

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT
OFFICE OF THE EXECUTIVE ENGINEER (E)-CHENNAI-II
CENTRAL P.W.D, CHENNAI-600 040**

NOTICE INVITING e-TENDER

NIT No: 30/EE(E)-CHENNAI-II /2026-27/CPWD/CHN

Name of work :- MOEI and Fans, including RMO of HT/LT Substation, 3 x 80 TR Air-cooled type AC plant, DG Sets, Split type AC Units, Passenger and Goods Lifts, Water Supply Pump sets, Street Lights, Firefighting system etc., for office building of Commissioner of Customs (Airport), Air Cargo Complex, Meenambakkam, Chennai -27 for the financial year 2026 -2027. SH: Providing services of day to day maintenance of IEI & fans including operation of DG set, Chiller plants, water supply pump set, Split type AC Units, Fire alarm & Fire Fighting System and Lifts etc.

Estimated cost: - **Rs. 18,70,104/-**

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Certified that this e - NIT contains 1 to 61 Pages only.

**Assistant Engineer(E)(P)
O/o The EE(E)-Chennai-II,
Central P.W.D., Chennai-600 040.**

**Executive Engineer (E)
O/o The EE(E)-Chennai-II,
Central P.W.D., Chennai-600 040.**

**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING FORMING
PART OF BID DOCUMENT AND TO BE POSTED ON WEBSITE
(Applicable for inviting open bids)**

The Executive Engineer (E)-CHENNAI-II, CPWD, Thirumanglam, Chennai-40 on behalf of President of India invites **online percentage rate tender from the eligible contractors of CPWD Enlisted in Composite Category in single bid system** for execution of the following **works**:

1	NIT No.	<u>30/EE(E)-CHENNAI-II/2026-27 / CPWD / CHN</u>
2	Name of work & Location	MOEI and Fans, including RMO of HT/LT Substation, 3 x 80 TR Air-cooled type AC plant, DG Sets, Split type AC Units, Passenger and Goods Lifts, Water Supply Pump sets, Street Lights, Firefighting system etc., for office building of Commissioner of Customs (Airport), Air Cargo Complex, Meenambakkam, Chennai -27 for the financial year 2026 -2027. SH: Providing services of day to day maintenance of IEI & fans including operation of DG set, Chiller plants, water supply pump set, Split type AC Units, Fire alarm & Fire Fighting System and Lifts etc.
3	Estimated cost put to bid (in Rs.)	Rs. 18,70,104/-
4	Earnest Money (in Rs.)	Rs. 37,402/-
5	Period of Completion	06 (SIX) MONTHS
6	Last date and time of online submission of bid, Original EMD, copy of receipt for deposition of Original EMD , should be deposited either in the office of Executive Engineer inviting bids or Division office of any Executive Engineer, CPWD with in the period of bid submission. (Format of receipt of deposition of Original EMD is enclosed herewith for contractor use)	08.10.2026 up to 11.00 AM
7	Time & date of opening of bid.	08.10.2026 11.30 AM

1. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required **as per the list @ Sl.No.11 below**".
2. Information and Instructions for bidders posted on website shall form part of bid document.
3. The bid document consisting of specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and

downloaded from website <https://etender.cpwd.gov.in> or www.cpwd.gov.in or www.eprocure.gov.in. **Free of cost.**

4. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.
5. The intending bidder must have valid class-III digital signature to submit the bid.
6. Contractor can upload documents in the form of JPG format and PDF Format.
7. ~~Contractor must ensure to quote rate of each item. The column meant for quoting rate is left blank, and no rate is quoted by the bidder, rate of such item shall be treated as "0"(ZERO).~~
8. ~~The eligibility bid shall be opened first on due date and time as mentioned above. The time and date of opening of the Financial bid of contractors qualifying in the eligibility bid shall be communicated to them at a later date.~~
9. ~~When bids are invited in three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. if not submitted then the bid submitted earlier shall become invalid.~~
10. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.

11. A. List of documents to be scanned and uploaded within the period of bid submission:-

- a) **Proof of Valid CPWD Enlistment** in appropriate classes of **Composite Category**.
- b) **Scanned copies of EMD documents and receipt for deposition of Original EMD**
- c) **GST registration Certificate if already obtained by the bidder. If the bidder has not obtained GST registration as applicable, then he shall scan and upload following undertaking along with bid documents.**

"If work is awarded to me, I/we shall obtain GST registration certificate as applicable, within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on account of the work executed and / or for any action taken by CPWD or GST department in this regard. (Undertaking, if any submitted, shall be work specific and the name of work shall be indicated).

- d) **Notarized Affidavit of 'Non-black listing' by CPWD/State/ Central Department/PSU/Autonomous bodies as per Affidavit-I on Rs 100/- Stamp paper (Not earlier than six months from the date of opening of Notice Inviting Tender)(Refer Page No:- 22).**
- e) **Valid Electrical License for working voltage of 11 KV and above.**
- f) **ERP Training Certificate**

B. Documents to be submitted by the successful tender on issue of LOI.

(These documents can be uploaded with the tender also)

- a) **Certificates of Registration with EPFO, ESIC or proof of applying for the same.**

12. The bid submitted shall become invalid if:

- i) The bidders is found ineligible.
- ii) **The bidders does not deposit original EMD with Division office of any Executive Engineer, CPWD.**
- iii) **The bidders does not upload all the documents (as per Sl.No: 11a to 11f) as stipulated in the bid document.**

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

No. 24(2)/EE(E)-CHENNAI-II/2026/867(H)

Dated:-30/09/2026

To:-<https://etender.cpwd.gov.in> (Uploaded Schedule-A & relevant files on-line)

**Assistant Engineer(E)(P)
O/o The EE(E)-Chennai-II,
Central P.W.D., Chennai-600 040.**

**Executive Engineer (E)
O/o The EE(E)-Chennai-II,
Central P.W.D., Chennai-600 040.**

Copies to:-

- 1. Notice Board.
- 2. All EEs, CPWD, Chennai
- 2. <https://etender.cpwd.gov.in>

**Assistant Engineer(E)(P)
O/o The EE(E)-Chennai-II,
Central P.W.D., Chennai-600 040.**

**Executive Engineer (E)
O/o The EE(E)-Chennai-II,
Central P.W.D., Chennai-600 040.**

CPWD-6 FOR e-Tendering

Percentage rate bids are invited on behalf of President of **from the eligible contractors of CPWD Enlisted in Composite Category in single bid system** for execution of the following works:

Name of work :- As per page No:- 02

The enlistment of the contractors **should be valid on the last date of submission of bids**. In case the last date of submission of bid is extended, the enlistment of contractor should be valid on the original date of submission of bids.

- 1.1 The work is estimated to cost **Rs. 18,70,104/-**. This estimate, however, is given merely as a rough guide.
- ~~1.1.1 The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids. For composite bid, besides indicating the combined estimated cost put to bid, should clearly indicate the estimated cost of each component separately. The eligibility of bidders will correspond to the combined estimated cost of different components put to bid.~~
- ~~1.2 Intending bidders is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:~~

Criteria of eligibility for submission of bid documents

~~1.2.1 Conditions for Non CPWD contractors only, if bids are also open to non CPWD contractors. For works estimated cost up to Rs. 15 Crore (the figure of Rs. 15 Crore may be modified as per bidding limit of CPWD class I/ Group A contractors of respective discipline such as Electrical, Horticulture and Furniture etc. as the case may be). Three similar works each of value not less than Rs. or two similar work each of value not less than Rs. or one similar work of value not less than Rs. (all figures rounded to nearest Rs.10 lac) in last 7 years ending last day of the month previous to the one in which the bids are invited.~~

Note :-

~~For works costing above Rs. 3 Crore but up to Rs. 15 Crore, (the figure of Rs. 3 Crore and Rs. 15 Crore may be modified as per bidding limit of CPWD class II/ Group B and CPWD Class I/ Group A contractors respectively of respective discipline such as Electrical, Horticulture and Furniture etc. as the case may be) when bids are open to non CPWD contractors also, then class II contractors of CPWD shall also be eligible if they satisfy the eligibility criteria specified in 1.2.1 above.~~

~~1.2.2 Criteria of eligibility for CPWD as well as non CPWD contractors.~~

~~For works estimated to cost above Rs. 15 Crore. (the figure of Rs. 15 Crore may be modified as per bidding limit of CPWD class I/ Group A contractors of respective discipline such as Electrical, Horticulture and Furniture etc. as the case may be)~~

~~1.2.3 When bids are invited from non CPWD contractors and CPWD class II contractors as per provisions of clause 1.2.1 above, it will be mandatory for non CPWD contractors and CPWD class II contractors to upload the work experience certificate(s) and the affidavit as per the provisions of clause 1.2.2. But for such bids, Class I contractors of CPWD are eligible to submit the bids without submission of work experience certificate~~

~~and affidavit. Therefore, CPWD class I contractors shall upload two separate letters for experience certificate and affidavit that these documents are not required to be submitted by them. Uploading of these two letters is mandatory otherwise system will not clear mandatory fields.~~

2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 7/8 (or other Standard Form as mentioned) which is available as a Govt. of India Publication and also available on website **www.cpwd.gov.in**. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be **06 (SIX) Months** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. The site for the work is available.
5. The bid document consisting of ~~plans~~, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on website <https://etender.cpwd.gov.in> or www.cpwd.gov.in free of cost.
6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.

7.A. No running account bill shall be Paid for the work till the applicable Labour license, registration with EPFO, ESIC and BOCW welfare board, whatever applicable are submitted by the contractor To the Engineer-in-charge.

8. Earnest Money in the form of Treasury Challan or Demand Draft or Pay order or Banker's Cheque or Deposit at Call Receipt or Fixed Deposit Receipt (drawn in favour of **Executive Engineer, CCD-IV, CPWD, Chennai** shall be scanned and uploaded to the e-tendering website with in the period of bid submission. **The original EMD should be deposited either in the office of Executive Engineer, EE(E)-CHENNAI-II, Sub Division office of EE(E)-Chennai-II or division office of any Executive Engineer, CPWD signed by EE/AAO with in the period of bid submission.**

The EMD receiving office shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT. This receipt shall also be uploaded to the e-tendering website by the intending bidder within the specified bid submission date and time.

A part of earnest money is acceptable in the form of bank guarantee also. In such case, 50% of earnest money or Rs. 20 lac, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any scheduled bank having validity for 3 months or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

~~The physical EMD of the scanned copy of EMD uploaded shall be deposited by the lowest tenderer before the due date and time stipulated for opening of eligibility bid, failing which the tender shall be rejected forthwith.~~

~~The following undertaking in this regard shall also be uploaded by the intending bidders.~~

~~“ The physical EMD shall be deposited by me/us with the EE calling the tender in case i/we become the lowest tenderer with in a week of the opening of financial bid otherwise department may reject the tender and also take action to withdraw my/our enlistment.~~

~~The intending bidder has to fill all the details such as Banker's name, Demand Draft/Fixed Deposit Receipt /Pay Order/ Banker's Cheque/Bank Guarantee number, amount and date.~~

~~The amount of EMD can be paid by multiple Demand Draft / Pay Order / Banker's Cheque / Deposit at call receipt / Fixed Deposit Receipts along with multiple Bank Guarantee of any Scheduled Bank if EMD is also acceptable in the form of Bank Guarantee.~~

Copy of Enlistment Order and other documents as specified in the press notice, shall be scanned and uploaded to the e-Tendering website within the period of bid submission.

Online bid documents submitted by intending bidders shall be opened only of those bidders, **whose EMD deposited with any division office of CPWD** and other documents submitted in office are found in order.

The bid submitted shall be opened as per page no 02 forming part of bid document and to be posted on website.

9. The bid submitted shall become invalid if:

- i) The bidders is found ineligible.
- ii) The bidders does not deposit original EMD with Division office of any Executive Engineer, CPWD
- iii) The bidders does not upload all the documents (as per Sl.No:11a to 11e) as stipulated in the bid document.
- iv) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest tenderer in the office of tender opening authority.

10. **List of documents to be scanned and uploaded with in the period of bid submission:-**

AS IN SL.NO 11A @ PAGE NO:- 03

1. The contractor whose bid is accepted will be required to furnish performance guarantee of 5% (Three Percent) of the bid amount within the period specified in Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10000/-)

or

Deposit at Call receipt of any scheduled bank/Banker's cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay order of any Scheduled Bank of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-)

or

Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the

Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving aforesaid performance guarantee.

The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/registrations or proof of applying for obtaining labour license, registration with EPFO, ESIC and BOCW welfare board and programme chart (time and progress) within the period specified in Schedule-F. The applicable and eligible amount of EPF & ESI shall be reimbursed on submission of documentary proof of payment provided same are in order.

11. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.
12. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.
13. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
14. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
15. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
16. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in

writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.

17. The bid for the works shall remain open for acceptance for a period of sixty (60) days from the date of opening of bids from the date of opening of financial bid (strike out as the case may be) if any bidders withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the bidders shall not be allowed to participate in the rebidding process of the work.
18. This notice inviting Bid shall form a part of the contract document. The successful bidders/contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:
 - a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
 - b) Standard C.P.W.D. Form 7/8 or other Standard C.P.W.D. Form as applicable. For composite Tender-**Not Applicable**

CPWD-7/8

CPWD

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT
Percentage Rate Tender & Contract for Works**

Tender for the work of:-

Name of work As per page No:- 02

Estimated cost: - **Rs. 18,70,104/-**

- i) To be submitted online by the Contractor as per page no 02 forming part of bid document and to be posted on website to the Executive Engineer (Elect)-CHENNAI-II, CPWD, Chennai-40
- ii) To be opened in presence of tenderers who may be present as per page no 02 forming part of bid document and to be posted on website in the office of the Executive Engineer(Elect)-CHENNAI-II CPWD, Chennai

Issued to

Signature of officer issuing the documents

Designation: **Executive Engineer (Elect)-CHENNAI-II, CPWD, Chennai-40**

Date of Issue 30-09-2026

TENDER

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

I/We hereby tender for the execution of the work specified for the President of India within the time specified in Schedule 'F' viz., schedule of quantities and in accordance in all respect with the specifications, designs, drawing and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respect of accordance with, such conditions so far as applicable.

We agree to keep the tender open for (30) Thirty days from the date of opening of financial bid ~~in case tenders are invited on 3 envelop system~~ and not to make any modification in its terms and conditions.

A sum of **Rs.37,402/-** is hereby forwarded in cash/receipt treasury challan/deposit at call receipt of a scheduled bank/fixed deposit receipt of scheduled bank/demand draft of a scheduled bank/bank guarantee issued by a scheduled bank as earnest money. If I/We, fail to furnish the prescribed performance guarantee within prescribed period. I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents

upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form. Further, I/We agree that in case of forfeiture of Earnest Money & Performance Guarantee as aforesaid. I/We shall be debarred for participation in the re-tendering process of the work.

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

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

Dated:

Signature of Contractor

Witness:

Postal Address:

Address:

Occupation:

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the President of India for a sum of Rs. (Rupees).

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

(a)

(b)

(c)

For & on behalf of President of India

Signature.....

Dated:

Designation.....

PROFORMA OF SCHEDULES**CPWD****PROFORMA OF SCHEDULES**

(Separate Performa for Civil, Elect. & Hort. Works in case of Composite Tenders)
 (Operative Schedules to be supplied separately to each intending tenderer)

SCHEDULE 'A'

Schedule of quantities (as per PWD-3) (attached separately)

SCHEDULE 'B'

Schedule of materials to be issued to the contractor.

S.No.	Description of item	Quantity	Rates in figures & words at which the material will be charged to the contractor	Place of issue
1	2	3	4	5
---	----NIL----	--NIL--	-----	-----

SCHEDULE 'C'

Tools and plants to be hired to the contractor

S.No.	Description	Hire charges per day	Place of issue
1	2	3	4
---	----NIL----	--NIL--	-----

SCHEDULE 'D'

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

COMMERCIAL AND ADDITIONAL CONDITIONS & TECHNICAL SPECIFICATIONS as per NIT

SCHEDULE 'E'

Reference to General Conditions of contract.

Name of work:- As per page No:- 02

Estimated cost of work : **Rs. 18,70,104/-**

- i) Earnest Money : **Rs. 37,402/-**
- ii) Performance Guarantee : **5%** of tendered value
- iii) Security Deposit : **2.5%** of tendered Value

SCHEDULE 'F'

GENERAL RULES & DIRECTIONS: Officer inviting tender : The Executive Engineer (Elect)-CHENNAI-II, CPWD, Chennai -40

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3: **See below**

Definitions:

2(v) Engineer-in-Charge: The Executive Engineer(Elect)-CHENNAI-II, CPWD, Chennai.

2(viii) Accepting Authority: The Executive Engineer(Elect)-CHENNAI-II, CPWD, Chennai.

2(x) % on cost of materials and Labour to cover all overheads and profits: **15%**

2(xi) Standard Schedule of Rates: DSR (Electrical Part-1 – Internal & External) -**2025**

2(xii) Department : CPWD

9(ii) Standard CPWD Contract Form GCC 2023 Maintenance, CPWD Form 7/8 modified & Corrected up to the previous day of last date of online submission of tender.

Clause 1

(i) Time allowed for submission of Performance Guarantee, Programme chart (Time and progress) Applicable Labour license, Certificate of Registration EPFO, ESIC, if Proof of application for the same uploaded: **7 days**

(ii) Maximum allowable extension **with late fee 0.1% Per day of performance guarantee amount the Period provided in (i) above : 5 days**

Clause 2

Authority for fixing compensation under clause 2 : CE (Chennai Region)

Clause 2A

Whether Clause 2A shall be applicable: No

Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start : **5 days**

Mile stone(s) as per table given below:

S.No.	Description of Milestone (Physical)	Time allowed in days(from date of start)	Amount to be with-held in case of non achievement of mile stone
		NIL	

Time allowed for execution of work: **06 (SIX) Months**

Authority to decide:

- (i) Extension of time : The Executive Engineer(E)-CHENNAI-II, CPWD, Chennai-40
- (ii) Rescheduling of mile stones : The Executive Engineer(E)-CHENNAI-II, CPWD, Chennai

Clause 6, 6A

Clause applicable – **6A**

Gross work to be done together with net payment/adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment:

Clause 7A: Whether clause 7A shall be applicable : Yes.

Clause 10A: List of testing equipment to be provided by the contractor at site lab.:
Nil

Clause 10B(ii):

Whether Clause 10 B (ii) shall be applicable : No

Clause 10C:

Component of labour expressed as percent of value of work = **Not applicable**

Clause 10CA : Not Applicable

S.No.	Material covered under this clause	Nearest Materials (other than cement, reinforcement bars and the structural steel) for which All India Wholesale Price Index to be followed	Base Price of all Materials covered under clause 10 CA

* Base price of all the materials covered under clause 10 CA is to be mentioned at the time of approval of NIT.

Clause 10CC: Not Applicable

Clause 11

Specifications to be followed : for execution of work:

- (i) CPWD General Specifications for Electrical works Part I Internal - 2023, as amended upto date.
- (ii) CPWD General Specifications for Electrical works Part II External - 2023, as amended upto date.
- (iii) CPWD General Specifications for Electrical works Part III Lift & Escalators - 2003, as amended upto date.
- (iv) CPWD General Specifications for Electrical works Part IV Sub Station - 2013, as amended upto date.
- (v) CPWD General Specifications for Electrical works Part V Wetriser & Sprinkler Systems - 2020, as amended upto date.
- (vi) CPWD General Specifications for Electrical works Part VI Fire Detection and Alarm System - 2018, as amended upto date.
- (vii) CPWD General Specifications for Electrical works Part VII DG Sets - 2013, as amended upto date.
- (viii) CPWD General Specifications for Electrical works Part VIII Gas Based Fire Extinguishing System - 2013, as amended upto date.

12.2. & 12.3 Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for building work : No Limit

12.5 Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for foundation work : Not applicable

Type of work: Maintenance Work

Clause 16

Competent Authority for deciding reduced rates : **CE (Chennai Region)**

Clause 18

List of mandatory machinery, tools & plants to be deployed by the contractor at site:

1	Earth Tester
2	Insulation Tester LT / HT
3	Tong Tester
4	Multi Meter
5	Lux Meter
6	Vernier Caliper
7	Wire Gauge
8	Hand Blower/Vacuum Cleaner
9	Drill Machine
10	Chase Cutting Machine
11	Crimping toolkit
12	Self-Supporting ladder – 4ft 3 Nos
13	Ladder – 20 ft 1 No
14	Electrical Wiring drawing machine
15	Cable fault locator Machine
16	One Set of Hydraulic crimping toolkit
17	Earth fault loop impedance tester / Multi Tester
18	Installation Tester (Voltage, Current, Loop impedance, RCD Tripping, Insulation etc

Clause 19C**Rs. 200/- Per day each day of default****Clause 19D****Rs. 200/- Per day each day of default**Contractor Shall submit the report by 4th and 19th of every month

1	Number of labourers employed	
2	Working Hours	
3	Wages Paid	
4	Accidents occurred	
5	Number of female workers employed	

Clause 19G**Not Applicable****Clause 19K****Not Applicable****Clause 25(i)****Constitution of Dispute Redressal Committee:**

- (i) For all claims in dispute:**
- (a) Conciliator: (Special Director General or the Additional Director General concerned with the work, as applicable).
 - (b) Arbitrator Appointing Authority: Chief Engineer(Chennai), CPWD, Chennai or his successor or thereof.
 - (c) Place of Arbitration: Chennai, Tamil Nadu.

Notice for appointment of Arbitrator

To
The Chief Engineer, Chennai.

.....

Subject: Notice for appointment of Arbitrator for adjudication of disputes relating to agreement Number.....

Dear Sir,

In terms of **clause 25 (Arbitration Clause)** of the aforesaid agreement, particulars of which are given below, I/we hereby give you notice to appoint an arbitrator for adjudication of disputes mentioned below:

1. Name of applicant
2. Whether applicant is Individual/Prop. Firm/Partnership Firm/Ltd. Co.
3. Full address of the applicant
4. Name of the work and contract number in which arbitration sought
5. Name of the Division which entered into contract
6. Contract amount
7. Date of contract
8. Stipulated date of start of work
9. Stipulated date of completion of work
10. Actual date of completion of work (if completed)
11. Total number of claims made
12. Total amount claimed
13. Date of intimation of final bill (if work is completed)
14. Date of payment of final bill (if work is completed)
15. Amount of final bill (if work is completed)
16. Date of reference made to SDG/ADG for conciliation, if applicable:
17. Date of termination of conciliation proceedings:
18. I/We hereby give consent for appointment of Arbitrator of MoHUA Waiver agreement as per Appendix -XIX is enclosed

Or

I/We do not give consent for appointment of Arbitrator of MoHUA.
I/We certify that the information given above is true to the best of my/our knowledge. I/We enclose following documents.

1. Statement of claims with amount of claims.
2. * Agreement of Waiver of Section 12(5) of the Arbitration and Conciliation Act. 1996 in Appendix-XIX
(Strikeout if not applicable)

Yours faithfully,

(Signature of the applicant)

(only the person/authority who signed the contract should sign here)

Copy to:

1. The Executive Engineer('E)-CHENNAI-II, Central PWD, Thirumangalam, Chennai-40.

APPENDIX-XIX**Agreement towards waiver of Section 12(5) of Arbitration & Conciliation Act 1996**

1. Whereas certain disputes have arisen between M/s
(Claimants) and M/s (Respondents) relating to agreement No.....
2. And whereas the parties are aware that Shri is on the cadre of CPWD, presently on deputation as Arbitrator, Ministry of Housing and Urban Affairs, Government of India.
3. I/We agree for the appointment of Shri as the sole Arbitrator for adjudication of the disputes, and we hereby waive the applicability of Section 12(5) of the Arbitration & Conciliation Act, 1996.

(Signature)**(Only the person/authority who signed the contract should sign here)****Name****Date**

(The name of the Arbitrator, Ministry of Housing and Urban Affairs, Government of India may be enquired form the Engineer-in-charge, if required).

Clause 36 (I) Requirement of Technical Representative (S) and recovery Rate

Sl No	Requirement of Technical Staff- Qualification.	Designation of Technical Staff	Minimum Experience (Years)	Nos. (of Major+Minor component)	Rate at which recovery shall be made from the contractor in the event of not fulfilling provisions of Clause 36(i)	
					Figures	Words
1	Graduate Engineer or Diploma Engineer	Project Manager cum planning/quality /site/billing Engineer	2 or 5 respectively	1 of major comp	Rs 15000/- per month per person	Fifteen thousand and only

Clause 42 : Not applicable

- (i) (a) Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates printed by C.P.W.D.
- (ii) Variations permissible on theoretical quantities:
- a) Cement
 - For works with estimated cost put to tender not more than Rs. 5 lakh.
3% plus/minus.
 - For works with estimated cost put to tender more than Rs.5 lakh.
2% plus/minus.
 - b) Bitumen All Works 2.5% plus & only & nil on minus side.
 - c) Steel Reinforcement and structural steel sections for each diameter, section and category 2% plus/minus All other materials. Nil

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION
: Not applicable

S.No.	Description of Item	Rates in figures and words at which recovery shall be made from the Contractor	
		Excess beyond permissible variation	Less use beyond permissible variation
1	Cement		
2	Steel Reinforcement		
3	Structural Sections		
4	Bitumen issued free		
5	Bitumen issued at stipulated fixed price		

Form of Performance Security (Guarantee)

Bank Guarantee Bond

In consideration of the President of India (hereinafter called "The Government") having offered to accept the terms and conditions of the proposed agreement between **Executive Engineer, CCD-IV, CPWD, Chennai** and(hereinafter called "the said Contractor(s)") for the work..... (hereinafter called "the said agreement") agreed to production of an irrevocable Bank Guarantee for Rs. (Rupees..... only) as a security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

1. We, (herein after referred to as "the Bank") hereby undertake to pay to the Government an amount not exceeding Rs. Rupees..... Only) on demand by the Government.
2. We,(indicate the name of the Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demure, merely on a demand from the Government stating that the amount claimed as required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs..... (Rupeesonly)
3. We, the said bank further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Contractor(s) shall have no claim against us for making such payment.
4. We, (indicate the name of the Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-in- Charge on behalf of the Government certified that the terms and conditions of the said agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.

5. We, (indicate the name of the Bank) further agree with the Government that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).
7. We, (indicate the name of the Bank) lastly undertake not to revoke this guarantee except with the previous consent of the Government in writing.
8. This guarantee shall be valid up tounless extended on demand by the Government Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. (Rupees) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged. Dated the.....day offor.....(indicate the name of the Bank)

AFFIDAVIT-I

We undertake and confirm that our firm has not been blacklisted by any State/Central Departments/PSUs/ Autonomous bodies **during the last 7 years** of its operations. Further that, if such an information comes to the notice of the Department, then we shall be debarred for bidding in CPWD in future forever. Also, if such an information comes to the notice of department on any day before date of start of work the Engineer in charge shall be free to cancel the agreement and to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

**Signature of Notary with Seal
With Stamp and date**

**Signature of Bidder(s) or and
authorized Officer of the Firm.**

Receipt of deposition of Original EMD

Receipt No. Dt.		
1.	Name of Work*	MOEI and Fans, including RMO of HT/LT Substation, 3 x 80 TR Air-cooled type AC plant, DG Sets, Split type AC Units, Passenger and Goods Lifts, Water Supply Pump sets, Street Lights, Firefighting system etc., for office building of Commissioner of Customs (Airport), Air Cargo Complex, Meenambakkam, Chennai -27 for the financial year 2026 -2027. SH: Providing services of day to day maintenance of IEI & fans including operation of DG set, Chiller plants, water supply pump set, Split type AC Units, Fire alarm & Fire Fighting System and Lifts etc.
2.	NIT No.*	<u>30/EE(E)-CHENNAI-II/2026-27/CPWD/CHENNAI</u>
3.	Estimated Cost*	Rs. 18,70,104/-
4.	Amount of Earnest Money Deposit*	Rs. 37,402/-
5.	Last date of submission of Bid*	Upto 11.00 hrs on 08.10.2026
(* To be filled by NIT approving authority / EE at the time of issue of NIT and uploaded along with NIT)		
1.	Name of Contractor#	
2.	Form of EMD#	
3.	Amount of Earnest Money Deposit#	
4.	Date of Submission of EMD#	
Signature, Name and Designation of EMD receiving Officer (EE/AE(P)/AE/AAO)		

- i) The Authority receiving EMD in original form examines the EMD deposited by the bidder and issues receipt of deposition of earnest money to the agency in a given format uploaded by tender inviting authority. The receipt can also be issued by any subordinate gazetted authority as authorized by the EE/Engineer in Charge/DDH.
- ii) The authority receiving original EMD also intimates tender inviting authority about deposition of EMD by the agency by email/fax/telephonically.
- iii) The original EMD receiving authority releases the EMD to unsuccessful bidders after the expiry of stipulated bid validity period or immediately after acceptance of the successful bidder, whichever is earlier, after verification from the e-tendering portal website (<https://etender.cpwd.gov.in> >tender free view> advance search>awarded tenders) that the particular contractor is not L-1 bidder and work is awarded.
- iv) The tender inviting authority calls for original EMD of the L1 bidder from EMD receiving authority immediately.

Note:- Earnest Money in the form of Treasury Challan or Demand Draft or Pay order or Banker's Cheque or Deposit at Call Receipt or Fixed Deposit Receipt (drawn in favour of Executive Engineer, CCD-IV, CPWD, Chennai.

ADDITIONAL CONDITIONS

Name of work:- MOEI and Fans, including RMO of HT/LT Substation, 3 x 80 TR Air-cooled type AC plant, DG Sets, Split type AC Units, Passenger and Goods Lifts, Water Supply Pump sets, Street Lights, Firefighting system etc., for office building of Commissioner of Customs (Airport), Air Cargo Complex, Meenambakkam, Chennai -27 for the financial year 2026 - 2027. SH: Providing services of day to day maintenance of IEI & fans including operation of DG set, Chiller plants, water supply pump set, Split type AC Units, Fire alarm & Fire Fighting System and Lifts etc.

1. The Operation and maintenance work shall be carried out at **Air Cargo Complex, Meenambakkam, Chennai- 27** and includes maintenance of various Electrical & Mechanical Installations, attending to all faults and complaints, fuse off calls i/c cleaning and up keeping the installations according to the safety code taking all possible precautions, attending to power supply break downs, repairs to water supply pump sets, street lights i/c planning, executing the preventive maintenance, **operation of water supply pump sets** etc. complete as required.
2. The maintenance shall be carried out strictly as per the shift timings specified unless otherwise altered by the Engineer - in - Charge as per the Site requirements, and if the situation warrants the maintenance staff shall work as per split shift timings as determined by the Engineer -in - charge, for which no extra payment will be made.
3. The contractor shall employ the following qualified and experienced staff for the maintenance of Electrical Installation.

Name of Shift	No. of Workers	
	Wiremen-cum-Operator	Unskilled
Shift A (6.00 Hrs to 2.00 Hrs)(All days)	1	1
Shift B (2.00 Hrs to 10.00 Hrs)(All Days)	1	1

4. The installations shall be maintained on all days of the month including Sundays & holidays. Weekly off shall be given as per Labor and relevant laws.~~The contractor shall make alternate arrangement for maintenance staff for these days. No extra payment shall be made for these alternate arrangements.~~
5. If situation warrants the maintenance staff shall work beyond the above timing for which no extra payment will be made. The repair/maintenance and attending breakdown of main control panels/ starters will be carried out by the contractor.
6. Conveyance within the area covered irrespective of distance shall be arranged by the contractor at his cost and the Contractor's Representative shall be reachable by Phone/Cell Phone in case of emergency. A mobile phone number shall be permanently provided in the CPWD Service center, which shall be displayed on the notice board of the building and all residential quarters, along with the contractor's mobile number. The complaints should be attended immediately and shall inform the JE (E) / AE (E) after attending the complaint. The maintenance staff should obtain acknowledgement from the client department stating that complaints has been attended satisfactorily.
7. The Contractor shall take necessary precautions to check Cable terminations provided at all out door feeder pillars and other Panel boards installed at office buildings and staff quarters.
8. The Contractor shall maintain the following registers as per the C.P.W.D Norms.
 - a) Complaint Register - for Electrical Complaints.
 - b) Wire Man's Task Register
 - c) Materials Consumption Register & Dismantled Register.
 - d) Log Book for Water supply Pump Set.
 - e) Insulation and Earth test results register
9. Any complaint reported to the agency shall be attended immediately and within a reasonable time not exceeding 6 hrs failing which the recovery shall made for the same @ Rs 200/- for minor complaints pending more than one day and @Rs 250/- for minor complaints pending more than three days. The decision of the Engineer-in-charge is final in deciding the nature of complaints.

10. The spare materials required for the maintenance work has to be arranged by the contractor well in advance and quantity required shall be worked out based on the total no. of points/fittings/fixtures etc. but extra quantities should always be maintained to meet any emergency. No excuse shall be entertained due to shortage in spares. The consumables like Grease, Cotton Waste, Cleaning Cloth, Packing rope, HRC fuses, Indication Lamps, Insulation Tapes etc. shall be provided by the contractor within the quoted rate. The contractor shall keep an account for the materials required based on the complaints received and consumed for the work and work wise Task Register shall be maintained. The dismantled materials shall be handed over to the department. Any discrepancy in the account of the materials shall be the responsibility of the contractor and recovery will be made for any shortage of materials at the prevailing market rates.
11. The contractor shall maintain the attendance register for the staff and the same shall be submitted to the Department for inspection and verifications as and when required. Reference to the attendance of the complaints (with date and time) are to be entered in Log/Complaint Book and got counter signed by the Engineer in Charge/Client Dept.
12. The contractor or their authorized representative shall inspect all the **office buildings** at least once in a week. Reference to the attendance of the complaints (with date and time) are to be entered in Log/Complaint Book and got counter signed by the Engineer in Charge/Client Dept. The contractor shall arrange to maintain a log books for pump sets mentioning relevant details such voltage, current, hours of operation etc.
13. Minor repairs including connections/interconnections in panel boards and switch boxes, minor wiring etc are to be attended at no extra cost as required.
14. The skilled worker deployed by the contractor shall have valid **'B' Licence** and the copy of the same shall be submitted to the Engineer-in-charge. The supervisory staff shall make periodic checks for preventive maintenance to ensure safety of the electrical fixtures as per the norms & safety procedures of the Department, and also shall have the knowledge of operation and maintenance of IEI and fans, minor repairs and operation of DG sets, water supply pump sets etc.

15. The contractor is responsible to attend to the HT Breaker in case of its tripping immediately with experienced eligible staff.

16.The Contractor shall issue identity Cards to the skilled and unskilled workers i/c providing uniform at site and no extra payment will be made on this account.

17.The staff employed by the contractor shall have no claim for regularization in the Department / Government at later stage.

18.The contractor shall make his own arrangements for the normal tools & plants required for the maintenance work.

19.Penal recovery will be made for the absence period from the duty as follows.

- a) Skilled worker - Rs. **2016**/- per day.
- b) Unskilled worker- Rs. **1654**/- per day.

20.Any theft/damage/pilferage etc noticed shall have to be reported immediately to AE (E) / JE (E). The site shall be kept clean by clearing off the excess/wastage materials during the maintenance works.

21.Payment will be made by online every quarter. No advance payment will be made.

22.Any accident / injury happened to the worker during the course of duty, the sole responsibility lies on the contractor for accident / injury. Any risk cover and compensation if necessary in this regard shall be the responsibility of the contractor and the department is not liable for payment of any compensation, damages etc. in any way.

23.All the preventive maintenance activities like insulation testing, megger testing, Earth testing, Checking of DB/Main Board/Feeder Pillar, Fan safety checking, cleaning of fittings, shade/blades etc. shall be carried out as per Central Public Works Department specifications and as per technical circular & safety circular issued up to date and all the record shall be maintained and shall be produced for verifications of JE/AE.

24. The contractor has to remove/replace the erring staff employed by him if they misbehave, refuse to do the work related to the contract as per instructions of the Engineer-in-charge.
25. The department reserves the right to terminate the contract if the maintenance service is unsatisfactory or any other exigency.
26. The scope of the work includes day to day operation and maintenance of Internal Electrical Installations, Electrical Power points, External Electrical works like Street lights & Compound lights, Minor repairs to Water supply pump sets like Oiling, Greasing, Packing rope, LT panel etc.
27. The rates quoted should be inclusive of all taxes. Statutory deductions of GST, LW Cess @ 1% & Income tax @ 2% will be deducted from the contractor's bills. No separate claim for reimbursement of GST shall be entertained for this work.
28. It will be the responsibility of the agency to hand over the entire system as per the inventories in good working condition back to the department at the end of the AMC period.
29. Care should be taken by the contractor to avoid damage to the building during execution of his part of the work. The contractor shall be responsible of repairing all damages and restoring the same to their original finish at his cost.
30. As and when required, the contractor shall be in liaison with TANGEDCO during power failure / line breakdown etc.
31. The period of contract may be reduced as per exigencies and the contractor shall have no claim on this account.
32. All cable glands should be earthed with copper clips & should be connected with main earth through copper wire as per direction of Engineer – in- Charge.
33. All LT UG cables should be labeled with engraved plastic PVC sheet both the ends for identification as per direction of Engineer – in – Charge

34. All LT panel Boards MCB & MCCB DB,s UPS and Raw power outlets should be marked with paint / sticker for identification as per direction of Engineer – in – charge.

35. The material shown in the agreement shall be used for replacing the defective items as and when required, against the task register requirement. The location where replaced shall be mentioned in the CMB, while taking measurement and forwarding the bill.

36. The Contractor should pay the wages not less than minimum wages fixed by the Chief Labour Commissioner (C), Ministry of Labour and Employment Government of India to their staff engaged on this work. The wages should be paid on or before 7th of every month by the contractor. The details of payment made to their employees along with subscription made forwards ESI & EPF should be produced along with ESI and EPF Numbers to the Engineer-in-charge for verification before payment of Bill.

37. RA bill shall be accompanied with following documents for making payment

a. Proof of payment of minimum wages salary to the employees.

Proof of deposit of EPI & ESI payment. Without above documents RA bill shall not be paid. Delay in submission of the above documents and consequent delay in payment of RA bill shall be attributed to the agency only.

38. All LED fittings shall be guaranteed for a period of 5 years and LED Bulbs / Polycarbonate T8 fitting shall be guaranteed for a period of 2 years. Necessary Guarantee Certificate from the Original Manufacturer / their authorized stockist / service partner shall be submitted.

39. The LED fittings shall give an output of not less than 80 lumen/watt. CRI should be more than 80.

40. Total Harmonic Distortion (THD) of all LED fittings except 10 W / 20 W batten shall be less than 10%. For batten fittings THD shall be maximum 15%. Test certificate from manufacturer / any NABL approved laboratory shall be submitted along with supply of the items.

41. Replaced LED fittings to be marked with month & year of installation for future warranty claims.

42. All equipments (Except LED fittings & BLDC Fan) supplied and installed shall be covered by warranty for 12 months effective from the date of acceptance against defective workmanship and materials. If any equipment is found to be defective due to faulty workmanship, faulty materials, faulty design or inferior quality of materials during the warranty period it shall be repaired and/ or replaced at site free of charge by the successful tenderer at his own cost. The warranty shall cover consequential damages to the equipments supplied and installed by the tenderer due to poor workmanship or defective materials. All repairs shall be done promptly within a reasonable period.

43. 1200mm Sweep Ceiling BLDC shall be guaranteed for a period of 5 years. Necessary Guarantee Certificate from the Original Manufacturer / their authorized stockist / service partner shall be submitted.

Wherever specialized agencies are required to be associated, the same shall be done immediately on award of work. Failure to do the same will be sufficient reason to terminate the contract/ department to take necessary action to carry out these portions of work at the risk and cost of the original contractor.

CONDITIONS FOR AMC OF DG SET

- 1.** It is mandatory to carry servicing of the Generating set visit once in month. The period between two consecutive services should not be more than 30 days.
- 2.** The Scope of servicing includes minor repairs to engine, servicing of self motor assembly, Servicing of water pump assembly, RPM adjustment, Check Fan belt condition and Tension, check Alternator, check AVR, Alternator Connection, check AMF panel functioning, topup of distilled water and recharging of batteries etc. Sundry items like cotton waste, grease, insulation tapes, registers, distilled water etc., shall be procured by the contractor within his quoted rates. All other spares shall be supplied departmentally at site.
- 3.** The DG sets under this agreement shall be serviced by **OEM of the equipment / OEM authorized service agency**. Necessary documents in this regard shall be submitted to the department within 15 days of awarded of work. The date of commencement of this item will be counted from the date of effect of AMC with the OEM/OEM authorized agency.
- 4.** The Contractor has to ensure that the Gen Set is always in working condition.
- 5.** Any break down or defects shall be attended to within 24 hrs of lodging of complaint. The breakdown of DG Set beyond 24 hours, without valid reason, shall attract penalty of Rs 500/- day/set of breakdown.
- 6.** The contractor shall maintain the log book for the each DG set and record the nature of service, time period of working, test operation etc.
- 7.** The nature of Service rendered in each visit by the service representative and the same shall be duly signed by the Engineer -in-charge of the work.
- 8.** All the dismantled materials resulting from the work shall be returned back to the department.
- 9.** Oil service shall be carried out once in year and the time span between One consecutive B check should be more than 1 year.
- 10.** Service Report in duplicate shall be submitted by the contractor or his authorized representative on each service duly countersigned by the Junior Engineer (E) / Assistant Engineer (E) concerned.

Conditions for AMC of Split type AC units

1. The quoted amount for service contract shall include providing personnel, **spare parts such as Sensors, PCBs, Capacitors, thermostat, filters, remote and servicing repairing of condenser coil and cooling coil, fan motor, pumps i/c gas charging due to leakage, electrical wiring etc. (all components except compressor) (which will be paid separately if the need arises to the firm) to keep the AC units in smooth working condition. It is mandatory to carry out servicing of the AC units once in a month.**
2. Break down calls without limit shall be attended at the on extra cost within 24 hours of lodging the complaint. Penalty at Rs. 500.00 per day will be levied for each day of delay in attending the complaint. Also pro rata recovery shall be made on AMC rates for the non- working of AC units during the contact period. If delay in attending complaints is persisted, the entire contract is liable to be terminated.
3. In all cases of replacement, the defective component shall be returned to the department. All replacement of component are to be got approved from the Engineer-in-charge before replacement.
4. **In his own interest, the contractor is requested to inspect the AC units before quoting the rate for its AMC including attending existing defects if any.**
5. The Contractor shall issue Identity Cards to the staff deployed and the staff deployed by the contractor shall have no claim for regularization in the department.
6. The firm shall maintain a service card/ log book for each unit and record the service/ repair done by them regularly, which is to be got countersigned by the representative of the client department/ Junior Engineer (E) and submitted to the Department. **Copy of which shall be submitted along with the bill.**
7. All general and special T&P including ladders are to be arranged by the contractor at his own cost.
8. The contract does not include cost of reinstallation of AC units at alternative locations if required for which separate payment will be made.
9. If the unit is required to be taken to workshop for repairs, the same shall be transported by the firm at his risk and cost. No transport charges will be paid.

- 10.** The unit have to be handed over to the Department in good working condition at the end of the contract period.
- 11.** If any accident/ injury occurs to any worker of the Agency, the department shall not be held
- 12.** liable for compensation/ treatment etc
- 13.** Minimum 5 years warranty shall be given for newly installed compressors (if any) from the date of installation and One year warranty shall be given for other materials replaced during AMC period.
- 14.** Inventory of Split Type AC Units at Met, Meenambakkam, Chennai.

AIR CONDITIONER INVENTORY OF CUSTOMS -AIR CARGO,MEENAMBAKKAM							
S.N O	LOCATION	NAM E OF BRAND	TYP E OF UNIT	SERIAL NO: INDOOR/OUTDOOR	CAP ACIT Y	NO OF UNITS	YEAR
1	Telephone Exchange	Carrier	Split	500510409189001830	2TR	1 No	2018-2019
				c1022947011622151097			
2	004, CHS	Carrier	Split		1.5 TR	1 No	2023
3	004,CHS	Carrier	Split		1.5 TR	1 No	2023
4	005,Service Center	Carrier	Split	50063051719300393	2TR	1 No	2018-2019
5	005,Service Center	Carrier	Split	500630517193000887	2TR	1 No	2018-2019
6	005,Service Center	Blue Star	Split	C10229470910525130487	2TR	1 No	2010
7	006,Driuer Room	Daikin	Split	3809	1.5 TR	1 No	
8	007, Dispostal	Blue star	Split		2TR	1 No	
9	111, IAD, CRA.	Hitachi	Split		2TR	1 No	
10	PCA, 112	Daikin	Split		2TR	1 No	2023

11	113, Group 1 to IV	Daikin	Split		2TR	1 No	2023
12	113, Group 1 to IV	Carrier	Split	50063051719300389 500629708199000502	2TR	1 No	
13	114, Turant Room	Hitachi	Split	SE 200B61801 CMB52HBEAG200B77375	1.5TR	1 No	2018-19
14	115, MCD, DESPATCH	Volta	Split		2TR	1 No	2022
15	116, EODC	Carrier	Split		2TR	1 No	2018-19
16	103, AC	Hitachi	Split	SE200136183 200BTT375	2TR	1 No	2018-19
17	105.JC.PA		Split		2TR	1 No	2023
18	102 JC	Daikin	Split	0004781	1.5TR	1 No	2018-19
19	104AC	Daikin	Split	0003812	1.5TR	1 No	2018-19
20	107 ADC	Daikin	Split	0005233	1.5TR	1 No	2018-19
21	EDI	Daikin	Split	0003809	1.5TR	1 No	2018-19
22	201 Commioner 1	Carrier	Split	50038117169004222		1 No	
23	202 PS. Commioner 1	Volta	Split	C10229470010524130518		1 No	2022
24	207Appraising Main	Hitachi	Split			1 No	2022
25	211,Legal &Review	Carrier	Split	50051040918901840 50051051189001847		1 No	2018
26	211,Legal &Review	Hitachi	Split	SE200B61806 CMB52HBEAG2001377615		1 No	20-20

27	212 AC Room	Volta s	Split	SE140S14533		1 No	2021-22
28	213 Draw Back	Carri er	Split			1 No	2016-17
29	213 Draw Back	Hitac hi	Split	500348008169002085		1 No	2021-22
30	214 Refunds	Carri er	Split	SE2001361805 CMB52HBEAG2001377349		1 No	2016-17
31	214 Refunds	Volta s	Split	500348008169002107		1 No	2018-19
32	215 SIIB	Carri er	Split	500510409189001869 50051051189001836		1 No	
33	301, PS 10 Commisione r	Blue star	Split	SE40514527	2 TR	1 No	2021-22
34	303, Commisione r - VII	Blue star	Cass ete		2 TR	1 No	2021-22
35	303, Commisione r - VII	Blue star	Cass ete		2 TR	1 No	2021-22
36	303, ADC Room	Volta s	Split	C1010970510512130278	2 TR	1 No	2023
37	303, ADC Room	Blue star	Split		2 TR	1 No	
38	307-Adjudication	Hitac hi	Split	SG190D08558	2 TR	1 No	
39	307-Adjudication	Blue star	Split		1.5 TR	1 No	
40	306-Establishme nt	Carri er	Split	500510409189001844 500510511189001841	2 TR	1 No	
41	309- CIU	Carri er	Split	5005104091899001866 500510511189001833	2 TR	1 No	
42	309- CIU	L.G	Split		2 TR	1 No	2023

43	Appeiles	Hitachi	Split	SE140533695	2 TR	1 No	
44	Appeiles	Hitachi	Split	SE140514557	2 TR	1 No	
45	311, JC	Blue star	Split	C10119522061040613 0077	2 TR	1 No	
46	311, JC	Blue star	Split		2 TR	1 No	2010
47	312, JC, PS	Carrier	Split	500312250159341424	2 TR	1 No	2010
48	Procecutio	Carrier	Split	500510409189001847 500510511189001840	2 TR	1 No	
49	Procecutio	Blue star	Split	C10119522051040713 0420	2 TR	1 No	
50	313, AC	Hitachi	Split	SE140514530	2 TR	1 No	2010
51	310, RSI	Carrier	Split	500348008169002096	2 TR	1 No	2016-17
52	Guest House Hall	Daikin	Split		2 TR	1 No	2023
53	Guest House Hall	Blue star	Split	C10116650051010513 0202	2 TR	1 No	2010
54	Guest House, Suite-1	Blue star	Split	C1011608001009C141 30099	2 TR	1 No	2021
55	Guest House, Suite-1	Carrier	Split	500630517193000388	2 TR	1 No	2010
56	Guest House, Suite-2	Daikin	Split		2 TR	1 No	2023
57	Guest House, Suite-2	Blue star	Split		2 TR	1 No	2010

58	310, RSI	Carrier	Split	500348008169002084	2 TR	1 No	2016-17
59	106, J.C Room	Daikin	Split		2 TR	1 No	2016
60	E.D.I , CEO Room	Carrier	Split		2 TR	1 No	2018-19
61	E.D.I , AC Room	Volta	Split		2 TR	1 No	2021-22

Wherever specialized agencies are required to be associated, the same shall be done immediately on award of work. Failure to do the same will be sufficient reason to terminate the contract/ department to take necessary action to carry out these portions of work at the risk and cost of the original contractor.

Special Conditions for AMC Fire Alarm System

1. The work shall be carried out in accordance with CPWD General specifications for electrical works (Wet riser and sprinkler system) part V - 2020 and (Fire detection and Alarm system) part VI - 2018 with up to date amendments and IE Rules and as per the Directions of the Engineer-in-charge.

2. **The Fire Alarm System shall be got serviced through Any authorized agency/or specialized agency. Necessary documents regarding association in this regard shall be submitted to the department within 15 days of award of work.**

3. **Periodical checking and maintenance:** The following tests should be made every Month to ensure that the system is capable of operating under alarm conditions.
 - a) Once a month, at least one trigger device or end of line switch on one zone circuit should be operated to test the ability of the control and indicating equipment to receive a signal and to sound the alarm and operate other warning devices. If there is more than one zone on a system having unmonitored wiring, each unmonitored zone should be tested each week, but without sounding the alarm more than once. For systems having monitored wiring and up to 13 zones, each zone should be tested in turn but if there are more than 13 zones, more than one zone may need to be tested in any week so that the interval between tests on one zone does not exceed 13 weeks. It is preferable that each time a particular zone is tested; a different trigger device is used. An entry should be made in the log book quoting the particular trigger device that has been used to initiate the test. If the operation of the alarm sounder and/or the transmission of the alarm signal has been prevented by disconnection, then a further test should be carried out to prove the final reinstatement to the sounders, and if permissible, the alarm transmission circuits: and
 - b) A visual examination of the battery and connections should be made to ensure that they are in good condition. Action should be taken to remedy any defect.

Any defect noticed should be recorded in the log book and reported to the responsible person, and action should be taken to correct it.

4. The following check- list and test sequence should be carried out once in a month:

- a) Entries in the log book since the previous inspection should be checked and any necessary action taken.
 - b) Batteries and their connections should be examined and tested to ensure that they are in good serviceable condition.
 - c) Batteries and their connections should be examined and tested to ensure that they are in good serviceable condition.
 - d) The alarm function of control and indicating equipment should be checked by the operation of a trigger device in each zone as described. The operation of alarm sounders and any link to a remote manned center should be tested. All ancillary functions of the control panel should also be tested where practicable. All fault indicator and their circuits should be checked preferable by situation of fault conditions.
 - e) Any defect should be recorded in the log book and reported to the responsible person, and action should be taken to correct it.
5. The following checks and test sequence should be carried out once in a year.
- a) Operation of at least 5 percent of the detector in an installation should be checked each year.
 - b) Each detector should be checked for correct operation using specified test equipment and method.
 - c) Visual inspection should be made to confirm that all cable fittings and equipment are secure, undamaged and adequately protected.
 - d) On completion of the annual inspection, the entry should be made in register in respect of defects found. After the defects are rectified the entries should then again be made.
6. **Cleaning and Maintenance:** Detectors require periodic cleaning to remove dust or dirt that has accumulated the frequency of cleaning depending on the type of detector and the local ambient conditions. In any case, the interval should not exceed a period of 6 months. For each detector, the cleaning, checking, operating and sensitivity adjustment should be attempted only consulting manufactures instructions. These instructions should details method such as creating vacuum to remove loose dust and insects, and cleaning heavy greasy deposits, etc.

Special Conditions for AMC Fire Fighting System

1. The work shall be carried out in accordance with CPWD General specifications for electrical works (Wet riser and sprinkler system) part V - 2020 and (Fire detection and Alarm system) part VI - 2018 with up to date amendments and IE Rules and as per the Directions of the Engineer-in-charge.

- 2. The Firefighting System shall be got serviced through Any authorized agency/service provider or specialized agency. Necessary documents regarding association in this regard shall be submitted to the department within 15 days of award of work.**

3. **Periodical checking and maintenance: OBJECTIVE:** To keep the entire system fully operational and functional at all times. In case full system cannot be kept functional for unavoidable reason, as much as possible, the installation shall be retained functional by isolating the defective section. For maintaining firefighting system following monthly checks to be done:
 - 3.1 To ensure availability of water in UG tank and terrace tank all the time and to maintain the tanks in clean condition
 - 3.2 To ensure that the piping system is free from leakage. Any portion found to be leaking is to be isolated, rectified and connected with healthy system in shortest possible time.
 - 3.3 To ensure that all pumps are in good running condition. Any pump found to be defective is to be isolated by closing valves and attended immediately and put in to service in minimum time. All pump glands shall be maintained in efficient working condition and the packing renewed as required to maintain the efficiency. All working parts shall be kept clean and lightly oiled. Any necessary repairs shall be put in hand and carried out immediately.
 - 3.4 To ensure availability of power for electrical pumps, working of starters, switch gear and other electrical components.
 - 3.5 To ensure healthiness of diesel engine starting system, battery voltage, battery charger and availability of adequate diesel for engine operation.
 - 3.6 To check all landing valves of internal and external hydrants, isolating valves and replace the defective ones whenever necessary

3.7 To check automatic operation of entire system by opening landing valves at different locations

3.8 To conduct fire drill at regular interval at least once in every six months.

4. The following checks to be done periodically as mentioned in the table.

S.NO.	System Component	Activity	Duration
1	Water Tanks	Level Check	Monthly
		Cleaning	Once in a year
2	Pumps	Running, Lubrication, Gland packing check, bearing grease cup	Monthly
		Lubrication	Once in six months
3	Engine	Running, Battery Status, Fuel tank check	Monthly
		Lubrication	Once in six months
4	Motor	Running and Starter contact checking	Monthly
		Insulation resistance	Once in six months
5	Hydrant Mains/Ring Mains	Testing	Monthly
6	Piping	Pressure	Monthly
		Flushing	Once in a year
7	Hydrants	Examination	Monthly
8	Valves(Landing, cut-off and isolation)	operation and oiling if necessary	Monthly
		Overhauling of all Cut- off valves	Once in a year

9	Valves (Suction and Delivery)	Examination	Once in six months
10	Electrical Panels and Control System	Operation	Monthly
		Connection and system components	Once in six months
11	Hose boxes	External Inspection , Internal and External cleaning	Monthly
12	Hose Reel and Hose Pipes	Physical check	Monthly
		Operation check	Once in a year
13	Fire Brigade Connections/ Inlet	Physical check	Monthly
		Operation check	Once in a year
14	Instantaneous Coupling	Physical check	Monthly
		Lubrication	Once in six months

Wherever specialized agencies are required to be associated, the same shall be done immediately on award of work. Failure to do the same will be sufficient reason to terminate the contract/ department to take necessary action to carry out these portion of work at the risk and cost of the original contractor.

ANNEXURE-A
LIST OF APPROVED MAKE OF MATERIALS FOR USE

a) **Materials shall satisfy the revised preference to make in India order issued vide Order No. P45021/2/2017-PP (BE-II) dated 04.06.2020 of the Ministry of Commerce and Industry, Government of India.**

b) **Makes of Special Items in respect of this work**

S.No.	Equipment's	Approved Makes
1	PVC insulated copper conductor FRLS copper ISI Marked	Havells /RR Kabel/ L&T /KEI / Polycab
2	Sheet Steel Enclosure / Ind.Socket/MCB/DBs	Legrand/Siemens/Schneider/ABB/GE/Hager/ L&T
3	DB/ELCB/ RCCB & Accessories	Legrand/Siemens/Schneider/ABB/GE/Hager/ L&T
4	UTP Cable	Legrand/Molex/CommScope/Havells
5	OFC Cable	Legrand/Molex/CommScope/Havells
6	XLPE UG Aluminum/Copper LT Cable/Fire alarm Copper Armoured Cable	CCI/Havells/ KEI/ RR Kabel/ Polycab
7	Cable glands	Jainsons / Comet / Dowells / Prabath/ Polycab/ Peeco/ Gripwel/ Raychem/ Grandlay.
8	Cable Lugs	Jainsons / Comet / Dowells / Prabath/ Polycab/ Peeco/ Gripwel/ Raychem/ Grand lay/ multi / capital / Schneider Electric
9	DWC Pipe	Gemini / Rex /Duraline
10	PVC Conduit (ISI Marked) (Colour- Ivory /Grey)	Avonplast / AKG / Precision / Modi / Anchor/ Polycab/ Finolex/ BEC / Anchor panasonic
11	GI Pipe	Jindal / TATA/ SAIL
12	Telephone / Cat 6 Cable/Jelly Filled	Legrand / Delton / Havells/Molex/Commscope/Polycab
13	Modular Switches & Sockets, Fan Regulator,RJ-45 Data Socket for CMS applications.	Legrand-Myrius/ Crabtree-Athena / MK- Logic Plus /Honeywell Benz Plus/Schneider (Livia)
14	Modular type Switches/GI Boxes/Sockets T.V/Telephone/LAN socket Outlet etc for Normal application	Legrand-Myrius/ Crabtree-Athena / MK- Logic Plus /Honeywell Benz Plus/Schneider (Livia)
16	BLDC Fans (Ceiling Fans)	ATOMBERG-Efficio/Crompton/Havells/Orient

17	Exhaust Fan/ Wall Fans / Pedestal Fans	Crompton /Orient /Havells /Almonard /Bajaj /Anchor Panasonic
18	All LED Fittings (Indoor / Outdoor Light Fittings)	Crompton/Philips/Wipro/ Havells/Lighting Technology
19	Electrical LT Panel Boards/ Feeder Pillars/ Meter Boards/ Control & Relay Panels.	Manufacturer having in-house 7 tank process, powder coating facility, CNC Machine, and having CPRI approved for relevant bus bar rating.(The decision of the Engineer — in- charge will be final and binding.)
20	Change over Switches, SDFU	L&T / ABB / Schneider/C&S/ Legrand / Havells/ Socomec / Siemens/ Hager/ Anchor.
21	Moulded Case Circuit Breaker/Motor protection circuit breaker Electric	Siemens/ ABB / L & T/C & S /Schneider/ Legrand / G E / Hager/ Havells
22	Phenolic laminated sheet	3 mm thick with ISI mark
23	Ammeter / Voltmeter / Combined Meters	AE / Mecon / Schneider / L&T / HPL/ C&S / Conserve/ Kaycee /Crompton Greaves / Socomec(Diris) .
24	Analogue Panel meters	AE / Mecon / Schneider / L&T / HPL/ C&S / Conserve/ Kaycee.
25	TV Coaxial Cable	Havells / Finolex/Anchor/DELTON/RR KABEL
26	Cable trays (Hot Dip Galvanised.)	RMCON / Profab / Indiana / MBM/ Legrand/ BEC
27	Fire Extinguisher (with ISI mark)	CeaseFire /Safex/ Minimax/ Agni/ Padmini/OMEX
28	MS Conduits (ISI Marked)	AKG/BEC/Gupta/Jindal/TATA/Steel Kraft
29	Connector/Terminal block	Wago/Elemac/Phoenix/ Essen /Connectwel.
30	CAT5/6/6A Cables & Wires.	Legrand/Molex/Commscope/Havells
31	PVC Batten / Angle Holder	Anchor / Salzer / Havells/ Empower/ K555.
32	Multifunction Meter/Load Managers	Schneider / Siemens/ Legrand/ Secure/ Socomec (Diris)
33	Architectural Lighting Poles & Decorative Brackets (Street Light Poles)/ Octangle pole	K-Lite/Philips/Wipro/Crompton/Havells/BAJAJI
34	CT	Kappa/AE/L&T/BCH/SIEMENS/ABB/MECO
35	UPS	Numeric/Emerson/APC
36	UPS Batteries	Amaron/Amaraja/Exide/Panasonic/AMCO
37	Exit Signs	Bosch/L&T/Notifier /Hochiki/Cooper/ Prolite/Autoglow /Microm/Prolite
38	Relays	CROMPTON/L&T/SCHNEIDER/SIEMENS/ABB

39	Split Acs	Daikin/Hitachi/Toshiba/Carrier/Mitsubishi/LG/Voltas
40	STABILIZERS	EVEREST/V-GUARD/PREMIER
41	Heavy duty Motorised Arrangement for double leaf swing gates	CAME/FAAC/MAGANETIC
42	SMC Box outdoor	Hensel/Sintex/Legrand/L&T
43	MDF Box/Krone Modules	Krone/Legrand/L&T/Havells
44	Net/PoE-Switch /Patch Panel/Patch Cable/Fibre Patch Cable/SFP Module	Cisco/Netgear/Legrand/HP/DLink
45	Mounting/Floor Rack	Netrack/ Comrack/Valrack /Legrand
46	ChangeOver Switches, SDFC	L&T/ABB/Schneider/C&S/Legrand/Havells
47	LIU	Tyco/D Link/Cisco/HP
48	Electronic Chokes	Crompton/ Phillips / Wipro/Havells
49	Piano type switches /sockets/bell push/ regulators	Anchor-penta
50	PVC Holders	Anchor
51	2.5 mfd capacitors	Keltron /Havells
	Water Supply Pump Sets	
1	Mono Submersible Pump Set/ Submersible /Borewell Pump Set/Sewage pumpset	KSB/CG/Kirloskar/Grundfoss/TEXMO
2	GI pipe	Tata/Jindal/SAIL(with ISI marks)
3	Sluice Valve / Check Valve/ Non Return Valve	Kirloskar/Leader/Zoloto/Audco/Advance
4	Butterfly valve	Kirloskar/Leader/Zoloto/Audco/Advance
5	Submersible Cable	RR Kable/ KEI/ Havells/ Polycab/

Note: In case make of any equipment or material is not specified in the NIT, the decision of the Engineer-in-Charge in this regard will be final.

Assistant Engineer(E)(P)
O/o The EE(E)-Chennai-II,
Central P.W.D., Chennai-600 040.

Executive Engineer (E)
O/o The EE(E)-Chennai-II,
Central P.W.D., Chennai-600 040.

CENTRAL PUBLIC WORKS DEPARTMENT
OFFICE OF THE EXECUTIVE ENGINEER ELECTRICAL -CHENNAI-II

NIT No: 30/EE(E)-CHENNAI - II/ 2026-27/ CPWD / CHENNAI -40

Name of work: -MOEI and Fans, including RMO of HT/LT Substation, 3 x 80 TR Air-cooled type AC plant, DG Sets, Split type AC Units, Passenger and Goods Lifts, Water Supply Pump sets, Street Lights, Firefighting system etc., for office building of Commissioner of Customs (Airport), Air Cargo Complex, Meenambakkam, Chennai -27 for the financial year 2026 -2027. SH: Providing services of day to day maintenance of IEI & fans including operation of DG set, Chiller plants, water supply pump set, Split type AC Units, Fire alarm & Fire Fighting System and Lifts etc.

Schedule of Work

Name of Contractor						
Registration No. (Enlistment in CPWD)						
Validity - Period						
S.No	Description of Item	Qty	Mo nth	Uni t	Rate in Figure s	Amount
	<u>Day to Day Operation and Maintenance</u>					
1	Providing services for day to day operation maintenance of internal & external electrical installations & operation of DG sets, Air Cooled Chiller Plants in General shifts/as per direction of engineer in charge office building of Commissioner of Customs (Airport), Air Cargo Complex, Meenambakkam, Chennai -27 (as per the inventory available in concern Sub-Division, specification and conditions attached) :					
1.1	Skilled (All days including Sundays & national holidays)	2	6	Per Per son Per Mo nth s	41969	503628.00

1.2	Unskilled (All days including Sundays & national holidays)	2	6	Per Per son Per Mo nth s	34181	410172.00
2	Annual comprehensive maintenance and servicing of following rating split / window & inverter /non-inverter type AC units of various makes including stabilizers in various sections which includes regular monthly servicing and replacement of components found defective such as sensors, PCBs, capacitors, Thermostat, filters, remote, remote batteries and servicing, repairing of condenser coil and cooling coil, fan motor, pumps, i/c gas filling due to leakage, electrical wiring (all component except compressor) etc. (as per the inventory available in concern Sub-Division, specification and conditions attached) as required.					
2.1	1.50 TR Split type AC units.	6	21	Per Mo nth /pe r AC unit s	476	59976.00
2.2	2 TR Split type AC units.	6	40	Per Mo nth /pe r AC unit s	494	118560.00
3	Supply installation testing and commissioning of following capacity compressor with initial charging of refrigerant including dismantling of existing defective compressor and handing over the same to CPWD Stores etc. as required					

3.1	1.5 TR Capacity		2	Eac h	10130	20260.00
3.2	2.0 TR Capacity		2	Eac h	11388	22776.00
4	Annual maintenance contract of 250 KVA Diesel Generator with AMF panel i/c preventive servicing, attending & rectifying minor breakdowns/ repairs on Engines, Alternators, control panels & AMF panel boards etc., (for the period of 12 months).Make : KIRLOSKAR, Model : 6SL8800TA Engine Serial No : F6.3810/0900625	1	6	Per Set / per mo nth	2970	17820.00
5	Annual Oil servicing of following DG set with in the maintenance period i/c supplying and replacement of materials as follows and including rebate for dismantling materials etc., as required.("B" Check). * Lubricating oil of required quantity as per OEM standard. * Lubricating oil filter element with "O" rings. * Diesel filter element with "O" rings. * Air filter elements. * Poly V - Belt. * Rebuild Kit * Gasket KT W * Radiator Hose set with clip. * Distilled water and Coolant premix etc as required. * Servicing of radiator assembly i/c coolant etc as required. Capacity : 250 KVA - 1 No.		1	EJ B	35764	35764.00
6	Annual maintenance contract of 25 KVA Diesel Generator with AMF panel i/c preventive servicing, attending & rectifying minor breakdowns/ repairs on Engines, Alternators, control panels & AMF panel boards etc., (for the period of 12 months).					
6.1	Make : MAHINDRA, Model : 4375GM Engine Serial No : V4110A3993		6	Per Set / per mo	1713	10278.00

				nth		
6.2	Make : MAHINDRA, Model : 4375GM Engine Serial No : V4110A4288		6	Per Set / per month	1713	10278.00
7	B - Check and overhauling of 25 KVA DG Set (Mahindra Make) i/c supplying and replacement of following items as follows : a) Powerol Super Premium Engine oil - 10 Ltrs b) MDI Oil Filter - 1 No. c) Service Kit for Element of Fuel Filter - 1 No. d) Powerol Super Premium Coolant - 1 No. e) Cotton Wastse		2	EJ B	4293	8586.00
8	Supplying and replacement of the following consumable electrical accessories in the existing electrical fittings / fixtures i/c dismantling of the old defective as and when required / found faulty etc.complete as required. (Note: No labour charges are payable as the same is already included in Item no.1).					
8.1	Supplying and Replacement of the following Defective Electrical Consumable accessories in the Existing Electrical fittings i/c dismantling of the old defective spares etc complete as required. (Note: No labour charges are payable as the same is already included in Item 1). LED Down lighter (SMD Type) (System lumen efficacy $\geq 120 < 135$ lm/Watt) Supplying, installation, Testing & Commissioning of LED Recessed/surface Down lighter (Round/ square/ Rectangular) SMD type of following body material with PMMA and prismatic diffuser and construction as per IS : 10322 with					

	driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -5 0C to 40 0C centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10%, P. F.≥0.95, IP20, CRI >80, UGR (Unified Glare Rating) <19, Flicker free (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), life time of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing Complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted.. Shape size and CCT shall be as approved by Engineer-inCharge as per requirement.(Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C). Powder coated die cast /Extruded aluminium ody including trim .					
8.1.1	18 WATT		30	EA	760	22800.00

8.2	250 mm dia medium duty non - metallic PVC body exhaust fan in the existing hole/frame along with complete accessories including louvre shutters suitable to work on 230 Volts single phase, 50 Hz, AC supply connections with 1.5 Sq.mm PVC insulated copper conductor wire etc, as required.	5	EA	2171	10855.00
8.3	300 mm sweep metallic exhaust fan of heavy duty 1400 RPM in the existing opening , including making good the damage, connections with 1.5 sq. mm PVC insulated FRLS copper conductor single core cable and earthing etc as reqd.	5	EA	4463	22315.00
8.4	LED Street light fixture, powder coated pressure die cast aluminium body (System lumen efficacy ≥ 105 <120 lm/Watt) Supplying, installation, Testing & Commissioning of Street light LED fixture powder coated pressure die cast aluminium body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, frequency 50/60 hz, Operating temp range -5 0C to 50 0C, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2, P. F. ≥ 0.95 , IP-66,IK-10, CRI >70, under voltage and over voltage protection, EMIEMC As per CISPR -15, lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED, Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin),SDCM (Standard Deviation Colour Matching) <5, Maximum power consumption should not more				

	than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 105 <120 lm/Watt output .LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).					
8.4.1	25 Watt		5	EA	852	4260.00
8.5	40 Watt LED Post Top Outdoor Type Fitting designed for 360 degree indirect light suitable for all weather conditions made with pressure die cast aluminium canopy suitable for installation on existing pole etc. The Luminaire shall have following specifications as Efficacy > 90 Lumen/Watt, Inbuilt Surge Protection Device of not less than 2KV, IP65 Protection, Operating Voltage Range 140V - 270V, Colour Temperature 5700K, Complete system power rating not more than 40 Watts with High performance Constant Current Electronic Driver suitable for operation on 230V, 50Hz AC Supply including connection with 1.5 Sq.mm. FRLS PVC insulated copper wire single core cable, earthing the fitting etc. as required.		2	EA	7542	15084.00

8.6	LED Panel light 2x2 ft. (System lumen efficacy $\geq 105 < 120$ lm/Watt) Supplying, installation, Testing & Commissioning of Panel light 2x2 ft., of following body material and construction as per IS : 10322 with driver as per the requirement with Driver efficiency $> 85\%$, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range - 5 $^{\circ}\text{C}$ to 40 $^{\circ}\text{C}$, internal surge protection of 2.5 KV with Short & Open circuit protection, THD $< 10\%$, P. F. ≥ 0.95 , IP20, CRI > 80 , Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy $\geq 105 < 120$ lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90 $^{\circ}\text{C}$). Powder coated die cast /Extruded aluminium Body (Thickness > 1.20 mm)					
8.6.1	36 WATT/Recess /surface type.		90	EA	2070	186300.00

8.7 LED Batten light (System lumen efficacy ≥ 120 < 135 lm/Watt) Supplying, installation, Testing & Commissioning of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency $> 85\%$, Operating voltage AC 140270 Volt, frequency 50/60 hz, Operating temp range -5°C to 40°C , internal surge protection of 2.5 KV with Short & Open circuit protection, THD $< 10\%$, P. F. ≥ 0.95 , IP20, CRI > 80 , Flicker free (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Colour Matching) < 3 , Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 120 < 135 lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).

8.7.1	18-22 WATT		25	EA	485	12125.00
8.8	1.5 Sq.mm ISI marked, FRLS PVC insulated Single core copper condutor cable		100	MT R	29	2900.00
8.9	4 Sq.mm ISI marked, FRLS PVC insulated Single core copper condutor cable		100	MT R	67	6700.00
8.10	SP 5/6 A, One way Modular switch ISI marked		50	EA	54	2700.00
8.11	SP 15/16 A, One way Modular switch ISI marked		50	EA	117	5850.00
8.12	3 Pin 5/6 A Modular Socket Outlet ISI Marked		50	EA	100	5000.00
8.13	6 Pin 15/16 A Modular Socket Outlet ISI Marked		50	EA	167	8350.00
8.14	Stepped type Modular Fan Regulator (2 Module)		25	EA	351	8775.00
8.15	Modular base and cover plate for 6 module		10	EA	125	1250.00
8.16	PVC Batten/angle Holder		10	EA	35	350.00
8.17	40 Amps DP Isolator		5	EA	430	2150.00
8.18	40 Amps FP Isolator		5	EA	981	4905.00
8.19	6 , to 32 A ratings SP MCB "C" Curve 10 KA Breaking Capacity		25	EA	215	5375.00
8.20	3 Pole MNX 32 Contractor		1	EA	1761	1761.00
8.21	24HRS Automatic analog timer		1	EA	5519	5519.00
8.22	2.5 Mfd Fan Capacitor		50	EA	42	2100.00

8.23	Brush Less Direct Current (BLDC) Fan without Remote Supply, Installation, Testing and Commissioning of ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal(Aluminium alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body Power Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, suitable for operation with regulator for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Ceiling Fan compliant to IS 374:2019 fan Supply, earthing etc. complete as req. 1200mm, service value $\geq$ 6.0 CM/Min/Watt, air delivery 210 CM/Min (Minimum)		10	EA	3008	30080.00
8.24	Servicing and Re-filling the following fire extinguishers etc as required					
8.24.1	ABC 4 KG		17	EA	602	10234.00
8.24.2	CO2 4.5 KG		4	EA	669	2676.00
8.24.3	Foam Type 9 Liters		1	EA	1079	1079.00

9	Preventive Maintenance and servicing of the Wet riser and fire fighting system comprising the following system i/c checking all accessories, control panel, battery etc and keeping the system in working conditions at Air Cargo Complex, Meenambakkam, Chennai. as per the terms and conditions attached. Inventory for Fire Fighting and Wet Riser System :- a) Main fire fighting pump set with water cooled Kirloskar make 79 HP Diesel engine with centrifugal pump with gate valves and pipe lines etc - 1 set.b) Electrical driven main fire pump with 60 HP motor with gate valves and pipe lines etc 1 setc) Pressurisation Jockey pump electrical driven 12.5 HP with valves and pipe lines - 1 Set.d) Priming pump 2 HP with valves and pipe lines - 1 No.e) Terrace pump 10 HP with valves and pipe lines - 2 Nos. f) Control panels (diesel / electrical pumps) - 1 Set.g) Air vessel with air release valve sluice valves, gate valves - one Lot.h) Wet riser consist of network of horizontal / vertical hydraulic lines etc.i) Vertical riser heavy class G.I pipe with internal hydrant along with First aid hose reel drum with hose - 8 Nosj) External Single headed yard hydrant - 1 Noand all other fire fighting equipment including arranging the testing of whole system once in a month at Air Cargo Complex, complete etc as required.		6	Per Month	5399	32394.00
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10	Preventive Maintenance and servicing of automatic fire alarm system comprising the following i/c checking all accessories, control panel, battery etc and keeping the system in working conditions at Air Cargo Complex, Meenambakkam, Chennai. as per the terms and conditions attached. 1.The System Consisting of :- a) Photo Thermal Detector - 191 Nos. b) Manual Call Points - 17 Nos. c) Response indicator - 15 Nos. d) Isolator Module - 10 Nos e) Sounder with control module - 9 Nos 2 Main Fire Alarm Control Panel : a) 2 Loop Fire Main Control Panel - 1 No All associated wiring with PVC copper conductor cable & battery backup connected to the system and all other fire alarm equipment including arranging the testing of whole system once in a month at Air Cargo Complex, complete etc as required..		6	Per Month	6229	37374.00
	Special Repairs Works					
11	Supplying following sizes of ISI Marked Cross linked polyethylene (XLPE) insulated, PVC outer sheathed with galvanized round steel wire or steel strip UG cables with armoured aluminium conductor suitable for rated voltage of 1100 Volts grade and conforming to IS: 7098 (pt.I) 1988 with up to date amdts. in the existing pipe.					
11.1	2 x 16 sq.mm		25	MT R	180	4500.00
11.2	3.5 x 35 sq.mm		25	MT R	392	9800.00

12	Supplying and fixing of weather proof glass reinforced SMC (Sheet Moulding Compound) looping box of size 155 mm x 210 mm x 92 mm (minimum) on the existing steel structure/wall with suitable clamp etc., along with terminals, 1 No. 6 A, 10 kA SP MCB mounted on DIN rail, connections etc. as required.		5	EA	2471	12355.00
13	Re-winding of 5 HP, 3 Phase, 415 V, Horizontal Submersible pumpset with suitable winding materials i/c replacing of worn-out parts, impeller necessary lathe work, overhauling, reassembling, painting including lifting of pump from sump and re-installation after rewinding, testing, commissioning etc. as required. (Buyback for dismantled copper conductor and other parts included).		1	EJ B	12956	12956.00
14	Re-winding of 1.5 HP/3 HP, 3 Phase, 415 V, borewell vertical Submersible pump with suitable winding materials i/c replacing of worn-out parts, impeller necessary lathe work, overhauling, reassembling, painting including lifting pump from borewell and re-installation after carrying out repairs, testing, commissioning etc. as required. (Buyback for dismantled copper conductor and other parts included).		1	EJ B	5680	5680.00
15	Flushing and developing the yield of the existing Bore well by using power compressor upto obtaining the clear water with help of draw pipe line including dismantling the existing 1.0 HP 3 phase submersible pump set from the bore well along with 40 mm dia UPVC Pipe line and accessories and re installing the same after flushing and making good the premises etc. as required. (inclusive of diesel, transportation, hiring charges of power compressor).		1	EJ B	6252	6252.00
16	Laying and Fixing of one number PVC insulated and PVC Sheathed/XLPE Power Cable of 1.1KV Grade of following size on wall surface as					

	required					
16.1	Up to 35 Sq.mm(clamp with 1mm thick saddle)		50	MT R	74	3700.00
17	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					
17.1	2 x 16 sq.mm (22 mm)		2	SET S	358	716.00
17.2	3.5 x 35 sq.mm (32 mm)		2	SET S	503	1006.00
18	Providing of Transformer Oil Filtration through Streamline filter unit to improve the Di-electric strength to the optimum value for 500 KVA Transformer and issuing test certificate complete etc as required		1	EJ B	11766	11766.00
19	Towards Charges For Transformer Breather (Silica Gel Replacing) complete etc as required		1	EA	735	735.00
20	Supply of Transform er oil , as per : IS : 335 /1993 (actual quantity will be billed based on the site requirement) complete etc as required		10	LTR S	224	2240.00
21	Charges For Gen eral Servicing and Testing of Vacuum Circuit Breaker complete etc as required.		3	EA	5883	17649.00
22	Charges For General Servicing and Testing of Air Circuit Breaker complete etc as required		2	EA	8119	16238.00
23	Towards Charges for Testing of HT VCB panel protective relays complete etc as required		3	EA	5177	15531.00
24	Towards service Charges For Dry Type Transformer Serviceing & Testing Of InsulationResistanceMeasurement Winding Resistance MeasurementVentilation Fans		1	EA	26474	26474.00

	Checks Hardware Checks Physical Inspection of winding Insulation for Tracking Noise level Checks Tightness Checks Cleaning of Winding Emergency Push Button Checks complete etc as required					
25	Transportation charges for filter unit and oil testing equipment to site and back complete etc as required		1	EA	1471	1471.00
26	Towards Charges for OLTC Control wiring fault Rectification complete etc as required.		1	EA	3706	3706.00
27	Making and facilitating a visit by the CFO to the New Custom House, Air Cargo Complex, Meenambakkam, Chennai 600016 to inspect and obtain a fire audit to obtain / renew the fire NOC for the campus etc as required		1	EJ B	47970	47970.00
Grand Total Rs.						1870104.00

Say Rs. 18,70,104/- (Rupees Eighteen Lakh Seventy Thousand One Hundred and Four Only).

**Assistant Engineer(E)(P)
O/o The EE(E)-Chennai-II,
Central P.W.D., Chennai-600 040.**

**Executive Engineer (E)
O/o The EE(E)-Chennai-II,
Central P.W.D., Chennai-600 040.**