

**Ref: Airport School/ACADEMIC BUILDING/2025-'26/****Date: 18.07.2025**

**NOTICE INVITING TENDER  
(Sealed Cover 2 Envelope Open Tender)**

1. Item Rate tenders are invited by **Airport School Management Committee** from the eligible contractors for the work of **“Construction of a New Academic Building at Calicut International Airport School”** at an estimated cost of **`1,17,00,981/- (excluding GST)** with completion period of **06 (six) months**.

Tender processing fee of **`2000/-**, non-refundable will be required to be paid online.

Earnest Money Deposit (EMD) of **`3,51,029/-** will be required to be paid online.

Tender fee and EMD to be remitted to the account number detailed below. No offline payments will be accepted.

Account Name: Airports Authority School Association, Account No. 68870100001101,  
IFSC - BARB0VJKUND (0-Zero), Bank Name: Bank of Baroda, Kondotty

**CRITICAL DATE SHEET**

|                                      |                            |
|--------------------------------------|----------------------------|
| Publishing Date                      | 18.07.2025 at 1800 Hrs.    |
| Bid Submission Start Date            | 19.07.2025 from 0900 Hrs.  |
| Bid Submission End Date              | 28.07.2025 up to 1100 Hrs. |
| Bid Opening Date (Envelope- I & II ) | 28.07.2025 at 1500 Hrs.    |

Being a sealed cover tender, the sealed cover tender shall be submitted to Principals office at Airport School before the prescribed time.

**Envelope-I (Technical Bid and Pre-qualification): - Bid containing following:**

**A. Technical Bid containing the following: -**

- i) Scanned copy of Tender Acceptance Letter on Bidder's Letter Head.
- ii) Scanned copy of Permanent Account Number (PAN) and GST Registration Number.
- iii) Scanned copy of Form-A - details of similar works completed during last seven years supported with completion certificate issued by client.
- iv) Scanned copy of Form- B - Financial Information.
- v) Scanned copy of Form- C – Net Worth.
- vi) Bidders other than propriety firm shall submit, scanned copy of Authorization Letter /Power of Attorney along with copy of Certificate of Incorporation of the Company under Companies Act showing CIN/LLPIN/Name of Directors of the Company & Copy of Board Resolution regarding Authority to assign Power of Attorney. Proprietary firm shall submit scanned copy of Authorization Letter/Power of Attorney only if the tender is processed by a person other than proprietor.
- vii) PQ Performa duly filled

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

- i. Should have successfully completed or substantially completed three works, each of **`4680392/-** or two works, each of **`5850491/-** or one work of **`9360785/-** in single

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contract of similar nature of **(General Civil Works)** during last 07 (seven) years ending last day of month previous to the one in which tenders are invited.

The details of similar works completed during last seven years in the given format- **Form-A** with supporting documents issued by client.

- ii. Should have Average Annual Financial Turnover **`4142147/-** on construction works during last three years ending 31st March of the previous financial year. The Financial Information shall be submitted in the given format – **Form-B**. Tenderers showing continuous losses during the last three years in the balance sheet shall be summarily rejected.
- iii. The tenderer should have a minimum net worth of **`1755147/-** issued by certified Chartered Accountants. The Certificate should be submitted in the given Format- **Form- C**.

### 2. Refund of EMD

EMD deposited by all the bidders except the confirmed lowest bidder shall be returned within one week from the date of opening of the financial bid. EMD of the successful bidder shall be returned on receipt of Security Deposit equivalent to EMD amount/ performance bank guarantee.

### 3. Bid Submission: -

The tenderer shall submit their application in two separate sealed envelopes:

Envelope 1: Containing all documents fulfilling the prequalification requirements as specified above.

Envelope 2: Containing only the quoted rates.

Both envelopes shall be placed inside a single outer cover and submitted manually at the Principal's Office, **Airport School. Calicut International Airport, Karipur, Kerala Pin – 673647**, before the prescribed deadline. Each envelope must be clearly labeled as "Envelope 1" and "Envelope 2" for easy identification.

Not more than one tender shall be submitted by one tenderer or tenderers having business relationship. Under no circumstance will father and his son(s) or other close relations who have business relationship with one another (i.e. when one or more partner(s)/director(s) are common) be allowed to tender for the same contract as separate competitors. A breach of this condition will render the tenders of both parties liable to rejection.

### 4. Bids Opening Process is as below: -

#### **Envelope-I (Technical bid and Pre-qualification):**

Envelope-I containing pre-qualification documents as per Para I (A) and (B) submitted shall be opened on date & time as mentioned above.

#### **Envelope-II (Financial Bid):**

Envelope-II containing financial bid of the tenderers found to be meeting the technical criteria and qualifying requirements shall be opened on date & time mentioned above.

5. School Committee reserves the right to accept or reject any or all applications without assigning any reasons. School Committee also reserves the right to call off tender process at any stage without assigning any reason.

-Sd-

Engg Wing  
Airport School Management Committee

PQQ PROFORMA-CHECK LIST

(To be filled and submitted along with Tender Document)

**ANNEXURE-A**

**Name of Work: Construction of a New Academic Building at Calicut International Airport School**

| 1           | 2  | 3           | 4   |
|-------------|--|-------------|---|
| Ref. No.    | Qualifying Criteria  | Particulars | Enclosure check list  |
| <b>1</b>    | Name and address of the firm/Agency /Contractor/Telephone/Fax /e-mail  |             |   |
|             | Authorized signatory<br>Name & designation   |             |   |
| <b>2</b>    | <b>Envelope-I (Technical Bid and Pre-qualification):- Bid containing following</b>   |             |   |
| <b>A</b>    | <b>Technical Bid</b> containing the following:-  |             |   |
| <b>i.</b>   | Earnest Money Deposit [EMD] to be paid online and receipt attached   |             | YES/NO  |
| <b>ii.</b>  | Unconditional Acceptance of Tender Conditions  |             | Scanned copy of duly signed and stamped Unconditional Acceptance of Tender Conditions is submitted:<br>YES / NO |
| <b>iii.</b> | Permanent Account Number (PAN) and GST Registration Number   |             | Scanned Copy of PAN Card & GST Registration No. submitted: YES/NO   |
| <b>iv.</b>  | Scanned copy of Form- A - details of similar works completed during last seven with completion certificate issued by client  |             | Scanned Copy submitted: YES/NO  |
| <b>v.</b>   | Scanned copy of Form- B - Financial Information  |             | Scanned Copy submitted: YES/NO  |
| <b>vi.</b>  | Scanned copy of form C - Certificate of Net Worth of `1755147/- from Chartered Accountant with <b>UDIN</b> (Unique Document Identification Number of the Institute of Chartered Accountant of India) |             | Scanned Copy submitted: YES/NO  |

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|  |   |  |   |
|--|---|--|---|
| <b>vii.</b>  | Scanned copy of Authorization Letter/Power of Attorney along with copy of Certificate of Incorporation of the Company ( <b>applicable for bidders other than proprietary firm</b> )   |  | Scanned Copy submitted: YES/NO/NA                         |
| <b>viii.</b>   | Scanned copy of Authorization Letter/Power of Attorney ( <b>applicable for bidders if tender is processed by a person other than the proprietor</b> )   |  | Scanned Copy submitted: YES/NO/NA                         |
| <b>ix.</b>   | PQ Performa duly filled   |  | Scanned Copy of duly filled PQ performa submitted: YES/NO |
| <b>B Qualifying requirements of contractors/tenderers containing the following:-</b> |   |  |   |
| <b>i</b>   | Details of similar works completed during the last seven years ending on last day of month previous to the one in which tenders are invited in the given format (Form-A) with supporting documents issued by client.<br><b>Three works of `46,80,392/-<br/>or<br/>Two works of `58,50,491/-<br/>or<br/>One work of `93,60,785/-</b> |  | Copy of certificates submitted: YES/NO                    |
|  | If the experience certificate from non-government/non-PSU organizations, then copy of tax deduction at sources (TDS) certificate(s) along with a certificate issued by registered Chartered Accountant, clearly specifying the name of work, total payment received against the work and TDS amount for the work attached           |  | Copy of certificates submitted: YES/NO/NA                 |
| <b>ii</b>  | TURNOVER: Average annual financial turnover of ` <b>41,42,147/-</b> during last three years ending of 31 <sup>st</sup> march of the previous financial year <b>in form B</b> with <b>UDIN</b>   |  | Copy of Annual report in form-B uploaded: YES / NO        |
| <b>3</b>   | <b>Envelop-II<br/>The Financial e-Bid</b>   |  | Financial e-bid in standard BOQ format uploaded: YES / NO |

**DECLARATION**

I, ( ) hereby declare that the information/documents submitted/enclosed are true and correct. In case any document/information at any stage found fake/incorrect, my EMD may be forfeited & action as deemed fit by school committee can be taken against me.

Place:

Date:

Signature



**TENDER ACCEPTANCE LETTER**

**To,**

**Date:**

Airport School Management Committee  
Airport School, Calicut International Airport, Karippur, Kerala 673647

**Sub: Acceptance of Terms & Conditions of Tender.**

**Name of Work : Construction of a New Academic Building at Calicut International Airport School**

Dear Sir,

1. I / We hereby certify that I / we have inspected the site and read the entire terms and conditions of the tender documents, corrigendum(s) and reply to query if any made available to me/ us which shall form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
2. I / We hereby unconditionally accept the tender conditions of tender documents in its totality / entirety for above mentioned work.
3. I/We declare that I/We have not paid and will not pay any bribe to any officer of school management for awarding this contract at any stage during its execution or at the time of payment of bills, and further if any officer of School management asks for bribe/gratification, I will immediately report it to the Appropriate Authority school management.
4. I/ We hereby submitted that I/ We paid/ submitted the required earnest money as per NIT conditions.
5. I / We certify that all information/ documents furnished by our Firm is true & correct and in the event at any stage, the information/ documents is found to be incorrect/ untrue or found violated, then we shall be liable for summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder, with official seal)

Annexure-E

Annexure-F

## FORM "A"

**DETAILS OF SIMILAR WORKS SUCCESSFULLY COMPLETED OR SUBSTANTIALLY COMPLETED DURING THE LAST SEVEN YEARS ENDING ON 30.06.2025**

| S.    | Details of Work   | <u>W-1</u> | <u>W-2</u> | <u>W-3</u> |
|-------|---|------------|------------|------------|
| i.    | Name of work/project and Location                         |            |            |            |
| ii.   | Name and Address of client                                |            |            |            |
| iii.  | Awarded Cost of Work (in ` Lakhs)                         |            |            |            |
| iv.   | Date of commencement as per contract                      |            |            |            |
| v.    | Stipulated date of completion                             |            |            |            |
| vi.   | Actual date of completion                                 |            |            |            |
| vii.  | Completion Cost/ Actual work done                         |            |            |            |
| viii. | Whether the work was done on back to back basis<br>Yes/No |            |            |            |

SIGNATURE (S) OF BIDDER (S)  
(WITH STAMP)

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

**ANNEXURE - G****FORM-B  
FINANCIAL INFORMATION****Name of the firm / contractor.....**

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

**Fig in lakhs `**

| <b>Sl. No.</b> | <b>Particulars</b>                   | <b>Financial Year (Last three years)</b> |           |           |
|----------------|--------------------------------------|--|-----------|-----------|
|                |                                      | <b>FY</b>                                | <b>FY</b> | <b>FY</b> |
| 1              | Turn-Over on Construction Works      |  |           |           |
| 2              | Profit/loss after Taxes (standalone) |  |           |           |

2. Financial arrangements for carrying out the proposed work.

**Unique Document Identification Number (UDIN).....**SIGNATURE OF CHARTERED  
ACCOUNTANT WITH SEAL

SIGNATURE (S) OF BIDDER (S)

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

**ANNEXURE – H**

**FORM ‘C’**

**FORM FOR CERTIFICATE OF NET WORTH FROM CHARTERED ACCOUNTANT**

This is to certify that as per audited balance sheet and profit & loss account during the financial year 2024-25, the Net Worth of M/S. .... (Name & registered address of Individual/ Firm/Company), as on ..... (the date of certificate) is `..... after considering all liabilities. It is further certified that Net Worth of the company has not eroded by more than 30 % in last three years ending on 31<sup>st</sup> March .....(31.03.2025)

**Unique Document Identification Number (UDIN) .....**

Signature of Chartered Accountant  
.....

Name of Chartered Accountant  
.....

Membership of ICAI

Date and Seal

SIGNATURE (S) OF BIDDER (S)

## **CONDITIONS OF CONTRACT**

### **1. GENERAL**

- 1.1 Conditions of contract shall be read in conjunction with CPWD Specifications, Drawings and any other documents forming part of this contract wherever the context so requires.
- 1.2 Notwithstanding the sub-division of the documents into these separate sections and volume every part of each shall be deemed to be supplementary to and complimentary of every other part and shall be read with and into the CONTRACT so far as it may be practicable to do so.

### **2. SCOPE OF WORK**

- The scope of work includes the construction of a **G+1 school building**, with all necessary civil, plumbing, and electrical works. The structure shall be designed and executed in such a way that **future vertical expansion up to G+2 stories** is feasible without dismantling any major structural elements. The contractor shall coordinate with the structural consultant to ensure necessary provisions such as column and footing sizes, staircase shaft, service ducts, and roof slab design are incorporated during execution.
- Excavation work for the building foundation as per drawing and site level.
- Providing PCC (Plain Cement Concrete) for base level before footing.
- RCC work for footing, columns, beams, roof slab, lintel, and staircase for both ground floor and first floor.
- Cutting, bending, and placing steel rods (reinforcement) for all RCC works.
- Brick/block masonry work for all walls, with space for doors and windows.
- Plastering work for inside and outside walls and ceilings.
- Tiling work on floors using ceramic or vitrified tiles in classrooms, corridors, staff rooms, and toilets.
- Wall tiles fixing in toilet areas.
- Painting work for inside and outside walls – with putty, primer, and paint.
- Waterproofing work in toilets, sunken slabs, and terrace area.
- Electrical work like wiring, switch boards, plug points, light and fan points.
- Plumbing work including water supply pipes, drainage pipes, and fittings.

- Fitting bathroom items like wash basins, toilets (WC), urinals, taps, etc.
- Fixing doors and windows (wooden, UPVC, or aluminium – as required).
- Cleaning and finishing of full building before handover.

### 3. **SITE CONDITIONS AND BARRICADING**

The work is to be carried out inside a **functioning school campus**, hence:

- 3.1** A **permanent barricading arrangement** (GI sheet minimum 2.40m height) shall be installed by the contractor along the construction zone perimeter at his own cost.
- 3.2** The contractor shall ensure that construction activities do not disturb regular school operations.
- 3.3** Entry and exit of labor, movement of materials, and noisy operations like concrete mixing, cutting, or demolition shall be **restricted to non-school hours** (i.e., early mornings, evenings, weekends, or holidays).
- 3.4** Loading/unloading of materials shall be done in early mornings or late evenings only.
- 3.5** All safety precautions must be in place, including fire safety and dust control measures.

### 4. **DRAWINGS AND DOCUMENTS**

- 4.1** The contractor shall execute the work **strictly as per approved architectural and structural drawings** issued by the Department.
- 4.2** The **G+1 structure shall be designed considering G+2 loading and service requirements**, including:
  - 4.3** Columns and footings sized for G+2 load.
  - 4.4** Roof slab thickness to allow stair extension.
  - 4.5** Service ducts and shafts planned for vertical expansion.
  - 4.6** Foundations must be designed for G+2 with structural safety margin.
- 4.7** Any **modification or discrepancy** found at site must be reported immediately to the Engineer-in-Charge and work shall proceed only with written instruction.

- 4.8** Shop drawings for reinforcement, plumbing lines, and electrical conduits shall be prepared by the contractor and submitted for approval before execution.

## **5. SCHEDULE OF QUANTITIES**

The schedule of Quantities shall be read in conjunction with Conditions of contract, Particular Specifications, CPWD Specifications, Drawings and any other documents forming part of this tender.

## **6. WORK EXECUTION MATERIALS**

- 6.1** All materials shall be **used at site only after prior approval** by the school committee.
- 6.2** Materials and brands shall strictly conform to the list of **approved make in Annexure A.1**
- 6.3** No substitution shall be allowed unless unavoidable, and only with written approval of school committee.

## **7. COMPLIANCE STANDARDS**

- 7.1** Work shall comply with the **Kerala Building Rules (latest edition)**.
- 7.2** The construction shall meet all safety, space planning, lighting, and sanitation standards of **CBSE Guidelines for School Buildings**.
- 7.3** Contractor shall follow labor, safety, and welfare rules per Government norms.

## **8. DEFECT LIABILITY PERIOD (DLP)**

- 8.1** DLP shall be **1 year** from the date of actual completion.
- 8.2** Any structural, finishing, plumbing, electrical, or other defects must be rectified by the contractor at his own cost within the DLP.
- 8.3** **10% of the total contract value shall be withheld as Security Deposit (SD)** and released only after successful DLP completion and clearance.

## **9. ABNORMALLY LOW QUOTED ITEM UNDERTAKING**

- 9.1** For any item quoted **30% or more below** the estimate rate:
- 9.2** The contractor must **submit an Undertaking Form** explaining the feasibility of execution at the quoted rate.
- 9.3** The **difference in amount between quoted rate and prevailing market rate** shall be **remitted to the department before awarding the work**.

**9.4** This difference will be refunded if the item is completed without failure. If not, **work will be awarded to L2 bidder.**

## **10. MEASUREMENT AND PAYMENTS**

**10.1** The agency shall submit **detailed measurements and bill** for executed quantities.

**10.2** Bills will be checked by the designated representative of school committee and passed by the school management committee based on site measurements and BOQ.

**10.3** Statutory deductions (GST, IT, Cess, etc.) shall be made as applicable.

**10.4** Payment will be made as per availability of funds and approved progress.

## **11. SITE ENGINEER DEPLOYMENT**

**11.1** The contractor shall **appoint a full-time qualified Site Engineer** at the site throughout the execution period.

**11.2** If B.Tech degree holder – minimum **2 years** experience is mandatory.

**11.3** If Diploma holder – minimum **4 years** experience is required.

**11.4** The credentials of the Site Engineer shall be submitted to the department prior to work commencement and approval must be obtained.

## **12. WATER**

Contractor shall make his own arrangements for water supply for the work and his staff and workmen.

## **13. POWER SUPPLY**

Contractor shall make his own arrangements for power supply for the execution of the work.

## **14. CONTRACT AGREEMENT**

**14.1** The contract agreement shall be executed on a non-judicial stamp paper of value **₹200/-** and cost of the stamp paper shall be borne by the contractor.

**14.2** Contractor's tender including the letters of clarifications between the contractor and the school management prior to the award of contract shall form a part of the Contract Agreement to the extent they have been accepted by School management.

## **15. TENDER OPENING**

**15.1** The tender opening shall be conducted at the date and time specified in the Tender Notice.



- 15.2** As this is a sealed tender, the opening will be carried out by any five members from the management committee, which shall include at least one representative each from the Engineering (Civil) Department, the Engineering (Electrical) Department, and the Finance Department.
- 15.3** Tender applications submitted without valid proof of remittance of the tender fee and Earnest Money Deposit (EMD) shall be summarily rejected without any further communication or clarification.
- 15.4** The sealed tender shall be submitted in two separate envelopes:  
**Envelope 1** shall contain all documents related to the pre-qualification criteria.  
**Envelope 2** shall contain the duly filled Bill of Quantities (BOQ) with quoted rates. The quoted rate should not have correction and should be clearly readable without Ambiguity.
- 15.5** Only those agencies who qualify as per the pre-qualification criteria (Envelope 1) will have their Envelope 2 (financial bid) opened.
- 15.6** Any decision taken by the management committee in this regard shall be final and binding.
- 16. DAMAGE TO PERSON AND PROPERTY**  
The **Contractor shall indemnify and keep indemnified the School Management / Owner** against all losses, liabilities, and claims for any injury or damage caused to any person, any school property, or the property of nearby residents or institutions, arising out of or in consequence of the construction, maintenance, or execution of the works. This includes all **claims, demands, legal proceedings, or expenses** related to such incidents.
- 17. COMPLETION PERIOD**
- 17.1** The total **time allowed for completion of the work is 6 months** from the date of handing over the site.
- 17.2** Any delay without valid justification shall be liable for penalties as per the terms of the agreement. The penalty may be imposed up to 10% of the work value, as determined by the committee

| LIST OF PREFERRED MAKES FOR USE IN AAI WORKS |  |  |
|--|--|--|
| Sl. No.                                      | Name of Product / item   | Proposed Brands / Makes / Manufacturers  |
| 1  | CEMENT   | ACC Ltd. / Ultra Tech / Shree Cement Ltd. / Ambuja / Jaypee / Century / J.K.Laxmi (JK Lakshmi Cement Ltd.) / JK Cement / Nuvoco / Dalmia Cement (Bharat) Ltd. / Birla A1 (Orient cement Ltd.) / Star Cement / PENNA / Max Cement / Ramco Cement / Chettinad Cement / Wonder (Wonder Cement Limited) / JSW Cement / Zuari Cement / Prism Cement   |
| 2  | TMT REINFORCEMENT STEEL  | SAIL / RINL (VIZAG Steel) / TATA TISCON (TATA Steel Limited) / JSW Steel Ltd. / JSPL / Shyam Steel Industries Ltd. / ESL Steel Ltd. / Shyam Metalics & Energy Ltd. / Shri Bajrang Power & Ispat Ltd. / Rashmi Metaliks Limited / SRMB Srijan Private Limited / MS Agarwal Foundries Private Limited / Real Ispat and Power Limited / Jai Balaji Industries Limited / Maithan Steel & Power Limited   |
| 3  | STRUCTURAL STEEL-MS TUBULAR SECTIONS (CIRCULAR,SQUARE,RECT ANGULAR) FOR COLUMNS, TRUSS,MS PIPES, FLATS,ANGLES,BEAMS, CHANNELS, STRIPS ETC. | SAIL / RINL (VIZAG Steel) / TATA Structura (TATA Steel Limited) / JSW Steel Ltd. / JSPL / APL Apollo Tubes Ltd. / Shyam Metalics & Energy Ltd. / Surya Roshni Ltd.<br>Nezone Tubes Ltd. / Utkarsh India Ltd. / Hi-Tech Pipes Ltd.  |
| 4  | VITRIFIED /CERAMIC TILES   | Prism Johnson Limited ( H&R Johnson (India) Ltd.) / NITCO Tiles Ltd. / Somany Ceramics Ltd. / Orient Bell Ltd. / Oracle Granito Ltd. / Kajaria Ceramics Ltd. / RAK Ceramics (RAK Ceramics Ltd.) / AGL(Asian Granito India Ltd.) / Oasis Vitrified Tiles(Oasis Vitrified Pvt. Ltd.) / Varmora Granito Pvt. Ltd. / Qutone Ceramic Pvt. Ltd. / Ambani Vitrified Pvt. Ltd. / Simpulo Vitrified Pvt. Ltd. / Pavit Ceramics Pvt. Ltd. / Aparna Enterprises Ltd. / SUNHEAART CERAMIK(Sunshine Tiles Company Pvt. Ltd) |
| 5  | ALUMINIUM STANDING SEAM ROOFING SYSTEM   | KALZIP (Kalzip India Pvt. Ltd.) / Kingspan (Kingspan Jindal Pvt. Ltd) / BEMO(Bemo System GmbH) /<br>New Look Furnishers  |
| 6  | METAL CEILING TILE/BAFFLE CEILING  | Hunter Douglas India Pvt. Ltd. / Durlum India Pvt. Ltd. / Saint Gobain Gyproc India Ltd. / Knauf Ceiling Solutions(India) Pvt. Ltd.(Formerly Armstrong World Industries (India) Pvt. Ltd.) / USG Knauf (Knauf India Pvt. Ltd.) / Dexune(Dexune Marketing Pvt Ltd.) / Ceiflo Technologies Pvt. Ltd.   |

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| Sl. No. | Name of Product / item   | Proposed Brands / Makes / Manufacturers   |
|---------|--|---|
| 7       | GALVALUME/STEEL SHEET ROOFING ( TOP & BOTTOM) OVER M.S. STRUCTURE  | Tata Bluescope Steel Ltd. / Jindal Steel (Jindal India Ltd.) / JSW Steel Coated Products Limited / APL Apollo Building Products Private Limited / Colorshine Coated Pvt. Ltd.   |
| 8       | ALUMINIUM COMPOSITE PANELS (ACP)   | Alucobond (3A Composite India Pvt. Ltd.) / Alstrong Enterprises India Pvt. Ltd. / Aludecor Lamination Pvt. Ltd / EUROBOND(Euro Panel Product Ltd.) / Alstone(Alstone International ) / VIVA(Viva Composite Panel Pvt Ltd.) / Alutech(Alutech Industries) / VIRGO(Virgo Laminates Ltd.) / Alutuff(Ashoka foam multiplast Pvt. Ltd.) / Alexia Panels / Timexbond Industries Pvt. Ltd.   |
| 9       | HONEYCOMB COMPOSITE PANELS (HCP)   | Alucobond(3A Composite India Pvt. Ltd.) / Aludecor Lamination Pvt. Ltd / EUROBOND(Euro Panel Product Ltd.) / Alstone(Alstone International ) / VIVA(Viva Composite Panel Pvt Ltd.) / Alutuff(Ashoka foam multiplast Pvt. Ltd.)  |
| 10      | ZINC COMPOSITE PANELS (ZCP)  | Aludecor Lamination Pvt.Ltd / Alstone(Alstone International ) / VIVA(Viva Composite Panel Pvt Ltd.) / EUROBOND(Euro Panel Product Ltd.)   |
| 11      | ALUMINIUM EXTRUSIONS / STRUCTURAL MEMBERS  | Hindalco Industries Ltd. / Jindal Aluminium Ltd. / Bhoruka (Bhoruka Extrusions Pvt. Ltd.) / NALCO   |
| 12      | FLOAT GLASS / HIGH PERFORMANCE GLASS   | Saint Gobain Glass India Ltd. / AIS Glass Solution Ltd / Pilkington / Guardian Sun Guard /Modi Guard(Gujarat Guardian Limited) / Sisecam Flat Glass India Pvt. Ltd. / Gold Plus Glass Industry Ltd. / TPRS Enterprises Pvt. Ltd.  |
| 13      | UPVC DOORS & WINDOW  | Aparna venster /Okotech(Aparna Enterprises Ltd.) / Fenesta(Fenesta Building Systems) / Aluplast / NCL Veka Ltd. / Window Magic India Pvt. Ltd. / Rajshri Plastiwood   |
| 14      | WOOD POLYMER COMPOSITE(WPC)  | ECOBORD (Alstone Industries Pvt. Ltd.) / Rajshri Plastiwood ( Div. of Rajshri Productions Pvt. Ltd.) / KAKA Industries Ltd.   |
| 15      | ADMIXTURES /WATER PROOFING COMPOUND/ ACRYLIC CEMENTITIOUS COATING/ LIQUID MEMBRANE (POLYURETHANE & POLYUREA)/HDPE & SELF ADHESIVE MEMBRANE | Pidilite Industries Ltd. / FOSROC Chemicals (India) Pvt. Ltd. / CICO Technologies Ltd. / Sika India Pvt. Ltd. / BASF India Ltd. / MC-Bauchemie (MC-Bauchemie India Pvt. Ltd.) / Ardex Endura (India) Pvt. Ltd. / STP Ltd. / Choksey Chemicals Pvt. Ltd. / MYK Laticrete (MYK Laticrete Pvt. Ltd. / Mapei (Mapei Construction Products Pvt. Ltd) / Chryso India Pvt. Ltd. / Maruti Bitumen Pvt. Ltd. / Penetron India Pvt. Ltd. / Supreme Bituchem India Pvt. Ltd. / Asian Paints Ltd. / IWL India Ltd. / TP Buildtech Pvt. Ltd. / MYK Arment Pvt. Ltd. / Technicol India Pvt. Ltd. / Saint-Gobain India Pvt. Ltd. / Ferrous Crete(India) Pvt. Ltd. / Fair Mate Chemicals Pvt. Ltd. / Berger Paints India Ltd. |
| 16      | BIPOLAR CORROSION INHIBITOR ADMIXTURE  | STP Ltd. / Sika India Pvt. Ltd. / BASF India Ltd. / Chryso India Pvt. Ltd. / Supreme Bituchem India Pvt. Ltd.   |
| 17      | REINFORCEMENT COUPLER  | Dextra / G-Tech / HI-Tech Engineering Solutions / Sanfeild (India) Ltd.   |
| 18      | HARDWARE FITTING   | Dormakaba India Pvt. Ltd. / Q-Railing India Pvt. Ltd. (Formely D-Line) / Hafele India Pvt. Ltd. / GEZE GmbH / Linx Technology Pvt. Ltd. / Assa Abloy / Kich Architectural Products Pvt. Ltd. / Godrej & Boyce / LGF Sysmac India Pvt. Ltd. / Rinox Kaufmann Ltd. / Ozone India Pvt. Ltd. / Everite / Define / Hardwyn(Hardwyn India Ltd.) / Arkay / Dorset Industries Pvt. Ltd. / Prayag Polymers Pvt. Ltd. / Hettich India Pvt. Ltd. / Ozone Overseas Pvt. Ltd.  |
| 19      | STEEL/WOOD FIRE RESISTANT SHUTTER  | Navair Ltd. / Pormat International Ltd. / Shakti Hormann Pvt. Ltd. / Sukri Paints & Chemicals / Iclean / Signum Fire Protection / Pacific(Pacific Fire Controls Pvt. Ltd.) / ASES Security Pvt. Ltd.  |
| 20      | LAMINATES/ LAMINATED PARTICLE BOARD/ PRELAMINATED BOARD/ MDF/ PLY BOARD/FLUSH DOORS  | Greenlam Industries Ltd. / Merino Industries Ltd. / Century Plyboard (I) Ltd. / Nationl Ply / Archidply(Archidply Industries Limited) / Kitply Industries / Novapan / Duro / Mayur Doors / Greenply / ASIS / Greenpanel Industries Limited / Punjab Plywood Industries / Stylam Industries Ltd.   |

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| Sl. No. | Name of Product / item   | Proposed Brands / Makes / Manufacturers  |
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| 21      | GYPSUM BOARD PARTITION   | Saint Gobain Gyproc India Ltd. / USG Knauf (Knauf India Private Limited) / Knauf Ceiling Solutions(India) Pvt. Ltd.(Formerly Armstrong World Industries (India) Pvt. Ltd./ Kanuf AMF India Pvt. Ltd.) / Vans Gypsum  |
| 22      | FASTENERS/ANCHOR FASTENERS   | Hilti(Hilti (India) Pvt. Ltd.) / Fischer / BOSCH / Fasteners India / Mungo / Rawl Plug   |
| 23      | WOODEN LAMINATED FLOORING/ VINYL FLOORING / RUBBER FLOORING  | Pergo Ltd. / Action Tesa / Unitex / Knauf Ceiling Solutions(India) Pvt. Ltd.(Formerly Armstrong World Industries (India) Pvt. Ltd.) / Epitome / Scheit / Responsive Industries Ltd. / Greenlam Industries Ltd. / Greenpanel Industries Ltd.  |
| 24      | EPOXY/PU FLOORING  | STP Ltd. / Sika India Pvt. Ltd. / BASF India Ltd. / FOSROC Chemicals (India) Pvt. Ltd. / Tremco CPG (India) Pvt. Ltd. / Cipy Polyurethanes Pvt. Ltd / NITCO Tiles Corp. / Maruti Bitumen Pvt. Ltd. / Supreme Bituchem India Pvt. Ltd. / Chryso India Pvt. Ltd. / Saint-Gobain India Pvt. Ltd. / Bostik India Pvt Ltd. / Asian Paints Ltd. / Pidilite Industries Ltd. / Berger Paints India Ltd. / MYK Arment Pvt. Ltd.     |
| 25      | TILE JOINT FILLER, TILE/AAC BLOCK/ STONE FIXING ADHESIVE/ SOLID EPOXY GROUT  | Ardex Endura (India) Pvt. Ltd. / Ferrouscrete India Pvt.Ltd / MYK Laticrete (MYK Laticrete Pvt. Ltd.) / Pidilite Industries Ltd. / FOSROC Chemicals (India) Pvt. Ltd. / BASF India Ltd. / Fairmate(Fair Mate Chemicals Pvt.Ltd.) / STP Ltd. / Home Pride Adhesive Pvt. Ltd. / Saint-Gobain India Pvt. Ltd. / Berger Paints India Ltd. / Somany Ceramics Ltd.   |
| 26      | FLOOR HARDENER   | STP Ltd. / Sika India Pvt. Ltd. / BASF India Ltd. / Pidilite Industries Ltd. / FOSROC Chemicals (India) Pvt. Ltd. / Ironite / Mapei (Mapei Construction Products Pvt. Ltd.) / Chryso India Pvt. Ltd. / Supreme Bituchem India Pvt. Ltd. / Saint-Gobain India Pvt. Ltd. / MYK Arment Pvt. Ltd.  |
| 27      | POLYCARBONATE SHEET  | Lexan/Sabic (GE Plastic) / Dan Pal / Polygal India Pvt. Ltd. / Gallina India Pvt. Ltd. / Coxwell Domes (Coxwell Domes Engineers Pvt. Ltd.) / Tuflite / DPI Daylighting Pvt Ltd.  |
| 28      | CALCIUM SILICATE /MINERAL FIBER FALSE CEILING TILES/GYPSUM FALSE CEILING BOARDS/ PARTITION BOARDS  | Saint Gobain Gyproc India Pvt. Ltd. / Llyod Insulation India Ltd. / Knauf Ceiling Solutions(India) Pvt. Ltd.(Formerly Armstrong World Industries (India) Pvt.Ltd./Knauf AMF India Pvt. Ltd.) / Aerolite Ceiling System/Andhra Polymers Pvt. Ltd. / USG Knauf (Knauf India Pvt Ltd.) / Hilux(Ramco Industries Ltd) / Gridline / Everest / Dexune(Dexune Marketing Pvt Ltd.) / Vans Gypsum / New Age False Ceiling Pvt. Ltd. |
| 29      | FIBER CEMENT BOARD/ CEMENT BOARD   | Bison (NCL Industries Ltd.) / Hicem(Ramco Industries Ltd. ) / Everest (Everest Industries Ltd.) / Visaka Industries Ltd.   |
| 30      | PAINTS FOR STEEL STRUCTURE (EPOXY PAINTS)/ PU PAINTS/ WATER PROOF CEMENT PAINTS/ PRIMER/ DISTEMPER/ TEXTURE FINISH PAINT/ SYNTHETIC ENAMEL PAINT/ FIRE RETARDANT PAINT | Akzo Nobel India Pvt. Ltd. / Jenson & Nicholson / Oikos India Pvt.Ltd. / Asian Paints Ltd. / Berger Paints India Ltd. / Nerolac / Acro Paints Ltd. / Snowcem India Ltd. / Shalimar (Shalimar Paints Ltd.) / Jotun / Grauer & Weil (India) Ltd. / STP Ltd. / Hempel Paints India Pvt. Ltd.  |
| 31      | WALL PUTTY   | J.K.Cement / Toyo Ferrouscrete India Pvt. Ltd. / Birla White / Dalmia Magic Premium Skim Coat(Dalmia Cement (Bharat) Ltd.) / Asian Paints Ltd. / NCL Buildtek Pvt. Ltd. / Ferrous Crete(India) Pvt. Ltd. / Saint-Gobain India Pvt. Ltd.  |
| 32      | EXPANSION JOINT FILLER BOARD/ JOINT COVERS   | Vexcolt International Ltd. (U.K) / Construction Specialities (USA) / The Supreme Industries Ltd. / STP Ltd. / Dupont / Sanfeild / Hercules / Z-Tech / DECG International / M.M.Systems / Kantaflex-Balco (Kantaflex (India) Pvt. Ltd.) / Mapei(Mapei Construction Products Pvt. Ltd.) / Migua / Insuboard / Soprema / Supreme Bituchem India Pvt. Ltd.   |

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| Sl. No. | Name of Product / item   | Proposed Brands / Makes / Manufacturers  |
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| 33      | GLASS GRID FOR BITUMINOUS WORKS  | Saint Gobain ADFORS / Maccaferri Environmental Solutions Pvt. Ltd. / Techfab Industries Ltd. / Giridhar Techfab Pvt. Ltd. / Terrain Infratech / Flexituff International Ltd. / Supreme Non-Woven Ind. Pvt. Ltd.  |
| 34      | RUNWAY MARKING PAINT (WATER BASED)   | Nerolac / Berger Paints(Berger Paints India. Ltd.) / Asian Paints Ltd. / ITS Coating Pvt.Ltd. / Supreme Bituchem India Pvt. Ltd. / STP Ltd.  |
| 35      | SANITARY WARE/ FIXTURE/ FITTINGS   | Kohler Co. (USA) / Jaquar and Company Pvt. Ltd. / American Standard / HINDWARE / QUEO (Hindware limited) / PARRYWARE / ROCA (Roca Bathroom Products Pvt. Ltd.) / Grohe AG (Germany) / Franke (Switzerland) / Bobrick Washroom Equipment Inc. / Duravit / Marc / H&R Johnson (India) Ltd/Prism Johnsons Ltd. / CERA/Senator (Cera Sanitaryware Ltd.) / Somany Ceramics Ltd. / Dolphy India Pvt. Ltd. / Rak Ceramics India Pvt. Ltd.<br>Euronics (Euronics Industries Pvt.Ltd.) ( Except SS Napkin and Soap Dispenser) |
| 36      | GLASS MIRROR   | Saint Gobain Glass India Ltd. / Pilkington / AIS Glass Solution Ltd / Modi Guard (Gujarat Guardian Ltd.) / Atul Ltd. / Glaverbel / Sisecam Flat Glass India Pvt. Ltd.  |
| 37      | SS SINK  | Nirali (Jyoti Kitchen Industries Pvt. Ltd.) / Jayna / Franke (Switzerland) / Prayag(Prayag Polymers (P) Ltd.) / Cera Sanitaryware Ltd.   |
| 38      | SPECIALY-ABLED FITTING   | Pressalit Ltd. / Hindustan / Euronics Industries Pvt. Ltd.   |
| 39      | G.I. PIPE FITTINGS   | Unik / Zoloto Malleables / Leader Valves Ltd. / Surya / R-Brand / KS / SS  |
| 40      | SOIL WASTE & VENT PIPES & FITTINGS AND WATER SUPPLY PIPES- SAND CAST IRON S&S/ CENTRIFUGALLY CAST (SPUN) S&S/ HUBLESS CENTRIFUGALLY CAST SPUN IRON PIPES | NECO(Jayaswal Neco Industries Ltd.) / BIC / RIF / Electrosteel Steels casting Ltd. / SKF / Kapilansh Dhatu Udyog(P) Ltd. / Saint Gobain / HEPCO(Binay Udyog Pvt Ltd.) / Raj Pattern Makers & Founders Pvt. Ltd.  |
| 41      | SOIL WASTE & VENT PIPES & FITTINGS AND WATER SUPPLY PIPES- CENTRIFUGALLY (SPUN) CI PIPES CLASS 'LA' DUCTILE IRON PIPE                                    | Kesoram / Electro Steel casting Ltd / NECO(Jayaswal Neco Industries Ltd.) / BIC / TATA / RIF / SAIL  |
| 42      | CI MANHOLE COVERS & CI GRATING   | NECO(Jayaswal Neco Industries Ltd.) / BIC / RIF / Electro Steel casting Ltd. / SKF / Kesoram / Kapilansh Dhatu Udyog(P) Ltd. / Kartar / HEPCO (Binay Udyog Pvt Ltd.)   |
| 43      | STRUCTURAL/ WEATHER SEALANT FOR STRUCTURAL GLAZING/ACP   | Wacker / Dow corning / G.E. Plastics / Pidilite Industries Ltd. / FOSROC Chemicals (India) Pvt. Ltd. / BASF India Ltd. / STP Ltd. / Rawl Plug / Choksey Chemicals Pvt. Ltd. / Supreme Bituchem India Pvt. Ltd. / Maruti Bitumen Pvt. Ltd. / Sika India Pvt. Ltd.   |
| 44      | POLY SULPHIDE / POLYURETHANE SEALANT FOR JOINTS  | FOSROC Chemicals (India) Pvt. Ltd. / Choksey Chemicals Pvt. Ltd. / Pidilite Industries Ltd. / Sika India Pvt. Ltd. / Dow corning / MYK Laticrete (MYK Laticrete Pvt. Ltd.) / Tuffseal / Wacker / G.E. / STP Ltd. / ASF India Ltd. / Maruti Bitumen Pvt. Ltd. / Chryso India Pvt. Ltd. / Supreme Bituchem India Pvt. Ltd. / Bostik India Pvt Ltd / MYK Arment Pvt. Ltd. / McCoy Soudal Sealants Adhesives & Foams Pvt. Ltd.   |
| 45      | MODULAR S.S. /GLASS RAILING  | Dormakaba India Pvt. Ltd. / Jindal Lifestyle Ltd. / GEZE GmbH / Q-Railing India Pvt. Ltd. (Formerly D-Line) / Linx Technologies Pvt. Ltd. / Kich Architectural Products Pvt. Ltd. / Ozone India Pvt. Ltd. / Assa Abloy / Rinox Kaufmann Ltd.   |
| 46      | COMPACT LAMINATE TOILET CUBICAL/URINAL PARTITIONS  | Greenlam Sturdo (Greenlam Industries Ltd.) / Merino Industries Ltd. / Bobrick Washroom Equipment Inc. / Dormakaba India Pvt. Ltd. / Trespa / T-Line(INNER SPACE) / Stylam Industries Ltd.  |
| 47      | SOLID ACRYLIC SURFACE BOARDS   | Dupont / LG-Himacs (LX Hausys India Pvt. Ltd) / Hanex / GMGR India (Samsung Staron) / Neonnex  |

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| Sl. No. | Name of Product / item   | Proposed Brands / Makes / Manufacturers   |
|---------|--|---|
| 48      | TENSILE FABRIC   | Mehler Texnologies (Low & Bonar India Pvt. Ltd.) / Serge Ferrari India Pvt. Ltd. / Sattler PRO-TEX  |
| 49      | AUTOCLAVED AERATED CEMENT (AAC) BLOCKS                               | Magicrete Building Solutions Pvt. Ltd. / Finecrete Eco-Blocks Pvt. Ltd. / Aerocon / Bilt Technologies / JK / Instablock / Max Blocks / RS Green Infra (India) Pvt. Ltd. / Siporex / Kataria Ecotech. Pvt. Ltd. / Krish White Bricks LLP / Jindal AIR / NCL Buildtek Pvt. Ltd. |
| 50      | AUTOMATIC REVOLVING / SWING DOOR                                     | Dormakaba India Pvt. Ltd. / Hafele India Pvt. Ltd. / GEZE GmbH / Gilgen Door System AG / Linco Technology Pvt. Ltd. / Assa Abloy / Autoingers   |
| 51      | WALKWAYS/FALL PROTECTION SYSTEM                                      | WULMET / Latchways (Fall Arrest Systems & Technologies Pvt. Ltd.) / Capital Safety(3M SAMCO) / Honeywell / Checkmate / Karam Safety Pvt. Ltd. / Kingspan Jindal Pvt. Ltd.   |
| 52      | ROOF HATCH   | NYSTROM / BABENKO / BILCO / Checkmate   |
| 53      | GYPSUM PLASTER/ POLYMER MODIFIED SELF CURING MORTAR                  | Ferrous Crete(India) Pvt. Ltd. / Ultra Tech / Saint Gobain Gyproc India Ltd. / Dow Construction Chemicals / BASF India Ltd. / Asian Paints Ltd. / Saint-Gobain India Pvt. Ltd.  |
| 54      | CURING COMPOUND (RESIN BASED & WAX BASED)                            | FOSROC Chemicals (India) Pvt. Ltd. / Sika India Pvt. Ltd. / BASF India Ltd. / Supreme Bituchem India Pvt. Ltd. / CICO Technologies Ltd. / STP Ltd. / Berger Paints India Ltd.   |
| 55      | DECORATIVE FILMS/ SAFETY FILMS                                       | 3M / Avery Dennison / Deck  |
| 56      | STEEL NANO COAT  | Four Solutions Pvt. Ltd. / Meta-Chem Paints & Adhesives Pvt. Ltd. / Advanced Lab  |
| 57      | GEOTEXTILE PRODUCTS  | TechFab India Industries Ltd. / Strata Geosystems (India) Pvt. Ltd. / Suntech Geotextile Pvt. Ltd.  |
| 58      | SOIL REINFORCEMENT GEOSYNTHETICS                                     | Maccaferri Environmental Solutions Pvt. Ltd. / Strata Geosystems (India) Pvt. Ltd. / Tech Fab India Industries Ltd.   |
| 59      | UPVC/CPVC/SWR PVC PIPES & FITTINGS                                   | The Supreme Industries Ltd. / Finolex Industries Ltd / Savoir Faire Manufacturing Co. Pvt. Ltd. / AKG Extrusions Pvt Ltd. / Surya Roshni / Astral / Prince / Ori-plast / Ashirvad / Vectus / Prayag(Prayag Polymers Pvt. Ltd.) / Balco / Texmo Pipes and Products Ltd.        |
| 60      | ROCKWOOL GLASSWOOL INSULATION  | UP Twiga / Roxul-Rockwool / Rockloyd / Rockwool India / Lloyd Insulations India Ltd. / Polybond Insulation Pvt. Ltd.  |
| 61      | G.I. PIPE  | Tata Steel Ltd. / Jindal Pipes Ltd. / Surya Roshni (Surya Roshni Ltd.) / APL Apollo Tubes Ltd. / Zenith / Utkarsh Pipes & Tubes Ltd. / Nezone Tubes Ltd. / Hi-Tech Pipes Ltd. / Jotindra Steel & Tubes Ltd.   |
| 62      | SLUICE VALVE/PRESSURE REDUCING VALVE/NON-RETURN VALVE (CI/GUN METAL) | Sant Valves Pvt. Ltd. / Zoloto / Audco(L&T) / Castle / Leader Valves Ltd. / Kartar / Honeywell / IVC  |
| 63      | HDPE PIPES   | Geberit / Saint Gobain / Savior Faire Manufacturing Co. Ltd. / Jain Irrigation / Ori-plast / East - Hooghly Agro Plantation Pvt. Ltd.   |

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**LIST OF PREFERRED MAKES FOR ELECTRICAL ITEMS**

Note: The following list of preferred makes is exhaustive. However, additional manufacturers or brands may be considered for any specified product or item, depending on market availability, delivery timelines and proven satisfactory performance in similar projects or works—preferably where such a make or product has been used in quantities constituting at least eighty percent (80%) of the estimated or proposed requirement for the relevant project or work. To establish performance, completion certificates, performance certificates and purchase orders accompanied by tax invoices will be considered, provided that the products comply with the technical specifications stipulated in the tender document.

| ITEM CODE | ITEMS   | PREFERRED MAKES (W.E.F. 10.07.2025)   | CATEGORY FOR TEST CERTIFICATION/ INSPECTION |
|-----------|---|---|---|
| <b>A.</b> | <b>PANEL, SWITCHGEARS AND RELATED ITEMS</b>                     |   |   |
| 1         | LT PANELS (TTA)   | MAK / SHIV SHAKTI ENGINEERS / TECHNOCRAFTS / TENCO / KONTACT / ABB / RISHA / MARINE ELECTRICALS / POWERTECH SWITCHGEARS / ULTIMA / RITTAL / URJAYANT / EXCEL CONTROL SYSTEMS / BALAJI ELECTRO CONTROLS PVT LTD / KRUTI / CMKL(CORE METAL) / KEPL(KHOKHAR) / LEGRAND (NOVATEUR) / CONQUERENT / MITSUBISHI / LS POWER / ZENIYA / NEPTUNE / LAURITZ KNUDSEN / C&S / BCH / ADVANCE / TRICOLITE / SCHNEIDER / SUDHIR / EAP / TRISQUARE / MILESTONE / ADLEC / UNILEC / CONSOUL (RR ISPAT) / PEATON/ HAROLD/ SPC ELECTROTECH / SIEMENS   | CATEGORY-1                                  |
| 2         | LT PANELS / FEEDER PILLAR (PTTA) / BUS TRUNKING                 | EXPERT ENGINEERS / MAK / APPLICATION CONTROL PANEL / AMBIT / ADLEC / SHIV SHAKTI ENGINEERS / TECHNOCRAFTS / EXCEL CONTROL SYSTEMS / GLOBAL / SUPERTECH CONTROL SYSTEMS / SWITCHGEARS & FABRICATORS / KONTACT / MARINE ELECTRICALS / R.P. CONTROLS / GOURAV EnerGen / TENCO / POWERTECH SWITCHGEARS / HAROLD / BALAJI ELECTRO CONTROLS PVT LTD / URJAYANT / KRUTI / ASES / ITE-GURGAON (INDIAN TRANSFORMERS) / LEGRAND (NOVATEUR) / CONQUERENT / CORONET / RST ELECTRICALS PVT LTD / HPL / C&S / LS POWER / ZENIYA / PRECISION / ABB / EAP / TRICOLITE / SUDHIR / SCHNEIDER / LAURITZ KNUDSEN / NEPTUNE / HENSEL / ADVANCE / KEPL(KHOKHAR) / PEATON / RISHA / TRISQUARE / CMKL (CORE METAL) / SPC ELECTROTECH / BCH / MILESTONE / YOGIJI DIGI (P) LTD / ELINS / EVA / UNILEC / HAROLD / ENGINEERS & ENGINEERS / SIEMENS / ULTIMA / NITYA | CATEGORY-1                                  |
| 3         | AIR CIRCUIT BREAKERS  | LS ELECTRIC / BCH / MITSUBISHI / HPL / LAURITZ KNUDSEN / LEGRAND (NOVATEUR) / ABB / C&S / HAVELLS / SCHNEIDER / SIEMENS   | CATEGORY-2                                  |
| 4         | MOULDED CASE CIRCUIT BREAKERS (MCCB)                            | LS ELECTRIC / BCH / MITSUBISHI / LAURITZ KNUDSEN / LEGRAND (NOVATEUR) / ABB / C&S / HAVELLS / INDO ASIAN (NOVATEUR) / HPL / SCHNEIDER / SIEMENS   | CATEGORY-2                                  |
| 5         | CHANGE OVER SWITCH/ FUSE DISCONNECTOR SWITCH/ SWITCH FUSE UNITS | BENTEC / BCH / INDO ASIAN (NOVATEUR) / SOCOMEC / LAURITZ KNUDSEN / C&S / LEGRAND (NOVATEUR) / HPL / ABB / HAVELLS / SIEMENS / SCHNEIDER   | CATEGORY-2                                  |
| 6         | METERS / MULTIFUNCTION METERS -ANALOGUE/DIGITAL                 | ELMEASURE / KRYKARD / SELEC / C&S / ABB / BENTEC / SELEC / C&S / MITSUBISHI / ABB / NEPTUNE / SOCOMEC / HPL / LAURITZ KNUDSEN / FINDER / SIEMENS / SCHNEIDER / CONSERVE / SECURE  | CATEGORY-3                                  |
| 7         | SELECTOR SWITCH, PUSH BUTTON SWITCH / EMERGENCY SWITCH          | ABB/ TRINITY TOUCH / LAURITZ KNUDSEN / C&S/ BCH/ EATON / TEKNIC / SIEMENS / SCHNEIDER   | CATEGORY-3                                  |
| 8         | CT's / PT's   | GLOBAL / KRUTI / WAGO / CG POWER / SELEC / NEWTEK / ANANT POWER (ADVANCE) / KAPPA   | CATEGORY-3                                  |
| 9         | PROTECTIVE RELAYS (ALL TYPE)                                    | P2 POWER / WAGO / SELEC / HAVELLS / MITSUBISHI / LAURITZ KNUDSEN / CG POWER / C&S / ABB / SIEMENS   | CATEGORY-2                                  |
| 10        | CONTACTORS  | MITSUBISHI / HPL / LAURITZ KNUDSEN / C&S / BCH / HAVELLS / ABB / TDK / SIEMENS / LEGRAND (NOVATEUR) / SCHNEIDER   | CATEGORY-3                                  |
| 11        | TIMERS / TIME SWITCH- ANALOGUE/DIGITAL                          | HAVELLS / LAURITZ KNUDSEN / SELEC / BCH / ABB / LEGRAND (NOVATEUR) / EATON / FINDER / SIEMENS / SCHNEIDER / C&S   | CATEGORY-3                                  |
| 12        | LED INDICATION LAMPS  | EATON / OLIVE / ABB / LAURITZ KNUDSEN / C&S / BCH / VINAY LED / VAISHNOV / SCHNEIDER  | CATEGORY-3                                  |

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| ITEM CODE | ITEMS  | PREFERRED MAKES (W.E.F. 10.07.2025)  | CATEGORY FOR TEST CERTIFICATION/ INSPECTION |
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| <b>B.</b> | <b>SUBSTATION RELATED ITEMS</b>  |  |   |
| 13        | TRANSFORMER UP TO 500 KVA (DRY/OIL)  | POWERWARE / ITE, GURGAON / ESENNAR / PVJ POWER / TRANSCON / AMES IMPEX / POWER STAR / JAY BEE / RTS / CG POWER / SUDHIR / VOLTAMP / BHARAT BIJLEE / KOTSONS/ SCHNEIDER / KIRLOSKAR   | CATEGORY-1                                  |
| 14        | TRANSFORMER MORE THAN 500 KVA (DRY/OIL)  | POWERWARE / ITE, GURGAON / ESENNAR / PVJ POWER / TRANSCON / AMES IMPEX / POWER STAR / JAY BEE / RTS / CG POWER / SUDHIR / VOLTAMP / KOTSONS/ SCHNEIDER / BHARAT BIJLEE / KIRLOSKAR / SIEMENS   | CATEGORY-1                                  |
| 15        | H T PANEL  | APPLICATION CONTROL PANEL / SHIV SHAKTI ENGINEERS / ITE, GURGAON / TECHNOCRAFTS / TENCO / MARINE ELECTRICALS / PASCAL / KEPL(KHOKHAR) / CONQUERENT / RISHA / CORONET / L.S POWER / ZENIYA / EAP / CG POWER (CFPISL) / TRICOLITE / SUDHIR / LAURITZ KNUDSEN / ABB / TRISQUARE / SCHNEIDER / MILESTONE / EATON / ANANT POWER (ADVANCE) / ADLEC / SIEMENS   | CATEGORY-1                                  |
| 16        | BUS DUCT-SANDWICH  | RISHA / ADVANCE / RR KABEL / LAURITZ KNUDSEN / C&S / LEGRAND (NOVATEUR) / EAE / SCHNEIDER  | CATEGORY-2                                  |
| 17        | H.T./L.T.TERMINATION & JOINTING KIT.   | DENSONS / CABSEAL® (HARI CONSOLIDATED) / COMPAQ / RAYCHEM  | CATEGORY-3                                  |
| 18        | POWER CABLES ABOVE 1.1 KV  | V-MARC / SBEE / SUYOG ELECTRICALS LTD / DICABS / APAR / GEMSCAB / HPL / RR KABEL / SPECIAL CABLES / JMW KABEL / PARAMOUNT / TIRUPATI / KEC / POLYCAB / DYNAMIC / HAVELLS / KEI / UNISTAR / GLOSTER / RAVIN CABLES / NICCO  | CATEGORY-1                                  |
| 19        | POWER CABLES UP TO AND INCLUDING 1.1 KV  | ALLCAB / AURAFLEX / V-MARC / VISHAL / SBEE / POLYCORE / VIN POWER / TORTEK / SUYOG ELECTRICALS LTD / GEMSCAB / RR KABEL / PLAZA / SPECIAL CABLES / KEI / JMW KABEL / POLYCAB / AVOCAB (CHANDRESH) / DYNAMIC / PARAMOUNT / SVARN / RALLISON (LKB) / BCH / TIRUPATI / KEC / GRANDLAY / HPL / GLOSTER / BONTON / HAVELLS / UNISTAR / APAR / RAVIN CABLES / NICCO                                      | CATEGORY-1                                  |
| 20        | CONTROL CABLES   | GEMSCAB / ALLCAB / AURAFLEX / V-MARC / SBEE / POLYCORE / TORTEK / NICCO / SUYOG ELECTRICALS LTD / RR KABEL / PLAZA / SPECIAL CABLES / JMW KABEL / AVOCAB (CHANDRESH) / PARAMOUNT / SVARN / RALLISON (LKB) / BCH / BONTON / TIRUPATI / KEI / KEC / GRANDLAY/ UNISTAR / NATCAB (KUALITY) / HPL / POLYCAB / DYNAMIC / ALOKE (ANKUR) / HAVELLS / GLOSTER / FINECAB / APAR / BATRA HENLAY/ RAVIN CABLES | CATEGORY-1                                  |
| 21        | TELEPHONE CABLE  | POLY INFOCOM CABLES PVT LTD / ORBIT / DUCAB / RR KABEL / PLAZA / JMW KABEL / PARAMOUNT / ALOKE (ANKUR) / RALLISON (LKB) / BONTON / TIRUPAT / HAVELLS / KEI / KEC / KVVS (INDUSTIRAL) / HPL / POLYCAB / NICCO   | CATEGORY-2                                  |
| 22        | CO- AXIAL/ INSTRUMENTATION/ FIBRE OPTIC/ CAT-6 / CAT-6A CABLES   | AURAFLEX / SBEE / TORTEK / SUYOG ELECTRICALS LTD / ORBIT / POLYCORE / POLY INFOCOM CABLES PVT LTD / BATRA HENLAY / GEMSCAB / RR KABEL / PLAZA / SPECIAL CABLES / JMW KABEL / POLYCAB / PARAMOUNT / LEGRAND(NOVATEUR) / SVARN / RALLISON (LKB) / BONTON / HAVELLS / KEI / ROSENBERGER / KEC / GRANDLAY / GLOSTER / SCHNEIDER / APAR   | CATEGORY-2                                  |
| 23        | GI / SS CABLE MANAGEMENT SYSTEM (CABLE TRAY-PRE-FABRICATED/ PERFORATED / LADDER TYPE / WIRE MESH TYPE, ETC.) | GLOBAL / OBO BETTERMANN / MM ENTERPRISES / GLOBE / BEC / RMCON (RMG) / EXCEL CONTROL SYSTEMS / ADVANCE- ANANT / RMSCO (RAJASTHAN METAL) / SUMIP / CTM / L.S POWER / LEGRAND (NOVATEUR) / INDIANA / MM ENGG / SLOTCO / MEM  | CATEGORY-3                                  |
| 24        | UNDER FLOOR RACEWAYS & ITS ACCESSORIES   | OBO BETTERMANN / BEC / ADVANCE- ANANT / SPC ELECTROTECH / CTM / MM ENTERPRISES   | CATEGORY-3                                  |
| 25        | CAPACITORS   | SELEC / NEPTUNE / LAURITZ KNUDSEN / P2 POWER / LEGRAND (NOVATEUR) / HAVELLS / TDK INDIA / SCHNEIDER  | CATEGORY-2                                  |

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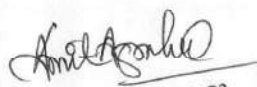
| ITEM CODE | ITEMS  | PREFERRED MAKES (W.E.F. 10.07.2025)   | CATEGORY FOR TEST CERTIFICATION/ INSPECTION |
|-----------|--|---|---|
| 26        | APFC PANEL/ ACTIVE & PASSIVE (HYBRID) PANEL                    | MAK / APPLICATION CONTROL PANEL / SHIV SHAKTI ENGINEERS / TENCO / RISHA / INPHASE POWER TECHNOLOGIES PVT LTD / GLOBAL / R.P. CONTROLS / ULTIMA / SUPERTech CONTROL SYSTEMS / SWITCHGEARS & FABRICATORS (SGF) / POWERTECH SWITCHGEARS / HAROLD / AB POWER / URJAYANT / SELEC / EAP / CG POWER / P2 POWER / KEPL (KHOKHAR) / ITE-GURGON (INDIAN TRANSFORMERS) / CONQUERENT / BCH / ANANT POWER (ADVANCE) / RISHA / HAVELLS / CORONET / SPC ELECTROTECH / PEATON / L.S POWER / MILESTONE / LAURITZ KNUDSEN / LEGRAND (NOVATEUR) / C&S / NEPTUNE / SCHNEIDER / NEPTUNE / P2 POWER / SELEC / ANANT POWER (ADVANCE) / SCHNEIDER / SPC ELECTROTECH / ADLEC / RST ELECTRICALS PVT LTD / TDK INDIA / TRICOLITE / AMBIT | CATEGORY-1                                  |
| 27        | LIGHTENING PROTECTION SYSTEM (LPS) COMPLYING UPDATED IEC / NBC | JEF / OBO BETTERMANN / GROUND ECA3G / NEXPO POWER SOLUTIONS / CAPE / JMV / ABB / DEHN / PHEONIX / TERCEL  | CATEGORY-3                                  |
| 28        | EARTHING SYSTEM (CHEMICAL)                                     | JEF / OBO BETTERMANN / GROUND ECA3G / TERCEL / BEC / DEHN / ABB / JMV / NEXPO POWER SOLUTIONS / RMSCO (RAJASTHAN METAL) / CAPE / JK CHEMRODE / PROTEC-DHRUVA (DHRUVA) / APS   | CATEGORY-3                                  |
| 29        | SURGE PROTECTION DEVICES                                       | OBO BETTERMANN / DSS / GROUND ECA3G / TERCEL / WAGO / HAVELLS / ABB / CAPE / LAURITZ KNUDSEN / LEGRAND (NOVATEUR) / DEHN / MERSEN / JMV / PHOENIX CONTACT / PROTEC ALLIED / SECOM / CITEL   | CATEGORY-3                                  |
| 30        | SCADA (HARDWARE & SOFTWARE, EXCEPT COMPUTER & ACCESSORIES)     | LAURITZ KNUDSEN / WAGO / PHOENIX CONTACT / HONEYWELL / SCHNEIDER / SIEMENS  | CATEGORY-2                                  |
| 31        | SF6 CIRCUIT BREAKER/ VACUUM CIRCUIT BREAKER                    | EATON / VOLTAMP / LAURITZ KNUDSEN / PASCAL / EATON / CG POWER / ABB / SCHNEIDER / SIEMENS   | CATEGORY-2                                  |
| 32        | SERVO / AUTOMATIC VOLTAGE STABILIZER                           | POWERWARE / KRYKARD / FUJI ELECTRIC / PVJ POWER / SELEC / ITE-GURGON (INDIAN TRANSFORMERS) / P2 POWER   | CATEGORY-2                                  |
| 33        | AUTO TRANSFER SWITCH (ATS)                                     | EATON / HPL / LAURITZ KNUDSEN / LEGRAND (NOVATEUR) / SOCOMEC / HAVELLS / ASCO (SCHNEIDER)   | CATEGORY-2                                  |
| 34        | COMPACT SUB STATION  | PVJ POWER / CORONET / ITE-GURGON (INDIAN TRANSFORMERS) / CONQUERENT / SUDHIR POWER / PEATON / L.S POWER / VOLTAMP / LAURITZ KNUDSEN / ABB / SCHNEIDER   | CATEGORY-1                                  |
| 35        | EMERGENCY LIGHT - LED (PORTABLE)                               | LIFE-GUARD / PROLITE  | CATEGORY-3                                  |
| 36        | CABLES GLANDS  | HENSEL / POLYCAB / TRINITY TOUCH / ROXTEC / BRACO / MCI / (METAL/ CRAFT)  | CATEGORY-3                                  |
| 37        | LUGS & THIMBLES  | WAGO / POLYCAB / TRINITY TOUCH  | CATEGORY-4                                  |
| 38        | SYNTHETIC / PVC INSULATING MATS                                | CPRI certified for required voltage level   | CATEGORY-2                                  |
| 39        | INSULATION TAPE (HT / LT)                                      | MODI's / BENLO / ANCHOR   | CATEGORY-4                                  |
| <b>C</b>  | <b>DG SETS &amp; RELATED ITEMS</b>                             |   |   |
| 40        | DIESEL ENGINE ABOVE 250 KVA                                    | GREAVES COTTON / BAUDOUIN (SHANDONG) / MAHINDRA POWEROL / PERKINS / CUMMINS / KOEL / CATERPILLAR  | CATEGORY-1                                  |
| 41        | DIESEL ENGINE UPTO AND INCLUDING 250 KVA                       | GREAVES COTTON / BAUDOUIN (SHANDONG) / TMTL (TAFE MOTERS) / CUMMINS / MAHINDRA POWEROL / ASHOK LEYLAND / KOEL / CATERPILLAR   | CATEGORY-1                                  |

  
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| ITEM CODE                              | ITEMS  | PREFERRED MAKES (W.E.F. 10.07.2025)   | CATEGORY FOR TEST CERTIFICATION/ INSPECTION |
|--|--|---|---|
| 42                                     | ALTERNATOR   | TDPS (TD POWER SYSTEM) / KIRLOSKAR / CATERPILLAR / GREAVES COTTON   | CATEGORY-1                                  |
| 43                                     | BATTERIES-LED ACID/LI-ION  | CLN / EXIDE / AMARON  | CATEGORY-3                                  |
| 44                                     | BATTERY CHARGER  | SELEC / VERTIV / DELTA  | CATEGORY-2                                  |
| 45                                     | UPS - ABOVE 10 KVA   | DELTA / ORION / FUJI ELECTRIC / KRYKARD / 3EM / PROSTARM / UNILINE/ TMEIC / POWER ONE / RIELLO / ABB / SOCOMEC / EATON / SCHNEIDER / NUMERIC-LEGRAND/ VERTIV (EMERSON)  | CATEGORY-3                                  |
| 46                                     | UPS - UPTO 10 KVA  | DELTA / ORION / FUJI ELECTRIC / KRYKARD / PROSTARM / RIELLO / UNILINE / ABB / POWER-ONE / DELTA / SOCOMEC / EATON / SCHNEIDER / NUMERIC-LEGRAND / VERTIV (EMERSON)  | CATEGORY-3                                  |
| <b>D INTERNAL WIRING RELATED TEAMS</b> |  |   |   |
| 47                                     | MCB / ISOLATOR / MCBDB / RCCB / RCBO / ELCB  | ANCHOR (PANASONIC) / ORIENT ELECTRIC / LAURITZ KNUDSEN / MITSUBISHI / LEGRAND (NOVATEUR) / C&S / HPL / ABB / POLYCAB / HAVELLS / SCHNEIDER / INDO ASIAN (NOVATEUR) / GM / MK HONEYWELL / BCH / EATON  | CATEGORY-2                                  |
| 48                                     | MS CONDUIT (ISI MARKED)  | VPL / BEC / AKG / STEEL KRAFTS / TRINITY TOUCH / RMCON (RMG STEELS) / SUPER / JPC PIPES   | CATEGORY-3                                  |
| 49                                     | PVC CONDUIT (ISI MARKED)   | VPL / FUSION / ASTRAL / SKYDA / BEC / NORPACK / MODI's / ANCHOR (PANASONIC) / POLYCAB / TRINITY TOUCH / AKG / GM / JPC PIPES  | CATEGORY-3                                  |
| 50                                     | INDUSTRIAL SOCKET IN SHEET STEEL ENCLOSURE WITH MCB/SWITCH   | AJMER ELECTROTECH LLP / LAURITZ KNUDSEN / POLYCAB / NEPTUNE-BALS / LEGRAND (NOVATEUR) / C&S / BCH / HAVELLS / HPL / SCHNEIDER   | CATEGORY-4                                  |
| 51                                     | INSULATED COPPER WIRE  | RAJNIGANDHA / GEMSCAB / ALLCAB / AURAFLEX / V-MARC / SBEE / UNISTAR / POLYCORE / TORTEK / BATRA HENLAY / RR KABEL / AKG / ANCHOR (PANASONIC) / BENEC / JMW KABEL / POLYCAB / AVOCAB (CHANDRESH) / SVARN / PARAMOUNT / RALLISON (LKB) / HAVELLS / NATCAB (KVALITY) / BONTON / GRANDLAY / GLOSTER / BCH / PLAZA / APAR / GM / PARAGON (ELEKTRON) / FINECAB / ZENIUM | CATEGORY-2                                  |
| 52                                     | SWITCHES/ SOCKETS/ TELEPHONE/ TV/ DATA SOCKET/ BOXES (MODULAR TYPE)  | RR KABEL / ANCHOR (PANASONIC) / ORIENT ELECTRIC / INDO ASIAN (NOVATEUR) / C&S / POLYCAB / HPL / LAURITZ KNUDSEN / LEGRAND (NOVATEUR) / HAVELLS / GM / MK HONEYWELL / WESTERN VEGA / ABB   | CATEGORY-3                                  |
| 53                                     | SWITCHES/ SOCKETS/ TELEPHONE/ TV/ DATA SOCKET/ BOXES (PIANO TYPE)  | ANCHOR (PANASONIC) / BENEC / HAVELLS / HPL / POLYCAB / MK HONEYWELL / WESTERN VEGA  | CATEGORY-3                                  |
| <b>E FIRE ALARM EQUIPMENTS</b>         |  |   |   |
| 54                                     | FIRE / SMOKE DETECTOR/ MULTI CRITERIA DETECTOR/ FIRE ALARM PANEL / REPEATER PANEL/ HOOTER / MANUAL CALL POINT / RESPONSE INDICATOR/ FAULT ISOLATOR | NOTOFIRE / VELOX / SCHNEIDER / PANASONIC / EATON / HOCHIKI / RAVEL / SIEMENS / BOSCH / APOLLO / EDWARDS (UTC) / G + M / SCHRACK / HONEYWELL / KIDDE (UTC) / GST (UTC) / TYCO / ASES   | CATEGORY-2                                  |

  
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| ITEM CODE | ITEMS  | PREFERRED MAKES (W.E.F. 10.07.2025)   | CATEGORY FOR TEST CERTIFICATION/ INSPECTION |
|-----------|--|---|---|
| 55        | FIRE SURVIVAL CABLE  | GEMSCAB / SBEE / FRTEK / BATRA HENLAY / RR KABEL / SEPCIAL CABLES / SVARN / JMW KABEL / POLYCAB / ALOKE (ANKUR) / RALLISON (LKB) / KEC / GRANDLAY / RAVEL / GLOSTER / KEI / BONTON / BOSCH / WREXHAM / FUSION POLYMER   | CATEGORY-2                                  |
| 56        | FIRE SIGNAGES  | ASES / LIFEGUARD (UNITED FIRE) / EATON / FIRE SHIELD / BOSCH / RAVEL / DELITE / AUTOGLO (PROLITE)   | CATEGORY-3                                  |
| 57        | ASPIRATION SYSTEM  | SHOOTFIRE (VIMAL FIRE) / HOCHIKI / BOSCH / RAVEL  | CATEGORY-2                                  |
| <b>F</b>  | <b>LED LIGHT FIXTURE AND FANS</b>  |   |   |
| 58        | LIGHT FIXTURE WITH LED - INDOOR  | PYROTECH / GOLDWYN LED / KI KALINGIA / GM / NESSA / PLUS LIGHT TECH / LEGERO / MAGIK / LIGHTBOOK / LEKSA LIGHTING / R R KABEL (RR/ AARAYSTORM) / PANASONIC / EVEREADY / INSTAPOWERR / POLYCAB / SURYA / HALONIX / HAVELLS / SIGNIFY / JAQUAR (JAQUAR LIGHTING) / HPL / BAJAJ / WIPRO / ORIENT / CROMPTON / REGENT                             | CATEGORY-2                                  |
| 59        | LIGHT FIXTURE WITH LED - OUTDOOR/FACADE                                      | PYROTECH / GOLDWYN LED / KI KALINGIA / GM / NESSA / PLUS LIGHT TECH / MAGIK / LIGHTBOOK / LEKSA LIGHTING / R R KABEL (RR/ AARAYSTORM) / PANASONIC / HPL / BENTEC (BENLO) / EVEREADY/ POLYCAB / K-LITE / SURYA / TRANSRAIL / HALONIX / HAVELLS / JAQUAR (JAQUAR LIGHTING) / SIGNIFY / INSTAPOWERR / BAJAJ / WIPRO / ORIENT / CROMPTON / REGENT | CATEGORY-2                                  |
| 60        | LINEAR LED/ CUSTOMISED/ DECORATIVE LED LIGHT FIXTURE                         | PYROTECH / GOLDWYN LED / KI KALINGIA / GM / LIGHT FORMS / PLUS LIGHT TECH / LEGERO / MAGIK / WMEL / FORUS / HUBLIT / LIGHTBOOK / PANASONIC / POLYCAB / R R KABEL (RR/ AARAYSTORM) / EVEREADY / SURYA / HALONIX / HAVELLS / HPL / SIGNIFY / BAJAJ / WIPRO / ORIENT / CROMPTON / REGENT   | CATEGORY-2                                  |
| 61        | AVIATION WARNING /OBSTRUCTION LIGHT  | PYROTECH / FORUS / KI KALINGIA / HARYANA GENERAL INDUSTRIES / VSTP / K-LITE / SURYA / TRANSRAIL / HPL / INSTAPOWERR / BAJAJ / WIPRO / CROMPTON /  | CATEGORY-3                                  |
| 62        | CEILING/ WALL / EXHAUST / PEDESTAL FAN (CONVENTIONAL / BLDG)                 | ORIENT ELECTRIC / RR KABEL / ANCHOR (PANASONIC) / POLYCAB / HALONIX / HAVELLS / ALMONARD / USHA / KHAITAN   | CATEGORY-3                                  |
| 63        | HVLS FANS  | MARUT AIR / RR KABEL / RITE HITE  | CATEGORY-3                                  |
| <b>G</b>  | <b>AIRCONDITIONING AND FIRE FIGHTING ACCESSORIES</b>                         |   |   |
| 64        | G I / M S PIPE (ISI MARKED)  | VPL / ITL / BEC / APL APOLLO / PRAKASH SURYA / JINDAL STAR / TATA / SAIL / HIRA PIPES (RR ISPAT) /  | CATEGORY-2                                  |
| 65        | MANUAL VALVE - BUTTERFLY/ SLUICE / CHECK / NRV / FOOT/GATE / GLOBE           | LEHRY / SANT / VENUS / NEWAGE FIRE / CASTLE / ZOLOTO / VTM (VA VALVES) / EMERALD / ADVANCE VALVES / DIVINE / C&R  | CATEGORY-2                                  |
| 66        | MOTORISED VALVE - BALANCING / MODULATING / PICB / DELTA T / CONTROL / MIXING | SANT / VTM (VA VALVES) / CASTLE / DANFOSS / ZOLOTO / ANERGY   | CATEGORY-2                                  |
| 67        | SUCTION / POT / Y- STRAINER  | VENUS / CASTLE / ZOLOTO / ANERGY / SANT / VTM (VA VALVES) / EMERALD   | CATEGORY-2                                  |
| 68        | FLEXIBLE CONNECTION FOR SPRINKLER / SPRINKLER                                | LIFEGUARD (UNITED FIRE) / FIRE SHIELD / NEWAGE / EXFLAME / HD / SAFEFIRE  | CATEGORY-2                                  |
| 69        | FIRE HYDRANT LANDING VALVES/ INSTALLATION VALVE/ FIRE BRIGADE CONNECTION.    | SHOOTFIRE (VIMAL) / LIFEGUARD (UNITED FIRE) / ZOLOTO / KALPEX (KALPATARU) / NEWAGE / EXFLAME / SAFEFIRE / HD / FIRE SHIELD  | CATEGORY-2                                  |

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| ITEM CODE | ITEMS   | PREFERRED MAKES (W.E.F. 10.07.2025)  | CATEGORY FOR TEST CERTIFICATION/ INSPECTION |
|-----------|---|--|---|
| 70        | FIRE HOSE PIPES/ FIRST AID HOSE REEL/ BRANCH PIPE / NOZZLE / COUPLINGS                        | SHOOTFIRE (VIMAL) / LIFEGUARD (UNITED FIRE) / KALPEX (KALPATARU) / NEWAGE / FIRE SHIELD / EXFLAME / SAFEFIRE   | CATEGORY-2                                  |
| 71        | FIRE EXTINGUISHERS  | DSS / KANEX / SHOOTFIRE (VIMAL) / LIFEGUARD (UNITED FIRE) / CEASEFIRE / SAFEFIRE / AFS (ADVANCED) / KALPEX (KALPATARU) / EXFLAME / SUPREMEX / FIRE SHIELD / MINIMAX / SAFEX                  | CATEGORY-2                                  |
| 72        | GAS BASED FIRE SUPPRESSION SYSTEM   | SYNERGY & SYNERGY PLUS / FIRECEASE / FIRETREX / VIVINA / ASES / CEASEFIRE / SHOOTFIRE (VIMAL) / LIFEGUARD (UNITED FIRE) / KALPEX(KALPATARU) / FOAMTECH / SUPREMEX / SIEMENS / FIRETREX (SVS) | CATEGORY-2                                  |
| 73        | KITCHENHOOD GAS BASED SUPPRESSION SYSTEM  | SYNERGY / FIRECEASE / FIRETREX / VIVINA / SHOOTFIRE (VIMAL) / UNITED / FOAMTECH / CEASEFIRE / KALPATARU /  | CATEGORY-2                                  |
| 74        | HIGH/LOW PRESSURE WATER MIST BASED FIRE SUPPRESSION SYSTEM                                    | SYNEAQUAMIST / FIRETREX / SHOOTFIRE  | CATEGORY-2                                  |
| 75        | FLOW SWITCH/PRESSURE SWITCH   | OMICRON / ANERGY / DANFOSS / EMERALD / SWIZER  | CATEGORY-3                                  |
| 76        | FIREMAN AXE   | LIFEGUARD (UNITED FIRE) / NEWAGE / FIRE SHIELD / ADVANCE   | CATEGORY-3                                  |
| 77        | DIESEL ENGINE DRIVEN PUMP FOR FIRE FIGHTING   | TMTL (TAFE MOTERS) / KSB / WILO / GRUNDFOS / KIRLOSKAR / ASHOK LEYLAND / CATERPILLAR / MAHINDRA POWEROL  | CATEGORY-2                                  |
| 78        | PUMPS -VERTICAL/ HORIZONTAL / SUBMERSIBLE   | HAVELLS / WILO / GRUNDFOS / ANDRITZ / KSB / KIRLOSKAR / XYLEM / AQUA_ANS / MATHER & PLATT / CROMPTON   | CATEGORY-2                                  |
| 79        | MOTORS  | LHP / ROTOMOTIVE / KSB / HAVELLS / TMEIC / GRUNDFOS / BCH / KIRLOSKAR / BHARAT BIJLEE / ALSTOM / SIEMENS / CROMPTON  | CATEGORY-2                                  |
| 80        | MOTOR STARTER   | BENTEC / KSB / HAVELLS / L.S POWER / GRUNDFOS / PHOENIX / C&S / BCH / SCHNEIDER / EATON / MOTOVARIO / SIEMENS / SCHNEIDER  | CATEGORY-2                                  |
| 81        | SINGLE PHASE PREVENTER / OVER LOAD PROTECTION/HIGH VOLTAGE/LOW VOLTAGE/EARTH FAULT PROTECTION | C&S / LAURITZ KNUDSEN / SELEC / SIEMENS  | CATEGORY-3                                  |
| 82        | G I SHEETS  | JSW STEEL / TATA / HSL / SAIL  | CATEGORY-2                                  |
| 83        | GRILLS /DIFFUSERS   | PRECISE / ASAWA INSULATION / MAPRO (AIR FLOW) / CRYSTAL / TRISTAR  | CATEGORY-3                                  |
| 84        | INSULATION MATERIAL - ROCK WOOL/ GLASS WOOL   | ENSAVE / ROCK INSUL / AEROLAM / SUNROCK (THERMOCARE ROCK WOOL) / INSUFLEX (THE SUPREME) / LIONROCK / POLYBOND / EPACK / TWIGA INSUL  | CATEGORY-3                                  |
| 85        | INSULATION MATERIAL - XLPE/EPDM/ NITRILE RUBBER   | AEROFOAM / PARAMOUNT / SAFARI / AEROLAM / INSUFLEX (THE SUPREME) / EPACK / SUNROCK (THERMOCARE ROCK WOOL) / INSUFLEX (THE SUPREME) / LIONROCK / POLYBOND / TWIGA INSUL                       | CATEGORY-3                                  |

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| ITEM CODE | ITEMS  | PREFERRED MAKES (W.E.F. 10.07.2025)   | CATEGORY FOR TEST CERTIFICATION/ INSPECTION |
|-----------|--|---|---|
| 86        | PRE-INSULATED DUCT   | ASAWA INSULATION / MECHEASY   | CATEGORY-3                                  |
| 87        | PRE-FABRICATED GI DUCT   | ASAWA INSULATION / WAD / DUCTOFAB / WAVES / ZECO / ADVANCE VENTILATION  | CATEGORY-3                                  |
| 88        | FIRE DAMPERS   | MAPRO (AIR FLOW) / GREENHECK / TRISTAR / RUSKIN / CARRIER   | CATEGORY-2                                  |
| 89        | AIR CURTAINS   | EURONICS / MITZVAH / TECHNOCRATS / DOLPHY   | CATEGORY-2                                  |
| 90        | MODULATING MOTOR/FIRE DAMPER MOTOR   | LHP / ANERGY / HONEYWELL / GRUNDFOS / BALEMO / SIEMENS  | CATEGORY-2                                  |
| 91        | AIR FILTERS (MERV/ESP/HEPA) FOR HVAC SYSTEM  | MECHMAARK / ADITYA / O2 CURE / WAVES / HUMIDIN / INTELLIGREEN   | CATEGORY-3                                  |
| 92        | THERMOSTATS / HUMIDISTATS  | OMICRON / ANERGY / FINDER / DANFOSS / HONEYWELL   | CATEGORY-3                                  |
| 93        | THERMOMETERS/ PRESSURE GAUGE   | OMICRON / ANERGY / EMERALD / FIEBIG   | CATEGORY-3                                  |
| 94        | INTEGRATED BUILDING MANAGEMENT SYSTEM (IBMS)/BMS/ SCADA SYSTEM (HARDWARE* & SOFTWARE, EXCEPT COMPUTER & ACCESSORIES) | SCHNEIDER / ENLITE / PANASONIC / WAGO / PHOENIX / SIEMENS / AZBIL / LAURITZ KNUDSEN / TRIDIYM<br><br>(* includes all hardware of BMS) | CATEGORY-3                                  |
| 95        | FIELD DEVICES (FOR IBMS/BMS/SCADA)   | SELEC / OMICRON   | CATEGORY-3                                  |
| 96        | VFD DRIVE  | YASKAWA / SELEC / FUJI / TMEIC / LAURITZ KNUDSEN / DANFOSS / SCHNEIDER / SIEMENS  | CATEGORY-3                                  |
| <b>H</b>  | <b>AC PLANTS, AC UNITS &amp; EQUIPMENTS</b>  |   |   |
| 97        | AIR-CONDITIONER UNITS - SPLIT / WINDOW / CASSETTE/ TOWER   | HAVELLS / HITACHI (JOHNSON) / LG / BLUE STAR / DAIKIN/ VOLTAS / SAMSUNG / HAIER / O GENERAL / PANASONIC / CARRIER                     | CATEGORY-2                                  |
| 98        | PRECISION AIR CONDITIONING (PAC)   | CLIMAVENTA / SWEGON BLUE BOX / SIDWAL   | CATEGORY-3                                  |
| 99        | PACKAGED AIRCONDITIONER  | DAIKIN / HITACHI (JOHNSON) / VOLTAS / LG / SIDWAL / CARRIER / DAIKIN / BLUE STAR  | CATEGORY-2                                  |
| 100       | CHILLERS   | KIRLOSKAR / DAIKIN / CARRIER / VOLTAS / BLUE STAR / LG / CLIMAVENETA / TRANE / YORK / SWEGON BLUE BOX / DUNHAMBUSH                    | CATEGORY-1                                  |
| 101       | AIR HANDLING UNITS (AHU)   | CRYSTAL / CITIZEN / WAVES / EDGETECH / CARRIER / ZECO / HUMIDIN / TRISTAR   | CATEGORY-1                                  |
| 102       | FAN COIL UNIT (FCU)  | WAVES / CRYSTAL / ZECO / CITIZEN / EDGETECH / CARRIER / DAIKIN / TRISTAR / YORK   | CATEGORY-2                                  |
| 103       | VRV/ VRF HVAC UNIT   | LG / HITACHI (JOHNSON) / SAMSUNG / DAIKIN / VOLTAS / HAIER / CARRIER / BLUE STAR  | CATEGORY-2                                  |

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| ITEM CODE | ITEMS  | PREFERRED MAKES (W.E.F. 10.07.2025)  | CATEGORY FOR TEST CERTIFICATION/ INSPECTION |
|-----------|--|--|---|
| 104       | COOLING TOWER UP TO 200 TR.                                | DELTA / BELL COOLING TOWERS / MIHIR / PAHARPUR   | CATEGORY-2                                  |
| 105       | COOLING TOWER ABOVE 200 TR.                                | DELTA / BELL COOLING TOWERS / MIHIR / PAHARPUR   | CATEGORY-2                                  |
| 106       | EXPANSION TANK   | ANERGY   | CATEGORY-3                                  |
| 107       | AIR & DIRT SEPARATOR                                       | ANERGY   | CATEGORY-3                                  |
| 108       | FAN - AXIAL FLOW / INLINE / VENTILATION / PROPELLER / PLUG | DYNAIR-MAICO / DUSTECH / KRUGER / WAVES / HUMIDIN / WOLTER / AIR FLOW / RR KABEL / CRYSTAL / GREENHECK | CATEGORY-2                                  |
| 109       | R O SYSTEM /WATER SOFTENING PLANT                          | SURYA RO / DELTA / WAE / VENZA (MGROW)   | CATEGORY-3                                  |
| 110       | WATER COOLER   | CLIMATROL / VOLTAS / ORIENT ELECTRIC / SIDWAL  | CATEGORY-3                                  |
| 111       | WATER DISPENSER  | WAE / VENZA (MGROW) / VOLTAS   | CATEGORY-3                                  |
| 112       | DRINKING WATER FOUNTAIN                                    | WAE / VENZA (MGROW) / OASIS  | CATEGORY-3                                  |
| I         | <b>PA SYSTEM &amp; RELATED ITEMS</b>                       |  |   |
| 113       | AMPLIFIERS   | ATEIS / SCHRACK / HEINRICH / BOSCH / HONEYWELL / OPTIMUS / BOSE  | CATEGORY-2                                  |
| 114       | ANNOUNCEMENT MICROPHONES /CAR CALL CONSOLES                | ATEIS / SCHRACK / HEINRICH / BOSCH / HONEYWELL / OPTIMUS / BOSE  | CATEGORY-2                                  |
| 115       | CONTROLLERS  | ATEIS / SCHRACK / BOSCH / HEINRICH / HONEYWELL / OPTIMUS   | CATEGORY-3                                  |
| 116       | SPEAKER  | ATEIS / SCHRACK / HEINRICH / BOSCH / NOTIFIRE / OPTIMUS / BOSE   | CATEGORY-3                                  |
| 117       | DIGITAL CALL STATION / WORK STATION                        | AVTRON / ATEIS / HEINRICH / BOSCH / OPTIMUS  | CATEGORY-3                                  |
| 118       | EQUIPMENT RACK   | HEINRICH / BOSCH / PRESIDENT / ORDEIN  | CATEGORY-3                                  |
| 119       | DVD/DVR /MP3 PLAYER  | TYCO / HEINRICH / BOSCH / HONEYWELL / SIEMENS / OPTIMUS  | CATEGORY-2                                  |
| 120       | CABLE FOR MICROPHONE / SPEAKER                             | RR KABEL / JMW KABEL / POLYCAB / BONTON / BOSCH / HPL / KVV5 (INDUSTRIAL)                              | CATEGORY-2                                  |
| 121       | DIGITAL LINE ARRAY SPEAKER                                 | ATEIS / HEINRICH / BOSCH / BOSE / OPTIMUS  | CATEGORY-2                                  |
| 122       | CCTV CAMERA  | AVTRON / TYCO ILLUSTRATE / HEINRICH / SIEMENS / BOSCH / HONEYWELL / ULTRAK / PELCO                     | CATEGORY-2                                  |
| 123       | MONITOR /DISPLAY-LCD / LED / PLASMA                        | LG / PANASONIC / SAMSUNG / SONY  | CATEGORY-2                                  |
| 124       | COMPUTER /LAPTOP (FOR IBMS/BMS/SCADA)                      | HP / DELL / LENOVO / IBM   | CATEGORY-4                                  |
| 125       | COMPUTER ACCESSORIES (KEY BOARD/MOUSE)                     | HP / DELL / LENOVO / IBM   | CATEGORY-4                                  |

*Anil Kumar*  
SMCEE

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| ITEM CODE | ITEMS  | PREFERRED MAKES (W.E.F. 10.07.2025)  | CATEGORY FOR TEST CERTIFICATION/ INSPECTION |
|-----------|--|--|---|
| J         | SOLAR PLANT & ACCESSORIES                        |  |   |
| 126       | SOLAR INVERTER/ POWER CONDITIONING UNIT          | SELEC / HAVELLS/ POWER ONE   | CATEGORY-2                                  |
| 127       | SOLAR MODULES                                    | SWELECT / HAVELLS/ JAKSON  | CATEGORY-2                                  |
| 128       | DC CABLES  | GEMSCAB / APAR / RR KABEL / SPECIAL CABLES / JMW KABEL / POLYCAB / HAVELLS / RALLISON (LKB) / KEC / HPL / GLOSTER / KEI / BONTON   | CATEGORY-2                                  |
| K         | MISCELLANEOUS & OTHER MECHANICAL ITEMS           |  |   |
| 129       | HAND DRIER                                       | TECHNOCRATS / EURONICS / DOLPHY / ANAND AUTOMATIC SYSTEM   | CATEGORY-3                                  |
| 130       | DOUBLE WALL CORRUGATED HDPE PIPE/PLAIN HDPE PIPE | VPL / GANGOTRI / ASTRAL / CPE / BEC PLAST / KESHAV KRIPA / VALENS / TIRUPATI PLASTOMATIC / GEMINI / HIMALYAN / MANGALAM  | CATEGORY-3                                  |
| 131       | AUTOMATIC SLIDING DOOR                           | HOUSYS / GEZE / NEPTUNE / S. ADITYA / DORMAKABA / TECHNOCRATS / AUTOINGRESS  | CATEGORY-3                                  |
| 132       | ELEVATOR   | ORBIS / SCHINDLER / FUJITEC / INFRA / TRIO ELEVATOR / OMEGA ELEVATOR / ESGON / JOHNSON LIFTS / ECE / KONE / TKE / OTIS   | CATEGORY-1                                  |
| 133       | ESCALATOR /TRAVELATOR                            | ORBIS / SCHINDLER / TRIO ELEVATOR / OMEGA ELEVATOR / JOHNSON LIFTS / KONE / TKE / OTIS   | CATEGORY-1                                  |
| 134       | BOLLARD  | HOUSYS / AVIANS / SWARAJ / S. ADITYA / TECHNOCRATS / EURONICS / NEPTUNE / BROSIS / FAAC  | CATEGORY-3                                  |
| 135       | BOOM BARRIER                                     | HOUSYS / AVIANS / SWARAJ / S. ADITYA / DORMAKABA / TECHNOCRATS / BROSIS / NEPTUNE / AUTOINGRESS / FAAC / SPEEDGATZ   | CATEGORY-3                                  |
| 136       | TROLLEY GATE                                     | AVIANS / SWARAJ / S. ADITYA / TECHNOCRATS / DELITE / AUTOINGRESS / LOTUS   | CATEGORY-3                                  |
| 137       | TYRE KILLER/SPIKE BARRIER                        | HOUSYS / SWARAJ / S. ADITYA / TECHNOCRATS / NEPTUNE / BROSIS / FAAC / SPEEDGATZ  | CATEGORY-3                                  |
| 138       | UNDER VEHICLE SCANNING SYSTEM                    | HOUSYS   | CATEGORY-3                                  |
| 139       | EXTERNAL LIGHTING POLES/ DECORATIVE LIGHT POLE   | SUBHAM / AMBIKA POLES / LYSAGHTPOLE™ / VAKRANGEE / VSTP / UTKARSH / RMSCO (RAJASTHAN METAL) / SKIPPER / BP PROJECTS / K-LITE / TRANSRAIL / PRAKASH SURYA (SURYA ROSHNI) / SUMIP / SIGNIFY / BAJAJ / WIPRO / CROMPTON / ORIENT ELECTRIC | CATEGORY-3                                  |
| 140       | HIGH MAST  | SUBHAM / AMBIKA POLES / VAKRANGEE / VSTP / LYSAGHTPOLE™ / UTKARSH / SKIPPER/ BP PROJECTS / K-LITE / PRAKASH SURYA (SURYA ROSHNI) / TRANSRAIL / SIGNIFY / BAJAJ / WIPRO / ORIENT ELECTRIC / CROMPTON                                    | CATEGORY-3                                  |
| 141       | ALUMINIUM LADDERS / HYDRAULIC LADDERS            | DELITE   | CATEGORY-2                                  |
| 142       | BOOM /SCISSOR/SPIDER/VERTICAL LIFT               | MLIFT  | CATEGORY-2                                  |
| 143       | DASH FASTENERS                                   | HILTI / FISCHER  | CATEGORY-4                                  |
| 144       | GEAR BOX   | MGM VARVEL / IMAK  | CATEGORY-3                                  |
| 145       | GEARED MOTOR                                     | LHP / LENZE / ROTOMOTIVE / MGM VARVEL / iMAK   | CATEGORY-3                                  |
| 146       | WEATHERPROOF JUNCTIONBOX                         | TRINITY TOUCH / SPELSBERG (CAPE) / RITTAL  | CATEGORY-3                                  |

Amirgale  
CM(EI)  
ML 9877

Info

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| ITEM CODE | ITEMS  | PREFERRED MAKES (W.E.F. 10.07.2025)  | CATEGORY FOR TEST CERTIFICATION/ INSPECTION |
|-----------|--|--|---|
| 147       | EV CHARGERS                                  | P2 POWER / E-FUEL / AXONIFY TECH SYSTEMS PRIVATE LIMITED   | CATEGORY-1                                  |
| L         | GROUND LIGHTING ITEMS                        |  |   |
| 148       | PAPI (NON-LED)                               | AMA / VARDHMAN / NASU SYSTEM   | CATEGORY-1                                  |
| 149       | LAMP (HALOGEN)                               | YOUYANG  | CATEGORY-3                                  |
| 150       | AGL FITTING (LED)                            | VARDHMAN / AMA   | CATEGORY-1                                  |
| 151       | AGL FITTING (NON-LED)                        | VARDHMAN / AMA   | CATEGORY-1                                  |
| 152       | ALCMS / ILCMS                                | VARDHMAN   | CATEGORY-1                                  |
| 153       | ISOLATING TRANSFORMER                        | TRIO / CTC (CREATIVE TRADING) / VARDHMAN / AMA / BILDAL / ELECTROMACH / YOUYANG                    | CATEGORY-1                                  |
| 154       | CONSTANT CURRENT REGULATOR (CCR)             | VARDHMAN / AMA / HONEYWELL / YOUYANG / NASU SYSTEM   | CATEGORY-1                                  |
| 155       | 5 KV GRADE AFL CABLE - UNSHIELDED / SHIELDED | GEMSCAB / APAR / RR KABEL / ALOKE (ANKUR) / RALLISON (LKB) / JRD / KEI / GLOSTER                   | CATEGORY-1                                  |
| 156       | 1.1 KV GRADE SECONDARY LEAD FOR AFL CABLE    | GEMSCAB / APAR / RR KABEL / AMA / ELECTROMACH / ALOKE (ANKUR) / RALLISON (LKB) / JRD               | CATEGORY-2                                  |
| 157       | PLUGS / RECEPTACLE / CONNECTOR               | CTC (CREATIVE TRADING) / ELECTROMACH / ALOKE (ANKUR) / VARDHMAN / NEPTUNE / AMA / BILDAL / YOUYANG | CATEGORY-2                                  |

**Note:** This is mere enlistment as preferred make and is subject to the compliance of Technical Specification mentioned in tender.

**CATEGORY REQUIREMENT OF TEST CERTIFICATE/ INSPECTION**

**CATEGORY-1:**

- Type test certificate for similar item done. If not one of the items offered is to be type tested.
- OEMs routine test certificate.
- Acceptance test to be conducted in the presence of AAI representative at OEMs factory.

**CATEGORY-2:**

- Type test for similar done. If not, one of the items offered is to be type tested.
- OEMs routine test certificate.
- Visual and functional check by PMC / Engineering Consultant representative (AAI official incase of non avialibility of PMC/ Engineering Consultant) at AAI airport site.

**CATEGORY-3:**

- OEM/ Dealer/ Contractor routine test certificate.
- Visual and functional check by PMC / Engineering Consultant representative (AAI official incase of non avialibility of PMC/ Engineering Consultant) at AAI airport site.

**CATEGORY-4:**

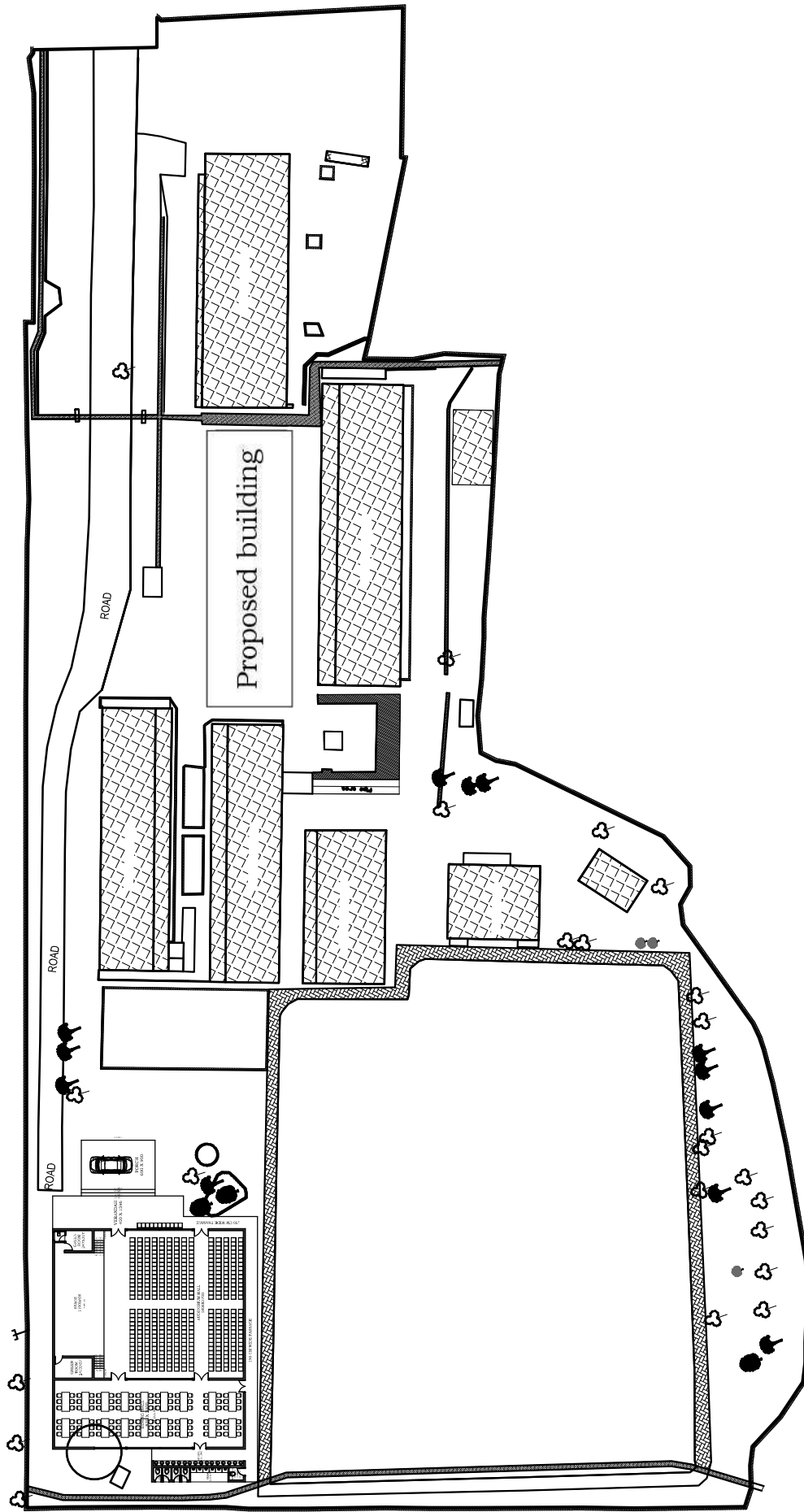
- Visual and functional check by PMC / Engineering Consultant representative (AAI official incase of non avialibility of PMC/ Engineering Consultant) at AAI airport site.

*Amal Kumar*  
SM (EE)  
MIS (ST)

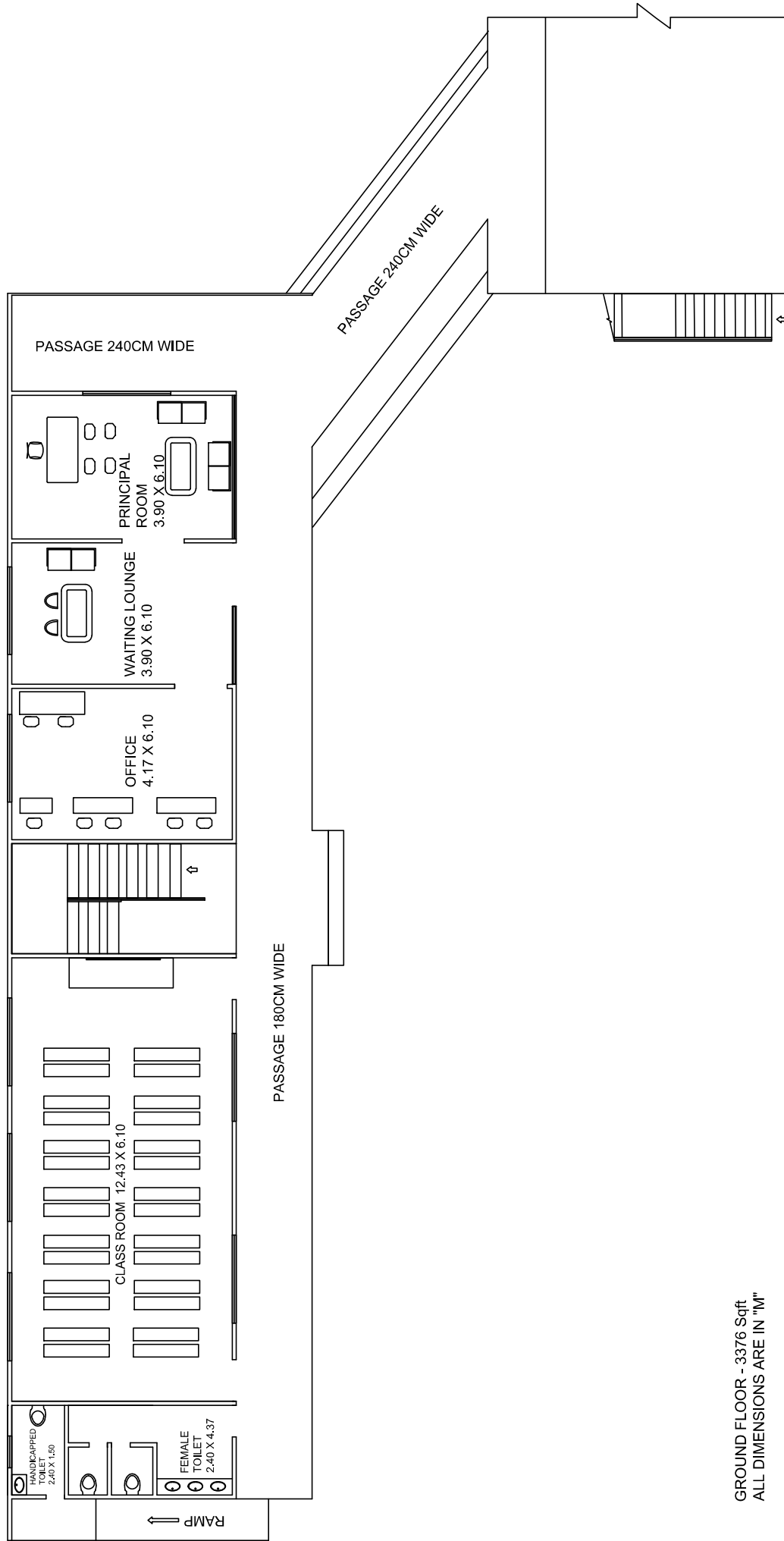
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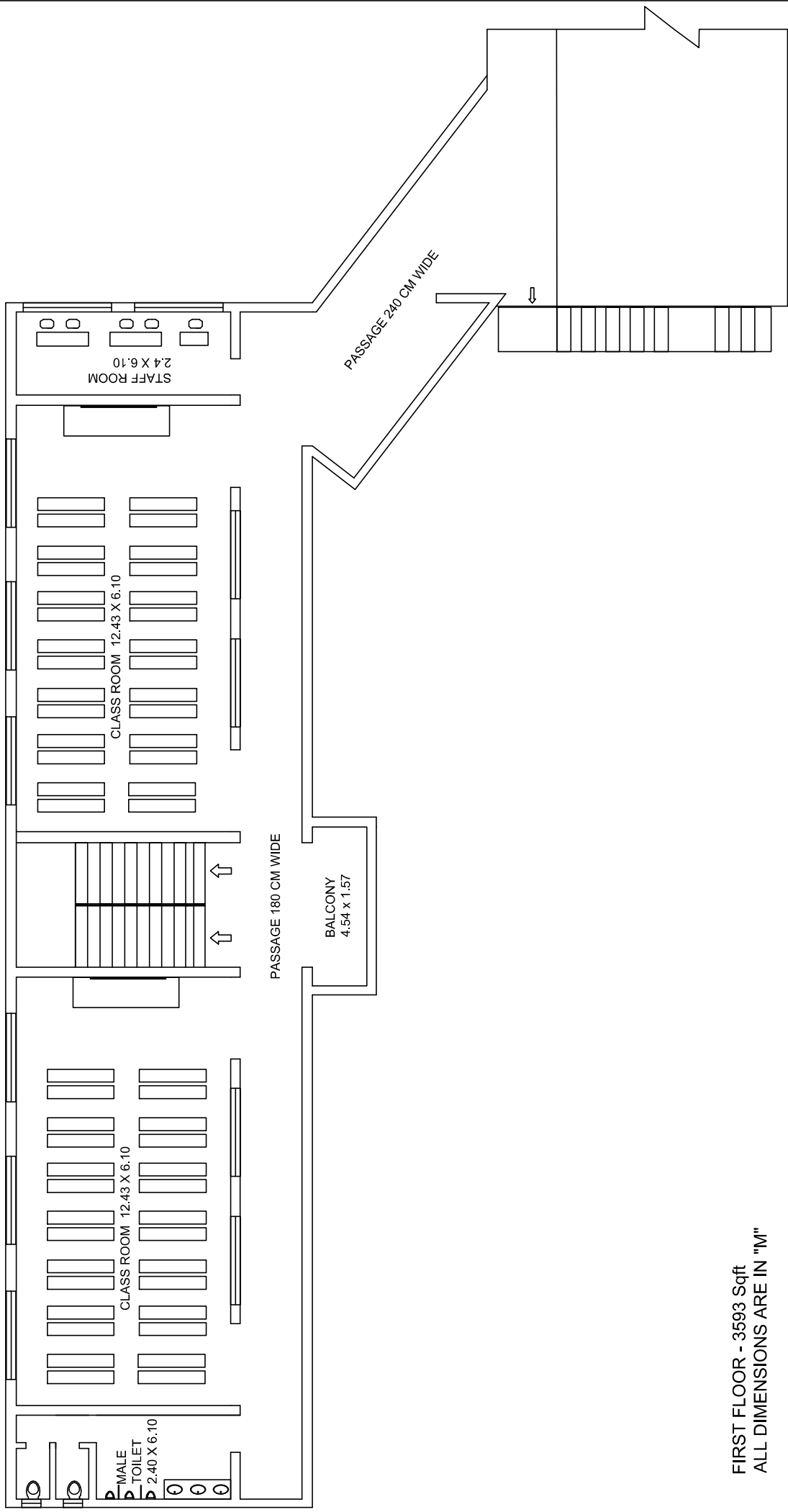




SITE PLAN



GROUND FLOOR - 3376 Sqft  
ALL DIMENSIONS ARE IN "M"



FIRST FLOOR - 3593 Sqft  
ALL DIMENSIONS ARE IN "M"

**Name of Work :- Construction of a New Academic Building at Calicut International Airport School**

**BOQ 1 - CIVIL**

| SL NO | ITEM NO |        | DESCRIPTION   | UNIT | QTY | RATE | AMOUNT |
|-------|---------|--------|---|------|-----|------|--------|
| 1     | DSR     | 2.6.1  | Earth work in excavation by mechanical means (Hydraulic excavator) /manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-incharge. All kinds of soil | Cum  | 90  |      |        |
| 2     | DSR     | 2.7.1  | Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer in-charge. ordinary rock  | Cum  | 50  |      |        |
| 3     | DSR     | 2.25   | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and for all lift.  | Cum  | 85  |      |        |
| 4     | DSR     | 2.25 a | Excavating, supplying, stacking and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in foundation trenches, plinth, sides of foundation etc. complete for all lift.                    | Cum  | 100 |      |        |
| 5     | DSR     | 4.1.8  | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :<br>1:4:8 (1 cement : 4 coarse sand (zone-iii) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)   | Cum  | 35  |      |        |

\*Rate shall be exclusive of GST.

\*Rate should be clearly readable without ambiguity.

| SL NO | ITEM NO |          | DESCRIPTION   | UNIT | QTY | RATE | AMOUNT |
|-------|---------|----------|---|------|-----|------|--------|
| 6     | DSR     | 5.2.2    | Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centring, -level up to floor five level, excluding cost of centring, shuttering, finishing and reinforcement :<br>M30 grade  | Cum  | 80  |      |        |
| 7     | DSR     | 5.33.2.1 | providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, portland pozzolana / ordinary portland /portland Slag cement, admixtures in recommended proportions as per iS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. in case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.<br>All works above plinth level upto floor V level concrete of m20 grade. | Cum  | 150 |      |        |
| 8     | DSR     | 5.9.1    | Centring and shuttering including strutting, propping etc. and removal of form for :<br>Foundations, footings, bases of columns, etc. for mass concrete   | Sqm  | 50  |      |        |
| 9     | DSR     | 5.9.3    | Centring and shuttering including strutting, propping etc. and removal of form for :<br>Suspended floors, roofs, landings, balconies and access platform  | Sqm  | 600 |      |        |

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| SL NO | ITEM NO |         | DESCRIPTION   | UNIT | QTY   | RATE | AMOUNT |
|-------|---------|---------|---|------|-------|------|--------|
| 10    | DSR     | 5.9.5   | Centring and shuttering including strutting, propping etc. and removal of form for :<br>Lintels, beams, plinth beams, girders, resumes and cantilevers  | Sqm  | 600   |      |        |
| 11    | DSR     | 5.22.6  | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete up to plinth level.<br>Thermo-Mechanically Treated bars of grade Fe-500D or more.   | Kg   | 3200  |      |        |
| 12    | DSR     | 5.22A.6 | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position -5.22A straightening, cutting, bending, placing in position and binding all complete above plinth level.<br>Thermo-Mechanically Treated bars of grade Fe-500D or more.       | Kg   | 11500 |      |        |
| 13    | DSR     | 26.69.1 | Providing and laying factory made Precast concrete solid blocks of 200 mm thickness of grade M10 made of C&D waste from approved manufacturer in superstructure above plinth level up to floor V level.<br>Cement mortar 1:6 (1 cement : 6 coarse sand)                         | Cum  | 110   |      |        |
| 14    | DSR     | 26.71.1 | Providing and laying half block masonry with factory made Precast concrete solid blocks of 100 mm thickness of grade M10 made of C&D waste from approved manufacturer in superstructure above plinth level up to floor V level:<br>Cement mortar 1:4 (1 cement : 4 coarse sand) | Sqm  | 110   |      |        |
| 15    | DSR     | 13.1.2  | 12 mm cement plaster of mix : 1:6 (1 cement: 6 fine sand)   | Sqm  | 2500  |      |        |
| 16    | DSR     | 13.85.3 | Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content.<br>With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre  | Sqm  | 2000  |      |        |
| 18    | DSR     | 13.82.2 | Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour<br>Two coats                   | Sqm  | 1000  |      |        |

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| SL NO | ITEM NO |             | DESCRIPTION   | UNIT | QTY  | RATE | AMOUNT |
|-------|---------|-------------|---|------|------|------|--------|
|       | DSR     | 13.47.1     | Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:<br>New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm)  | Sqm  | 1000 |      |        |
| 19    | DSR     | 11.41 A.2.1 | Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. Glazed vitrified floor tiles polished finish of size<br>Size of Tile 600 x 600 mm | Sqm  | 520  |      |        |
| 20    | DSR     | 11.41 A.3.1 | Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. Glazed Vitrified tiles Matt/Antiskid finish of size<br>Size of Tile 600 x 600 mm  | Sqm  | 40   |      |        |

\*Rate shall be exclusive of GST.

\*Rate should be clearly readable without ambiguity.

| SL NO | ITEM NO | DESCRIPTION  | UNIT | QTY | RATE | AMOUNT |
|-------|---------|--|------|-----|------|--------|
| 21    | DSR     | 11.47.2<br>Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).<br>Size of Tile 600x600 mm   | Sqm  | 200 |      |        |
| 22    | DSR     | 11.48.2<br>Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in charge.<br>Size of Tile 600x600 mm   | Sqm  | 800 |      |        |
| 23    | DSR     | 22.5<br>Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying :<br>(a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours.<br>(b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours.<br>The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry. | Sqm  | 60  |      |        |

\*Rate shall be exclusive of GST.

\*Rate should be clearly readable without ambiguity.



| SL NO | ITEM NO  | DESCRIPTION  | UNIT | QTY | RATE | AMOUNT |
|-------|----------|--|------|-----|------|--------|
| 24    | 21.1.1.2 | Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :<br>For fixed portion<br>Powder coated aluminium (minimum thickness of powder coating 50 micron) | Sqm  | 250 |      |        |

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| SL NO | ITEM NO | DESCRIPTION  | UNIT | QTY | RATE | AMOUNT |
|-------|---------|--|------|-----|------|--------|
| 25    | DSR     | 21.1.2<br>.2<br>Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P.brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately) : For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for - neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron) | Kg   | 250 |      |        |
| 26    | DSR     | 21.3.2<br>Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge .(Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 5 mm thickness (weight not less than 12.50 kg/ sqm)   | Sqm  | 100 |      |        |
| 27    | DSR     | 8.28.1<br>Providing and fixing plywood 4 mm thick, one side decorative veneer conforming to IS:1328 (type-1), for plain lining /cladding with necessary screws, including priming coat on unexposed surface with : Decorative veneer facings of approved manufacture   | Sqm  | 10  |      |        |

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| SL NO | ITEM NO |   | DESCRIPTION   | UNIT | QTY | RATE | AMOUNT |
|-------|---------|---|---|------|-----|------|--------|
| 28    | MR      | 1 | Providing and fixing Stainless Steel (SS) framed door – full set, including supply and installation of all standard accessories such as SS hinges, aldrops, handles, tower bolts, stoppers, screws, and all necessary hardware complete with proper welding, polishing, and alignment. All edges to be smooth and finished. The work includes transportation, cutting, fabrication, installation, and necessary labour, complete in all respects as per site conditions.  | Each | 8   |      |        |
| 29    | MR      | 2 | Providing and fixing PVC door for bathroom including frame and all accessorie like latches etc., all complete as per site condition   | Each | 8   |      |        |
| 30    | MR      | 3 | Providing and fixing commercial plywood of required size, including all associated works such as cutting, finishing, and necessary fittings, complete in all respects as per site conditions.   | Sqm  | 10  |      |        |
| 31    | MR      | 5 | Providing, fabricating, and fixing MS grill using 10mm x 10mm bars for windows, including all associated works such as cutting, welding, jointing, grinding, and finishing, complete as per site conditions   | Kg   | 800 |      |        |
| 32    | MR      | 6 | Providing & fixing of white vitreous China wall mounting cascade type water closet for WC with seat cover and concealed cistern with half frame set, Q KNOBE with CP bolts, nuts, CI chair hanging arrangements with CP hinges & rubber buffers, CP brass screw, washer with all accessories with WC connector with Rubber Lip / Buffer and side gap filled with silicon sealant wherever required with concealed cistern with flow restriction 1.5LPM as per GRIHA standard including brass / SS screws and washer complete of approved make or equivalent including cutting, making good the walls, floors, slab wherever required as per direction of Engineer-Incharge. | Each | 4   |      |        |

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\*Rate should be clearly readable without ambiguity.

| SL NO | ITEM NO |    | DESCRIPTION   | UNIT | QTY | RATE | AMOUNT |
|-------|---------|----|---|------|-----|------|--------|
| 33    | MR      | 7  | Providing & fixing white vitreous china flat back urinal of approved make comprising of all plumbing items. Hindware make(96014SW) and any other item required to provide satisfactory functioning including necessary wall cutting / chasing and making good, as required for urinal flushing complete as mentioned above as per direction of Engineer-Incharge. | Each | 3   |      |        |
| 34    | MR      | 8  | Providing & fixing of Compact Laminate Urinal partition projection 900 x 450 mm of approved make as directed by Engineer in charge The rate is Inclusive of cost, carriage of all materials, labour charge, lead & lift, all taxes etc complete.  | Each | 2   |      |        |
| 35    | MR      | 9  | Providing and fixing wall mounted white vitreous china flat back wash basin of required size including waste coupling etc. all complete as per direction of engineer-in-charge  | Each | 6   |      |        |
| 36    | MR      | 10 | Providing and fixing CP pillar Cock with Wall Flange of Jaquar,Hindwarev or equivalent as per the directions of Engineer in Charge  | Each | 5   |      |        |
| 37    | MR      | 11 | Proving and fixing Health Faucet with Chian Tube & Wall Hook of Jaquar(CHR ALD-573) or equivalent as per the directions of Engineer in Charge   | Each | 8   |      |        |
| 38    | MR      | 12 | Supplying liquid soap container of ONIDA/PRAYAG make with snap fittings or equivalent as per the directions of EIC.   | Each | 4   |      |        |
| 39    | MR      | 13 | Providing and fixing of angle cock of CP brass of Jaquar,CERA, Hindware or equivalent as per the directions of Engineer in Charge   | Each | 15  |      |        |
| 40    | MR      | 14 | Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.   | Each | 5   |      |        |

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| SL NO | ITEM NO |    | DESCRIPTION  | UNIT | QTY | RATE | AMOUNT |
|-------|---------|----|--|------|-----|------|--------|
| 41    | MR      | 15 | Providing & fixing of white vitreous China Floor mounting cascade type water closet for WC with seat cover and concealed cistern with half frame set, Q KNOBE with CP bolts, nuts, with all accessories with WC connector with Rubber Lip / Buffer and side gap filled with silicon sealant wherever required with concealed cistern with flow restriction 1.5LPM as per GRIHA standard including brass / SS screws and washer complete of approved make or equivalent including cutting, making good the walls, floors, slab wherever required as per direction of Engineer-Incharge. | Each | 1   |      |        |
| 42    | MR      | 16 | Providing and fixing a wall-mounted grab bar of CERA B2210106 or equivalent for handicapped toilet, as per the direction of the Engineer- in-Charge  | Each | 1   |      |        |
| 43    | MR      | 17 | Providing and fixing wall-mounted hinged handrail (750 x 100mm)of CERA B22210108 or equivalent (fiber type, white epoxy finish) for a handicapped toilet, as per the direction of the Engineer-in-Charge   | Each | 1   |      |        |
| 44    | MR      | 18 | Providing and fixing of Pillar Cock of approved make for hanicapped toilet as per direction of EIC   | Each | 1   |      |        |
| 45    | MR      | 19 | Providing and fixing PVC pipe of approved make conforming to IS complete of approved make as per the direction of Engineer-in-charge 110mm outer dia (4")  | m    | 20  |      |        |
| 46    | MR      | 20 | Providing and fixing PVC pipe of approved make conforming to IS complete of approved make as per the direction of Engineer-in-charge 63mm outer dia (2")   | m    | 15  |      |        |
| 47    | MR      | 21 | Providing and fixing PVC pipe of approved make conforming to ISI complete of approved make as per the direction of Engineer-in-charge 32mm dia outer dia ( 1")   | m    | 20  |      |        |
| 48    | MR      | 22 | Providing and fixing PVC pipe of approved make conforming to ISI complete of approved make as per the direction of Engineer-in-charge 20 mm outer dia (1/2" )  | m    | 15  |      |        |

\*Rate shall be exclusive of GST.

\*Rate should be clearly readable without ambiguity.

| SL NO | ITEM NO |    | DESCRIPTION   | UNIT | QTY | RATE           | AMOUNT |
|-------|---------|----|---|------|-----|----------------|--------|
| 49    | MR      | 23 | Providing and fixing 2000-litre capacity water storage tank of approved make including transportation, placing over prepared platform, making necessary connections to the inlet, outlet, overflow and washout pipes using suitable fittings, cutting, threading and jointing complete with all accessories and fittings, testing for leakages, and ensuring proper alignment.  | Each | 1   |                |        |
| 50    | MR      | 24 | Providing and fixing 1000-litre capacity septic tank (High-quality FRP/plastic prefabricated type), including supply, transportation to site, safe placement over the already prepared base, connecting inlet and outlet pipelines with necessary PVC fittings, sealing all joints to prevent leakage, fixing of access covers and ventilators as required, and completing all work as per manufacturer's specifications.   | Each | 1   |                |        |
| 51    | MR      | 25 | Preparation and submission of complete structural design with a modern looking elevation for the proposed school building, including all components such as foundations, columns, beams, slabs, staircases, roof structures, and supporting frameworks, as per the directions of the Engineer-in-Charge and based on the preliminary architectural drawings provided by the school authorities. The design shall be prepared using reinforced cement concrete (RCC) as per project requirements, using materials approved in the contract schedule. The scope also includes design of fixing arrangements for architectural elements, rainwater drainage (gutters, downpipes), and integration with utility services wherever applicable. All structural design and 'Good for Construction' drawings shall be vetted and certified in writing by IIT/ NIT/ any Government Engineering College. Bill of quantities as per the approved structural drawing should be submitted along with drawings before execution for approval. Three sets of architectural and structural design drawings and one set of design calculations in hard copies along with soft copies of design and drawing are to be submitted to AAL. | LS   | 1   |                |        |
|       |         |    |   |      |     | <b>TOTAL =</b> |        |

\*Rate shall be exclusive of GST.

\*Rate should be clearly readable without ambiguity.

**Name of Work :- Construction of a New Academic Building at Calicut International Airport :**  
**BOQ 2 - ELECTRICAL**

| SL NO | DESCRIPTION  | QUANTITY | UNIT  | RATE | AMOUNT |
|-------|--|----------|-------|------|--------|
| 1     | 1.10.3:Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.Group C | 120.000  | point |      |        |
| 2     | 1.11:Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.   | 4.000    | point |      |        |
| 3     | 1.14.1:Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required 2x1.5 sq.mm + 1x1.5 sq.mm earth wire  | 250.000  | metre |      |        |
| 4     | 1.14.2:Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required 2X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire   | 900.000  | metre |      |        |
| 5     | 1.14.3:Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required 2 X 4 sq. mm + 1 X 4 sq. mm earth wire  | 100.000  | metre |      |        |

\*Rate shall be exclusive of GST.

\*Rate should be clearly readable without ambiguity.



| SL NO | DESCRIPTION  | QUANTITY | UNIT  | RATE | AMOUNT |
|-------|--|----------|-------|------|--------|
| 6     | 1.21.1:Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/ recess including cutting the wall and making good the same in case of recessed conduit as required.20 mm | 150.000  | metre |      |        |
| 7     | 1.21.2:Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/ recess including cutting the wall and making good the same in case of recessed conduit as required.25 mm | 80.000   | metre |      |        |
| 8     | 1.21.3:Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/ recess including cutting the wall and making good the same in case of recessed conduit as required.32 mm | 30.000   | metre |      |        |
| 9     | 1.24.1:Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.5/6 amps switch                             | 15.000   | each  |      |        |
| 10    | 1.24.3:Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.15/16 amp switch                            | 6.000    | each  |      |        |
| 11    | 1.24.4:Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.3 pin 5/6 amp socket outlet                 | 15.000   | each  |      |        |
| 12    | 1.24.5:Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.6 pin 15/16 amp socket outlet               | 6.000    | each  |      |        |

\*Rate shall be exclusive of GST.

\*Rate should be clearly readable without ambiguity.

| SL NO | DESCRIPTION  | QUANTITY | UNIT | RATE | AMOUNT |
|-------|--|----------|------|------|--------|
| 13    | 1.24.8:Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.Bell push   | 1.000    | each |      |        |
| 14    | 1.25:Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.  | 35.000   | each |      |        |
| 15    | 1.26:Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.   | 40.000   | each |      |        |
| 16    | 1.27.1:Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.1 or 2 Module<br>(75mmX75mm)   | 15.000   | each |      |        |
| 17    | 1.27.3:Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.4 Module<br>(125mmX75mm)   | 4.000    | each |      |        |
| 18    | 1.31:Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. (For light plugs to be used in non residential buildings). | 30.000   | each |      |        |
| 19    | 1.33:Supplying and fixing 3 pin, 5 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.   | 120.000  | each |      |        |

\*Rate shall be exclusive of GST.

\*Rate should be clearly readable without ambiguity.

| SL NO                                      | DESCRIPTION   | QUANTITY | UNIT  | RATE | AMOUNT |
|--|---|----------|-------|------|--------|
| 20   | 1.55.3:Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point ( without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.Group C | 6.000    | point |      |        |
| 21   | 1.58:Supplying and fixing PVC batten/ angle holder including connection etc. as required.   | 8.000    | each  |      |        |
| 22   | 1.27.2:Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.3 Module (100mmX75mm)   | 4.000    | each  |      |        |
| 23   | 1.56:Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providng and fixing 2 Nos. 3 pin 5/6 A modular socket outlets and 2 Nos. 5/6 A modular switches, connection etc. as required. (For light plugs to be used in non residential buildings).  | 16.000   | each  |      |        |
| <b>DB AND ACCESSORIES(Electrical work)</b> |   |          |       |      |        |
| 24   | 2.10.1:Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.Single pole   | 25.000   | each  |      |        |
| 25   | 2.10.4:Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. asrequired.Triple pole  | 4.000    | each  |      |        |

\*Rate shall be exclusive of GST.

\*Rate should be clearly readable without ambiguity.

| SL NO | DESCRIPTION  | QUANTITY | UNIT | RATE | AMOUNT |
|-------|--|----------|------|------|--------|
| 26    | 2.11:Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.   | 20.000   | each |      |        |
| 27    | 2.15.2:Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.40 amps  | 3.000    | each |      |        |
| 28    | 2.15.3:Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.63 amps  | 1.000    | each |      |        |
| 29    | 90.11.1.11:Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/ isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall , making good the damages, colour washing etc. as required6 way (8+18) - three phase double cover (IP 42/43) | 3.000    | each |      |        |

\*Rate shall be exclusive of GST.

\*Rate should be clearly readable without ambiguity.

| SL NO                                      | DESCRIPTION   | QUANTITY | UNIT  | RATE | AMOUNT |
|--|---|----------|-------|------|--------|
| 30   | 90.11.1.16:Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/ isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall , making good the damages, colour washing etc. as required.8 way (8+18) - double cover TPN vertical DB with provision for fixing 4P MCB / Isolator/ RCCB/ RCBO as incomer and SP/ TP MCB as outgoing (IP 42/43) | 1.000    | each  |      |        |
| 31   | 2.13.1:Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.40 amps   | 3.000    | each  |      |        |
| 32   | 2.13.2:Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.63 amps   | 1.000    | each  |      |        |
| <b>CABLES AND CABLING(Electrical work)</b> |   |          |       |      |        |
| 33   | 7.1.1:Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.Upto 35 sq. mm  | 70.000   | metre |      |        |
| 34   | 7.5.1:Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.Upto 35 sq. mm   | 50.000   | metre |      |        |

\*Rate shall be exclusive of GST.

\*Rate should be clearly readable without ambiguity.

| SL NO | DESCRIPTION   | QUANTITY | UNIT  | RATE | AMOUNT |
|-------|---|----------|-------|------|--------|
| 35    | 7.7.1:Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.Upto 35 sq. mm (clamped with 1mm thick saddle)                                  | 70.000   | metre |      |        |
| 36    | 7.10:Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.           | 4.000    | no    |      |        |
| 37    | 9.1.21:Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.3 1/2X 35 sq. mm (32mm) | 2.000    | set   |      |        |
| 38    | 9.1.33:Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.4 X 16 sq. mm (28mm)    | 6.000    | set   |      |        |
| 39    | OD292135/2022-2023:&quot;Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable confirming to IS 7098 (part 1) ammended upto date. - 3.5Cx35sq.mm Al Cable&quot;;             | 60.000   | metre |      |        |
| 40    | OD292136/2022-2023:&quot;Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable confirming to IS 7098 (part 1) ammended upto date. - 4Cx16sq.mm Al Cable&quot;;               | 15.000   | metre |      |        |

\*Rate shall be exclusive of GST.

\*Rate should be clearly readable without ambiquity.

| SL NO                                       | DESCRIPTION   | QUANTITY | UNIT  | RATE | AMOUNT |
|---|---|----------|-------|------|--------|
| 41  | OD292137/2022-2023:&quot;Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable confirming to IS 7098 (part 1) ammended upto date. - 4Cx10sq.mm Al Cable&quot;;   | 10.000   | metre |      |        |
| 42  | 9.1.32:Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.4 X 10 sq. mm (25mm)  | 2.000    | set   |      |        |
| 43  | OD292138/2022-2023:Supply and laying of 3CX4sqmm submersible copper flexible cable  | 25.000   | metre |      |        |
| <b>ELECTRICAL FITTINGS(Electrical work)</b> |   |          |       |      |        |
| 44  | 1.41:Installation, testing and commissioning of pre - wired, fluorescent fitting/ compact fluorescent fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq.mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required. | 50.000   | each  |      |        |
| 45  | 1.44:Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.   | 35.000   | no    |      |        |
| 46  | 1.49:Numbering of ceiling fan / exhaust fan/ fluorescent fittings as required.  | 150.000  | each  |      |        |
| 47  | 1.50.1:Installation of exhaust fan in the existing opening, including making good the damage connection testing, commissioning etc. as required.Upto 450 mm sweep   | 11.000   | each  |      |        |

\*Rate shall be exclusive of GST.

\*Rate should be clearly readable without ambiquity.



| SL NO | DESCRIPTION  | QUANTITY | UNIT | RATE | AMOUNT |
|-------|--|----------|------|------|--------|
| 48    | OD292157/2022-2023:Supply, conveyance, installation, testing and commissioning of ceiling fans of the following sizes using standard accessories excluding resistance type regulator, wiring the down rod with 16/0.20mm PVC insulated and PVC sheathed 650/1100V grade 3 core round copper conductor flex wire or with extended original wiring etc. as required.1200mm sweep -5star rated ceiling fan(BLDC) complete with 300mm down rod , canopies, shackles and blades working on 230V/240V single phase A/C | 35.000   | each |      |        |
| 49    | OD292158/2022-2023:Supply of indoor industrial surface mounted LED tube and batten along with driver , surge protector,system wattage of 20+/- 2 Watts,lumen output of lamp greater than 1600lumen, power factor >0.9,rated life of L70 @ 50,000 hours, system efficacy greater than 70lumen/watt and including all necessary accessories as required complete.  | 50.000   | each |      |        |
| 50    | OD292159/2022-2023:Supply of 250 mm sweep,900 rpm light duty exhaust fan in plastic body with self opening louvers working on 230 V AC supply complete with all accessories as required.   | 11.000   | each |      |        |
| 51    | OD292160/2022-2023:Supply of 9W bulb   | 11.000   | each |      |        |
| 52    | OD292161/2022-2023:Supply and fixing of 36/40 W, 4000 lumen LED, IP 66 street light fitting with aluminium housing, stove enameled CRCA sheet steel reflector cover, acrylic cover complete with THD 0.98, RoHS compliant, duly wired up for use on 230 V AC supply.   | 4.000    | each |      |        |

\*Rate shall be exclusive of GST.

\*Rate should be clearly readable without ambiguity.

| SL NO | DESCRIPTION   | QUANTITY | UNIT  | RATE           | AMOUNT |
|-------|---|----------|-------|----------------|--------|
|       | <b>EARTHING(Electrical work)</b>  |          |       |                |        |
| 53    | 5.4:Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.   | 2.000    | set   |                |        |
| 54    | 5.9:Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required.(Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm) | 35.000   | metre |                |        |
| 55    | 5.15:Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.   | 15.000   | metre |                |        |
| 56    | 90.16.1.3:Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required3.15 mm copper conductor ( 10 SWG)  | 20.000   | metre |                |        |
| 57    | 90.16.1.2:Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required2.65 mm copper conductor (12 SWG)   | 10.000   | metre |                |        |
|       |   |          |       | <b>TOTAL =</b> |        |

\*Rate shall be exclusive of GST.

\*Rate should be clearly readable without ambiguity.

**Name of Work :- Construction of a New Academic Building at Calicut International Airport School**

**Total Amount As per BOQ 1(Civil) & BOQ 2 (Electrical)**

| SL NO | DESCRIPTION | AMOUNT |
|-------|-------------|--------|
| 1     | Civil       |        |
| 2     | Electrical  |        |

**Total =**

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**Amount in Figures :**

\*Rate shall be exclusive of GST.

\*Rate should be clearly readable without ambiguity.