



भारतसरकार
GOVERNMENT OF INDIA
केंद्रीयलोकनिर्माणविभाग
CENTRAL PUBLIC WORKS DEPARTMENT

PERCENTAGE RATE N. I. T.

N.I.T. No: 47/CE/CED-I/2026-27/CHENNAI

Name of Work: Replacement of existing old lifts with new 3 Nos 13 Persons (884 Kgs) Passenger lift (G+6) and One Goods Lift (G+6) including maintenance for 5 years at Krishna Block at Custom House, Chennai-01.

Estimate Cost : Rs. 1,30,56,017/-

Earnest Money : Rs. 2, 61, 120/-

Performance Guarantee : a) 5 % of tendered value or Estimated Cost Put to Tender (ECPT) (Whichever is higher)

b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.

Security Deposit : 2.5% of tendered value.

Time Allowed : 06 (Six) Months.

Certified that this NIT contains 01 to 99 Pages only

This NIT for amounting to Rs. 1, 30, 56, 017/- (Rupees One Crore Thirty Lakh Fifty Six Thousand and Seventeen Only) is hereby approved.

Assistant Engineer (E) (P)

Executive Engineer (E&M)

CHIEF ENGINEER -CHENNAI
CPWD, Chennai-90

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PART-A

TECHNICAL BID ELIGIBILITY CRITERIA

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT
NOTICE INVITING TENDER**

The Executive Engineer (E), Chennai Electrical Division-I, CPWD, Chennai-06 invites on behalf of President of India, online Percentage rate tender from CPWD Enlisted Contractors of appropriate class as well as approved Lift manufacturers in **Two bid system** for the work of – **“Replacement of existing old lifts with new 3 Nos 13 Persons (884 Kgs) Passenger lift (G+6) and One Goods Lift (G+6) including maintenance for 5 years at Krishna Block at Custom House, Chennai-01”.**

1. 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 of **Rs. 1, 30, 56, 017/-**. This estimate cost, however, is given merely as a rough guide.
- 1.2 Intending bidders is eligible to submit the tender 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 tender documents:

1.2.1. Conditions for CPWD registered contractors:

- (i) The CPWD registered contractors of appropriate class which has the experience of similar nature of works as mentioned below during the last 7 years **ending last day of the month** previous to the one in which applications / tenders are invited. Such works should be certified by an officer not less the rank of Executive Engineer/ Project Manager or equivalent.

Three similar works each of value not less than **Rs. 52.22 Lakhs**
Or

Two similar works each of value not less than **Rs. 78.34 Lakhs**

Or
One similar work of value not less than **Rs. 104.45 Lakhs**

Similar work shall mean “Supply, installation, testing and commissioning of Lifts (approved make)”

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to the last date of submission of bid.

To become eligible for issue of bid, the bidders shall have to furnish an affidavit as under:-

“I/We undertake and confirm that eligible similar works(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 bidding 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”. (Scanned copy to be uploaded at the time of submission of bid).

1.2.2. Conditions for Lift manufacturer:

Eligibility criteria of Lifts:

1. The lift manufacturer shall comply with BIS standards, duly certified by the manufacturer itself.
2. The manufacturer shall be compliant to the Public Procurement (Preference to Make in India), The eligibility criteria of Lift works shall be as per DG OM No. DG/SE (E)-TAS/PPP-M/II order/22(H) dated 28/09/2020. (as amended from time to time) issued by the Department of Industrial Policy and Promotion (DIPP), Ministry of Commerce and Industry.
3. Amendment No. 1 in CPWD specification for electrical work (Part -III Lift and Escalator) 2003 issued by office of CE (CSQ)E vide OM No. 30(01)/LIFTS/CE, CSQ(E)/E-3141577/2024/02 E Dtd. 19.01.2024.
4. The experience of successful completion of similar works shall be as per CPWD works Manual/SOP.
5. The lift manufacturer shall furnish an undertaking regarding availability of spares for the entire expected life of the lift i.e.15 to 20 years.
6. The complete lift installation including its components, safety devices, various types of controls etc. testing inspection, operation & maintenance shall confirm to relevant codes, Standards, code of practices, guidelines, safety rules, inspection manual(s), rules issued by Bureau of Indian Standards, as amended up to the last date of receipt of tenders.
7. Quality standards shall confirm to latest IS/ISO-9001:2015.
8. The down time of installed lifts being maintained by the manufacturer shall not more than 8 hours (average) in case of minor faults and 7 days (average) in case of major faults during the last one financial year.

To become eligible for issue of bid, the bidders shall have to furnish an affidavit as under:

“I/We undertake and confirm that eligible similar works(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 bidding 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”. (Scanned copy to be uploaded at the time of submission of bid).

- (b) Should have had Average Annual Financial Turnover of **Rs. 39, 16, 805/-** on construction works during the last three years ending 2024-2025. (Scanned copy of Certificate from CA with Unique Document Identification Number (UDIN) to be uploaded). The value of annual turnover figures shall be brought to the current value by enhancing the actual turnover figures at simple rate of 7% per annum.
- (c) Should not have incurred any loss (profit after tax should be positive) in more than two years during the last five years ending 2024-2025.

- (d) Should have a Banker's Certificate from a commercial Bank for **Rs. 52, 22, 407/-** or Net Worth certificate from CA with Unique Document Identification Number (UDIN) of minimum 10 % amount of ECPT (Scanned copy of original to be uploaded).
- 2 Agreement shall be drawn with the successful bidders on prescribed Form No. **CPWD 7**(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 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 2023 for Construction works Form can be seen on website **https://etender.cpwd.gov.in** or **www.cpwd.gov.in** free of cost.
 - 5 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.
 - 6 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 Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or bank Guarantee (for balance amount as prescribed) from any of the Commercial banks (drawn in favour of **Executive Engineer (E), CCED- III, CPWD, Chennai**) shall be scanned and uploaded to the e-Tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) 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.

A part of earnest money is acceptable in the form of Bank Guarantee of any Commercial Bank having validity for six months or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders. In such cases 50% of earnest money or Rs. 20 lakh whichever is less, will have to be deposited in shape prescribed above and balance can be accepted in form of Bank Guarantee issued by a Commercial Bank.

The earnest money given by all the tenderers except the lowest tenderer shall be refunded immediately after the expiry of stipulated bid validity period or immediately after acceptance of the successful bidder, whichever is earlier.

Copy of Enlistment Order and certificate of work experience 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. However, certified copy of all the scanned and uploaded

documents as specified in press notice shall have to be submitted by the lowest bidder only along with physical EMD of the scanned copy of EMD uploaded within a week physically in the office of tender opening authority. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose original EMD deposited with any division of CPWD and other documents scanned and uploaded are found in order.

The bid submitted shall be opened at 15:30 Hours on 08/09/2026

- 8 The bid submitted shall become invalid and e-Tender processing fee shall not be refunded if:
 - 8.1 The bidder is found ineligible.
 - 8.2 The bidder does not upload scanned copies of all the documents stipulated in the bid document.
 - 8.3 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 bidder in the office of bid opening authority.
 - 8.4 If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest bidder.
- 9 The contractor whose bid is accepted will be required to furnish performance guarantee of 5 % (Five Percent) of the bid amount within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks 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 the 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 licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the sub contractors, if any engaged by the contractor for the said work within the period specified in Schedule F.
- 10 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 subsoil (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.

- 11 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.
- 12 Canvassing whether directly or indirectly, in connection with bids is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
- 13 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.
- 14 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 Chief 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.
- 15 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 bids for the work shall remain open for acceptance for a period of **75 (seventy five)** days from the date of opening of technical bids in case bids are invited in 2 or 3 bid system. Further

- (i) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department within 7 days after last date and time (24 hours basis) of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.

If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department after expiry of 7 days after last date and time (24 hours basis) of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.

- (ii) Withdrawal of the tender, by the tenderer, shall only be made through e-tender portal, any other method i.e., through letter/e-mail etc. shall not be considered.

- (iii) In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of the same work.

18. This notice inviting Bid shall form a part of the contract document. The successful bidder/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 or other Standard C.P.W.D. Form as applicable

19. For Single Components Bids:-

19.1.1 The cost of bid document and Earnest Money will be fixed with respect to the combined estimated cost put to tender for the bid.

19.1.2 The bid document will include following three components:

Part-A: - CPWD-6, CPWD-7 including schedule A to F for the Single component of the work, Standard **General Conditions of Contract 2023 for Construction works** as amended/ modified up to date.

Part-B: - General conditions, specifications applicable to major component(E&M) of the work.

Part-D: - Schedule of Quantities for **E & M Work** Schedule of Quantity for percentage rate Tender.

19.1.3 The bidder must associate himself, with agencies as per NIT conditions

19.1.4 The main contractor has to associate with agencies for specialized component(s) conforming to eligibility criteria as defined in the bid document and has to submit detail of such agency(s) to Engineer-in-charge of relevant component(s), within prescribed time. Name of the agency(s) to be associated shall be approved by Engineer-in-charge of relevant component(s).

19.1.5 In case the main contractor intends to change any of the above agency/agencies during the operation of the contract, he shall obtain prior approval of Engineer-in-charge of relevant specialized component(s). The new agency/agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer-in-charge is not satisfied with the performance of any agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.

19.1.6 The main contractor has to enter into MoU with agency(s) associated by him. Copy of such MoU shall be submitted to EE in charge of each relevant component as well as to EE in charge of major component. In case of change of associate contractor, the main agency(s) has to enter into MoU/agreement with the new contractor associated by him..

20. The intending bidders are required to update their profile in CPWD e-tender portal their bids well in advance of last date of submission of tender. Any issue related to updating profile / uploading tender can be resolved through the Concerned Executive Engineer/ Assistant Engineer (**Ph. No.044-28280021, email id: eeeced1@gmail.com, ERP help line no. 18001803286**) or email id: cpwd.support@techmahindra.com The e-tendering bidders are also advised not to wait to raise any issues till the last date of submission of bid in their own interest.

Executive Engineer (E)

Addition: NIL Correction: NIL Overwriting: NIL Deletion: NIL AE(E)(P) EE (P)

**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR
e- TENDERING FORMING PART OF BID DOCUMENT**

The Executive Engineer (E), Chennai Electrical Division-I, CPWD, Chennai-06 invites on behalf of President of India, online Percentage rate tender from CPWD Enlisted Contractors of appropriate class as well as eligible specialized agencies in **Two bid system** for the following work:

Sl. No	NIT No.	Name of Work & Location	Estimated cost put to bid	Earnest Money	Stipulated Period of completion	Last date & time of submission of bid, copy of receipt of deposition of original EMD, and other documents as specified in the NIT	Time and date of opening of Technical bid
1	47/CE/CED-I/2026-27/CHENNAI	“Replacement of existing old lifts with new 3 Nos 13 Persons (884 Kgs) Passenger lift (G+6) and One Goods Lift (G+6) <u>including maintenance for 5 years</u> at Krishna Block at Custom House, Chennai-01”.	Rs. 1, 30, 56, 017/-	Rs. 2, 61, 120/-	6 Months	Upto: 15:00 Hrs On 08/09/2026	15:30 Hrs On 08/09/2026

ELIGIBILITY CRITERIA :

1.2.1. Conditions for CPWD registered contractors:

- (i) The CPWD registered contractors of appropriate class which has the experience of similar nature of works as mentioned below during the last 7 years **ending last day of the month** pervious to the one in which applications / tenders are invited. Such works should be certified by an officer not less the rank of Executive Engineer/ Project Manager or equivalent.

Three similar works each of value not less than **Rs. 52.22 Lakhs**
Or

Two similar works each of value not less than **Rs. 78.34 Lakhs**

Or

One similar work of value not less than **Rs. 104.45 Lakhs**

Similar work shall mean “Supply, installation, testing and commissioning of Lifts (approved make)”

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to the last date of submission of bid.

To become eligible for issue of bid, the bidders shall have to furnish an affidavit as under:-

“I/We undertake and confirm that eligible similar works(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 bidding 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”. (Scanned copy to be uploaded at the time of submission of bid).

1.2.2. Conditions for Lift manufacturer:

Eligibility criteria of Lifts:

1. The lift manufacturer shall comply with BIS standards, duly certified by the manufacturer itself.
2. The manufacturer shall be compliant to the Public Procurement (Preference to Make in India), The eligibility criteria of Lift works shall be as per DG OM No. DG/SE (E)-TAS/PPP-M/II order/22(H) dated 28/09/2020. (as amended from time to time) issued by the Department of Industrial Policy and Promotion (DIPP), Ministry of Commerce and Industry.
3. Amendment No. 1 in CPWD specification for electrical work (Part -III Lift and Escalator) 2003 issued by office of CE (CSQ)E vide OM No. 30(01)/LIFTS/CE, CSQ(E)/E-3141577/2024/02 E Dtd. 19.01.2024.
4. The experience of successful completion of similar works shall be as per CPWD works Manual/SOP.
5. The lift manufacturer shall furnish an undertaking regarding availability of spares for the entire expected life of the lift i.e.15 to 20 years.

6. The complete lift installation including its components, safety devices, various types of controls etc. testing inspection, operation & maintenance shall confirm to relevant codes, Standards, code of practices, guidelines, safety rules, inspection manual(s), rules issued by Bureau of Indian Standards, as amended up to the last date of receipt of tenders.
7. Quality standards shall confirm to latest IS/ISO-9001:2015.
8. The down time of installed lifts being maintained by the manufacturer shall not more than 8 hours (average) in case of minor faults and 7 days (average) in case of major faults during the last one financial year.

To become eligible for issue of bid, the bidders shall have to furnish an affidavit as under:-

“I/We undertake and confirm that eligible similar works(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 bidding 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”. (Scanned copy to be uploaded at the time of submission of bid).

- (a) Should have had Average Annual Financial Turnover of **Rs. 39, 16, 805/-** on construction works during the last three years ending 2023-2024. (Scanned copy of Certificate from CA with Unique Document Identification Number (UDIN) to be uploaded). The value of annual turnover figures shall be brought to the current value by enhancing the actual turnover figures at simple rate of 7% per annum.
 - (b) Should not have incurred any loss (profit after tax should be positive) in more than two years during the last five years ending 2023-2024
 - (c) Should have a Banker's Certificate from a commercial Bank for **Rs. 52, 22, 407/-** or Net Worth certificate from CA with Unique Document Identification Number (UDIN) of minimum 10 % amount of ECPT (Scanned copy of original to be uploaded).
1. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he consider himself eligible and he is in possession of all the documents required.
 2. Information and Instructions for bidders posted on website shall form part of bid document.
 3. 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 can be seen and downloaded from website <https://etender.cpwd.gov.in> or www.cpwd.gov.in **free of cost**.
 4. But the bid can only be submitted after deposition of original EMD either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission and uploading the mandatory scanned documents as aforesaid.
 5. Those contractors not registered or have not updated their profile on the website mentioned above, are required to get registered / update their profile beforehand. The necessary training materials including the videos with step to step process are available on download section of <https://etender.cpwd.gov.in>.
 6. The intending bidder must have valid class-III digital signature certificate with encryption key (combo type) to perform any operations/transactions on the e-tendering portal / website

and the bidder should download and install the eMsigner on their system as per instructions available on download section of <https://etender.cpwd.gov.in>.

7. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
8. Contractor can upload documents in the form of **JPG** format and **PDF** format.
9. Certificate of Financial Turn Over: At the time of submission of bid contractor may upload Affidavit/Certificate from CA mentioning Financial Turnover of last 7 years or for the period as specified in the bid document and further details if required may be asked from the contractor after opening of technical bids. There is no need to upload entire voluminous balance sheet.
10. Contractor must ensure to quote rate in the prescribed column(s) meant for quoting rate in figures appears in yellow colour and the moment rate is entered, it turns sky blue.
In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).
However, If a bidder quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest bidder.
11. The Technical Bid shall be opened first on due date and time as mentioned above. The time and date of opening of financial bid of contractors qualifying the technical bid shall be communicated to them at a later date.
12. **Pre Bid conference shall be held in the chamber of at on to clear the doubt of intending bidders, if any.**
13. 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.

A. List of documents to be scanned and uploaded by CPWD enlisted contractors within the period of bid submission

- i) Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or bank Guarantee including e-Bank Guarantee of any commercial Bank against EMD (drawn in favour of **Executive Engineer (E), CCED- III, CPWD, Chennai**).
- ii) Valid CPWD Enlistment order of the registered contractors in appropriate class in works category.
- iii) Form-C : Details of eligible similar nature of works completed by the **CPWD enlisted contractors** during the last seven years ending previous day of last day of submission of tenders.
- iv) Form-D: Work experience certificates for eligible completed works mentioned in **Form-C :-** The performance report in the format of 'Form-D' OR Completion certificate with remarks on quality of the work, **issued by an officer not less the rank of Executive Engineer/Project Manager or equivalent.**
- v) GST registration Certificate of the state in which the work is to be taken up, if already obtained by the bidder. If the bidder has not obtained GST registration in the state in which the work is to be taken up, or as required by GST authorities, then in such a case the bidder shall scan and upload following undertaking along with other bid document.
"If work is awarded to me, I/we shall obtain GST registration certificate as applicable, in which work is to be taken up, 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 a/c of the work executed and /or for any action taken by CPWD or GST department in this regard".
- vi) Form-F: Copy of receipt of deposition of original EMD to division office of any EE, CPWD.
- vii) FORM-G: Affidavit for not executing the works as back-to-back basis.
- viii) Form - H : Affidavit for Non-black listing.
- ix) Form- I : Declaration about site inspection.
- x) FORM-J: Proforma of MoU with **Manufacturer of Lift on** a 'Non-Judicial' stamp paper.
- xi) ERP Training certificate **or undertaking that he will obtain the ERP Training certificate before start of work on their letter head of the firm.**
- xii) Valid Electrical contractor licence or undertaking that they will either obtain valid electrical licence at the time of execution of electrical work or associate with the contractor having valid electrical licence of appropriate class.
Note : All Affidavits /Undertakings should show the NIT No., and also be continuous and if it is coming in more than one page then, all the pages should have Affidavit / stamp certificate number, with signature and date on all pages.

List of Documents to be submitted after acceptance of Bid.

Licenses / Registrations or Proof of applying for labour Licenses, registration with EPFO, ESIC & BOCW Welfare Board

B. List of documents to be scanned and uploaded by the Lift Manufacturer within the period of bid submission

- i) Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or bank Guarantee including e-Bank Guarantee of any commercial Bank against EMD (drawn in favour of **Executive Engineer (E), CCED- III, CPWD, Chennai**).
- ii) Scanned copy of valid Registration certificate of Firms, if any.
- iii) Letter of transmittal.
- iv) "Form A" - Financial Information.
- v) "Form B" - Banker's Certificate from a Commercial Bank.

OR

"Form B-1" - Form for Certificate of Net Worth from Chartered Accountant.

- vi) Form C- Details of eligible similar nature of works completed by the specialized agency during the last seven years ending previous day of last day of submission of tenders.
- vii) Form C-1- Details of similar nature of Ongoing works.
- viii) Form-D: Work experience certificates for eligible completed works mentioned in **Form-C**
- ix) Form E - structure & organization
- x) GST registration Certificate of the state in which the work is to be taken up, if already obtained by the bidder. If the bidder has not obtained GST registration in the state in which the work is to be taken up, or as required by GST authorities, then in such a case the bidder shall scan and upload following undertaking along with other bid document.
"If work is awarded to me, I/we shall obtain GST registration certificate as applicable, in which work is to be taken up, 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 a/c of the work executed and /or for any action taken by CPWD or GST department in this regard".
- xi) Form-F: Copy of receipt of deposition of original EMD to division office of any EE, CPWD.
- xii) FORM- G: Affidavit for not executing the works as back-to-back basis.
- xiii) Form-H: Affidavit for Non-black listing.
- xiv) Form-I: Declaration about site inspection.
- xv) ERP Training certificate **or undertaking that he will obtain the ERP Training certificate before start of work on their letter head of the firm.**

- xvii) Valid Electrical contractor licence or undertaking that they will either obtain valid electrical licence at the time of execution of electrical work or associate with the contractor having valid electrical licence of appropriate class.

Note : All Affidavits /Undertakings should show the NIT No., and also be continuous and if it is coming in more than one page then, all the pages should have Affidavit / stamp certificate number, with signature and date on all pages.

List Of Documents to be submitted after acceptance of Bid.

Licenses / Registrations or Proof of applying for labour Licenses, registration with EPFO, ESIC & BOCW Welfare Board

ELIGIBILITY BID

GLOSSARY

AAI	Airport Authority of India
AE/AEE	Assistant Engineer/Assistant Executive Engineer
BIM	Building Information Management
BIS	Bureau of Indian Standards
NDMC	New Delhi Municipal Council
C&DWaste	Construction & Demolition Waste
COA	Council of Architecture
CPI	Consumer Price Index
CE cum ED	Chief Engineer cum Executive Director
CPWD	Central Public Works Department
DBR	Design Basis Report
DLP	Defects Liability Period
DSR	Delhi Schedule of Rates
EE&SM(C)	Executive Engineer & Senior Manager (Civil)
EE&SM(E)	Executive Engineer & Senior Manager (Electrical)
EM	Earnest Money
EPC	Engineering Procurement & Construction
GCC	General Conditions of Contract
GRIHA	Green Rating for Integrated Habit at Assessment
GPRA	General Pool Residential Accommodation
HSE	Health Safety & Environment
IGBC	Indian Green Building Council
IPC	Interim Payment Certificate
IS	Indian Standard
MAS	Material at Site
MEP	Mechanical Electrical Plumbing
MT	Metric Tonne
MTC	Material Testing Certificate
MLCP	Multi-level Car Parking

NBC	National Building Code
NGT	National Green Tribunal
NIT	Notice Inviting Tender
OEM	Original Equipment Manufacturer
PPE	Personal Protection Equipment
RPD	Re development Project Division
RPED	Re development Project Electrical Division
SAP	Safety Action Plan
SOP	Schedule of Payment
SOQ	Schedule of Quantities
SITC	Supply Installation Testing Commissioning
STP	Sewage Treatment Plant
TDS	Tax Deduction at Source
TPQAA	Third Party Quality Assurance Agency
UTTIPEC	Unified traffic & transportation infrastructure (plg. & engg.) Centre
WPI	Wholesale Price Index
WTP	Water Treatment Plant

SECTION - I
Brief Particulars of Work

1. The work involves **“Replacement of existing old lifts with new 3 Nos 13 Persons (884 Kgs) Passenger lift (G+6) and One Goods Lift (G+6) including maintenance for 5 years at Krishna Block at Custom House, Chennai-01”**. The bidder shall co ordinate with the other agency/s working simultaneously at the site.

2. The scope of work includes designing of Electro Mechanical equipments. This shall be carried out as per relevant CPWD specifications, NBC 2016, BIS codes, if not covered in Indian codes then other international codes with up to date corrections/amendments and good engineering practices.

3 Nos 13 Persons (884 Kgs) Passenger lift (G+6) and One Goods Lift (G+6) to be designed and provided are as below:

Location of complex	Capacity of LIFT
Krishna Block at Custom House, Chennai-01	3 Nos 13 Persons (884 Kgs) Passenger lift (G+6) and One Goods Lift (G+6)

3. The project is to be completed in all respect on percentage basis as per Technical Specifications given in this document. The technical specifications given are only minimum requirement. The agency shall submit the technical proposal with all the technical details of the LIFTs within 14 days after award of work. The scope of work is to be carried out complete in all respect including services and rates quoted by the Agency shall be considered for entire scope of work which includes all activities and work starting from the given concept to completion till handing over of completed project in operational mode in all respect. The maintenance period shall be 60 months after competing 1 month of trial run of Lift.
4. **The agency shall obtain all the necessary local body approvals required before starting the work and after completion.** The layout plan, forming part of this NIT is indicative only. There can be changes in the scope of work as per requirement of Local body, Chennai Fire Services etc. Agency shall carry out such changes which occur due to Building bye laws or statutory requirements. Nothing extra shall be paid for this.
5. The site of work (**Krishna Block at Custom House, Chennai-01**) is available.
6. The Agency will hand over the assets after completion of work with as built drawings, services route plans, Maintenance manuals, Warrantees / Guarantees or any other document required by the Engineer-in-charge for maintaining these establishments.
7. The agency shall follow all the norms prescribed as per National Green Tribunal.

Section-II

INFORMATION AND GUIDELINES FOR BIDDERS

1.0 General:

- 1.1** Letter of transmittal and forms for deciding eligibility are given in Section III.
- 1.2** All information called for in the enclosed forms should be furnished against the relevant columns in the forms. If for any reason, information is furnished on a separate sheet, this fact should be mentioned against the relevant column. Even if no information is to be provided in a column, a "nil" or "no such case" entry should be made in that column. If any particulars/query is not applicable in case of the bidder, it should be stated as "not applicable". The bidders are cautioned that not giving complete information called for in the application forms or not giving it in clear terms or making any change in the prescribed forms or deliberately suppressing the information may result in the bid being summarily disqualified. Bids made by telegram or e-mailed or telex and those received late will not be entertained.
- 1.3** References, information and certificate from the respective clients certifying suitability, technical knowledge or capability of the bidder should be signed by an officer not below the rank of Executive Engineer or equivalent.
- 1.4** The bidder may furnish any additional information, which he thinks is necessary to establish his capabilities to successfully complete the envisaged work. He is, however, advised not to furnish superfluous information. No information shall be entertained after submission of eligibility criteria document unless it is called for by the Employer.

2.0 Definitions:

- 2.1** In this document the following words and expression have the meaning hereby assigned to them.
- 2.2** EMPLOYER: Means the President of India, acting through **the Executive Engineer (E), CED-I, CPWD, Chennai.**
- 2.3** BIDDER: Means the individual, proprietary firm, firm in partnership, limited company, private or public or corporation.
- 2.4** "YEAR" means "Financial Year" unless stated otherwise.

3.0 Method of Application:

- 3.1** If the bidder is an individual, the application shall be signed by him above his/her full type written name and current address.

- 3.2 If the bidder is a proprietary firm; the application shall be signed by the proprietor above his/her full type written name and the full name of his firm with its current address.
- 3.3 If the bidder is a firm in partnership, the application shall be signed by all the partners of the firm above their full type written names and current addresses or alternatively by a partner holding power of attorney for the firm. In the latter case a certified copy of the power of attorney should accompany the application. In both the cases a certified copy of the partnership deed and current address of all the partners of the firm should accompany the application.
- 3.4 If the bidder is a limited company or a corporation, the bid shall be signed by a duly authorized person holding power of attorney for signing the application and certified copy of such power of attorney shall also be furnished. The bidder should also furnish a copy of memorandum of articles of association duly attested by a Public Notary.

4.0 **Final Decision-Making Authority:**

The Employer reserves the right to accept or reject any bid and to annul the process and reject all bids at any time without assigning any reason or incurring any liability to the bidders.

- 5.0 Particulars of provisional: The particulars of the work given in Section I are provisional. They are liable to change and must be considered only as advance information to assist the bidder

6.0 **Site Visit:**

The bidder is advised to visit the site of work, at his own cost, and examine it and its surroundings to himself collect all information that he considers necessary for proper assessment of the prospective assignment.

7.0 **Initial Criteria for Eligibility:**

As given in **PART-A**.

8.0 **Evaluation Criteria: (For specialized agencies)**

- 8.1 The details submitted by the bidder will be evaluated in the following manner:

- 8.1.1 The initial criteria prescribed in Para 7.0 above in respect of experience of eligible similar class of works completed, Profit and loss, solvency, financial turn over etc., will first be scrutinized and the bidder's eligibility for the work is to be determined.

- 8.1.2 The bidders qualifying the initial criteria as set out in Para 7.0 above will be evaluated for following criteria by scoring method on the basis of details furnished by them (as per (Annexure-I)).

S. No	Description	Marks
a)	Financial strength (Form-A & B)	Maximum 20 marks
b)	Experience in eligible similar nature of work	Maximum 20 marks
c)	Performance on works (Time Over Run, Form-C1)	Maximum 20 marks
d)	Performance on works (Form-D) –quality	Maximum 40 marks
	Total	100 Marks

- 8.1.3 To become eligible for short listing, the bidder must secure at least 50% (Fifty percent) marks in each (a, b, c & d under 8.1.2) and 60% (Sixty percent) marks in aggregate.

- 8.1.4 The department, however reserves the right to restrict the list of such qualified bidders to any number deemed suitable by it.

Note: The average value of performance of works for time over run and quality shall be taken on the basis of performance report of the eligible similar works.

9.0 Financial Information: (For specialized agencies)

Bidder should furnish the Annual financial statement for the last five years in (Form "A"). Banker's Certificate in (Form "B") or Networth Certificate in (Form "B-1").

10.0 Experiences of Similar Works:

- 10.1 Bidder should furnish the List of eligible similar nature of works successfully completed during the last seven years in (Form-C) and ongoing works as well (Form-C1)

11.0 Organization Information:

- 11.1 Bidder is required to submit the information in respect of his / her /their organization in Form-E.

12.0 Letter of Transmittal:

The Bidder should submit the letter of transmittal attached with the document.

- 13.0 **Opening of Price Bid:** After evaluation of pre-qualification documents, a list of short listed agencies will be prepared. There after the financial bids of only qualified and technically acceptable bidders shall be opened at the notified time, date and place in the presence of the qualified bidders or their representatives. The bid shall remain **valid for 75 days** from the date of opening of Technical bid (eligibility bid).

14.0 Award criteria:

14.1 The employer reserves the right, without being liable for any damages or obligation to inform the bidder to:

- a) Amend the scope and value of contract to the bidder.
- b) Reject any or all the applications without assigning any reason.

14.2 Any effort on the part of the bidder or his agent to exercise influence or to pressurize the employer would result in rejection of his bid. Canvassing of any kind is prohibited.

15.2 Marks Assessment Criteria for Performance of Completed works (Quality)

S No.	Reference	Description	Marks
1	Form – D	In Performance Report (Form – D): For any attribute assessed as ‘Outstanding’	100% Marks will be awarded.
		In Performance Report (Form – D): For any attribute assessed as ‘Very Good’	80% Marks will be awarded.
		In Performance Report (Form – D): For any attribute assessed as ‘Good’/ ‘Fair’	60% Marks will be awarded.
		In Performance Report (Form – D): For any attribute assessed as ‘Poor’	20% Marks will be awarded.
2	Completion Certificate	In Completion Certificate, if work assessed as ‘Outstanding’	100% Marks will be awarded.
		In Completion Certificate, if work assessed as ‘Very Good’	80% Marks will be awarded.
		In Completion Certificate, if work assessed as ‘Good’/ ‘Fair’/ ‘Satisfactory’	60% Marks will be awarded.
		In Completion Certificate, if work assessed as ‘Poor’	20% Marks will be awarded.

Note:

1. The Participants can submit any of the two (i.e. Form – D/ Completion Certificate) as work experience for eligible completed works mentioned in Form-C fulfilling the minimum eligibility criteria as per NIT.
2. **The Completion Certificate not having remarks on quality, will not be accepted as work experience.**
3. The works as assessed above shall be converted on a scale of 40 marks for completed works respectively.
4. In case of eligible completed works being more than one the average marks assigned for eligible completed works shall be considered for marking purpose.

Executive Engineer (E)

ANNEXURE-I

Criteria for Evaluation of the performance of bidder for Pre- Eligibility (For specialized agencies)

S.No.	Attributes		Marks	Evaluation			
(a)	<u>Financial Strength</u> (Maximum 20 Marks)			(i) 60% marks for minimum eligibility criteria (ii) 100% marks for twice the minimum eligibility criteria or more. (iii) In between (i) & (ii)-on pro-rata basis			
	(i)Average annual turn over		16 Marks				
	(ii)Networth certificate		04 Marks				
(b)	Experience in similar class of work		20 marks	(i) 60% marks for minimum eligibility criteria (ii) 100%marks for twice the minimum eligibility criteria or more. (iii) In between (i) & (ii)- on pro-rata basis			
(c)	Performance on works [Time Over Run (TOR)]:Maximum 20 marks						
	Parameter	Calculation for points	Score			<u>Maximum Marks</u>	
	If TOR=		1.00	2.00	3.00	>3.50	<u>20</u>
	(i) Without levy of compensation		20	15	10	10	
	(ii) With levy of compensation		20	5	0	(-) 5	
	(iii) Levy of compensation not decided		20	10	0	0	
	TOR = AT/ST, where AT =Actual Time; ST= Stipulated Time in the agreement plus (+) justified period of Extension of Time. Note: Marks for value in between the stages indicated above is to be determined by straight line variation basis.						
(d)	Performance of works (Quality) as per Assessment in Form-D & C1: Maximum 40 Marks						
	Completed work as per Form D (Max.25 Marks)		Ongoing Work as per Form C1 (Max.15Marks)		Total Marks assessed		

Section-III**LETTER OF TRANSMITTAL**

To

Executive Engineer (E),
Chennai Electrical Division-I, CPWD
Shastri Bhawan, Nungambakkam
Chennai.

Name of work: “Replacement of existing old lifts with new 3 Nos 13 Persons (884 Kgs) Passenger lift (G+6) and One Goods Lift (G+6) including maintenance for 5 years at Krishna Block at Custom House, Chennai-01”.

N.I.T. No: 47/CE/CED-I/2026-27/CHENNAI

Sir,

Having examined details given impress Notice and bid document for the above work, I/we here by submit the relevant information.

1. I/We hereby certify that all the statements made and information supplied in the enclosed forms and accompanying statement are true and correct.
2. I/we have furnished all information and details necessary for eligibility and have no further pertinent information to supply.
3. I/we submit the requisite certified Net worth Certificate and authorize the **Executive Engineer(E), CED-I, CPWD** to confirm the correctness there of. I/we also authorize **Executive Engineer (E), CED-I, CPWD** to approach individuals, employers, firms and corporation to verify our competence and general reputation.
4. I/we submit the following certificates in support of our suitability, technical knowledge and capability for having successfully completed the following eligible similar works:

Sl. No.	Name of Work	Certificate From

Certificate

It is certified that the information given in the enclosed eligibility bid are correct. It is also certified that I/We shall be liable to be debarred, disqualified/cancellation of enlistment in case any information furnished by me/us found to be incorrect.

Enclosures:**Date of Submission**

Seal of bidder
Signature(s) of Bidder(s)

FORMS

FORM-A**FINANCIAL INFORMATION****NIT No: 47/CE/CED-I/2026-27/CHENNAI**

Name of Work: “Replacement of existing old lifts with new 3 Nos 13 Persons (884 Kgs) Passenger lift (G+6) and One Goods Lift (G+6) including maintenance for 5 years at Krishna Block at Custom House, Chennai-01”.

Name of the firm/Bidder.....:

- I** Financial Analysis-Details to be furnished duly supported by figures in balance sheet /profit & loss account for the last five years duly certified and audited by the Chartered Accountants, as submitted by the applicant to the Income Tax Department (Copies to be attached).
- II** Financial arrangements for carrying out the proposed work.

Sl. No		Particulars	Financial Years				
			2020-21	2021-22	2022-2023	2023-2024	2024-2025
i)		Gross Turnover of construction works					
ii)		Profit / Loss (stand alone finance statement and consolidated financial statement both)					

Signature of Chartered Accountant with Seal

SIGNATURE OF BIDDER(S)

FORM-B**BANKER'S CERTIFICATE FROM A COMMERCIAL BANK**

This is to certify that to the best of our knowledge and information that M/s./Shri--
..... having marginally noted addressas a
customer of our bank are/is respectable and can be treated as good for any engagement upto
a limit of Rs-----.....).

This certificate is issued without any guarantee or responsibility on the bank or
any of the officers.

(Signature) For the Bank

NOTE: In case of partnership firm, certificate should include names of all partners as recorded
with the Bank.

FORM B-1**FORM FOR CERTIFICATE OF NETWORTH FROM CHARTERED
ACCOUNTANT**

“It is to certify that as per the audited balance sheet and profit & loss account during the financial year....., the Net Worth of M/s..... (Name & Registered Address of individual/ firm/company), as on..... (the relevant date) is Rs... after considering all liabilities. It is further certified that the NetWorth of the company has not eroded by more than 30% in the last three years ending on (the relevant date).”

Unique Document Identification Number (UDIN)

Signature of Chartered Accountant.....

Name of Chartered Accountant.....

Membership No.of ICAI.....

Date and Seal.....

FORM-C**DETAILS OF ELIGIBLE SIMILAR NATURE OF WORKS COMPLETED
DURING IN LAST SEVEN YEARS****NITNo: 47/CE/CED-I/2026-27/CHENNAI****Name of Work: “Replacement of existing old lifts with new 3 Nos 13 Persons (884 Kgs) Passenger lift (G+6) and One Goods Lift (G+6) including maintenance for 5 years at Krishna Block at Custom House, Chennai-01”.**

Name of the firm /Bidder.....

S.No.	Details	
1.	Name of work/project and location	
2.	Owner or sponsoring organization	
3.	Cost of work in Rs. in Crores of Rupees	
4.	Date of commencement as per contract	
5.	Stipulated date of completion	
6.	Actual date of completion	
7.	*Litigation/arbitration cases pending/ in progress with details	
8.	Name and Address (Postal & E-mail) / telephone number of officer to whom reference may be made	
9.	Whether the work was done on back to back basis. Yes/ No	

* Indicate gross amount claimed and amount awarded by the Arbitration Tribunal.

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

FORM C-1**DETAILS OF ELIGIBLE SIMILAR NATURE OF ON-GOING WORKS****NITNo: 47/CE/CED-I/2026-27/CHENNAI****Name of Work: “Replacement of existing old lifts with new 3 Nos 13 Persons (884 Kgs) Passenger lift (G+6) and One Goods Lift (G+6) including maintenance for 5 years at Krishna Block at Custom House, Chennai-01”.**

Name of the firm /Bidder.....

S.No.	Details	
1.	Name of work/project and location	
2.	Owner or sponsoring organization	
3.	Cost of work in Rs.in Crores	
4.	Date of commencement as per contract	
5.	Stipulated date of completion	
6.	Upto date percentage progress of work	
7.	Slow progress if any and reasons there of	
8.	Name and Address (Postal & E-mail) / telephone number of officer to whom reference may be made	
9.	Remarks	

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

FORM-D**WORK EXPERIENCE/PERFORMANCE REPORT OF WORKS REFERRED TO IN
FORM-C****Name of the Agency :****Name and address of the client :****Details of works executed by :**

1	Name of work with brief particulars	
2	Agreement No.	
3	Date of Commencement of work	
4	Stipulated date of completion	
5	Actual date of completion	
6	Details of compensation levied for delay, if any	
7	Tender Amount	
8	Gross amount of the work completed	
9	Name & Address of the authority	
10	Did the contractor go for arbitration? If yes, Total amount of claim	
	Total amount awarded	
11	Performance Report	
	Quality of work (Indication grading)	Outstanding / Very Good/ Good/ Poor
	Technical proficiency	Outstanding / Very Good/ Good/ Poor
	Financial soundness	Outstanding / Very Good/ Good/ Poor
	Resourcefulness	Outstanding / Very Good/ Good/ Poor
	General Behaviour	Outstanding / Very Good/ Good/ Poor

Dated:

(Authorized Signatory)

Place:

Executive Engineer or Equivalent Rank

FORM-E**STRUCTURE & ORGANIZATION****NITNo: 47/CE/CED-I/2026-27/CHENNAI**

Name of Work: “Replacement of existing old lifts with new 3 Nos 13 Persons (884 Kgs) Passenger lift (G+6) and One Goods Lift (G+6) including maintenance for 5 years at Krishna Block at Custom House, Chennai-01”.

1.	Name & Address of the bidder		
2.	Telephone No./Email ID/Telex No./Fax No.		
3.	Legal status of the bidder (Attach copies of original document defining the legal status).		
	a)	An Individual	
	b)	A proprietary firm	
	c)	A firm in partnership	
	d)	A limited company or Corporation	
4.	Particulars of registration with various Government bodies (attach attested photo-copy).		
	ORGANIZATION/ PLACE OF REGISTRATION		REGISTRATION NO.
	1.		
	2.		
	3.		
5.	Names and Titles of Directors & Officers with designation to be concerned with this work.		
6.	Designation of individuals authorized to act for the organization.		
7.	Has the bidder or any constituent partner in case of partnership firm/ limited company/ joint venture, ever been convicted by the court of law? If so,give details.		
8.	In which field of Civil Engineering Construction, the bidder has specialization and interest?		
9.	Any other information considered necessary but not includedabove.		

Signature of bidder(s) with stamp

FORM-F**Receipt of deposition of original EMD**

(Receipt No. / date)
Name of Work: “Replacement of existing old lifts with new 3 Nos 13 Persons (884 Kgs) Passenger lift (G+6) and One Goods Lift (G+6) <u>including maintenance for 5 years</u> at Krishna Block at Custom House, Chennai-01”. 1.NIT No: 47/CE/CED-I/2026-27/CHENNAI 2. ECPT : Rs. 1, 30, 56, 017/- 3.Amount of Earnest Money Deposit: Rs. 2, 61, 120/- 4. Last date of submission of bid: 15:00 Hrs on 08/09/2026 (***To be filled by Tender inviting authority/NIT approving authority at the time of issue of NIT and uploaded along with NIT)
Name of Contractor# Form of EMD # Amount of Earnest Money Deposit # Date of submission of EMD.....# Name of Payee: Executive Engineer (E), CCED-III, CPWD, Chennai-600040 Signature, Name and Designation of EMD receiving officer along with Office stamp (# To be filled by EMD receiving EE/DDH)

FORM-G**(For CPWD as well as Non-CPWD Contractors)****AFFIDAVIT**

NAME OF WORK: “Replacement of existing old lifts with new 3 Nos 13 Persons (884 Kgs) Passenger lift (G+6) and One Goods Lift (G+6) including maintenance for 5 years at Krishna Block at Custom House, Chennai-01”.

N.I.T. No: 47/CE/CED-I/2026-27/CHENNAI

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. (Scanned copy to be uploaded at the time of submission of Bid.)

Name & Signature of Contractor

FORM-H
AFFIDAVIT

Name of Work: “Replacement of existing old lifts with new 3 Nos 13 Persons (884 Kgs) Passenger lift (G+6) and One Goods Lift (G+6) including maintenance for 5 years at Krishna Block at Custom House, Chennai-01”.

NIT No: 47/CE/CED-I/2026-27/CHENNAI

I/we undertake and confirm that our firm/partnership **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 information comes to the notice of the department then I/we shall be debarred for bidding in CPWD in future forever. Also, if such 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 (Scanned copy of this notarized affidavit to be uploaded at the time of submission of bid)

NOTE: Affidavit to be furnished on a ‘Non-Judicial’ stamp paper worth **Rs.100/-**

**Signature of Bidder(s) or an authorized
Officer of the firm with stamp**

Signature of Notary with seal and date

FORM-I**DECLARATION ABOUT SITE INSPECTION**

To

The Executive Engineer,
Chennai Electrical Division-I,
CPWD, Chennai-6.

NIT No: 47/CE/CED-I/2026-27/CHENNAI

Name of work: “Replacement of existing old lifts with new 3 Nos 13 Persons (884 Kgs) Passenger lift (G+6) and One Goods Lift (G+6) including maintenance for 5 years at Krishna Block at Custom House, Chennai-01”.

Dear Sir,

It is hereby declared that as per **CPWD–6 FOR e-BIDDING**, I/ We the bidder inspected and examined the subject site and its surrounding and satisfy myself / ourselves as to the nature of the ground and sub-soil (so far as is practicable), the forms and nature of the site./ ourselves before submitting the bid, the accommodation which may require and all necessary information as to risks, contingencies and other circumstances which may influence or affect our bid have been obtained. I/We the bidder shall have full knowledge of the site and no extra charge consequent upon any misunderstanding or otherwise shall be claimed in later date.

I /We bidder shall be responsible for arranging and maintaining at 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 me/us implies that I / We have read this notice and all other contract documents and has made myself /ourselves aware of the scope and specifications of the work to be done and local conditions and other factors having a bearing on the execution of the work.

Yours faithfully

(Duly authorized signatory of the bidder)

FORM-J**AFFIDAVIT OF MEMORANDUM OF UNDERSTANDING (MOU)**

1. M/s. (Name of the firm with
full address)Enlistment
Status
Valid Upto:
(Henceforth called the main Contractor)
2. M/s. (Name of the firm with
full address)Enlistment
Status
Valid Upto:
(Henceforth called Associated
Contractor)For the execution of
E & M work

Name of work:“Replacement of existing old lifts with new 3 Nos 13 Persons (884 Kgs) Passenger lift (G+6) and One Goods Lift (G+6) including maintenance for 5 years at Krishna Block at Custom House, Chennai-01”.

We state that M.O.U between us will be treated as an agreement and has legality as per Indian Contract Act (amended up to date) and the department (CPWD) can enforce all the terms and conditions of the agreement for execution of the above work. Both of us shall be responsible for the execution of work as per the agreement to the extent this MOU allows. Both the parties can be paid consequent to the execution as per agreement to the extent this MOU permits. In case of any dispute, either of us will go for mediation by the Engineer In charge. Any of us may appeal against the mediation to the Chief Engineer, CPWD, Chennai. His decision shall be final and binding on both of us.

We have agreed as under:

1. Both the parties have gone through and understood the various Terms & Conditions and Clauses of the proposed Contract for the work anticipated to be awarded to the Main Contractor and the **Associate Lift Manufacturer** willingly agree to abide by them as applicable to E&M component of **LIFT** work assigned to them
2. The Associated Contractor will execute **SITC of Lift** in the wholesome manner as per terms and conditions of the agreement.
3. The Associated Contractor shall be liable for disciplinary action if he fails to discharge the action(s) and other legal action as per agreement.
4. All the machinery and equipments, tools and tackles required for execution of the E & M works, as per agreement, shall be the responsibility of the Associated Contractor.
5. The site staff required for the **E & M work** shall be arranged by the Associated Contractor as per terms and conditions of the agreement.

6. Site order book maintained for the said work shall be signed by the main contractor as well as by the Engineer of the Associated Contractor and by Associated Contractor himself.
7. All the correspondence regarding execution of the E & M work shall be done by the department with the Associated Contractor with a copy to the main contractor. In case of non-compliance of the provisions of agreement, the main contractor, as well as the associated contractor shall be responsible. The action under clauses 2 and 3 shall be initiated and taken against the main contractor.

**SIGNATURE OF
MAIN CONTRACTOR**

**SIGNATURE OF
ASSOCIATED CONTRACTOR**

Date:

Date

Place:

Place:

1. Witness with address

2. Witness with address

(From major component contractor side)

(From minor component contractor side)

NOTE: Affidavit to be furnished on a 'Non-Judicial' stamp paper worth Rs.200/-

On non-judicial stamp paper of minimum Rs. 200

(Guarantee offered by Bank to CPWD in connection with the execution of contracts) Form of Bank Guarantee for Performance Guarantee /Security Deposit / Mobilization Advance

1. Where as the Executive Engineer..... (name of division) CPWD on behalf of the President of India (here in after called “The Government”) has invited bids under.....(NIT number)..... dated.....for.....(Name of work) The Government has further agreed to accept irrevocable Bank Guarantee for Rs.....(Rupees only) valid upto.....(Date)*.....as **Earnest Money Deposit** from. (Name and Address of contractor)..... (Here in after called “the contractor”) for compliance of his obligations in accordance with the terms and conditions of the said NIT.

OR*

Where as the Executive Engineer.....(Name of division), CPWD on behalf of the President of India (here in after called “The Government”) has entered into an agreement bearing number.....with..... (name And address of the contractor).....(here in after called “the Contractor”) for execution of work.....(name of work).....

The Government has further agreed to accept an irrevocable Bank Guarantee for Rs.....(Rupees.....only) valid upto.....(date). As **Performance Guarantee / Security Deposit / Mobilization Advance** from the said Contractor for compliance of his obligation since accordance with the terms and conditions of the agreement.

2. We, (indicate the name of the bank) (here in 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 within 10 days of the demand.

3. We,(indicate the name of the Bank), do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet there coveries due or likely to be due from the said Contractor. 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. (Rupees only).
4. We,.....(indicate then name of the Bank),further undertake to pay
The Government any money So demanded not with standing any dispute or disputes raised by the contractor in any suit or proceeding pending before any Court or Tribunal, our liability under this Bank Guarantee being absolute and un equivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the Contractor shall have no claim against us for making such payment.
5. We,.....(indicate the name of the Bank)....., further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor from time to time or to postpone for anytime or from time to time any of the powers exercise able by the Government against the said contractor and to for bear 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 or for any for bearance, act of omission on the part of the Government or any indulgence by the Government to the said Contractor or by any such matter or thing what so ever which under the law relating to sure ties would, but for this provision, have effect of so relieving us
6. We, (indicate the name of the Bank), further agree that the Government at its option shall been titled to enforce this Guarantee against the Bank as a principal debtor at the first instance without proceeding against the Contractor and not with standing any security or other guarantee the Government may have in relation to the Contractor's liabilities.
7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.
8. We,.....(indicate the name of the Bank).....,undertaken otto Revoke this guarantee except with the consent of the Government in writing.

9. This Bank Guarantee shall be valid up to unless extended on demand by the Government. Not with standing anything mentioned above, our liability against this guarantee is restricted to Rs.....(Rupees....only) and unless a claim in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under *this* guarantee shall stand discharged.

Date:.....

Witnesses:.....

1. Signature.....

(Authorized signatory) Name and address Name

Designation Staff code no.Bank seal

2. Signature.....

Name and address

*Date to be worked out on the basis of validity period of 30 days where only financial bid sare invited and 75 days for two/ three bid system from the date of submission of tender.**in paragraph 1, strike out the portion not applicable. Bank Guarantee will be made either for earnest money or for performance guarantee/security deposit/mobilization advance, as the case may be.

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

STATE : Tamil Nadu BRANCH : B & R ZONE : CE (Chennai)	CIRCLE : ----- DIVISION : CED-I SUB- DIVISION : -----
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Percentage Rate Tender & Contract for Works

Tender for the work of: - **“Replacement of existing old lifts with new 3 Nos 13 Persons (884 Kgs) Passenger lift (G+6) and One Goods Lift (G+6) including maintenance for 5 years at Krishna Block at Custom House, Chennai-01”.**

- (i) Last date and time of submission of e-tenders shall be upto **15:00 Hrs on 08.09.2026**
- (ii) To be opened in presence of tenderers who may be present at **15:30 Hrs on 08.09.2026** in the office of the Executive Engineer, CED-I, CPWD, Chennai

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, General Conditions of Contract 2023 for Maintenance works with amendments up to the last date of submission of tenders, 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 respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the General Conditions of Contract 2023 for Maintenance works with amendments up to the last date of submission of tenders, and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

I/We agree to keep the tender open for **(75) Seventy five days** from the date of opening of Technical bid **in case tender are invited in two bid system** and not to make any modifications in its terms and conditions.

I/We have deposited EMD for the prescribed amount of **Rs. 2, 61, 120/-** in the office of concerned Executive Engineer as per the bid document.

A copy of earnest money deposit receipt of prescribed amount deposited in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker’s Cheque or Bank Guarantee (as prescribed) issued by a commercial Bank, is scanned and uploaded (strike out as the case may be).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

Addition: NIL Correction: NIL Overwriting: NIL Deletion: NIL AE(E)(P) EE (P)

liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee 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 or 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 & integrity 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 an on behalf of the President of India for a sum of Rs.....*.....
 (Rupee.....*.....

).

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*

* to be filled by EE

**Executive Engineer (E&M)
 CED-I, CPWD, Chennai**

PROFORMA OF SCHEDULES

SCHEDULE 'A'

Schedule of Quantities as per form PWD-3 -----

Attached

SCHEDULE 'D'

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

1. General / specific conditions, specifications.

SCHEDULE 'E'

Reference to General Conditions of Contract:

GCC/2023 for Construction works as modified and corrected upto previous day of submission of Tender

Name of Work: "Replacement of existing old lifts with new 3 Nos 13 Persons (884 Kgs) Passenger lift (G+6) and One Goods Lift (G+6) including maintenance for 5 years at Krishna Block at Custom House, Chennai-01".

Estimated cost of work : Rs. 1, 30, 56, 017/-

Earnest Money : Rs. 2, 61, 120/-

(i)	Performance Guarantee:	a) 5 % of tendered value or Estimated Cost Put to Tender (ECPT) (Whichever is higher) (b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.
(ii)	Security Deposit :	2.5% of tendered value

SCHEDULE 'F'

GENERAL RULES & DIRECTIONS

Officer inviting tender:

Executive Engineer, CED-I,
Central Public Works Department,
Chennai-600006

Definitions:

2(v)	Engineer-in-Charge	Chennai Electrical Division-I, CPWD, Chennai-600006 or his successors thereof
2(viii)	Accepting Authority	Chief Engineer, Chennai, CPWD or his successor thereof
2(x)	Percentage on cost of materials and Labour cover all to overheads and profits	15%
2(xi)	Standard Schedule of Rates	Delhi Schedule of Rate 2025 (E&M) with amendments up to date of submission of bid
2(xii)	Department	Central Public works Department (CPWD)
9(ii)	Standard CPWD Contract Form GCC	GCC 2023 for Construction works as modified and corrected upto previous day of submission of Tender

Clause 1

(i)	Time allowed for submission of Performance Guarantee, programme chart (Time and Progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board or proof of applying thereof from the date of issue of letter of acceptance.	7 (Seven) days
(ii)	Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above	3 (Three) days with late fee @ 0.1% per day of the PG amount (no refundable)

Clause 2

a)	Authority for fixing compensation under clause 2	Chief Engineer, Chennai, CPWD or his successor thereof
----	--	--

Clause 5

	Number of days from the date of issue of letter of acceptance for reckoning date of start	10 (Ten) days or date of handing over of site whichever is later
--	---	--

Mile stone(s) for work as per table given below

Lifts

Sl. No.	Description of Milestone (Physical)	Time allowed in percentage of days (from the date of start)	Amount to be withheld incase of non-achievement of milestone (%of tendered amount of respective E & M Component)
1	Submission of documents for approval of associated agency and approved from competent authority.	15 Days	0.25%
2	Submission of drawings for approval and permission for erection of lift from CEIG	1 Months	1.0%
3	Supply of all lift materials including guide rails brackets door frame ropes etc	3 Months	1.0%
4	Installation of lift	4 Months	1.0%
5	Testing of complete Lifts installation.	4 Months 15 Days	1.0%
6	Commissioning of complete Lifts.	5 Months	0.5%
7	Obtaining Lift Licence and Insurance.	6 Months	0.25%

Authority to decide:

(i) Authority to convey the decision of shifting of milestone and Extension of time	Executive Engineer, Chennai Electrical Division-I, CPWD, Chennai or his successor there of
(ii) Authority to decide Rescheduling of mile stones and extension of time	Chief Engineer, Chennai, CPWD or his successor thereof
(iii) Shifting of date of start in case of delay in handing over of site	Chief Engineer, Chennai, CPWD or his successor thereof

Schedule of handing over of site:

Part	Portion of site	Description	Time Period for handing over reckoned from date of issue of letter of intent
Part A	Portion without any hindrance	Full area	10 days
Part B	Portions with encumbrances	NIL	Not Applicable
Part C	Portions dependent on work of other agencies	NIL	Not Applicable

Clause 6: Electronic Measurement Book (EMB) through ERP portal.

(i) Mode of Measurement : EMB through ERP portal

Note: Incase of any difficulty in implementing in EMB the Engineer-in-Charge shall permit CMB with recorded reasons intimating to the NIT approving authority.

Clause 7:

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	Rs. 22.00 lakhs or part thereof as per discretion of Engineer-in-charge.
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Clause 7A

Whether Clause 7A shall be applicable	Yes
---------------------------------------	-----

No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by the contractor to the Engineer-in Charge.

Clause 7B Payment to third party

If the exigencies of the work so demand, the engineer-in-charge may allow payment to a third party, who is creditor to the contractor, after fulfilling the following Conditions.

- a) The contractor gives an authority letter addressed to the engineer-in-charge on a non-judicial stamp paper of Rs.100 in the format given below.

I/We authorize the **Executive Engineer, Chennai Electrical Division-I, CPWD, Chennai** to pay directly on my/our behalf to (name of the thirty party) an amount of Rs.....(Rupees.....in words) for the work done or supplies made by(Name of the Third Party) . I/we shall be responsible for the quality and quantity of the same under the provisions of agreement number.....

Signature of the contractor

- b) The total payment to third party (or parties) shall not exceed 10% of the agreement cost of the work.

Clause 8

Competent Authorities to inspect and issue part / final completion certificate	Chief Engineer, Chennai, CPWD and Senior Architect, CPWD, Chennai.
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Clause 8A

Authority to decide compensation on Account - if contractor fails to submit completion plans	Chief Engineer, Chennai, CPWD or his successor thereof
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Clause 10A

List of testing equipment to be provided by the contractor at site lab.

As per Site requirement

Clause 10B (ii) - Mobilization Advance:

Whether Clause 10 B (ii) shall be applicable	No
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Clause 10C -

Labour component	Not Applicable
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Clause 10CC -

Not Applicable

Clause 11

	Electrical work : a) CPWD General Specifications for Elect works Part I-Internal - 2023 b) CPWD Specification for Elect works Part II-External -2023 c) CPWD Specification for Elect works Part-III -Lifts & Escalators - 2003 d) CPWD Specification for Elect works Part-IV-substation-2013 e) CPWD Specification for Elect works Part-V-wet riser and sprinkler systems- 2020 f) CPWD Specification for Elect works Part-VI-Fire Detection and Alarm System – 2018 g) CPWD Specification for Elect works Part VII-DG sets -2013 (with amendments/corrections up to the last date of submission of tender
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Clause 12:

Type of Work : **Original work**

Deviation in Completion Cost : **The completion cost shall, in no case exceed, 1.5 times the contract amount (as per DG/CON/ Construction 2023/03 dtd. 06.12.2023)**

12.2(C):

Deviation Limit beyond which clauses 12.2 (c) shall apply for all items.	100%
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Clause16	Competent Authority for Deciding reduced rates:	
	For Civil items of work	Chief Engineer, Chennai, CPWD, or his successor thereof
	For E&M items of work	Chief Engineer, Chennai, CPWD, or his successor thereof
Clause18	List of mandatory machinery, tools & plants to be deployed by the contracot at site: -	As per Site Requirement
Clause19C	Authority to decide penalty for each default:	Executive Engineer (E), Chennai Electrical Division-I, CPWD, Chennai
Clause19D	Authority to decide penalty for each default:	Executive Engineer (E), Chennai Electrical Division-I, CPWD, Chennai
Clause19G	Authority to decide penalty for each default:	Executive Engineer (E), Chennai Electrical Division-I, CPWD, Chennai
Clause19K	Authority to decide penalty for each default:	Executive Engineer (E), Chennai Electrical Division-I, CPWD, Chennai

Clause 25:

I.	Conciliator	:	The Special Director General, CPWD, Chennai
II.	Arbitrator Appointing Authority	:	Chief Engineer, Chennai CPWD or his successor there of
III.	Place of Arbitration	:	Chennai, Tamil Nadu

Clause 32:- Requirement of Technical Representatives and Recovery Rates :**Requirement of Technical Representatives and recovery Rate**

Sl. No	Requirement of Technical Staff		Minimum Experience (Years)	Designation of Technical staff	Rate at which recovery shall be made from the contractor in the event of not fulfilling
	Qualification	Number (of Major + Minor Component)			
1	Graduate Engineer or Diploma Engineer	1	2 or 5 respectively	Project Manager cum Planning/ quality/site/ billing Engineer	Rs.15,000/- Per month per person

Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.

Diploma holder with minimum 10 year relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.

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 or the CPWD empanelled Arbitrator Waiver agreement as per Appendix –XIX is enclosed

Or

I/We do not give consent for appointment of Arbitrator of MoHUA or the CPWD empanelled Arbitrator.

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)

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 / presently a CPWD empanelled Arbitrator.
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 or the CPWD empanelled Arbitrator may be enquired form the Engineer-in-charge, if required).

PART-B

PARTICULAR SPECIFICATIONS

&

SPECIAL CONDITIONS FOR E & M WORKS

GENERAL TERMS AND CONDITIONS APPLICABLE FOR ALL E&M COMPONENTS

1.0 Introduction

1. GENERAL

The work shall be generally carried out in accordance with tender/bid specifications and the following specifications / rules with up-to-date amendments.

- (a) CPWD General Specifications for Electrical work Part I Internal – 2023, as amended up to date.
- (b) CPWD General Specifications for Electrical work Part II External-2023, as amended up to date.
- (c) Commercial and Additional conditions for this work.
- (d) The Indian Electricity Act, 2003, as amended up to date.
- (e) Indian Electricity Rules 1956 amended up to date.

1.1 The Contractors are advised to inspect and examine the site and its surroundings and satisfy themselves with the nature of site, the means of access to the site, the constraints of space for stacking material / machinery, labour etc. constraints put by local regulations, if any, weather conditions at site, general ground / subsoil conditions etc. or any other circumstances which may affect or influence their tenders. The site is available for work. The contractor shall carry out survey of the work area, at his own cost, setting out the layout and fixing of alignment of the building as per architectural and Structural drawings in consultation with the Engineer-in-Charge and proceed further ensuring full structural continuity and integrated and monolithic construction. Any discrepancy between the architectural drawings and actual layout at site shall be brought to the notice of the Engineer-in-charge.

1.2 The Department shall not bear any responsibility for the lack of knowledge and also the consequences, thereof to the Contractor. The information and data shown in the drawings and mentioned in the tender documents have been furnished, in good faith, for general information and guidance only. The Engineer-in-Charge, in no case, shall be held responsible for the accuracy there of and/or interpretations or conclusions drawn there from by the Contractor and all consequences shall be borne by the Contractor. No claim, whatsoever, shall be entertained from the Contractor, if the data or information furnished in tender document is different or in-correct otherwise or actual working drawings are at variance with the drawings available for inspection or attached to the tender documents. It is presumed that the Contractor shall satisfy himself for all possible contingencies, incidental charges, wastages, bottlenecks etc. likely during execution of work and acts of coordination, which may be required between different agencies. Nothing extra shall be payable on this account.

1.3 The nomenclature of the item given in the schedule of quantities gives in general the work content but is not exhaustive i.e. does not mention all the incidental works required to be carried out for complete execution of the item of work. The work shall be carried out, all in accordance with true intent and meaning of the specifications and the drawings

taken together, regardless of whether the same may or may not be particularly shown on the drawings and/or described in the specifications, provided that the same can be reasonably inferred there from may be several incidental works, which are not mentioned in the nomenclature of each item but will be necessary to complete the item in all respect. All these incidental works / costs which are not mentioned in item nomenclature but are necessary to complete the item shall be deemed to have been included in the rates quoted by the contractor for various items in the schedule of quantities. No adjustment of rates shall be made for any variation in quantum of incidental works due to variation / change in actual working drawings. Also, no adjustment of rates shall be made due to any change in incidental works or any other deviation in such element of work (which is incidental to the items of work and are necessary to complete such items in all respects) on account of the directions of Engineer-in-Charge. Nothing extra shall be payable on this account.

- 1.4 The main contractor shall engage associated contractors meeting the conditions given against each during the last 7 Years ending the last day of submission of tender as per the eligibility criteria given in this tender document. The building category contractor and the associated specialized agencies has to submit required affidavit to confirm their association at the time of submission of Performance Guarantee.
- 1.5 Normally, there shall be no change in associated contractor work during the execution of the work. If at all, a change is necessitated, the same should be acceptable to the department and such acceptable contractor shall fulfil the conditions laid down for the selection of the associated contractor in the tender document.
- 1.6 The materials shall be procured only from the manufacturers and their authorized dealers and documentary proof for such procurement and supply shall be produced by the contractor.
- 1.7 No T&P shall be issued by the department and nothing extra shall be paid on account of this.

2.0 Site Information

- 2.1 The contractor is advised to visit the site of work before tendering to acquaint himself regarding the site conditions, availability of water, provisions and other necessities to be made for execution of work and arrangement to be made for labour and supervisory staff including transportation and cartage as required. Department can facilitate the entry in the secured area.
- 2.2 The contractor has to take full precaution & safety measures of his men and materials, during execution of work, till the time the entire work is completed i/c. testing, as required under the rules and handing over of the installation to the Department. **Nothing extra shall be payable on this account.**
For any type of miss-happening/human loss, during the said period, the contractor will be fully responsible for it and liable to bear all losses and pay full compensation. The department will not take any responsibility for such type of happening.

- 2.3 The work shall be carried out in occupied Campus and with No/minimum hindrance to their normal functioning.

3.0 Conformity with Statutory Acts/Rules, Standards, Specifications and Codes

- 3.1 All components shall conform to relevant Indian Standard Specifications, wherever existing, as amended up to date.
- 3.2 The work shall be carried out in accordance with the CPWD General Specifications for Electrical Work Part-I (Internal) 2023 and Part-II (External) 2023, as amended upto date. All installations shall comply with the requirement of Indian Electricity Rules 1956 as amended up to date.
- 3.3 No claim for defective material brought by the contractor and not approved by the Engineer-in-Charge shall be entertained.
- 3.4 The persons executing the electrical work should have, the valid electrical license issued by the competent authority.
- 3.5 The contractor is bound to sign the site order book, as and when required, by the Engineer-in-charge and carryout the instruction recorded therein.
- 3.6 All debris/malba generated while carrying out electrical work shall be removed and shall be cleared by contractor as soon as the work is completed.
- 3.7 No T & P will be issued by the Department. All T&P required for the execution of work shall be arranged by the contractor at his own cost and nothing extra shall be paid on this account.

4.0 ORDER OF PREFERENCE

Should there be any difference or discrepancy between the descriptions of items as given in the schedule of quantities, technical specifications for individual items of work(including additional and commercial conditions) and IS Codes etc. The following order of preference shall be followed:

- a. Schedule of quantities.
- b. Additional and commercial conditions.
- c. Technical specifications specified in the tender.
- d. General conditions of contract for CPWD works.
- e. Drawings.
- f. CPWD General specifications.
- g. Relevant IS or any other international in case IS code is not available.

5.0 WORK TO BE DONE AT SITE.

Unless otherwise mentioned in the tender documents, the following works shall be done by the contractor and therefore, their cost shall be deemed to be included in the tendered cost-whether specifically indicated in the Schedule of Work or not: -

- a) Minor building works necessary for installation of equipment's, foundation, making of opening in walls or in floors and restoring them to their original condition / finish and necessary grouting etc. as required.
 - b) All supports for cables and MS channel for erection of panels etc. as are necessary.
 - c) Necessary vibration isolation spring / pads for equipment's.
 - d) All supports for bus trunking (if included in scope of contract), cables, and MS channel for erection of panels & E&M equipments etc. as are necessary.
 - e) Foundations for equipment including foundation bolts and vibration isolation spring/pads,
 - f) Suspenders, brackets and floor/wall supports for suspending/supporting pipes.
 - g) Suspenders and/or cable trays for laying the cables,
 - h) Excavation and refilling of trenches in soil wherever the pipes are to be laid directly in ground, including necessary base treatment and supports.
 - i) Sealing of all floor slab/wall openings provided by the Department or made by the contractor for pipes and cables, from fire safety point of view, after laying of the same.
 - j) Painting of all exposed metal surfaces of equipment and components with appropriate colour as per fire regulations.
 - k) All electrical works including cable/wires, earthing etc. beyond power supply made available by the department.
 - l) Making good all damages caused to the structure during installation and restoring the same to their original finish.
 - m) All tools and tackles required for unloading / handling of equipment and materials at site, their assembly, erection, testing and commissioning shall be the responsibility of the contractor.
- n) All sundry equipment, fittings, assemblies, accessories, hardware items, foundation bolts, supports, termination lugs for electrical connections, cable glands, junction boxes and all other items which are useful and necessary for proper assembly and efficient working of the various equipment and components of the work shall be deemed to have been included in the tender, irrespective of the fact whether such items are specifically mentioned in the tender or not.

6.0 Inspection of materials and equipment's

- 6.1 All materials shall be guaranteed for a period, as specified by the manufacturer, from the date of installation and taking over by the client. Against unsatisfactory performance and / or break downs due to defective design, workmanship of material, the equipments or components, or any part thereof, so found defective during the guarantee shall be forthwith repaired or replaced free of cost, to the satisfaction of the Engineer-in-Charge.
- 6.2 Payment shall be made as per CPWD specification .
- 6.3 The Contractor shall preserve the copies of invoices, test certificates, gate passes etc. to prove the Genuineness of material / purchases. The responsibility of procurement of genuine material of specialized makes shall rest with the contractor.

7.0 Guarantee

7.1 The contractor shall guarantee among other things, the followings

- (a) Quality, strength and performance of the materials used as per manufacturers standards.
- (b) Safe mechanical and electrical stress on all parts at specified conditions of operation.
- (c) Satisfactory operation during the maintenance period.

7.2 All equipments shall be guaranteed 12 months from the date of taking over of the installation by the department, against unsatisfactory performance and/or break down due to defective design, workmanship or material.

The equipments or components, or any part thereof, so found defective during guarantee period shall be forthwith repaired or replaced by the contractor free of cost, to the satisfaction of the Engineer-in-Charge. In case, undue delay is caused by the contractor in doing this, the same will be got done by the department at the risk and cost of contractor. The decision of Engineer-in-Charge in this regard shall be final and binding.

The contractor shall ensure adequate & prompt after sales service “free of cost” during guarantee period, in the form of maintenance, spares and personnel, as and when required during normal life span of the equipments and shall minimize the breakdown period.

8.0 Rates

8.1 The contractor shall quote the rates for all items inclusive of all taxes (including works contract tax), duties & levies (but excluding service tax) and all charges for packing, forwarding, insurance, freight and delivery, installation, testing, commissioning etc. at the site including temporary constructional storage, risks, overhead charges, general liabilities/obligation etc. Nothing extra shall be payable on this account.

8.2 Building and other construction workers welfare cess will be deducted @ 1% from the gross amount of the contractor bills.

8.3 GST/ Work Contract Tax / Security Deposit / Income Tax and any other tax as applicable, will be recovered from the contractor's bill. The rates should be inclusive of all taxes / duties / levies etc. Nothing extra shall be paid on any account.

9.0 COMMERCIAL CONDITIONS

9.1 TYPE OF CONTRACT: The work to be awarded by this tender shall be treated as indivisible work contract.

a. **Completeness of the tender:** All sundry equipment's, fittings, assemblies, accessories, hardware items, foundation bolts, supports, termination lugs for electrical connections, cable glands, junction boxes and all other sundry items for proper assembly and installation of the various equipment's and components of the work shall be deemed to have been included in the tender, irrespective of the fact that whether such items are specifically mentioned in tender documents or not.

- b. **Submission of programme:** Within fifteen days from the date of receipt of the letters of acceptance, the successful tenderer shall submit his programme for submission of drawings, supply of equipment's, installation, testing, commissioning and handing over of the installation to the Engineer- in-charge. This programme shall be framed keeping in view the building progress.
- c. **Submission of Drawings:** The contractor shall submit the drawings to the Engineer-in-charge for approval before start of work.

Commencement of Work: The contractor shall commence work as soon as the drawings submitted by him are approved.

10.0 Handing over of installation

Completed work is to be handed over to the department. However any defect pointed out by the department at the time of handing over is to be rectified by the contractor. Nothing extra shall be paid on this account.

11.0 MATERIAL APPROVAL

The material brought at site shall be approved by the Engineer-in-Charge before use in the work. In case during execution any material being used in the work is found not as per agreement specifications, Engineer-in-Charge may issue instruction to the contractor to remove the materials from site and the contractor will be found to do so.

The cubicle HT/LT panel boards shall be fabricated by an approved panel fabricator.

12.0 INSPECTION AND TESTING:

- a. Copies of all documents of routine and type test certificates of the equipment, carried out at the manufacturers premises shall be furnished to the Engineer-in-charge and consignee.
- b. After completion of the work in all respect the contractor shall offer the installation for testing and operation.
- c. All major equipment's shall be offered for initial inspection at manufacturer's works. The contractor will intimate the date of testing of equipments at the manufacturer's works before dispatch. The successful tenderer shall give advance notice of minimum two weeks regarding the dates proposed for such tests to the department's representative to facilitate his presence during testing. The Engineer-in-charge may witness such testing.
The cost of the Engineer's visit to the factory will be borne by the Department. Equipment's will be inspected at the manufacturer/Authorized Dealers premises, before dispatch to the site by the contractor if so desired by the Engineer-in-charge.

13.0 PAINTING:

This shall include cost of painting of entire exposed iron work complete in the installation. All equipment's works shall be painted at the works before dispatch to the site.

14.0 TRAINING

The contractor shall impart training to the operator deputed by the Client department /CPWD at site for operational and attending the minor fault.

15.0 All dismantled materials shall be taken by the agency as buy back is proposed in this tender.

16.0 The materials used in the work shall be one of the approved makes mentioned in Annexure-A.

17.0 DESPATCH OF MATERIALS TO SITE AND THEIR CUSTODY

The contractor shall dispatch materials to site in consultation with the Engineer- in-Charge. Programme of dispatch of material shall be framed keeping in view the building progress. Safe custody of all equipment / items supplied by the contractor shall be the responsibility of the contractor till final taking over by the department.

18.0 QUALITY OF MATERIALS AND WORKMANSHIP

- a. The components of the installation shall be of such design so as to satisfactorily function under all conditions of operation.
- b. The entire work of manufacture/fabrication, assembly and installation shall conform to sound Engineering practice.
- c. All equipment and materials to be used in work shall be manufactured in factories of good repute having excellent track record of quality manufacturing, performance and proper after sales service.

19.0. RESTRICTION IN WORK

Some restrictions may be imposed by the security staff etc. on the working and/or movement of labour, materials etc. The contractor shall be bound to follow all such restrictions/instructions and nothing extra shall be payable on this account. No claim for idle labour shall be entertained.

20.0. SAFETY CODES AND LABOUR REGULATIONS

- a. In respect of all labour employed directly or indirectly on the work for the performance of the substation contractor's part of work, the contractor at his own expense, will arrange for the safety provisions as per the statutory provisions including "Safety, Health and Environment Handbook 2019" published by CPWD, B.I.S recommendations, Factory Act, Workman's Compensation Act, CPWD Code and instructions issued from time to time. Failure to provide such safety requirements would make the tenderer liable for penalty to be decided by Engineer-in-charge. In addition, the Engineer-in-charge shall be at liberty to make arrangements and provide facilities as aforesaid and recover the cost incurred thereon from the contractor.
- b. The contractor shall provide necessary barriers, warning signals and other safety measures while laying pipelines, cables etc. or wherever necessary so as to avoid accident. He shall also indemnify CPWD against claims for compensation arising out of negligence in this respect. Contractor shall be liable, in accordance with the Indian Law and Regulations, for any accident occurring due to any cause. The department shall not be responsible for any accident occurred or damage incurred or claims arising there from during the execution of work. The contractor shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the contractor due to the above provisions thereof.

- c. If any accident/injury happened to the worker in course of duty, the sole responsibility lies on the contractor for accident/ injury compensation etc and the department is not liable, for accident/ injury and compensation, damages etc, in anyway.

21.0. NATURAL CALAMITY

No payment will be made to the contractor for any damage caused by rain, snow fall, floods, dampness, fire, sun or any other natural cause whatsoever during the execution of work. The damage to the work due to above reasons, if any, shall have to be made good by the contractor at this own cost and no claim on this account shall be entertained.

22.0. CARE OF BUILDING

Care shall be taken, while handling / installing the equipment, to avoid damage to the building. The Contractor shall arrange to repair all damages to the building caused by him so as to bring to the original condition. He shall also arrange to remove all unwanted waste materials from site, arising out of his work.

The Contractor shall carry out the work in such a manner so as not to interfere or affect or disturb other works being executed by other agencies if any. No claim in the matter shall be entertained.

23.0. COMPLIANCE WITH REGULATIONS AND INDIAN STANDARDS:

- a. All works shall be carried out in accordance with relevant regulation, both statutory and those specified by the Indian Standards related to the works covered by this specification. In particular, the equipment and installation will comply with the following:
 - a) Factories Act.
 - ii) Indian Electricity Rules.
 - iii) B.I.S & Other standards as applicable.
 - iv) Workmen's ompensation Act.
- b. Nothing in this specification shall be construed to relieve the successful tenderer of his responsibility for the design, manufacture and installation of the equipment with all accessories in accordance with currently applicable statutory regulations and safety codes.
- c. Successful tenderer shall arrange for compliance with statutory provisions of safety regulations and departmental requirements of safety codes in respect of labour employed on the work by the tenderer. Failure to provide such safety requirement would make the tenderer liable for penalty as per prevailing rules for each default. In addition, the department will be at liberty to make arrangement for the safety requirements at the cost of tenderer and recover the cost thereof from him.

24.0. INDEMNITY:

The successful Bidder shall at all times indemnify the department, consequent on this works contract. The successful Bidder shall be liable, in accordance with the Indian Law and Regulations for any accident occurring due to any cause and the department shall not be responsible for any accident or damage incurred or claims arising there from during the period of erection, construction and putting into operation the equipment's and ancillary equipment under the supervision of the successful bidder in so far as the latter is responsible. The successful Bidder shall also provide all insurance including third party

insurance as may be necessary to cover the risk. No extra payment would be made to the successful Bidder due to the above.

25.0. ERECTION TOOLS:

No tools and tackles either for unloading or for shifting the equipment's for erection purposes would be made available by the department. The successful Bidder shall make his own arrangement for all these facilities.

26.0. COOPERATION WITH OTHER AGENCIES:

The successful bidder shall co-ordinate with other contractors and agencies engaged in the construction of building, if any, and exchanges freely all technical information so as to make the execution of this works contract smooth. No remuneration should be claimed from the department for such technical cooperation. If any unreasonable hindrance is caused to other agencies and any completed portion of the work has to be dismantled and re-done for want of cooperation and coordination by the successful Bidder during the course of work, such expenditure incurred will be recovered from the successful Bidder if the restoration work to the original condition or specification of the dismantled portion of the work was not under taken by the successful Bidder himself.

27.0. MOBILIZATION ADVANCE:

Mobilization advance shall be decided as per Part-A.

28.0. INSURANCE AND STORAGE:

All consignments are to be duly insured upto the destination from warehouse to warehouse at the cost of the supplier. The insurance covers shall be valid till the equipment is handed over duly installed, tested and commissioned.

29.0 VERIFICATION OF CORRECTNESS OF EQUIPMENT AT DESTINATION:

The contractor shall have to produce all the relevant records to certify that the genuine Equipment form the manufactures has been supplied and erected.

30.0. COMPLETION PERIOD

The completion period indicated in the tender documents is for the entire work of planning, designing, approval of drawing etc., arrangement of materials & equipments, delivery at site including transportation, installation, testing, commissioning and handing over of the entire system to the satisfaction of the Engineer-in- charge.

31.0 MAINTENANCE:

- a. Sufficient trained and experienced staff shall be made available to meet any exigency of work during the guarantee period of one year from the handing over of the installation.
- b. The maintenance, routine as well as preventive for one year from the date of taking over the installation as per manufacturer's recommendation shall be carried out and the record of the same shall have to be maintained.

COMMERCIAL AND TECHNICAL SPECIFICATIONS FOR INTERNAL ELECTRICAL INSTALLATIONS

1. The work shall be carried out in accordance with the CPWD General Specification for electrical works (Part I Internal 2023, Part II external 2023 & Part –IV Sub Station 2013 as amended up to date. The installation shall comply with the requirements of Indian Electricity Act as amended up to date and NEC 2011.
2. The conduit layout / drawings for panels / other documents pertaining to E&M services and information in the following format shall have to be submitted for evaluation & approval, **in association with respective Associate Contractor (selected by successful bidder / Main Contractor) within 30 days** of award of work.

S No	E&M Work	Information to be furnished by the successful bidder
1	Internal Electric Installation	Single line diagrams for distribution of power and lighting, panel drawings, conduit layout, cable routing, earth locations, detailed technical particulars of all items proposed to be used etc.

3. The above schemes of all the E&M works shall have to meet all the requirements of local bodies / CEA/ NBC norms as applicable& also meet the technical specifications of various relevant CPWD specifications for electrical & mechanical services.
4. All the above schemes shall be got approved as applicable before commencement of execution of work at site. During execution, if the local bodies etc. require a modification, the same shall be executed. Finally, after execution preparation of documents required for approvals / NOCs / clearances from local bodies etc. shall be the responsibility of successful bidder for which nothing extra is payable. In case any modification / extra work is required, the same will be paid as per relevant clauses of the agreement. All statutory fees / charges required for obtaining clearances from CEA / Local Bodies shall be paid by the contractor and the same shall be reimbursed on submission of documentary proof.
5. Executive Engineer (Elect.) shall be the Engineer-in-Charge as far as electrical works are concerned.
6. The main agency shall be responsible for all acts of omissions and submissions of the electrical contractor or sub-contractor engaged by him.
7. Approval of the Engineer-in-charge shall be taken well in advance for all the materials to be supplied and used in all the works by the contractor.
8. Payments terms:

On account payments for part work (after stipulated and statutory deductions) as assessed by the Engineer – in-charge for the applicable items in the Contract shall be payable at part rates not exceeding the percentage indicated against the stages of work.

- Items connected with point wiring, circuit wiring, sub-main wiring, power point wiring and light plug wiring.

Sl. No.	Stage of work	Percentage of quoted Rate
a	On laying of conduits with accessories, switch boxes, etc.	25% wiring components
b	On drawing of wires i/c terminations, switches, sockets, cover plates etc.	60% wiring components
c	On completion of item and after testing and Commissioning.	10%
d	At the time of payment of final bill	5%

Items of Distribution Boards, MCBs , RCCB, LED fittings , & Other items

Sl. No.	Stage of work	Percentage of quoted Rate
a	On initial inspection of material and delivery at site in good condition on pro rata basis	70%
b	On completion of installation on pro rata basis	15%
c	On completion testing and Commissioning.	10%
d	At the time of payment of final bill	5%

For other items, the part rates will be decided by the Engineer-In-Charge of the work and shall be binding on the contractor.

- The main contractor shall be responsible for coordinating the activities of all works and will ensure progress of works as per laid down programme.
- The main contractor and / or his Associated electrical Contractor or his representative is bound to sign the site order book as and when required by the Engineer-in-charge and will comply with the remarks therein.
- The connections, inter-connections, earthing and loop earthing shall be done by the contractor wherever required to be done for energisation of the installation and nothing extra shall be paid on this account.

12. The contractor must be able to work on concrete slabs / walls as and when required and in complete coordination with the civil works. Cutting of chases in the plastered wall shall in no case be allowed. The contractor shall fix conduits and boxes in the walls soon after the brick work is completed and finish the chase to rough surface with proper cement sand mixture. Only in exceptional cases e.g. where cutting of plastered surface cannot be avoided it will be contractor's responsibility to ensure that plastering is done to match the original finish at no extra cost.
13. The contractor shall remove all the debris due to the electrical works from the site as soon as the work is completed.
14. The wiring and conduit route shall be marked by the contractor in the drawing first, and shall be got approved from the Engineer-in-charge.
15. Some light points in lobby / corridors/ stair case/ lift shaft etc are group controlled which will be measured as per Items mentioned under C-I.
16. The rupturing capacity of the MCB's shall be 10 KA. The MCB's shall have ISI mark. Quantities of MCBs of different rating of 6 amps to 32 amps shall be brought in consultation with the Engineer-in-Charge or his representative.
17. All the MCCBs shall be rated for $I_{cs}=100\%I_{cu}$
18. The copper wire to be used on this work shall be FRLS type and ISI marked.
19. The make of switch boxes shall be the same as that of switches. Only the required knockouts of the switch boxes are to be removed for terminating the conduit pipes with PVC glands / Make of MCB/MCCB shall be the same as the make of MCB DB.
20. All the switch boxes, MCBDBs are to be covered with plastic sheet / petroleum gelly when installed in brick work till the plastering / painting is done to avoid sticking of cement plaster/ splashes of the paint. Cement plaster / paint are to be cleaned immediately after plaster to avoid rusting of switch boxes and MCB DBs. The plastic sheet is to be removed at the time of handing over.
21. The Electrical works shall be carried out by the contractor, side by side with the progress of the civil works.
22. The Contractor shall furnish documentary proof like delivery challans of purchasing Wires, Modular switches & accessories, MCBs, MCBDB, Fittings, accessories and other items from the manufacturers or their authorized dealers to the satisfaction of the Engineer-in-charge.
23. All PVC conduits accessories shall be of the same make as conduits. The Conduits shall be terminated at switch boxes/metallic junction boxes with suitable PVC glands/check nuts.

24. Cutting of brick walls shall be with chase cutting machine only. All repairs and patch works shall be neatly carried out to match the original finish and to the entire satisfaction of the Engineer in Charge.
25. All the sub main and circuit wiring includes loose wire for connections inside switch boxes and MCB DB s. No payment for these loose wires shall be made.
26. All the circuits / sub-main wiring are to be suitably numbered with stickers at LT panel, MCBDBs, switch boards (on backside of cover plate) for ease of maintenance. Nothing shall be paid extra on this account.
27. The contractor shall submit the completion plan separately in triplicate on blue print/ computer plotted with one set on tracing —Cloth as per Clause-8A of the contract within 30 days of the completion of work.
28. To facilitate drawing of wires, 18 SWG GI fish wire shall be provided along with laying of recessed conduit for which no extra payment shall be made. Conduits laid for other services, like fire alarm, PA etc., where wiring is not done along with IEI works, fish wire shall be invariably drawn.
29. Copper conductor of insulated cables of size 1.5 Sq.mm and above shall be stranded and terminals provided with crimped lugs.
30. All MS junction box cover should be of phenolic laminated sheet of thickness not less than 3mm and for which nothing extra shall be paid on the account.
31. All sub-main/circuit/power wiring shall be terminated in the main board/switch boards with suitable copper lugs and thimbles for which nothing extra will be paid on this account.
32. All hardware items such as screws, thimbles, GI wire etc. which are essentially required for completing an item as per specifications will be deemed to be included in the item even when the same have not been specifically mentioned.
33. All hardware items such as nuts/ bolts/ screws/ washers etc. to be used in work shall be zinc/ cadmium plated iron.
34. Any conduit which is not be wired by the contractor shall be provided with GI fish wire for wiring by some other agency subsequently. Nothing extra shall be paid for the same.
35. While laying conduit, suitable size junction boxes shall be provided for pulling the wire as per the decision of the E-in-C.
36. Materials to be used in work are to be ISI marked. The make of the materials have been indicated in the list of acceptable makes. No other makes will be acceptable. The materials to be used in the
37. Work shall be got approved by the Engineer in Charge / his representative before its use at site. The E-in-C shall reserve the right to instruct the contractor to remove the material which, in his opinion, is not acceptable.

38. Where switches/ sockets/ regulator/ telephone/ TV / internet outlets are to be provided, the same shall be of only one make.
39. While laying conduits for fire alarm system, sufficient junction outlets are to be provided as per the direction of the Engineer-in-Charge for detectors as required, for which no extra payment shall be made.
40. Wherever light fittings are proposed to be provided on the false ceiling, the respective light / fan point wiring will have to be brought upto the terminal of the light fittings / fans by the contractor. Flexible metal conduits shall be used for drawing wires from PVC conduits on ceiling to fittings on false ceiling and nothing extra shall be paid to the contractor for the same. The height from false ceiling to ceiling is about 1.2 metres.
41. 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.
42. All LT UG Cables should be labeled with engraved Plastic PVC Sheet both the ends for identification as per direction of engineer in charge
43. 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
44. **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.**
45. The LED fittings shall give an output of not less than 80 lumen/watt. CRI should be not less than 80 for the indoor fittings and not less than 70 for outdoor fittings.
46. **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.**
47. **50 % of the performance guarantee shall be refunded to the contractor soon after the completion of the work and recording of the completion certificate.**
48. **50 % of the performance guarantee shall be retained as security deposit.**
49. **50 % of the performance guarantee retained as security deposit plus 2.5 % security deposit already deducted from running bills (total 2.5 + 2.5 = 5 %) shall be refunded year wise proportionately.**
50. **Replaced LED fittings to be marked with month & year of installation for future warranty claims.**

51. **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.**
52. **Split type AC units and cassette AC units shall be guaranteed for a period of minimum 1 year, all the other equipment such as PCB, compressor etc. shall be warrantied as per OEM and necessary Warranty Certificate shall be submitted.**
53. **UPS shall be guaranteed for a period of minimum 1 year, and battery for minimum – 2 year warranty etc shall be warrantied as per OEM and necessary Warranty Certificate shall be submitted.**
54. **RO water dispenser shall be guaranteed for a period of minimum 1 year, shall be warrantied as per OEM and necessary Warranty Certificate shall be submitted**
55. **All (Except LED fittings) equipments 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.**
56. **In case of LED bulbs/fittings all the LED bulbs/fittings shall be guaranteed for a period of 5 years. Before completion of defect liability period of one year, the main contractor has to submit security deposit of 5% of price quoted by him for SITC of LED fittings, for the remaining 4 years warranty period in acceptable form i.e. FDR/Bank guarantee to concern Executive Engineer (E). The Security Deposit deducted from the bills of contractor shall be refunded to the main contractor only after submission of above security deposit for LED fittings by main contractor, failing which this LED security deposit @ 5% as above shall be deducted from Security Deposit deducted for total work and balance amount only will be refunded after completion of defect liability period. The LED Security Deposit will be released after successful completion of the five year warranty of LED fittings**

57. **The Panel fabrication shall be from any of the panel builders approved having in house 7 tank process, powder coating facility, CNC Machine having CPRI approved for relevant bus bar rating OR from any of the panel builders approved as per IS 61439 & by any of the OEMs of MCCB. The panel drawings shall be got approved prior to fabrication.**
58. Warranty certificates, wherever specified shall be from the Original Manufacturer / their authorized stockist / service partner & shall be submitted along with the bill.
59. The layouts of IE, Firefighting, fire alarm, Earthing, Lightening arrester works etc to be submitted to the department and got approved from the department before start of civil works. Being a fully RCC building the sleeves for the firefighting sprinkler, Hydrant pipe etc. are to be planned in advance to avoid cutting /chasing the RCC wall in latter stage.
60. Along with the CPWD Specifications for the respective works, the following specification are also to be observed.
61. Lightening protection should be provided in accordance with SETC Pamphlet no 17.
62. Fire point shall be provided with each building as per para 2 of STEC 15.
63. Fire protections and fire fighting arrangements in explosive establishments shall be as per STEC pamphlet no 15.

LIFT

SPECIFICATIONS AND COMMERCIAL CONDITIONS

PASSENGER LIFT

1.0 GENERAL: This specification covers general information and particulars relating to this specification.

1.1 This specification covers manufacture, testing as may be necessary before dispatch, delivery at site, all preparatory work, assembly and installation work, commissioning, putting into operation of lifts and allied works and handing over of equipment covered by this specification. This detailed specification will form part of the works contract with the successful tenderer. The tenderer is requested to ensure that all schedules are filled in on-line and information is supplied in the format of the schedules. Failure to do so will render the tender incomplete and liable for rejection. Should the tenderer wish to depart from the provisions in this specification, commercial or technical, such departures should be listed and submit full particulars and reasons for the departure and will be required to operate under the climatic conditions as indicated in the **Annexure “A”**

2.0 PAYMENT TERMS:

2.1 The following percentage of contract rates shall be payable against the stages of work shown herein:

Sl. No.	Stage of Work	Lifts equipment complete with controller, motors, counter weight, Lift car / landing materials
I)	After initial inspection (wherever specified) & delivery at site in good condition on pro-rata basis	70%
II)	On completion of installation on pro-rata and trial run	20%
III)	On commissioning	5 %
IV	On testing and handing over	5 %

The payment to the contractor for supply of items will only be made against submission of test certificates. Engineer-in-charge has full power to verify the genuineness of the material.

3.0 WORK TO BE DONE BY THE TENDERER

11.1 In addition to supply, installation, testing and commissioning of lift, following works shall be deemed to be included within the scope of work to be executed by the tenderer as this is a turn key job:

- (i) Minor building works necessary for installation of equipments such as making of opening in walls/floors either of RCC or brick masonry etc., and restoring them to their

original condition and finish. The scope of minor building work includes all grouting of foundation concrete pads to be formed or made as base for supporting R.S. Joists etc., grouting and anchoring of all boards, clamps, supports, foundation bolts, installation in position of R.S. Joists in the machine room, lift well or in pit. Such works shall cutting of marble work and construction of partition wall wherever involved.

- (ii) Supply of necessary R.S. Joists or angle iron supports brackets etc., for installation of the lift, either in the machine room or at other places as may be necessary including their installation in position.
- (iii) All electrical works except bringing the main connection and earth connection to the machine room terminated on switch fuse unit/board. All electrical works including inter connection from the switch/board and loop earthing from the earth bar to be provided in the machine room shall be done by the successful tenderer.
- (iv) Responsibility to ensure safety of lift materials against pilferage and damage till the installation is handed over to the consignee.
- (v) All scaffolding as may be necessary in the lift well during erection work and subsequently removed.
- (vi) Temporary barricades with caution boards at each landing to prevent accident during execution work.
- (vii) Supply and installation of landing facia plates made of steel, car apron plates, sill support angles with necessary clamps, foundation bolts, supports etc., as necessary in connection with the installation of the lift.
- (viii) Steel ladder to be provided for access to lift pit wherever required under regulations.
- (ix) Approval / clearance of lift installation shall be obtained by the contractor from Lift inspector / other licensing authorities, wherever required. However, application shall be made by Department and the fees, as applicable, shall be paid by the contractor directly to the Govt. authorities concerned, which shall be reimbursed.
- (x) The contractor has to arrange extra length supports / brackets etc if any, within the quoted rate. Nothing extra will be paid.
- (xi) Electrical wiring and provision of power outlets and fittings in Lift Shaft
- (xii) The Scope of work includes getting lift license, insurance from the Local bodies.

4.0 GUARANTEE:

All equipments shall be guaranteed for a period of 12 months from the date of taking over the lifts unit wise by the department, against unsatisfactory performance and / or break down due to defective design, workmanship or material. The equipments or components, or any part thereof, so found defective during guarantee period shall be forthwith repaired or replaced free of cost, to satisfaction of the Engineer-in-Charge. In case it is felt by the department that undue delay is being caused by the contractor in attending the defect/fault removed, the same will got done by the department at the risk and cost of the contractor. The decision of the Engineer-in-charge in this regard shall be final.

5.0 DRAWINGS FOR APPROVAL & COMPLETION DRAWINGS

5.1 Drawing for approval on award of the work

The contractor shall prepare & submit three sets of following drawings and get them approved from the Engineer-in-Charge before start of the work. The approval drawings, however, does not absolve the contractor not to supply the equipments/materials as per agreement, if there is any contradiction between the approved drawings and agreement.

- a) General arrangement drawings of the Lift machinery, Controller, Guide rails, Lift car and landing doors etc with complete dimensions.
- b) Any other drawings relevant to the work.

5.2 Drawings / Documents to be furnished on completion of installation

- 5.2.1 Three sets of the following drawings shall be submitted by the contractor while handing over the installation to the Department. Lift installation drawings giving complete details of all the equipments including their foundations.
- 5.2.2
 - i) Manufacturer's technical catalogues of all equipments and accessories.
 - ii) Operation and maintenance manual of all major equipments, detailing all adjustments, operation and maintenance procedure.
- 5.2.3 Otherwise a sum of equal to 2.5% of the value of the work of this component subject to the ceiling of Rs. 50,000/- (Rupees Fifty thousand) shall be recovered from the contractor.

6. COMPLIANCE WITH REGULATIONS:

- 6.1 After completion of the installation, the same shall be offered for inspection by the representatives of the Lift Inspector. The contractor shall prepare and submit necessary drawings, test certificates, other documents etc. for submission to the Lift Inspector or any other Electrical Inspector for obtaining approval for commissioning the lift. It shall be the responsibility of the Contractor to liaison with / coordinate with such inspecting authority for obtaining the approval for the installation. The contractor will extend all help including test facilities to the representatives of Lift Inspector. The observations of the Lift Inspector will be attended by the contractor. Nothing extra shall be payable to the Contractor on this, accord. However any fees paid to the Inspecting authority on this account shall be reimbursed by the Department. The lift will be commissioned only after getting clearance from Lift Inspector.

7.0 MATERIAL APPROVAL

The material brought at site shall be approved by the Engineer-in-Charge before use in the work. In case during execution any material being used in the work is found not as per agreement specifications, Engineer-in-Charge may issue instruction to the contractor to remove the materials from site and the contractor will be bound to do so.

SECTION – A
DETAILED TECHNICAL SPECIFICATIONS AND REQUIREMENTS

1.	Name of Work	“Replacement of existing old lifts with new 3 Nos 13 Persons (884 Kgs) Passenger lift (G+6) and One Goods Lift (G+6) <u>including maintenance for 5 years</u> at Krishna Block at Custom House, Chennai-01”.
2.	Consignee's Address	Krishna Block, Custom House, Chennai-01.
	Information regarding Tender	
3.	Hoist way and machine room	Machine Room Type
4.	Specification drawing. No.	NIL
5.	Alternate offer required	NIL

I. General particulars and requirements for Passenger lifts:

1	Type of Lift	Machine Room Type Passenger lift.
2	No. of lifts required	3 Nos
3	Load / No. of persons	13 Persons (884 Kgs)
4	Rated speed	1.5 meter per second

5. Details of Lifts

Sl. No.	Location	Number of Lifts	Total travel in metres (approximate)	Number of floors served	Number of landing served
1	Krishna Block, Custom House, Chennai-01.	03	23 Mtrs Approx	(G + 6) Floors	7

6.	Position of counter Weight	:	Adjacent side
7.	Type of operation and control of lift	:	Automatic-cum-attendant
8.	Construction, design of car body Side walls & rear walls of car body	:	1.5 mm thickness Stainless steel car Moon rock finish with 1.5 mm nominal thickness
a	Entrance door of car body	:	1.5mm thickness stainless Moon rock finish
b	Landing door of car body	:	1.5mm thickness stainless Moon rock finish
9.	Emergency light & Emergency	:	Should be battery operated alarm
10.	Illumination of car	:	LED Lighting.
11.	Fan	:	Cabin fan with protective guard recessed in car

			roof, and switch
12.	Intercom facilities	:	3 way intercom between car, ground floor /reception and machine room
13.	Indication in the car	:	i. Landing call registration ii. Floor position. iii. Direction of travel. iv. Attendant / Auto operation
14.	Indicators at landing	:	a. Car position. ii. Direction of travel.
15.	Push button in car	:	i. One button for each landing. ii. Additional buttons as per CPWD Specification
16.	Push button in landing and 2 buttons in	:	One button at top and ground floor landing intermediate floors.
17.	Type of drive and control	:	Gear less drive - VVVF & microprocessor control
18.	Factor of safety	:	10
19.	Type of leveling	:	Two way automatic and accuracy Maintaining ± 5 mm accuracy.
20.	Safeties	:	As per CPWD Specification (Part III Lifts and Escalators-2003) as amended upto date
21.	Locks	:	Electro – mechanical, special key to Open lock at every landing in Emergency (emergency opening shall be feasible at all landings).
22.	Buffers	:	Spring buffers for lift car and counter weight.
23.	Power supply	:	<u>415 volts, 3 phase, 4 wire, 50 HZ, AC supply with a tolerance of $\pm 10\%$ voltage and $\pm 2\%$ on frequency.</u>
24.	Automatic Rescue device	:	Battery operated automatic rescue device to bring the car to the nearest landing in the event of break down due to power failure as well as controller or system failure, battery.

II. General particulars and requirements for Good lifts:

1	Type of Lift	Machine Room Type Goods lift.
2	No. of lifts required	1 No
3	Load / No. of persons	Good lift (1000 Kg)
4	Rated speed	0.75 meter per second

5. Details of Lifts

Sl. No.	Location	Number of Lifts	Total travel in metres (approximate)	Number of floors served	Number of landing served
1	Krishna Block, Custom House, Chennai-01.	01	23 Mtrs Approx	(G + 6) Floors	7

6.	Position of counter Weight	:	Adjacent side
7.	Type of operation and control of lift	:	Automatic-cum-attendant
8.	Construction, design of car body Side walls & rear walls of car body	:	1.5 mm thickness Stainless steel car Moon rock finish with 1.5 mm nominal thickness
a	Entrance door of car body	:	2.5mm thickness stainless Moon rock finish
b	Landing door of car body	:	1.5mm thickness stainless Moon rock finish
9.	Emergency light & Emergency	:	Should be battery operated alarm
10.	Illumination of car	:	LED Lighting.
11.	Fan	:	Cabin fan with protective guard recessed in car roof, and switch
12.	Intercom facilities	:	3 way intercom between car, ground floor /reception and machine room
13.	Indication in the car	:	v. Landing call registration vi. Floor position. vii. Direction of travel. viii. Attendant / Auto operation
14.	Indicators at landing	:	b. Car position. ii. Direction of travel.
15.	Push button in car	:	i. One button for each landing. ii. Additional buttons as per CPWD Specification
16.	Push button in landing and 2	:	One button at top and ground floor landing

	buttons in		intermediate floors.
17	Type of drive and control	:	Gear less drive - VVVF & microprocessor control
18	Factor of safety	:	10
19	Type of leveling	:	Two way automatic and accuracy Maintaining ± 5 mm accuracy.
20	Safeties	:	As per CPWD Specification (Part III Lifts and Escalators-2003) as amended upto date
21	Locks	:	Electro – mechanical, special key to Open lock at every landing in Emergency (emergency opening shall be feasible at all landings).
22	Buffers	:	Spring buffers for lift car and counter weight.
23	Power supply	:	<u>415 volts</u> , 3 phase, 4 wire, 50 HZ, AC supply with a <u>tolerance of $\pm 10\%$ voltage</u> and $\pm 2\%$ on frequency.
24	Automatic Rescue device	:	Battery operated automatic rescue device to bring the car to the nearest landing in the event of break down due to power failure as well as controller or system failure, battery.

25. Special requirements

- i) Infra red curtain door safety.
- ii) Opening of all landing doors with the help of emergency key.
- iii) Wire mesh guard for counter weight in pit, as well as midway in the shaft where the car crosses the counter weight.
- iv) Fireman's switch control in Ground floor.
- v) Floor position annunciation system with music besides the annunciation should include a set of Dos & Don'ts for the passengers in the car, suitable for normal and various types of breakdown situations, in Hindi, English & Regional language.
- vi) A TOE GUARD, to protect accidental fall into the lift shaft by persons getting down from the lift car, when the car is in midway between two landings during breakdown situations.
- vii) This toe guard shall be for the full width of the car & for a height of not less than 700mm. This shall be made of MS sheet of appropriate thickness with necessary frame and shall be internally braced to have rigidity & mechanical strength.
- viii) In order to prevent stranded passenger inside the lift car coming out without the help & guidance of rescue personals, the landing door should not be openable, except by authorized rescue personnel.

26. Special requirements (for lift to be used by differently abled passengers)

- a. A hand rail not less than 600 mm long at 900 mm above floor level shall be fixed on all 3 sides.
- b. Lift control shall be through Braille buttons and their operation should involve minimum effort. Provisions given in Persons with Disabilities (Equal Opportunities, Protection of Rights and Full Participation) Act 1995 relevant to lifts shall be fully incorporated.
- c. The control panel inside the car, the landing control / push buttons at the landings shall be at a height of 900 mm from car/landing floor levels.
- d. Voice announcement system in the car to announce the position of the elevator in the hoist way as the car passes or stops at a floor served by and indicate cage is either open or closed.
- e. The Braille signage will be posted outside the lift.
- f. The emergency light and alarm shall be connected to the storage battery provided for ARD.
- g. The lift shaft shall be provided by CPWD electrical wing with 1 no. 5 Amps 3 pin socket outlet and 1 no. LED bulk head luminaries at every landing and electrical wiring shall be carried out using PVC insulated copper conductor FRLS single core cables in PVC conduits and generally conform to CPWD General Specifications for Electrical Works Part I (Internal) 2023 as amended up to date

ADDITIONAL CONDITIONS FOR COMPREHENSIVE MAINTENANCE CONTRACT OF LIFTS:

- 1 The agency shall offer their A.M.C rates in price bid. The tender will be evaluated considering the rates quoted for AMC also.
- 2 The agency has to render comprehensive maintenance services through OEM at the agreed rates as per schedule of work.
- 3 **Supplementary agreement shall be drawn in the name main of contractor after completion of defective liability period of one year for comprehensive maintenance of Lifts.**
6. The manufacturer shall be required to maintain the availability of all the spare parts required for maintenance of the lifts quoted in this offer for a period of 20 years, which is considered as the life of the lift. In no case, the department shall be asked to replace/ upgrade the lift or any parts i/c controller, ARD before expiry of the age of equipment, on account of becoming the model obsolete/ upgraded design.
7. Beyond above 5 years period, agreement for the comprehensive maintenance services of lifts installed at site, shall be drawn every subsequent year till the life of the equipment (20 years from the date of handing over) . In case of delay, what-so-ever may be, in drawing maintenance agreement for sub-sequent years, the comprehensive maintenance contract should be continued. The commencement of maintenance agreement for the sub-sequent year shall be from the date of expiry of maintenance agreement for the current year and at the enhanced rate as per IEEMA price variation for maintenance.
8. The preventive service of lifts should be done once in a month and breakdown calls are to be attended promptly. Breakdown calls shall not be counted against normal services.
9. No storage space will be made available to the contractor during the contract period.
10. Payment will be made quarterly after satisfactory completion of servicing and maintenance of the lift for the quarter.
11. In
case of minor nature of breakdown they shall be attended immediately within 24 hours, and in case of major breakdown, such as rewinding of motors, replacement of ropes, gears etc. they shall however be attended within 5(Five) calendar days, otherwise the payment for subsequent period will not be made. The Engineer-in-Charge's decision is final to decide the period that can be allowed for such major breakdown and to decide whether a breakdown is major or minor. Break down calls normally be responded to within a reasonable period. If any breakdown call remains unattended for a period exceeding 24 hours, pro-rata recovery at double the quoted rates shall be recovered from the bills payable to the firm for the number of days the lift remain un-attended. Recovery shall be made from the AMC charges payable to the firm for the number of days the lift remained unattended.
12. Lubricants, grease, cotton waste and any other consumable items will not be supplied departmentally and it is the responsibility of the contractor to provide all these items.
13. In case of any accident during the maintenance equipments and /or loss of life, the contractor shall be fully responsible for settling all claims and indemnify the department

against any claims arising out of such accidents, consequential damages to other systems shall however be not recovered from the contractor.

14. The contractor and / or his representative, labour should not remove/ disturb / dislocate the existing installations and its parts from its locations until and unless it is authorized by the Engineer-in-charge or his representative i.e. Assistant Engineer. The entire installations should be intact at any time of inspection as handed over to him at the time of initial taking over of its maintenance. Care should be taken not to damage by improper handling etc. The contractor shall be responsible for any damage or theft and shall have to make good to its original shape and description as and when damage / theft etc., takes place or it is noticed.
15. The agency shall clearly state the details of the routine maintenance proposed to be carried out by him and shall execute the same in the presence of the authorized representative of the Engineer-in-charge and his certificate should be obtained and the same to be submitted for claiming the payment otherwise the payment will not be paid.
16. The agency shall perform the maintenance services with trained and appropriately supervised personnel.
17. In case of replacement or repairs to any part of the lifts not covered by the comprehensive maintenance is warranted, prior approval of the Engineer-in-charge shall be taken with due notice.
18. The maintenance activities shall be carried out according to equipment specific maintenance plan for each main component of the equipment.
19. Call out service is designed to solve unexpected equipment failure, equipment stoppage or erratic operation requiring immediate attention of a Technician.
20. In performing the services described, agency will replace (Identical or equipment item) or rectify at its option any component of the elevator rendered defective due to normal wear and tear and arising out the ordinary and reasonable use of the elevator. The disassembled or dismantled parts shall become agency's property.
21. All Parts and components fitted by agency will be original parts or components. If original parts or components are not available, the parts or components fitted will be of equal in quality and functionality. Agency's liability to the the customer for any defects in design, materials or workmanship relating to parts and components shall be limited to the replacement of spare parts or components as below.
22. Refinishing, repair or replacements of following components are outside the scope of the maintenance contract.
 - a) Elevator Car enclosure
 - b) Elevator car and landing door panels / gates.
 - c) Incoming Electrical wiring up to main switches in the machine room.
 - d) Main switches in the machine room.
 - e) Items including mirror, hand rails, fans, lights and ARD batteries.
23. Additional visits are also included within the scope of CMC as and when the complaint calls are brought to the notice of the agency by the representative of the department.

24. The scope of 'Comprehensive maintenance contract covers complete lift installations except mentioned above
25. LabourCess, Income Tax and any other statutory deductions as applicable shall be deducted at source from the contractor's bills and remitted to the Concerned departments of State/ Central Government.
26. The agency's authorized representative shall be available on the mobile phone on a 24 Hrs x 7 days basis for registering a complaint.

Executive Engineer (E&M)
CED-I, Chennai CPWD

(LIFT MAINTENANCE SCHEDULE)

The following preventive and routine maintenance activities shall be within the scope of work during the maintenance period, which shall be applicable during Guarantee period and during yearly Comprehensive Maintenance contract period. This is not exhaustive, but indicative only and shall include any other changes from time to time as per the directions of the Engineer-in-charge as per the site requirements.

General.

- 1) It is the firm's responsibility to observe the on-going condition of the equipment with regard to safe and correct operation. The Contractor shall bring to the attention of the Engineer-in-charge any specific areas where periodic checking lubrications and adjustment exceeds normal provisions for equipment installed.
- 2) Any replacements or repairs shall be of a standard equal to the original installation.
- 3) The servicing shall be done as per the approval of the Engineer-in-charge. The materials replacement shall be carried out with the prior approval of the Engineer-in-charge or his authorized representative.
- 4) Annual safety test shall be carried out without any extra cost.
- 5) The firm's representative shall sign the lift logbook maintained by the department after attending preventive/ breakdown maintenance.
- 6) Penal recovery will be made, at double the quoted rates, for the months for which monthly service is not carried out.
- 7) Breakdown calls normally be responded to within reasonable period. All minor breakdown call remains un attended exceeding 24 hrs, pro rata recovery at double the quoted rates shall be recovered from the bills payable to the firm for the number of days the lift remain un-attended.
- 8) Any major breakdown shall be attended within reasonable time upto a maximum of 5 (Five) days. The Engineer-in-Charge's decision is final to decide the period that can be allowed for such major breakdown and to decide whether a breakdown is major or minor.
- 9) **ROUTINE MAINTENANCE TO BE CARRIED OUT DURING EVERY VISIT AND SERVICE REPORT SHALL BE SUBMITTED TO THE ENGINEER-IN-CHARGE. If any breakdown call falls within 5 (Five) days prior to routine maintenance, the breakdown call and service call can be combined.**
 - 9.1 See Customer's Representative.
 - 9.2 Display 'Elevator Under maintenance' board (car & all floors)
 - 9.3 Ride in car.
Check safety shoes /door detectors and door open button.
Check Car Position Indicator & CDI.
Check Alarm bell, Emergency Light & Intercom.
Check condition of car equipment especially fan and flooring.
Observe starting, stopping and floor levels and correct if necessary.
 - 9.4 Check proper oil levels in motor generator, sleeve bearing and machine gear box.
 - 9.5 Check AC high voltage switches for proper contacts.
 - 9.6 Check door operation.
 - 9.7 As necessary - clean car top / lift pit and lubricate guide rails.
 - 9.8 Carry out relevant code and make necessary entries on maintenance chart.
 - 9.9 Clean the equipment.
 - 9.10 Check Rope lubrication.
 - 9.11 Clean dust accumulated on encoder.

B. Maintenance programme.								
Periodicity of Check		IN CAR		IN CAR TOP		IN MACHINE ROOM		IN PIT
MONTHLY	1	Alarm.	1	Door operation function.	1	Blower.		
	2	Intercom.	2	Door operation belt / chain.	2	Brake operation.		
	3	Car operating panel functions.	3	Car top cleaning.	3	Brake liner.		
	4	Door operation.	4	Automatic rescue device.	4	Relay / contractor operation.		
	5	Safety edge operation.	5	Check that all locks are functioning properly.	5	Controller ventilation.		
	6	Landing push box.			6	OSG operation.		
	7	Landing indicator.			7	Clean machine.		
	8	Car and land sill.			8	M/C Room light and fan.		
	9	Car light and fan.			9	Car top safety.		
	10	Car calls.			10	Sheave shaft.		
	11	Ride comfort.			11	Motor shaft.		
	12	Car emergency light.			12	Governor pulley.		
	13	Infra red curtain.			13	Sleeve bearings.		
	14	Paly in car.			14	Check on simplex / duplex operation.		
	15	Cleaning the car and landing sills.			15	Grease bearings.		
	16	Toe guard.			16	Check Rope and Rope safety switch.		
	17	Levelling.			17	Check on starting and running current.		
	18	Emergency stop.			18	Check on incoming voltage.		
QUARTERLY			1	Inspection box	1	Main switch unit		
			2	Guide rail lubrication	2	Gear oil clear level		
			3	Landing door track collar	3	Tacho and Tacho belt		
			4	Landing door gate lock				
			5	Landing door operation				

			6	Guide shoes car / counter weight				
HALF YEARLY					1	Main rope / osg rope	1	Clean ptt
					2	Diverter	2	Tension weight buffer
							3	Safety gear
ANNUALLY			1	Car top isolation	1	Car over speed safety gear by manually moving levers and check the performance of safety locks.	1	Counter weight run by.
			2	Shaft wire tightness	2	Machine room earthing	2	Car bottom isolation.
					3	Power supply cables.		
					4	Insulation resistance of		
						a) Power cables		
						b) Power cores in travelling cable.		
						c) Motor switches and relays.		
			3	Annual safety test				
ONCE IN FIVE YEARS						1. Over speed safety gear by over loading the car		
						2. Run the lift beyond the limits in both directions till car and counter weight hit the bumper		

List of Approved materials (Electrical)

NOTE: Notwithstanding to the approval given in the list, the field staff are requested to observe the following conditions

1	Equivalent material and finishes of any other make may be used on written request of the contractor, in case of unavoidable circumstances and also if it is established that minimum three brands are not specified below or three brands out of all brands specified below are not available in the market, after written approval of the alternate brand by the NIT approving authority. This substitution shall be subject to cost adjustment in case the substituting brand is available at cheaper rates in market than those mentioned herein above. There shall be no cost adjustment if the substituting brand is costlier in market than those mentioned herein.
2	In addition, the brands approved as hereunder, should have valid and active BIS certificate as on the date of supply for the work.
3	Material shall conform to Make in India policy of Government of India as on the date of supply for the work.
4	Other brands not included in the list below but having BIS certificate on the date of supply for the work shall only be allowed against note (1) above.
5	In case of non availability of BIS codes for any of the materials incorporated above, the Engineer-in-charge shall send the materials for testing as per the relevant ASTM or EN codes and satisfy himself before using the same in work.

Internal Electrical Installations

S.No.	Equipment's	Approved Makes
1	PVC insulated copper conductor FRLS copper ISI Marked	Havells /RR Kabel/ L&T /KEI / Polycab
2	SS 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/Hello
4	UTP Cable	Legrand/Molex/CommScope/Havells
5	OFC Cable	Legrand/Molex/CommScope/Havells
6	XLPE UG Aluminum/Copper LT Cable	CCI/ /Harvell/ KEI/ RR Kable/ 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	Legrand / Delton / Havells/Molex/Commscope
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)/ABB - Twisha
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) /ABB - Twisha
15	BLDC Fans (Ceiling Fans)	ATOMBERG-Efficio/Crompton/Havells/Bajaj/Orient
16	Exhaust Fan/ Wall Fans / Pedestal Fans	Crompton /Orient /Havells /Almonard /Bajaj /Anchor Panasonic
17	All LED Fittings/DALI DRIVER LED Fittings (Indoor / Outdoor Light Fittings)	Crompton/Philips/Jaquar /Wipro/ Havells
18	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.)
19	Change over Switches, SDFU	L&T / ABB / Schneider/C&S/ Legrand / Havells/ Socomec / Siemens/ Hager/ Anchor.
20	Moulded Case Circuit Breaker/Motor protection circuit breaker Electric	Siemens/ ABB / L & T/C & S /Schneider/ Legrand / G E / Hager/ Havells
21	Phenolic laminated sheet	3 mm thick with ISI mark
22	Ammeter / Voltmeter / Combined Meters	AE / Mecon / Schneider / L&T / HPL/ C&S / Conserve/ Kaycee /Crompton Greaves / Scomec(Diris) .
23	Analogue Panel meters	AE / Mecon / Schneider / L&T / HPL/ C&S / Conserve/ Kaycee.
24	TV Coaxial Cable	Havell's / Finolex/Anchor/DELTON/RR KABEL/
25	Cable trays (Hot Dip Galvanised.)	RMCON / Profab / Indiana / MBM/ Legrand/ BEC.
26	Fire Extinguisher (with ISI mark)	CeaseFire /Safex/ Minimax/ Agni/ Padmini/OMEX
27	MS Conduits (ISI Marked)	AKG/BEC/Gupta/Jindal/TATA/Steel Kraft
28	Connector/Terminal block	Wago/Elemac/Phoenix/ Essen /Connectwel.
29	CAT5/6/6A Cables & Wires.	Legrand/Molex/Commscope/Havells
30	PVC Batten / Angle Holder	Anchor / Salzer / Havells/ Empower/ K555.

31	Rising main, End Feed Unit, Tap Off Box	C&S/Legrand /Schneider/ Siemens /L&T/ ABB-Megaduct (If Air Insulated) / Zucchini.
32	Wall Bracket — fancy and decorative wall bracket	Havells/Wipro/Philips/ Crompton.
33	ACB 415 V, 400 A-2000 A	Havells/ ABB/ Siemens/ L&T/ Schneider/ Legrand/ Hager / GE / Crompton/
34	DLP Trunking	Legrand/OBO Betterman/Schneider/MK
35	Floor Trunking/Raceway (GI)/ Raceway (GI) Junction Boxes	Honeywell MK/OBO Better man/ Legrand/ Profab
36	Selector Switch	BCH/Rishabh /Conserv/Kaycee /AE/ Crompton Greaves
37	Multifunction Meter/Load Managers	Schneider / Siemens/ Legrand/ Secure/ Socomec (Diris)
38	Capacitor and Harmonic Block Reactor Thyristor Module	L&T/Schneider/Neptune (Ducati)/Legrand.
39	APFC Relay (Microprocessor based)	Schneider/L&T/Neptune/Siemens/Legrand.
40	Automatic transfer switch (4P,100A, Std. Automatic)	Havells/ ABB/ Siemens/ L&T/ Schneider/ Legrand/ Anchor/ Hager.
41	Architectural Lighting Poles & Decorative Brackets (Street Light Poles)	K-Lite. /Jaguar/Philips/Wipro/Crompton
42	CT	Kappa/AE/L&T/BCH/SIEMENS/ABB/MECO
43	UPS	Numeric/Emerson/APC
44	UPS Batteries	Amaron/amaraja/Exide/Panasonic/AMCO
45	TTA PANELS	ABB-ArTuK/Schneider-Blokset/Siemens-Sivacon/L&T-Ti
46	Occupancy sensor Passive infrared PIR based occupancy sensor Ceiling mounted daylight sensor	Hager/Honeywel/Lutron/Helvar/Schneider
47	Exit Signs	Bosch/L&T/Notifier /Hochiki/Cooper/ Prolite/Autoglow /Microm/Prolite
48	Relays	CROMPTON/L&T/SCHNEIDER/SIEMENS/ABB/
49	Dalli controllers	Crompton/Honey Well/Philips/Siemens
50	DOL/FASD Starters	L&T/ABB/SIEMENS/CROMPTON
51	Water Supply Pump sets	KSB/TEXMO/CRI/Kirloskar
52	Liquid & Gas Flow level Meters	Magnum / Present.
	WaterSupplyPumpSets	
1	MonoSubmersiblePumpSet	KSB/CG/Kirloskar/Grundfoss/TEXMO
2	Submersible/BorewellPumpSet	KSB/CG/Kirloskar/Grundfoss/TEXMO

3	GIppe	Tata/Jindal/SAIL(with ISI marks)
4	SluiceValve/CheckValve/Non ReturnValve	Kirloskar/Leader/Zoloto/Audco/Advance
5	Butterflyvalve	Kirloskar/Leader/Zoloto/Audco/Advance
6	SubmersibleCable	RRKable/KEI/Havells/Polycab

	ON LINE UPS	
1	Online UPS	APC / VERTIV (EMERSON) / POWER ONE SCHNEIDER / TECHSOR/SOCOMECA/ABB/NUMERIC
2	Battery	EXIDE/HBL/Amron/Luminious
3	Battery monitoring System	HBL/Eagle Eye / Btech/Canara
4	Uninyvin Cable	Finolex/ RR Cable / Lapp Cable / Polycab

LIFT

S.NO	NAME OF THE PRODUCT	MANUFACTURED BY
1	LIFT	OTIS / SCHINDLER / MITSUBISHI / JOHNSON/KONE

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 in writing with the approval from NIT approving authority.

PART-D

SCHEDULE OF

QUANTITIES

Schedule of Quantity					
Name of work : “Replacement of existing old lifts with new 3 Nos 13 Persons (884 Kgs) Passenger lift (G+6) and One Goods Lift (G+6) <u>including maintenance for 5 years</u> at Krishna Block at Custom House, Chennai-01”.					
SL.No.	Description of items	Qty	Unit	Rate	Amount
	<u>SH-1((13 Passenger and Goods Lifts)</u>				
	(13 Passenger Lift)				
1	Supplying Installation, Testing & Commissioning of, machine room type, Gear less 13 Passenger (884 kg) lifts having contract speed of 1.5 MPS serving different floors in the existing lift shaft as per detailed specifications enclosed and as under :-				
	No of Lifts /Type of Lift : One / Passenger				
	Load / Speed : 13 persons(884 Kgs) / 1.5 MPS				
	Drive: Micro processor based VVVF - Closed Loop				
	Travel height : 23 Mtrs (Appox)				
	Number of Floors : <i>G +6 floors</i>				
	Stops & opening- 7 stops and 7 openings				
	Microprocessor Based Duplex Selective Collective Control With / Without Attendant				
	Number of position of car Entrances : 1 in front only				
	CABIN Details				
	Car Enclosure: Stainless steel scratch proof (Moon Rock/Honeycomb/ Hairline Finish) on all sides and stainless steel decorative ceiling with fans (indirect throw) and LED fitting.				
	The car flooring should be smooth and antiskid as approved by engineer-in-charge.				
	Car Doors : Power operated, centre opening horizontal sliding stainless steel scratch proof (Moon Rock/Honeycomb/ Hairline Finish) and Landing doors: stainless steel scratch proof .				
	Main power Supply : AC Power-415 Volts+/- 10%, 3 phase, 50 Hz, 4 wires				

	system				
	hand rail not less than 600mm long at 900mm above floor level to be fixed adjacent to control panel in the lift car.				
	Automatic rescue device complete with dry maintenance free batteries as required				
	Voice announcement system in the car to announce the position of the elevator in the hoist way as the car passes or stops at floor served by the elevator.				
	Closed loop Control System, protection against power fluctuation, self diagnostic control, Landing doors 2 hours Fire rated, Overload detection and protection, Overspeed Governor, Dot Matrix LED D & P Indicators In Car & Landings, BMS Compatibility, tamper proof infrared curtain covering almost the entire height of the lift car door, Alarm horn, Anti Nuisance Operation, CCTV camera system with 4 MP IP camera, suitable NVR and HDD for 30 days storage backup, Firemen switch, 2/3 way intercom, Emergency Stop Switch with battery backup for fan and light fitting for 1 hour, pit ladder.				
	In case of failure of ARD or other electronic devices, a provision of manual rescue be provided				
	The lift doors shall have a vision panel to enable persons with hearing impairment to signal for help or assistance in the event of an emergency.				
	An appropriate technological support be provided (Through emergency messaging services or alarms etc.) to respond to the emergency requirements of person with hearing impairment or deafness.				
	1) Stainless Steel Braille Operational buttons for floors & Car	3	Job	2418083.00	72,54,249.00
	(Goods Lift)				

2	Supplying Installation, Testing & Commissioning of ,machine room type , Gear less Goods Lift (1000 kg) lifts having contract speed of 0.75 MPS serving different floors in the existing lift shaft as per detailed specifications enclosed and as under :-				
	No of Lifts /Type of Lift : One - Goods				
	Load / Speed : Goods (1000 Kgs) / 0.75 Mtr. Per Second.				
	Drive: Micro processor based VVVF				
	Travel height : 23 Mtrs (Appox)				
	Number of Floors : G +6 floors				
	Number of landing Entrances : 7				
	Number of position of car Entrances : 1 in front only				
	CABIN Details				
	Car Enclosure: Stainless steel scratch proof (Moon Rock/ Honeycomb / Hairline Finish) on all sides and stainless steel decorative ceiling with fans (indirect throw) and LED fitting.				
	Operation: Microprocessor based single automatic push button/ simplex selective collective/duplex collective selective with/without attendant				
	The car flooring should be strong to take the rated load without any deformation or damage and antiskid as approved by engineer-in-charge				
	Car Doors : Power operated, centre opening horizontal sliding stainless steel scratch proof (Moon Rock/Honeycomb/ Hairline Finish) and Landing doors: stainless steel scratch proof .				
	Main power Supply : AC Power-415 Volts+/-10%, 3 phase, 50 Hz, 4 wires system				
	hand rail not less that 600mm long at 900mm above floor level to be fixed adjacent to control panel in the lift car.				
	Automatic rescue device complete with dry maintenance free batteries as required				

	Voice announcement system in the car to announce the position of the elevator in the hoist way as the car passes or stops at floor served by the elevator.				
	Closed loop Control System, protection against power fluctuation, self diagnostic control, Landing doors 2 hours Fire rated, Overload detection and protection, Overspeed Governor, Dot Matrix LED D & P Indicators In Car & Landings, BMS Compatibility, tamper proof infrared curtain covering almost the entire height of the lift car door, Alarm horn, Anti Nuisance Operation, CCTV camera system with 4 MP IP camera, suitable NVR and HDD for 30 days storage backup , Firemen switch, 2/3 way intercom, Emergency Stop Switch with battery backup for fan and light fitting for 1 hour, pit ladder.				
	In case of failure of ARD or other electronic devices, a provision of manual rescue be provided				
	1) Braille operational buttons for floors & Car	1	Job	3261260.00	32,61,260.00
3	Supplying following size one number XLPE insulated and PVC Sheathed armoured aluminium conductor power cable of 1.1 KV grade conforming to IS:7098 (part 1) 1988 as required.				
3.1	3.5 X 35 Sq.mm	60	Mtrs	499.00	29,940.00
4	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.				
4.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	20	Mtrs	72.00	1,440.00
5	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.				
5.1	3.5 X 35 Sq.mm (32mm)	8	Sets	494.00	3,952.00

6	Credit for the existing old passenger/Goods lift complete with car, counter weight, guide rails, supports etc., including dismantling, transportation, handling charges and making good the damages etc as required	4	Jobs	-100000.00	- 4,00,000.00
Total SH-I (13 Passenger and Goods Lifts)					1,01,50,841.00
<u>SH-2((AMC For 5 Years)</u>					0
AMC					
7	Comprehensive maintenance of lifts which includes routine preventive & break down maintenance for period of five years including repair and replacement of wornout /defective items with minimum down time and warranty & guarantee of repaired /replaced items after completion of one year Defect liability period				
	Note: This item will also be considered for deciding the lowest tenderer. A supplementary agreement will be drawn with CPWD/Client for this item after handing over of the lift to the client.				
7.1	3 Nos 13 passenger lift to serve G +6 floors				
a	First year (After 1 Year Defect liability Period)	12	Per Month Per lift	10075.00	3,62,700.00
b	Second year	12	Per Month Per lift	10579.00	3,80,844.00
c	Third year	12	Per Month Per lift	11108.00	3,99,888.00
d	Fourth year	12	Per Month Per lift	11663.00	4,19,868.00
e	Fifth year	12	Per Month Per lift	12246.00	4,40,856.00
7.2	1 Nos Goods Lift to serve G +6 floors				
a	First year (After 1 Year Defect liability Period)	12	Per Month Per lift	13589.00	1,63,068.00

b	Second year	12	Per Month Per lift	14268.00	1,71,216.00
c	Third year	12	Per Month Per lift	14981.00	1,79,772.00
d	Fourth year	12	Per Month Per lift	15730.00	1,88,760.00
e	Fifth year	12	Per Month Per lift	16517.00	1,98,204.00
	Total SH-2 (AMC for 5 Years)				29,05,176.00
ABSTRACT					
	SH: I Total				1,01,50,841.00
	SH: II Total				29,05,176.00
	Total				1,30,56,017.00
	Grand Total Rs.				1,30,56,017.00

Rs. 1, 30, 56, 017/- (Rupees One Crore Thirty Lakh Fifty Six Thousand and Seventeen Only)

**Executive Engineer (E&M)
CED-I, CPWD, Shastri Bhawan,
Chennai – 600 006.**

		Central Public Works Department			
SCHEDULE OF QUANTITIES					
N.I.T. No: 47/CE/CED-I/2026-27/CHENNAI					
Name of work: “Replacement of existing old lifts with new 3 Nos 13 Persons (884 Kgs) Passenger lift (G+6) and One Goods Lift (G+6) <u>including maintenance for 5 years</u> at Krishna Block at Custom House, Chennai-01”.					
SCHEDULE OF QUANTITY					
Name of the Contractor					
Sl.No.	Name of component	Estimated cost (Rs)	Percentage above or below the estimated cost	% in Figures	Total Cost (Rs)
1	2	3	4	5	6
1	SITC of Lifts	1, 01, 50,841/-			
2	AMC For 5 Years	29,05,176/-			
	Grand Total	1, 30, 56, 017/-			

1. The Column Nos 4&5 are mandatory to be filled by the bidders/ tenderers. If all these columns are left blank, the tender become invalid.
2. The amount in figures in column No.6 shall appear automatically corresponding to the percentage quoted in column No.4 & 5.
3. The tenderer need to quote the percentage only above or below or at par with the estimated cost to cover all the rates of item covered under the respective packages.
4. The percentage shall be written in 2 (two) place of decimal.
5. If the percentage selection in column No 4 is " At Par", by default the percentage will be considered as "Zero" only. In other words if "At par" is selected in column No.4, then no need to fill column No.5
6. The rate for the payment of each item will be - measured quantity x estimated cost of that particular item x tender percentage corresponding package respectively.

Signature of Contractor

Executive Engineer (E&M), CED-I