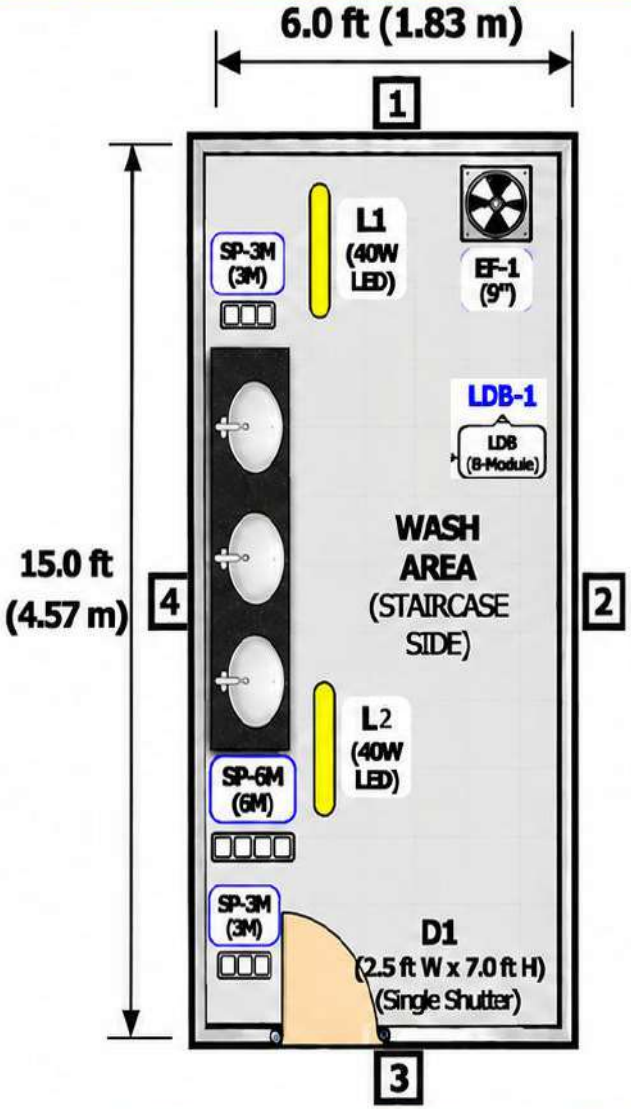
AC – Industrial Socket (20 A)

- AC Point – 20 A, 240 V AC, 50/60 Hz
- Industrial Socket (for AC)

RJ45 Port – Single Port Plate

- RJ45 – Data & Voice Connectivity
- 1-Port Plate
- 1 No. RJ45 Female Jack (Internet/Data)

ELECTRICAL LAYOUT – STAIRCASE SIDE WASH AREA



LAYOUT DETAILS

Area Title	Staircase Side Wash Area
Size (L x W)	6.0 ft x 15.0 ft (1.83 m x 4.57 m)
Wall Identification	1 – Top Wall, 2 – Right Wall, 3 – Bottom Wall, 4 – Left Wall
Door	1 No. – D1 (2.5 ft W x 7.0 ft H), Single Shutter – On Wall-3
Wash Basin	3 Nos. – On Wall-4 (With Counter Top)
Lighting	1 No. – 40 W LED Batten (L1) – On Wall-4
Exhaust Fan	1 No. – 9" (EF-1) – On Wall-1
Switch Plate (SP)	1 No. – 8 Modular & 2 Nos. – 3 Modular – On Wall-4, 1 No. – 6 Modular – On Wall-4

SWITCH PLATE DETAILS (WITH IMAGES)





LEGEND

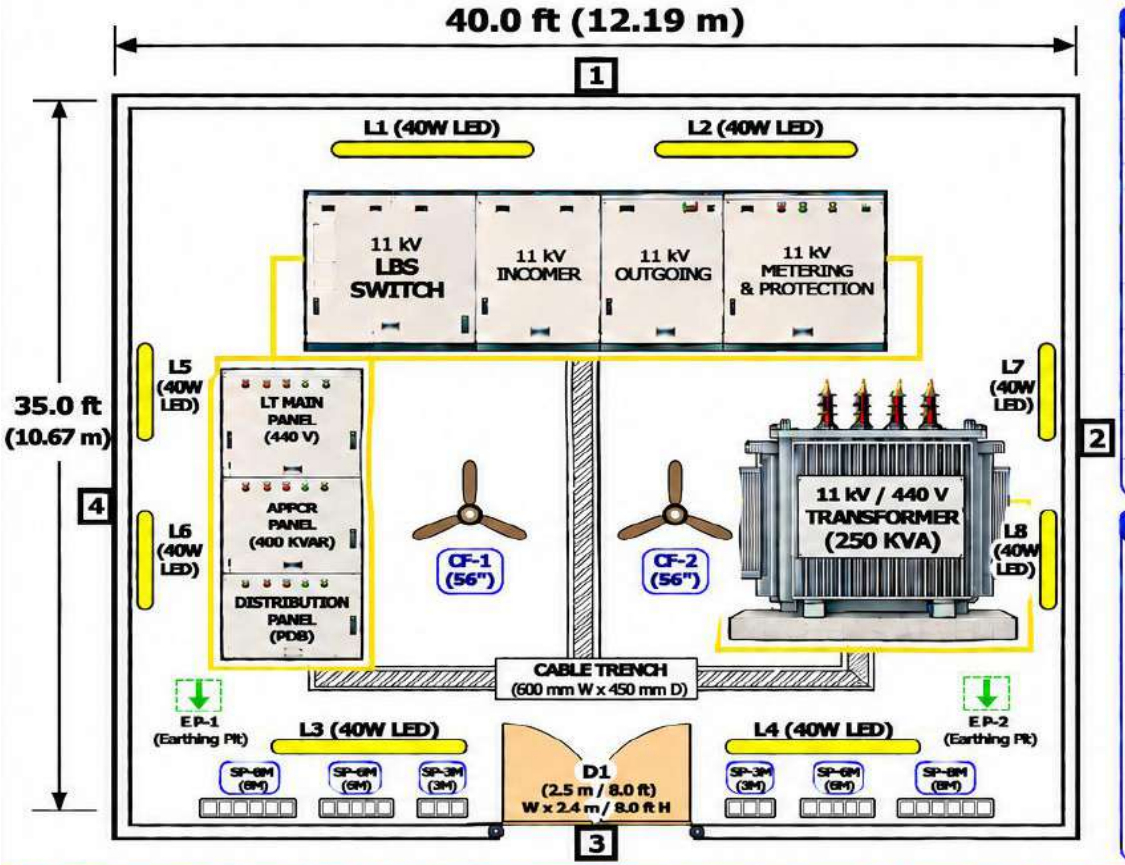
- LED Batten Light (40 W)
- Door (Single Shutter) — D1
- Switch Plate (6 Modulear) — SP
- EF – Exhaust Fan (9")
- Wash Basin (WB)

KEY NOTES

1. Wash Area located on Staircase Side.
2. Area Size – 6.0 ft (W) x 15.0 ft (L).
3. 1 No. Door (D1) – 2.5 ft (W) x 7.0 ft (H) – Wall-3.
4. 3 Nos. Wash Basins with Counter – Wall-4.
5. 1 No. LED Light (40 W) – Wall-4.
6. 1 No. Exhaust Fan (9") – Wall-1.
7. 1 No. 8 Modular Switch Plate and 2 Nos. 3 Modular Switch Plates – Wall-4 (for Light & Exhaust Fan).

TITLE : ELECTRICAL LAYOUT – STAIRCASE SIDE WASH AREA | SCALE : NTS | UNIT : ft (m) | DRAWING No.: EL-02 | REV.: 0

ELECTRICAL LAYOUT – ELECTRICAL SUBSTATION (11 kV / 440 V)



LAYOUT DETAILS

Room Title	Electrical Substation (11 kV / 440 V)
Room Size (L x W x H)	35.0 ft x 40.0 ft x 12.0 ft (10.67 m x 12.19 m x 3.66 m)
Wall Identification	1 – Top Wall, 2 – Right Wall, 3 – Bottom Wall, 4 – Left Wall
Incoming Supply	11 kV (HT)
Main Equipment	11 kV LBS Switch, 11 kV Incomer, 11 kV Outgoing, 11 kV Metering & Protection, 11 kV / 440 V Transformer (250 KVA), LT Main Panel (440 V), APFCR Panel, Distribution Panel (PDB)
Lighting	4 Nos. (40 W LED Batten) (L1, L2, L3 & L4) + 4 Nos. (L5, L6, L7 & L8)
Switch Plate (SP)	2 Nos. of each (8 Modular, 6 Modular, 3 Modular) – On Wall-3 (Either side of D1)
PDB (Power DB)	3 Nos. (3 Modular) – On Wall-1, Wall-2 & Wall-4
Door	1 No. – D1 (Double Shutter) (2.5 m W x 2.4 m H) – On Wall-3
Cable Trench	600 mm (W) x 450 mm (D)

SWITCH PLATE DETAILS (WITH IMAGES)

PDB – 3 Modular Switch Plate
(Power Distribution Board)
(Switch: 20A, Socket: 20A, 5 Pin with Shutter)



LDB – 8-Module Switch Plate
(with Regulator)

- LDB – Lighting Distribution Board
- 8-Module Plate
- Configuration:
  - 7 Nos. Light Switches
  - 1 No. Fan Regulator (for Ceiling Fan)



SP – 6 Modular Switch Plate
(Switch Plate)



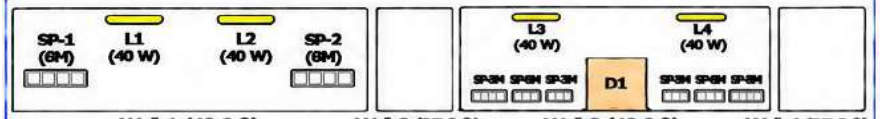
LEGEND

- LED Batten Light (40 W)
- D1 – Door with Opening Direction (D1 – 2.5 m W x 2.4 m H, Double Shutter)
- PDB – Power Distribution Board (20A Switch & 20A Socket, 3 Modular Plate)
- SP – Switch Plate (8 Modular / 6 Modular / 3 Modular)
- E.P – Earthing Pit

KEY NOTES

1. HT Supply – 11 kV Incoming.
2. Transformer – 11 kV / 440 V (250 KVA).
3. 11 kV LBS Switch (Load Break Switch) – Replaces HT Panel.
4. LT Main Panel – 440 V.
5. APFCR Panel – e.g., 400 KVAR (As per Load).
6. Distribution Panel (PDB) – For Outgoing Feeders (Lighting, Power, HVAC, etc.).
7. Cable Trench – 600 mm (W) x 450 mm (D) with RCC / Cover.
8. Earthing – Min. 2 Nos. Earthing Pits (HT & LT System).
9. Switch Plates on Wall-3 – 2 Nos. each of 8M, 6M & 3M (Either side of D1).
10. LED Lighting – 8 Nos. (40 W) [L1 to L8].

WALL ELEVATIONS (LIGHTING & EQUIPMENT PLACEMENT)

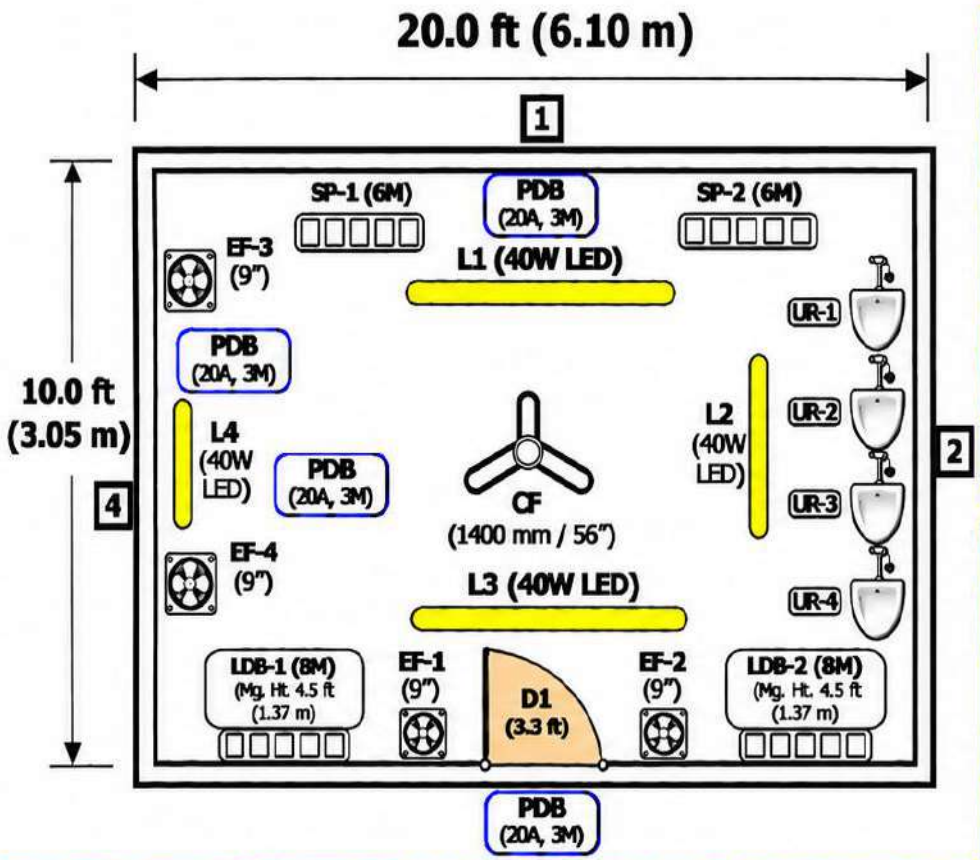


MOUNTING HEIGHT DETAILS
(From Finished Floor Level)

Equipment	Height
PDB (3 Modular)	3.6 ft (0.91 m)
SP (8 / 6 / 3 Modular)	4.5 ft (1.37 m)
LED Batten (Wall)	7.5 ft (2.29 m)
HT / LT Panel (Base Plinth)	As per Manufacturer
Transformer (Base Plinth)	As per Manufacturer

TITLE : ELECTRICAL LAYOUT – ELECTRICAL SUBSTATION (11 kV / 440 V) | SCALE : NTS | UNIT : ft (m) | DRAWING No.: EL-01 | REV.: 0

ELECTRICAL LAYOUT – COMMON WASH ROOM



LAYOUT DETAILS

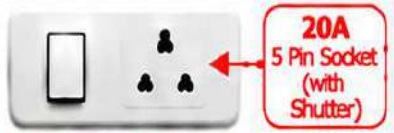
Room Size (L x W x H)	**20.0 ft x 10.0 ft x 9 ft** (6.10 m x 3.05 m x 2.74 m)
Attached Washroom	– (Not Provided)
Wall Identification	1 – Top Wall, 2 – Right Wall, 3 – Bottom Wall, 4 – Left Wall
Lighting	4 Nos. (40 W LED Batten) (L1, L2, L3 & L4)
Ceiling Fan	1 No. (1400 mm / 56") – CF
Exhaust Fan	4 Nos. (9") – EF-1 & EF-2 (Wall-3), EF-3 & EF-4 (Wall-4)
Door	1 No. – D1 (On Wall-3) (3.3 ft)
PDB (Power DB)	4 Nos. (3 Modular Plate) – On Wall-1, Wall-3 & Wall-4
LDB (Lighting DB)	2 Nos. (8 Modular Plate) – On Wall-3 (LDB-1 & LDB-2)
Switch Plate (SP)	2 Nos. (6 Modular Plate) – On Wall-1 (SP-1 & SP-2)

LEGEND

- LED Batten Light (40 W)
- D1 – Door with Opening Direction (D1 – Width 3.3 ft)
- PDB – Power Distribution Board (20A Switch & 20A Socket, 3 Modular Plate)
- LDB – Lighting Distribution Board (8 Modular Plate)
- CF – Ceiling Fan (1400 mm / 56")
- EF – Exhaust Fan (9")
- UR – Urinal (Wall-2)
- SP – Switch Plate (6 Modular Plate)

SWITCH PLATE DETAILS (WITH IMAGES)

PDB – 3 Modular Switch Plate (Power Distribution Board)
(Switch: 20A, Socket: 20A, 5 Pin with Shutter)



LDB – 8 Modular Switch Plate (Lighting Distribution Board)



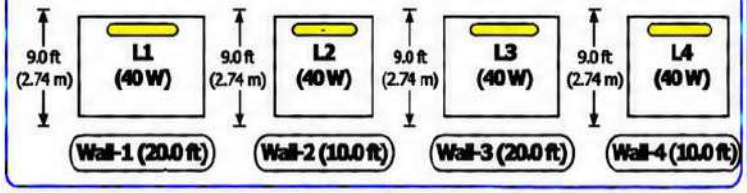
SP – 6 Modular Switch Plate (Switch Plate)



Exhaust Fan (9")



WALL ELEVATIONS (LIGHTING PLACEMENT)



MOUNTING HEIGHT DETAILS (From Finished Floor Level)

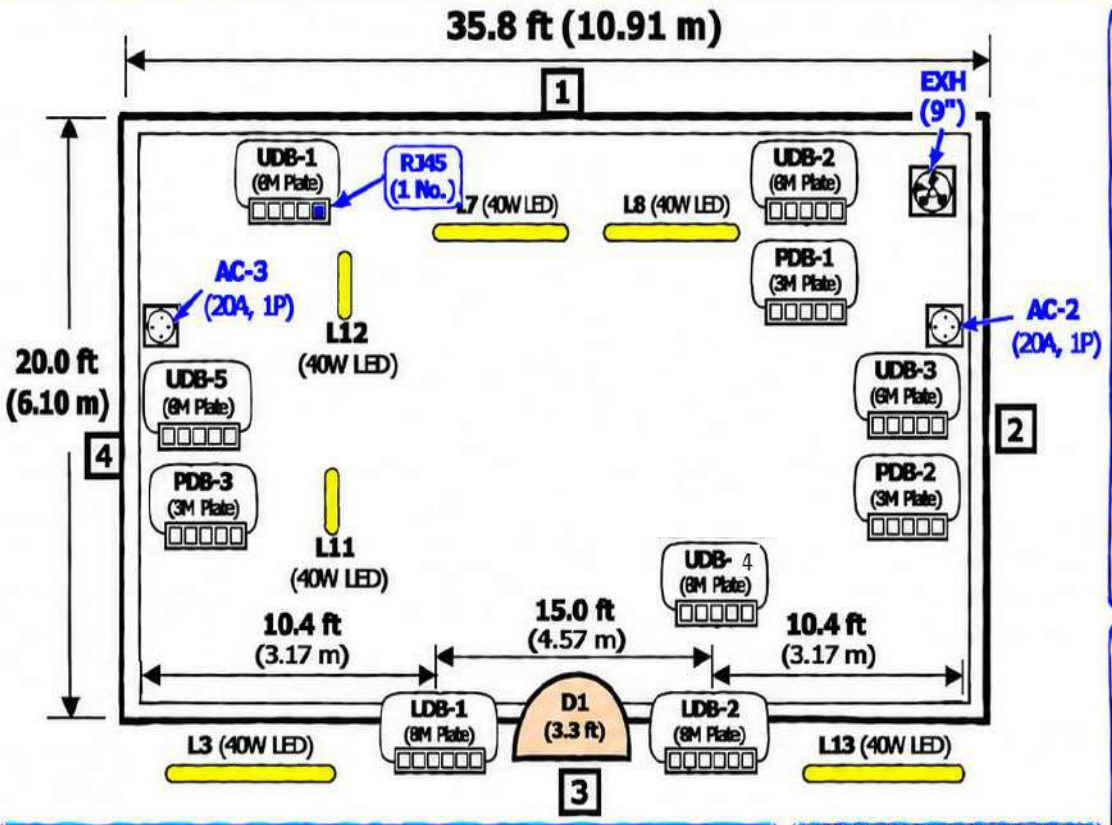
Equipment	Height
PDB	3.6 ft (0.91 m)
LDB (Lighting DB)	4.5 ft (1.37 m)
LED Batten (Wall)	7.5 ft (2.29 m)
Ceiling Fan (CF)	9.0 ft (2.74 m)
Exhaust Fan (EF)	7.5 ft (2.29 m)
SP (6M)	4.5 ft (1.37 m)

KEY NOTES

1. Total LED Lights : 4 Nos. (40 W each) = 160 W
2. Ceiling Fan : 1 No. (1400 mm / 56") – CF
3. Exhaust Fan : 4 Nos. (9") – EF-1, EF-2 (Wall-3) & EF-3, EF-4 (Wall-4)
4. Door : 1 No. – D1 (Width 3.3 ft) – On Wall-3
5. PDB : 3 Nos. (3 Modular) – On Wall-1, Wall-3 & Wall-4
6. LDB : 2 Nos. (8 Modular) – On Wall-3 (LDB-1 & LDB-2)
7. SP : 2 Nos. (6 Modular) – On Wall-1 (SP-1 & SP-2)
8. Urinals : 4 Nos. – On Wall-2
9. Room Size : 20.0 ft (L) x 10.0 ft (W) x 9 ft (H)

TITLE : ELECTRICAL LAYOUT – COMMON WASH ROOM | SCALE : NTS | UNIT : ft (m) | DRAWING No.: EL-01 | REV.: 0

ELECTRICAL LAYOUT - DOPE STORE



LAYOUT DETAILS

Room Size (L x W x H)	35.8 ft x 20.0 ft x 9 ft (10.91 m x 6.10 m x 2.74 m)
Attached Washroom	– (Not Provided)
Wall Identification	1 – Top Wall, 2 – Right Wall, 3 – Bottom Wall, 4 – Left Wall
Lighting	11 Nos. (40 W LED Batten) (L3, L7, L8, L9, L10, L11, L12 & L13)
Ceiling Fan	
AC Point	2 Nos. (Industrial Metal Clad 3-Ph Socket 1-20A, 1P MCB) – AC-3 on Wall-4, AC-2 on Wall-2
Door	1 No. – D1 (on Wall-2 – Centre) (3.3 ft)
UDB (Utility DB)	5 Nos. (6 Modular Plate) – UDB-1 & UDB-2 on Wall-1, UDB-3 on Wall-2, UDB-4 on Wall-3, UDB-5 on Wall-4
PDB (Power DB)	3 Nos. (3 Modular Plate) – PDB-1 (paired with UDB-2), PDB-2 (paired with UDB-3), PDB-3 (paired with UDB-5)
LDB (Lighting DB)	2 Nos. (8 Modular Plate) – LDB-1 & LDB-2 on Wall-3

SWITCH PLATE DETAILS (WITH IMAGES)

UDB – 6 Modular Switch Plate (Utility Distribution Board)



LDB – 8 Modular Switch Plate (Lighting Distribution Board)



PDB – 3 Modular Switch Plate (Power Distribution Board)



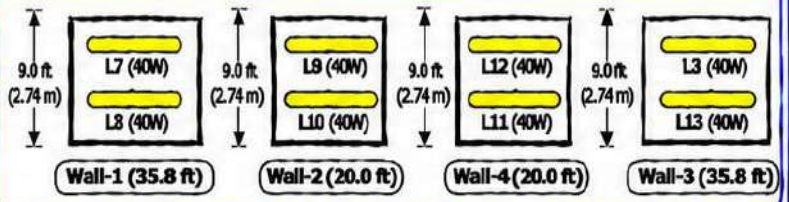
LEGEND

- LED Batten Light (4 ft, 40 W)
- D1 – Door with Opening Direction
- UDB – Utility Distribution Board (6 Modular Plate)
- PDB – Power Distribution Board (3 Modular Plate)
- LDB – Lighting Distribution Board (8 Modular Plate)
- CF – Ceiling Fan (1400 mm / 56")
- AC Point – Industrial Metal Clad 3-Ph Socket with 20A, 1P MCB (Enclosure)
- EXH – Exhaust Fan (9")
- RJ45 – Data Outlet (LAN Port)

KEY NOTES

1. Total LED Battens: 11 Nos. (40 W each) – L3, L7, L8, L9, L10, L11, L12 & L13.
2. Ceiling Fan: – (Not Provided). Ball2 and AC-
3. AC Points: 2 Nos. – AC-3 on Wall-2 and AC-2 on Wall-2 (Industrial Metal Clad 3-Ph Socket 6. 20A, 1P MCB).
4. Door: 1 No. – D1 at Wall-3 (Centre) (3.3 ft).
5. RJ45 Ports: 1 No. – Paired with UDB-1 (on Wall-1).
6. MDBs: 3 Nos. – Paired with UDB-2, LDB-3 and UDB-3.
7. LDBs: 2 Nos. (8 Modular Plate) – LDB-1 & LDB-2 on Wall-3 (Either side of D1).

WALL ELEVATIONS (LIGHTING PLACEMENT)

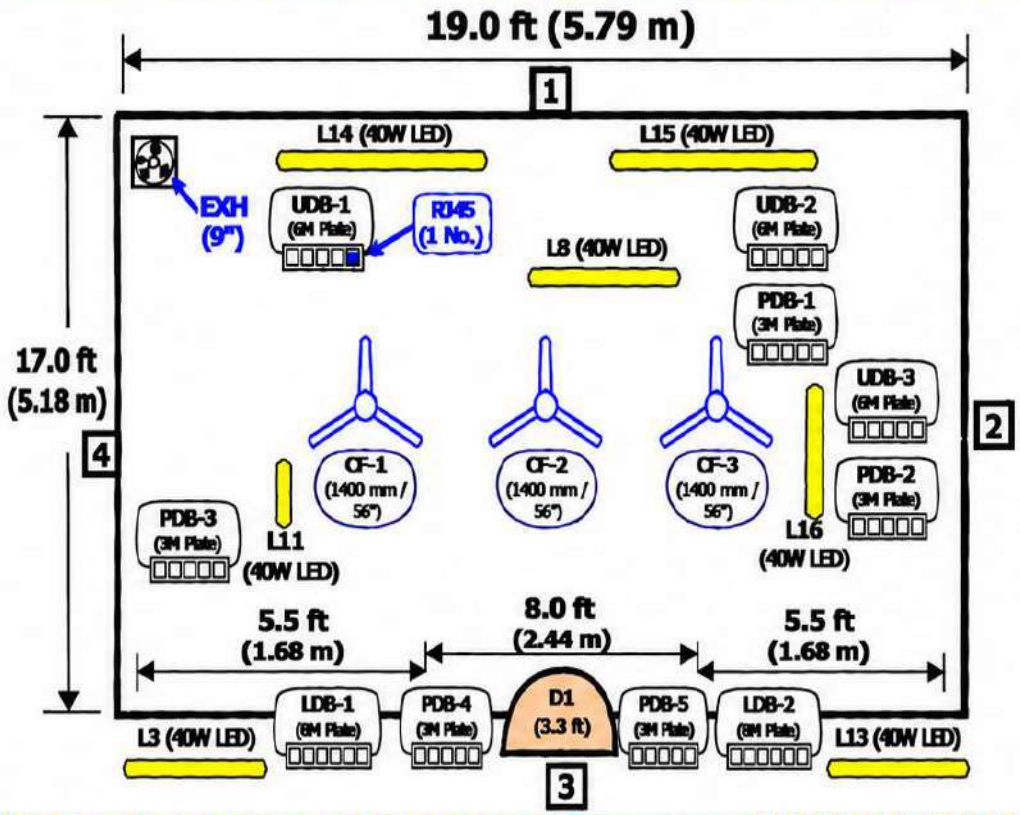


MOUNTING HEIGHT DETAILS (From Finished Floor Level)

Equipment	Height
UDB	3.0 ft (0.91 m)
PDB	3.0 ft (0.91 m)
LDB	4.5 ft (1.37 m)
Switch Plate (SP)	3.0 ft (0.91 m)
AC Point	7.9 ft (0.29 m)
LED Batten (Wall)	7.5 ft (2.29 m)
Exhaust Fan (Wall)	8.0 ft (2.49 m)

TITLE : ELECTRICAL LAYOUT – DOPE STORE | SCALE : NTS | UNITS : ft (m) | DRAWING No.: EL-01 | REV.: 0

ELECTRICAL LAYOUT - BATTERY SHOP



LAYOUT DETAILS

Room Size (L x W x H)	19.0 ft x 17.0 ft x 9 ft (5.79 m x 5.18 m x 2.74 m)
Attached Washroom	– (Not Provided)
Wall Identification	1 – Top Wall, 2 – Right Wall, 3 – Bottom Wall, 4 – Left Wall
Lighting	11 Nos. (40 W LED Batten) (L3, L8, L11, L13, L14, L15 & L16)
Ceiling Fan	3 Nos. (1400 mm / 56")
AC Point	– (Not Provided)
Door	1 No. – D1 (on Wall-3 – Centre) (3.3 ft)
UDB (Utility DB)	5 Nos. (6 Modular Plate) – UDB-1 & UDB-2 on Wall-1, UDB-3 on Wall-2
PDB (Power DB)	5 Nos. (3 Modular Plate) – PDB-1 (paired with UDB-2), PDB-2 (paired with UDB-3), PDB-3 (paired with UDB-5)
LDB (Lighting DB)	3 Nos. (8 Modular Plate) – LDB-1 & LDB-2 on Wall-3 LDB-4 on Wall-4

SWITCH PLATE DETAILS (WITH IMAGES)

UDB – 6 Modular Switch Plate
(Utility Distribution Board)



LDB – 8 Modular Switch Plate
(Lighting Distribution Board)



PDB – 3 Modular Switch Plate
(Power Distribution Board)



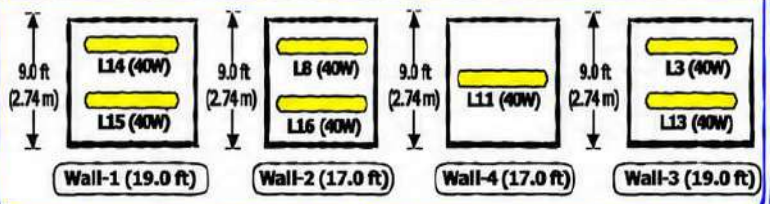
LEGEND

- LED Batten Light (4 ft, 40 W)
- D1 – Door with Opening Direction
- UDB – Utility Distribution Board (6 Modular Plate)
- PDB – Power Distribution Board (3 Modular Plate)
- LDB – Lighting Distribution Board (8 Modular Plate)
- CF – Ceiling Fan (1400 mm / 56")
- EXH – Exhaust Fan (9")
- RJ45 – Data Outlet (LAN Port)

KEY NOTES

1. Total LED Battens: 11 Nos. (40 W each) – L3, L8, L11, L13, L14, L15 & L16.
2. Ceiling Fan: 3 Nos. (1400 mm / 56").
3. AC Points: – (Not Provided).
4. Door: 1 No. – D1 at Wall-3 (Centre) (3.3 ft).
5. RJ45 Ports: 1 No. – Paired with UDB-1 (on Wall-1).
6. PDBs: 5 Nos. – PDB-1, PDB-2, PDB-3, PDB-4 & PDB-5.
7. LDBs: 3 Nos. (8 Modular Plate) – LDB-1 & LDB-2 on Wall-3, LDB-4 on Wall-4.

WALL ELEVATIONS (LIGHTING PLACEMENT)

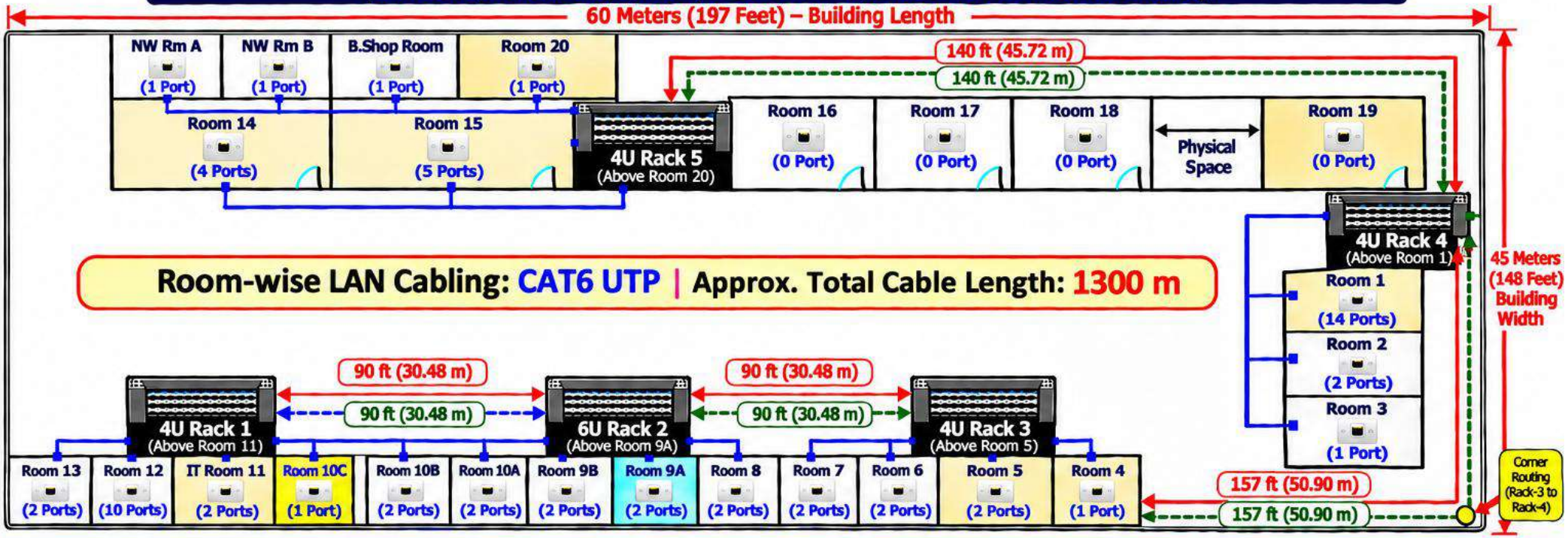


MOUNTING HEIGHT DETAILS (From Finished Floor Level)

Equipment	Height
UDB	3.0 ft (0.91 m)
PDB	3.0 ft (0.91 m)
LDB	4.5 ft (1.37 m)
Switch Plate (SP)	3.0 ft (0.91 m)
AC Point	– (Not Provided)
LED Batten (Wal)	7.5 ft (2.29 m)
Exhaust Fan (Wal)	8.0 ft (2.44 m)

TITLE : ELECTRICAL LAYOUT - BATTERY SHOP | SCALE : NTS | UNITS : ft (m) | DRAWING No.: EL-01 | REV.: 0

BUILDING NETWORK CABLING LAYOUT PLAN
(6U RACK 2, 4U RACKS 1, 3, 4 & 5, PATCH PANELS, ROOM PORTS & CONNECTIONS)



NETWORK RACK AND ROOM CONNECTIONS

Each rack shall be provided with one 24-port UTP loaded patch panel.

Sl. No.	Rack	Connected Rooms	Total LAN Ports
1	Rack-1	Room 12 (10P), Room 13 (2P), Room 10C (1P)	13
2	Rack-2	Room 9A (2P), Room 8 (2P), Room 11 (2P), Room 10B (2P), Room 10A (2P), Room 9B (2P)	12
3	Rack-3	Room 5 (2P), Room 4 (1P), Room 6 (2P), Room 7 (2P)	7
4	Rack-4	Room 1 (14P), Room 2 (2P), Room 3 (1P)	17
5	Rack-5	NW Room A (1P), NW Room B (1P), B-Shop (1P), Room 20 (1P), Room 14 (4P), Room 15 (5P)	13
6	Total	Total Racks: 5 | Total LAN Ports: 62	62

Legend – Cabling Details

- Main CAT6A S/FTP Cable (Backbone – Primary)
- Backup CAT6A S/FTP Cable (Backbone – Secondary)
- Room CATG UTP Cable Drop (to LAN Points)
- Base + Phase Plate with RJ45 Female Jack

Rack-wise Details

Sl. No.	Location	Rack Size
1	IT Room – 11	4U Rack
2	Room – 9A	6U Rack
3	Room – 5	4U Rack
4	Room – 1 (PPMM)	4U Rack
5	Room – 20	4U Rack

1. Rack-to-Rack Backbone Cable Connections

Sl. No.	From Location	To Location	Rack Details
1	IT Room – 11	Room – 9A	4U Rack to 6U Rack
2	Room – 9A	Room – 5	6U Rack to 4U Rack
3	Room – 5	Room – 1 (PPMM)	4U Rack to 4U Rack
4	Room – 1 (PPMM)	Room – 20	4U Rack to 4U Rack

2. Main Backbone Cable Details

Cable Type : CATGA S/FTP Cable
Cable Route : Downward – Upper Rack to Lower Rack
Connection : Main Backbone Link

Sl. No.	From Location	To Location	L (ft)	H (ft)	Total (ft)	Total (m)
1	IT Room – 11	Room – 9A	90	10	100	30.48
2	Room – 9A	Room – 5	90	10	100	30.48
3	Room – 5	Room – 1 (PPMM)	157	10	167	50.90
4	Room – 1 (PPMM)	Room – 20	140	10	150	45.72
Total			477	40	517	157.58

3. Backup Backbone Cable Details

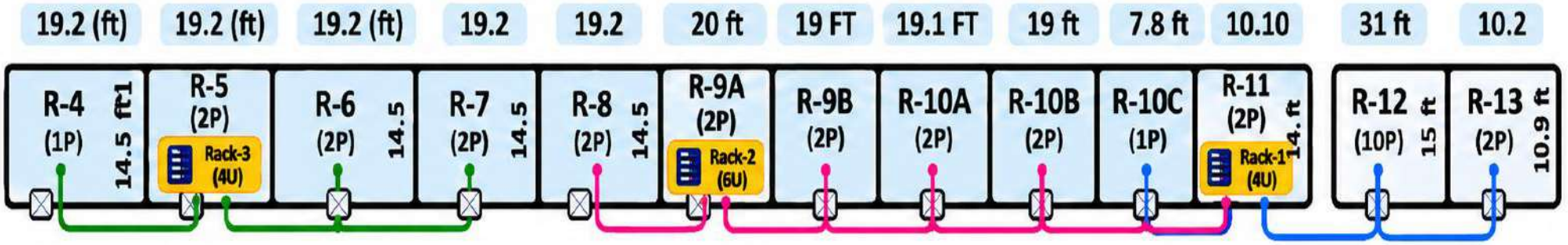
Cable Type : CATGA S/FTP Cable
Cable Route : Upward – Lower Rack to Upper Rack
Connection : Backup Backbone Link

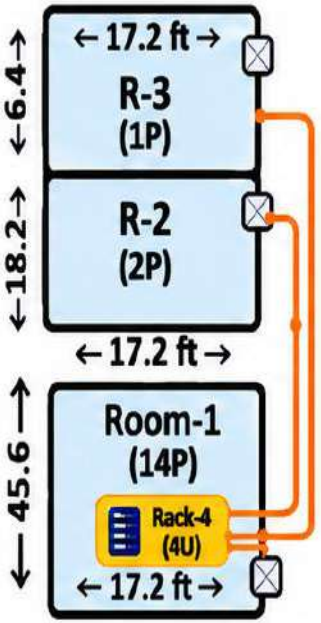
Sl. No.	From Location	To Location	Cable Type	Route
1	Room – 9A	IT Room – 11	CATGA S/FTP	Upward
2	Room – 5	Room – 9A	CATGA S/FTP	Upward
3	Room – 1 (PPMM)	Room – 5	CATGA S/FTP	Upward
4	Room – 20	Room – 1 (PPMM)	CATGA S/FTP	Upward

Note: The diagram indicates CATG UTP backup cable for the first link and CATGA S/FTP backkup cable for the remaining three.

5. Cable Requirement Summary

Sl. No.	Cable Description	Length
1	CAT6A S/FTP Cable (Main + Backup Backbone)	315.16 m
2	CAT6 UTP Cable (Room-wise LAN Cabling)	1,300 m
Total Cable Requirement		1,615.16 m





Room-wise LAN Cabling and Rack Connections (Room-wise Connections Only)

Sl. No.	Rack	Connected Rooms	Total LAN Ports	Approx. Cable Length to Connected Rooms
1	Rack-1	Room 12 (10P), Room 13 (2P), Room 10C (1P)	13	
2	Rack-2	Room 9A (2P), Room 8 (2P), Room 11 (2P), Room 10B (2P), Room 10A (2P), Room 9B (2P)	12	
3	Rack-3	Room 5 (2P), Room 4 (1P), Room 6 (2P), Room 7 (2P)	7	
4	Rack-4	Room 1 (14P), Room 2 (2P), Room 3 (1P)	17	
5	Rack-5	NW Room A (1P), NW Room B (1P), B-Shop Room (1P), Room 20 (1P), Room 14 (4P), Room 15 (5P)	13	
	Total	5 Racks	62 LAN Ports	1300 m

Room-wise LAN Cabling: CAT6 UTP | Approx. Total Cable Length: 1300 m





