GOVERNMENT OF INDIA

CENTRAL PUBLIC WORKS DEPARTMENT

Notice Inviting e-Tender

NIT NO : 106/EE(E)/Mumbai-II (Erstwhile MCED-IV)/2026-27

The Executive Engineer (E), Mumbai-II, CPWD, Mumbai-37 invites on behalf of the President of India , online Percentage rate bids in two bid system from eligible CPWD enlisted contractors of appropriate Class, Specialized Agencies and OEM for the following work.

Name of Work : Replacement of existing KONE Make Outlived Bed lift of G+4 floor with new lift in the AIIPMR Hospital, Mumbai.

Estimated Cost : Rs. 50,78,996.00 /-

Earnest Money : Rs. 1,01,580/-

Period of Completion: - 05 (Month)

Last date and Time of Submission of Bid :- 16/11/2026 Up to 3.00 P.M.

Executive Engineer (E)
For & On Behalf of President of India
Mumbai-II (MCED-IV), CPWD, Mumbai 37

The bid forms and other details can be obtained from the website www.etender.cpwd@gov.in or https://eprocure.gov.in/ or www.cpwd.gov.in

Note: Applicants are advised to keep visiting the above-mentioned Web-sites from time to time (till the deadline for bid submission) for any updates in respect of the tender documents, if any. Failure to do so shall not absolve the applicant of his liabilities to submit the applications complete in all respect including updated thereof, if any. An incomplete application may be liable for rejection.

PART - A

GENERAL INFORMATION

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

The Executive Engineer (E), Mumbai-II (MCED-IV), CPWD, B wing, 2nd Floor, New Office Building, CGS Colony, Sector-7, Antop hill, Mumbai-37, e-mail ID eeemced4@rediffmail.com on behalf of President of India invites online Percentage rate bids in two bid system from eligible CPWD enlisted contractors of appropriate Class, Specialized Agencies and OEM for the following work :-

Sr. No.	Description	Details
1.	NIT No.: -	**106/EE(E)/Mumbai-II (Erstwhile MCED-IV)/2026-27**
2.	Name of Work	Replacement of existing KONE Make Outlived Bed lift of G+4 floor with new lift in the AIIPMR Hospital, Mumbai.
3.	Estimated cost: -	Rs. 50,78,996.00 /-
4.	Earnest Money: -	**Rs. 1,01,580/-** **(The EMD shall be made/ issued only from the account of bidder/tenderer submitting the bid/Tender. EMD /issued from the account other than that of the bidder/ tenderer submitting the bid, shall not be accepted.)**
5.	Period of completion: -	**05 (Month)**
6.	Date and Time of submission of queries by email to the Executive Engineer (E), Mumbai-II, CPWD, Antop Hill, Mumbai-37. (email address: eeemced4@rediffmail.com)	Before Pre-bid Conference latest by 15.00 hrs on 05/10/2026
7.	Date & Time for Pre-Bid Conference	06/11/2026 15:00 hrs
8.	Last date of online submission of bid, copy of receipt of deposition of original EMD and other documents as specified in the bid document	To be submitted during office hours within a week from the date of opening of Price Bid. In case the last day happens to be closed holiday, these documents shall be submitted on the next working day.

9.	Date & Time of Opening of Eligibility Bid	16/11/2026 After 3:30 PM
10.	Date of Opening of Price Bid	Shall be intimated separately after Technical Bid

Eligibility Criteria :

I) Contractors who fulfil the following requirement shall be eligible to apply. **Joint ventures are not accepted.**

- Criteria mentioned at I(a) below is applicable for both CPWD enlisted, non-CPWD Contractors & Specialized Agency/OEM.
- Criteria mentioned at I(b), I(c) and I(d) below are applicable only for non-CPWD Contractors/Specialized Agency/OEM.

a) Experience of having successfully completed Similar Works during the last 7 years (Applicable for CPWD enlisted as well as Non-CPWD contractor): -

The bidders should have successfully completed the following Similar Works in their own name/firm in Central Government / State Government / PSUs / Autonomous body during last seven years ending the previous month of last date of submission of tender as given below with completion certificate issued by an officer not below the rank of Executive Engineer or equivalent of a Govt. Department / PSU / Autonomous body, duly attested. Full credentials of the project authorities e.g. e-mail ID, complete postal address, Phone no. etc. are required for verification purposes.

1) **Three similar completed works each costing not less than Rs. 20,31,598.40 /-.**

OR

2) **Two similar completed works each costing not less than Rs. 30,47,397.60 /-.**

OR

3) **One similar completed work costing not less than Rs. 40,63,196.80 /-.**

Note:

(i) **Each Similar Work shall mean "SITC of Passengers/Bed Lift. The Similar Work can be exclusively a Lift work or part of a building work including SITC of Lift".**

(ii) **In addition to requirement at (i) above, at least one of the Similar Work should have SITC of at least 01 (One) No. 13 Passenger Lift/Bed Lift.**

(iii) The value of executed Similar 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 previous day of last day of submission of tenders.

(iv) The bidder has to conclusively establish the execution of the Similar Work mentioned at (a) above by submitting the completion certificate indicating the same or by uploading the abstract of Final bill passed and paid, showing the execution of Similar Work and amount thereof.

(v) The bidder shall scan and upload the details of Similar Works in **Form C at** Completion / Performance Certificate as **per Form D.**

(vi) The bidder shall upload an Affidavit for non-execution of eligible similar work(s) through another contractor on back-to-back basis or subletting basis, as per **Annexure IV.**

Eligible CPWD Enlisted Contractor who does not possess the above eligibility criteria mentioned at I(a) above, will be required to associate Specialized Agency/OEM who fulfils the above Eligibility Criteria and shall submit the supporting documents in respect of Note : (i) to (vi) above along with the Performance Guarantee, after the acceptance of Tender, for approval by Engineer-in-Charge. In this regard, bidder will have to upload an Undertaking as per Annexure VII.

b) Certificate of Financial Turn over:

Bidder should have had Average Annual Financial Turnover of **Rs. 16.09 Lakh during the last three years ending 31st March 2026** (Scanned copy of Certificate from Chartered Accountant 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 calculated from the date of completion to previous day of last day of submission of tenders. (Note: There is no need to upload entire voluminous balance sheet). Year in which no Turnover is mentioned, would also be considered for working out the Average **(Scan copy of original in Form A to be uploaded).**

c) Profit/Loss: Should not have incurred any loss (profit after tax should be positive) in more than two years during the last five years ending 31st March 2026 duly certified and audited by the Chartered Accountant. (The balance sheet in case of Pvt./ Public Ltd. Company means its Standalone finance Statement and Consolidated financial statement both) **(Scan copy of original in Form A to be uploaded).**

d) <u>Bankers Certificate / Net Worth Certificate: -</u>

Should have a **Banker's Certificate** from a commercial Bank for **Rs. 20.31 Lakh** or **Net Worth certificate** from CA with Unique Document Identification Number (UDIN) of minimum amount of **Rs. 5.07 Lakh** (Scanned copy of original to be uploaded in **Form B**.

e) The bidder should not have been barred/blacklisted by the Central Government/State Government or any Entity controlled by it, from participating in any tender and the bar subsists as on the due date, such bidder would not be eligible to submit the bid. If it comes

to the notice of the NIT Authority during tender process or after award of the work regarding blacklisting/debarment of the bidder, then bid of such bidder will be rejected summarily and EMD/PG shall be stand forfeited.

II) The bidder shall submit an **Undertaking** regarding Association with eligible OEM as per **Annexure VI.**

III) The lowest bidder (Successful bidder) shall submit an **Undertaking**/MoU with eligible OEM of LIFTs for execution of works as per **Annexure-V.**

IV) The LIFT Manufacturer (OEM) should fulfil the following Criteria :-

1. The Lift Manufacture shall comply with BIS standards, duly certified by the Manufacturer itself.

2. The Manufacture shall be compliant to the Public Procurement (Preference to Make in India), Order 2017 (as amended from time to time) issued by the Department of Industrial Policy and Promotion (DIPP), Ministry of Commerce and Industry.
3. The Lift Manufacturer should have experience of successful completion of Similar Works as per **I(a).**

4. The Manufacture shall furnish an undertaking regarding availability of spares for the entire life of Lift i.e. 15 to 20 years.

5. 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 amended up to date, lift standard tests as outlined in **IS:17900** and other related standards **IS:17900** as amended up to the last date of receipt of tenders. The intending bidders shall certify that they have all lift testing facilities in their factory/workshop and upload the same with bid documents.

6. The Controller (Microprocessor Based) shall be of Lift OEM only; 3rd Party shall not be accepted.

7. Quality Standards shall confirm to IS/ISO-9001:2015

8. The Fire rating of Car door and landing door shall be as per NBC-2016 & must submit valid certificate by an independent NABL accredited Laboratory. CNC Machine for fabricate doors must be in-house and certificate of list of Machinery shall be provide by OEM.

9. The Down time of installed Lifts, which are being maintained by the manufacture shall not be more than 8 hours (average) in case of minor faults and 7 days (average) in case of major faults in last one year. The data to be considered shall be for last financial year and letter of confirmation from Engineer-in-Charge of existing installed lift by officer.

10. All landing and Car Door panels must be minimum 1.5 mm thickness SS 304 material and no cladding material should get used Solid Material.

11. The OEM shall have its own fully equipped Service Centre at the lift installation location OR within a periphery of 100 Km.

12. The Service Centre shall be equipped with 24x7 hour IoT (Internet of Things) & Cloud based online Monitoring System (24x7 Connected Services) & shall be fully equipped with all required equipment's, tools & lift spare parts required in case of breakdown.

13. The Lift Manufacturer (OEM) must have manufactured and executed the work of SITC of Passenger Lift / Bed Lift.

General Information :-

1. The intending bidder must read the terms and conditions of **CPWD-6** carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.

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 www.etender.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 such as Demand Draft or pay order or Banker's Cheque or Deposit at call Receipt or Fixed Deposit Receipts and Bank Guarantee of any scheduled Bank towards EMD in favor of Executive Engineer as mentioned in NIT, receipt for deposition of original EMD to division office of any Executive Engineer, CPWD and other documents as specified.

5. 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. (The EMD document shall only be issued from the place in which the office of receiving division office is situated) and uploading the mandatory scanned documents such as Insurance Surety Bonds, Account Payee Demand Draft or Banker's Cheque or Fixed Deposit Receipts or / and Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank towards EMD in favour of Executive Engineer as mentioned in NIT, receipt for deposition of original EMD to Division Office of any Executive Engineer, CPWD and other documents as specified.

A part of earnest money (EMD) is acceptable in the form of bank guarantee also. 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 bank guarantee submitted as a part of Earnest Money shall be valid for a period of six months or more from the last date of submission of bid.

The EMD shall be made/ issued only from the account of bidder/tenderer submitting the bid/Tender. EMD //issued from the account other than that of the bidder/ tenderer submitting the bid, shall not be accepted.

6. Those contractors not registered or have not updated their profile on the website mentioned above, are require 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.

7. The intending bidder must have valid class-III digital signature certificate with encryption key (combo type) to perform any operations/ transections on the e-tendering portal/ website and the bidder should download and install the em-Signer on their system as per instructions available on download section of https://etender.cpwd.gov.in.

8. On opening date, the contractor can login and see the bid opening process. After opening of bids, he will receive the competitor bid sheets.
9. Contractor can upload documents in the form of JPG format or PDF format.
10. Contractor must ensure to quote rate in percentage form. The column meant for quoting rate in % figures appear in yellow color and the moment rate is entered; it turns sky blue.
11. 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 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 tenderer.

12. The Eligibility 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 Eligibility Bid shall be communicated to them at a later date.

13. Pre-bid meeting shall be held with the intending bidders in the office of **The Executive Engineer (E), Mumbai-II (MCED-IV), CPWD, B wing, 2nd Floor, New Office Building, CGS Colony, Sector-7, Antop hill, Mumbai-37 at 11:00 AM on 06/11/2026** to clear the

doubt of intending bidders, if any. Bidders should send by email all queries, before pre-bid conference to the office of **EE (E), Mumbai II** latest by 11: 00 PM on 06/11/2026. After pre-bid conference, all modifications/ addendums/ corrigendum issued regarding this bidding process, shall be uploaded on website only if felt necessary by the department. If situation arises, the terms & conditions, schedule of quantities are likely to be modified after the outcome of Pre-bid conference. Therefore, it is mandatory for the bidder to see the final bid document after the pre-bid conference and above uploaded modifications / addendums / corrigendum on the website and accordingly quote the percentage rate in the financial bid before the last date & time of submission of bid.

14. 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.

15. **Physical submission of documents by lowest bidder.**
Self-attested copy of all the scanned and uploaded documents as specified in NIT/ CPWD-6, anywhere in the NIT shall have to be submitted by the lowest bidder only along with Original receipt of deposition of EMD within a week in the office of tender opening authority. (The week includes the day of opening of bid).

16. It is mandatory to upload scanned copies of all the documents including GST registration. If documents are not uploaded, then bid will become invalid and shall summarily be rejected.

17. Tenders with any condition including that of conditional rebates shall be rejected forthwith.

18. The main contractor should possess valid electrical contractor license applicable for the work site. In case the main contractor does not have the electrical license to operate in the concerned location/jurisdiction, he shall associate an electrical contractor who has the license to operate in the said relevant jurisdiction. The main contractor shall however continue to be responsible in all respects for the work done by his associate and also for the necessary statutory compliances.

Assistant Executive Engineer (P) (E)
Mumbai-II, CPWD, Mumbai 37

Executive Engineer (E)
Mumbai-II, CPWD, Mumbai 37

1. **For CPWD Registered contractors:**
   a. **Copy of Receipt** for deposition of original EMD issued by Officer (EE/DDH) with whom EMD has been deposited
   b. **Earnest Money** in the form Insurance Surety Bond, Demand Draft/ Account Payee Banker's Cheque/ Fixed Deposit Receipt/ Bank Guarantee of any Commercial Bank against EMD (drawn in favour of **Executive Engineer (E), MCED-IV, CPWD, Mumbai 37)**
   c. **Enlistment Order** of the Contractor of CPWD in appropriate Class & Category.
   d. List of Eligible Similar Nature of Works completed (in **Form-C) as attached in NIT.**
   e. Work Experience Certificate of Completed eligible Similar Work(s) as per **Form-D as attached in NIT** for the works mentioned in FORM-'C'**.**
   f. **GST Registration Certificate of Maharashtra State,** if already obtained by the bidder. If the bidder has not obtained GST registration certificate of **Maharashtra State** or as required by GST authorities, then bidder shall scan and upload following **Undertaking** along with bid documents. **(Annexure – II) as attached in NIT.**

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

   g. Copy of Electrical Contractor License or **Undertaking** as **per Annexure-III as attached in NIT**
   h. Affidavit for non-execution of eligible similar work(s) through another contractor on back-to-back basis or subletting basis furnished on Letter Head of Agency. **(Annexure IV as attached in NIT**
   i. **Undertaking** Regarding Association with eligible OEM **(Annexure – VI) as attached in NIT**
   j. **Undertaking** regarding association with Specialized Agency/OEM **(Annexure VII) as attached in NIT**
   k. **ERP training certificate issued through LMS of ERP taken by himself or his authorized representative. Training will be valid only when participants are registered with LMS (Learning Management System).**

2. <u>For Non CPWD registered contractor</u>

a. **Copy of Receipt** for deposition of original EMD issued by Officer (EE/DDH) with whom EMD has been deposited

b. **Earnest Money** in the form Insurance Surety Bond, Demand Draft/ Account Payee Banker's Cheque/ Fixed Deposit Receipt/ Bank Guarantee/ of any Commercial Bank against EMD (drawn in favour of **Executive Engineer (E), MCED-IV, CPWD, Mumbai 37)**

c. Certificates of Financial Turnover for Three years and Profit Loss for last Five years from Chartered Accountant in **Form A as attached in NIT**

d. Banker's Certificate /Net Worth Certificate in **Form B/B1 as attached in NIT**

e. List of Eligible Similar Nature of Works completed in **Form C as attached in NIT**

f. Work Experience Certificate of completed work(s) mentioned in FORM-'C' has to be submitted as per **Form-D as attached in NIT**

g. **GST Registration Certificate of Maharashtra State,** if already obtained by the bidder. If the bidder has not obtained GST registration certificate as applicable or as required by GST authorities, then bidder shall scan and upload following **Undertaking** along with bid documents. **(Annexure – II) as attached in NIT**

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

h. Copy of Electrical Contractor License or **Undertaking** as **per Annexure-III as attached in NIT**

i. Affidavit for non-execution of eligible similar work(s) through another contractor on back-to-back basis or subletting basis furnished on Letter Head of Agency. **(Annexure-IV) as attached in NIT**

Undertaking Regarding Association with eligible OEM **(Annexure – VI) as attached in NIT**

If the bidder is **Specialised Agency** other than **OEM.**

j. Letter of Transmittal. **(Annexure – VIII) as attached in NIT.**

k. A Certificate/ **Undertaking** shall be uploaded mentioning that "If we are Ist lowest then we will take ERP training through registration in LMS from ERP unit CPWD".

Assistant Executive Engineer (P) (E)
Mumbai-II, CPWD, Mumbai 37

Executive Engineer (E)
Mumbai-II, CPWD, Mumbai 37

CPWD-6 for e-tendering

NOTICE INVITING E-TENDER

The Executive Engineer (E), Mumbai-II (MCED-IV), CPWD, B wing, 2nd Floor, New Office Building, CGS Colony, Sector-7, Antop hill, Mumbai-37, e-mail ID eeemced4@rediffmail.com on behalf of President of India Invites online Percentage rate bids in two bid system i.e. Eligibility Bid & Financial Bid from Specialized Agencies/OEM/CPWD enlisted contractors of appropriate class in Building & Roads (erstwhile composite/ Building/ Infrastructure) category having experience in similar work of "**SITC of Passenger/Bed Lifts**" for the following work :- **Replacement of existing KONE Make Outlived Bed lift of G+4 floor with new lift in the AIIPMR Hospital, Mumbai.**

NIT No : 106/EE(E)/Mumbai-II (Erstwhile MCED-IV)/2026-27

1. The work is estimated to Cost: **Rs. 50,78,996.00 /- .** This estimate, however, is given merely as a rough guide.

1.1. Intending bidders is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified in the tender document. (Scanned copy to be uploaded at the time of submission of bid)

1.2. 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.

2. Agreement shall be drawn with the successful tenderer on prescribed form No. CPWD 7/8 amended up- to last date of receipt of tender (or other Standard Form as mentioned) which is available as a Govt. of India Publication. Tenderer 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 **05 (Month)** 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 tender documents.

4. (i) The site for the work is available.

5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract

to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on website https://etender.cpwd.gov.in or www.cpwd.gov.in free of cost.

6. The bidder should also read the General Conditions of the Contract for CPWD Maintenance works 2023 amended up to date (available) on CPWD above websites), which is available as Govt. of India publications.

7. 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 tender as notified.

8. 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 tender as notified.

9. Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Bankers Cheque or Bank Guarantee of any Commercial Bank (drawn in Favor of "of **Executive Engineer(E), MCED-IV, CPWD, Mumbai-37**" shall be scanned and uploaded to the e-tendering website within the period of bid submission. The original EMD should be deposited either in this office of executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. (The EMD document shall only be issued from the place in which the office of receiving division office is situated). The EMD receiving Executive Engineer 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 also. In such case, 50% of earnest money or Rs. 20 lakh, whichever is less, will have to be deposited in shape prescribed above, and balance in shape 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.

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. However, in case of two/ three bid system, earnest money deposit of bidders unsuccessful during Eligibility Bid evaluation etc. should be returned within 30 days of declaration of result of Eligibility Bid evaluation.

Copy of Enlistment Order and certificate of work experience and other documents as specified in the notice inviting e- tender shall be scanned and uploaded on the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in e- tender notice shall have to be submitted by the lowest bidder 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, who has deposited EMD with any division of CPWD and other documents scanned and uploaded are found in order

The Eligibility Bid Submitted shall be opened at **03.30 PM on 16/11/2026**

10. The bid submitted shall become invalid if:

a) The bidder is found ineligible.

b) The bidder does not upload all the documents as stipulated in the bid document including the copy of receipt for deposition of original EMD.

c) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest tenderer in the office of tender opening authority.

d) 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 tenderer.

11. The contractor whose bid is accepted, will be required to furnish **Performance guarantee shall be as below :**

(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 with in the period specified in Schedule E.

This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10000/-) or Deposit at Call receipt of any scheduled bank/Banker's cheque of any scheduled bank/ demand Draft of any Commercial bank/Pay order of any Commercial Bank of any scheduled bank (in case guarantee amount is less than Rs.1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Commercial Bank or the State Bank of Indian 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 and Program Chart (Time and Progress) within the period specified in Schedule F.

12. The description of the work is as follows:

"Replacement of existing KONE Make Outlived Bed lift of G+4 floor with new lift in the AIIPMR Hospital, Mumbai.

Intending bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A firm/ agency 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 firm/ agency 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 tender by a firm/ agency 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.

13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the firm/ agency shall be summarily rejected.

14. Canvassing whether directly or indirectly, in connection with firm/ agency is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.

15. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the tender and the firm/ agency shall be bound to perform the same at the rate quoted.

16. The Contractor shall not be permitted to tender for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any Gazetted officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

17. 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 previous 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 tender or engagement in the contractor's service.

18. The bid for the works shall remain open for acceptance for a period of **Seventy-Five (75) days** from the date of opening of financial bid for this tender as invited on 2 bid system. Further,

18.1. 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 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.

18.2. 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 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.

18.3. 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.

19. This notice inviting Tender shall form a part of the contract document. The successful firm/ agency, on acceptance of his tender 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 Tender, all the documents including additional conditions, specifications and drawings, if any, forming part of the tender as uploaded at the time of invitation of tender 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 amended & modified up-to last date of receipt of tender.

20. In case any discrepancy is noticed between the documents as uploaded at the time of submission of the bid online and hard copies as submitted physically in the office of **Executive Engineer(E), MCED-IV, CPWD, Mumbai-37.** then the bid submitted shall become invalid and the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 100% of the said earnest money as aforesaid. Further the firm/ agency shall not be allowed to participate in the re- tendering process of the work.

21. The intending bidders are required to update their profile in CPWD e-tendering portal and to upload their bids well in advance of last date of submission of tender. Any issue related

to updating profile/ uploading tender can be resolved through ERP help line no. 18001803286 or email – cpwd.support@techmahindra.com. The e-tendering bidders are also advised not to wait to raise any issue till the last date of submission of bid in their own interest.

22. Eligibility Criteria/Experience of work: Approved and Eligible CPWD Enlisted Contractors in Composite Category firms having Experience of work or can Associate Specialized Agency/OEM of LIFT Manufacturer fulfill eligibility criteria shall be eligible to apply.

(For & on behalf of President of India)

Assistant Executive Engineer (P) (E)
Mumbai-II, CPWD, Mumbai 37

Executive Engineer (E)
Mumbai-II, CPWD, Mumbai 37

ELECTRICAL AGENCY TO BE ENGAGED BY MAIN CONTRACTOR FOR EXECUTING THE ELECTRICAL SUB-HEADS

1. After award of work and before the first milestone, the main contractor will have to submit Name (s) of the proposed associate contractor (for each of the E&M works), who fulfill set eligibility criteria for the relevant sub-head ending last day of previous month of submission or date of 1st mile stone. The documents will have to be submitted in detail as required, which will be checked as per NIT for approval of the associate contractors. It will be essential that proposed electrical associate agency qualify the eligibility criteria for sub- head given in NIT.

2. The department reserves the right to allow the main firm to submit additional Documents /additional names of the associates in case of the deficiencies in documents or in case of no associate getting qualified in respect of certain subheads. The same will have to be complied with the main contractor within the time allowed. The decision of the department shall be firm & binding on the intending bidders.

3. The main firm should submit the willingness from eligible electrical contractors to get associated with them for execution of the electrical component of works in wholesome manner and as per the conditions set out in the MOU to be entered into, between the one who is awarded the work and the associated eligible electrical contractor.

4. In support of the eligibility conditions of the proposed associated electrical contractor, copy of their registration documents, Electrical Contractor's License, GST documents, eligibility documents by competent authority shall have to be submitted. Such associate electrical contractor will certify that they are not debarred as on the day of application for sale of tender.

5. In event of the concerned E&M agency not performing satisfactorily or failure of associate/sub-contractor to complete the E&M work, the main contractor on the written direction of the department, shall remove the Associate/sub-contractor deployed on the work and shall submit name of new associate who fulfills the conditions mentioned in NIT to execute the leftover work without any loss of time or variation in cost to the department in this regard. Such associates shall also enter into Agreement with the main tenderer and shall meet the entire guarantee for the equipments already supplied for which payment has been released by the department in part. If any equipment supplied for the work, during the currency of the earlier Associate/sub-contractor and paid partly by the department, becomes redundant /not in a position to be installed and commissioned and put to beneficial use due to change in agency for execution of E&M work, the main contractor shall be liable for replacement of the equipment(S) at no cost to Department, No change of Electrical Contractor will be allowed without prior approval of the Executive Engineer (E), Mumbai-II, CPWD, Mumbai-37

6. Executive Engineer (E), Mumbai-II, CPWD, Mumbai-37 shall be the Engineer-in-charge as far as electrical works are concerned.

7. The main contractor shall be responsible and liable for proper and complete execution of the Electrical work and ensure coordination and completion of both civil and electrical work.

8. The main contractor has to enter into agreement with contractor(s) associated by him for execution of E&M subheads. Copy of such agreement shall be submitted to EE(E) in charge of work. In case of change of associate contractor, the main contractor has to enter into agreement with the new contractor associated by him.

9. The associate or sub-contractor shall attend the inspection of the work by the Engineer-in charge of E&M works as and when required. The agencies executing the electrical work should have valid license for LT/HT as applicable and as described in eligibility criteria.

10. Verifiable completion certificates of the work eligibility documents as the case may be, duly attested by the applicant shall be submitted. Valid Electrical Contractor' license, as the case may be, duly countersigned by the applicant as well as signed by the associate contractors shall also be submitted. Self attested GST documents in respect of the associated agencies as well as signed by associate firms shall be submitted by contractor within 15 days of award of work.

On non-judicial stamp paper of minimum Rs 100/-

Form of Bank Guarantee for EMD/Performance Guarantee / Security Deposit

1. Whereas the **The Executive Engineer (E), Mumbai-II (MCED-IV), CPWD, B wing, 2nd Floor, New Office Building, CGS Colony, Sector-7, Antop hill, Mumbai-37,** e-mail ID eeemced4@rediffmail.com on behalf of the

President of India (hereinafter called "The Government,) has invited bids under – **NIT No: 106/EE(E)/Mumbai-II (Erstwhile MCED-IV)/2026-27 for the work "Replacement of existing KONE Make Outlived Bed lift of G+4 floor with new lift in the AIIPMR Hospital, Mumbai."** The Government has further agreed to accept irrevocable Bank Guarantee for Rs……valid up-to ..... (date)*..... as Earnest Money Deposit from……..... (name and address of contractor) ....., (hereinafter called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT.

OR

Whereas the **Executive Engineer (E), Mumbai-II (Erstwhile MCED-IV), CPWD, Mumbai-37** on behalf of the

President of India (hereinafter called "The Government") has entered into an agreement bearing number ..... With..... (Name and address of the contractor) ..... (hereinafter called "the contractor") for execution of **work "Replacement of existing KONE Make Outlived Bed lift of G+4 floor with new lift in the AIIPMR Hospital, Mumbai."**

The Government has further agreed to accept 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 obligations in accordance with the terms and conditions of the agreement.

2. ..... We, (Indicate the name of the Bank) ..... (Herein after referred to as "the Bank")

hereby undertake to pay to the Government an amount not exceeding Rs.....(Rupees Only) on demand by the Government 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 the recoveries 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 the name of the Bank), further undertake to pay the Government any money so demanded not withstanding any dispute of 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 unequivocal. 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 any time or from time to time any of the powers exercisable by the Government against the said contractor and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from out liability by reason of any such variation or extension being granted to the said contractor or for any forbearance 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 whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. ..... We, ... (indicate the name of the Bank) ..... , further agree that the
Government as its option shall be entitled to enforce this Guarantee against the Bank as a Principal debtor at the first instance without proceeding against the contractor and not withstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities.
7. This guarantee will not be discharges due to the change in the constitution of the Bank or the Contractor.
8. ..... We, ... (Indicate the name of the Bank), undertake not to 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 .....
2. Name and address
3. Signature ..... Name and address

- Date to be minimum 180 days from the date of acceptance of tender in case of performance guarantee.
- 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.

Note: Bank Guarantee must be on non-judicial stamp paper of minimum Rs. 100.

Authorized Signatory ……..

Name ……...

Designation ……..

Staff code No. ……..

Bank seal……

FORM 'A'

FINANCIAL INFORMATION

Name of the firm / Bidder……:

1. 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).

Sr. No.	Particulars	Financial Year				
		2021-22	2022-23	2023-24	2024-25	2025-26
1.	Gross annual turnover on similar works.	------	------			
2.	Profit/loss (standalone finance statement and consolidated financial statement both)					

2. Financial arrangements for carrying out the proposed work

Signature of Chartered Accountant with Seal

SIGNATURE (S) OF BIDDER (S)

FORM 'B'

Form of Banker's Solvency Certificate from a Commercial Bank

To,

EXECUTIVE ENGINEER (E),

MUMBAI-II, CPWD,

MUMBAI-37

This is to certify that to the best of our knowledge and information that M/s /Sh…… having marginally noted address, a customer of our bank are / is respectable and can be treated as good for any engagement up to a limit of Rs…….... …...…..... (Rupees ……..).

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

NOTE

(Signature) For the bank.

1. Banker's certificate should be on letter head of the bank, sealed in cover addressed to tendering authority.
2. In case of Partnership firm, certificate should include names of all partners as recorded with the Bank.

FORM 'B1'

FORM FOR CERTIFICATE OF NET WORTH FROM CHARTERED ACCOUNTANT

(Not more than six months old)

"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 Net Worth of company has not eroded by more than 30% in the last three years ending on (Relevant date)."

Unique Document Identification Number (UDIN)……

Signature of Chartered Accountant

.....

Name of Chartered Accountant

.....

Membership No. of ICAI.

Date and Seal

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

ii. The certificate should not be more than 6 months old on the last date of Tender Submission.

FORM 'C'

DETAILS OF ELIGIBLE SIMILAR NATURE OF WORKS COMPLETED DURING THE LAST SEVEN YEARS ENDING PREVIOUS DAY OF LAST DAY OF SUBMISSION OF TENDER

Name of the Firm/Bidder: - ……..

Sr No.	Name of work / Project and location	Owner or sponsoring organization	Cost of work in Rs. In Lacs	Date of commencement as per contract	Stipulated Date of completion	Actual date of completion	Litigation/ arbitration cases pending/ in progress with details*	Name and address /telephone number of office	Whether the work was done on back to back basis Yes/No
1	2	3	4	5	6	7	8	9	10

* Indicate gross amount claimed and amount awarded by the arbitrator

Signature of Bidder (s)

FORM 'D'

PERFORMANCE REPORT OF WORKS REFERRED TO IN FORM-C

1.	Name of Work / Project and Location	
2.	Agreement No.	
3.	Estimated Cost	
4.	Tendered Cost	
5.	Date of start	
6.	Date of completion	
	(a) Stipulated date of completion	
	(b) Actual date of completion	
7	Whether case of levy of compensation for delay has been decided or not	Yes/No
	If decided, amount of compensation levied for delayed completion, if any.	Yes/No
8	Performance Report	
	Quality of Work	Outstanding/Very Good/Good/Poor
	Financial Soundness	Outstanding/Very Good/Good/Poor
	Technical Proficiency	Outstanding/Very Good/Good/Poor
	Resourcefulness	Outstanding/Very Good/Good/Poor
	General behaviour	Outstanding/Very Good/Good/Poor
9.	Brief scope / nature of work completed	

Dated: .....

Executive Engineer or Equivalent with

Stamp

Form 'F'

Undertaking on structural stability and soundness of already completed building and infrastructure projects.

I/we undertake and confirm that any building/infrastructure constructed by our firm/partnership firm/company has not suffered any failure, making it unfit for intended use, either due to structural design and defects or due to use of sub-standard materials or execution of sub- standard work, poor workmanship or any other reason during the last 25 (twenty five) years.

I/we, further, undertake that if such information comes to the notice of CPWD, then Engineer- in-Charge shall be free to terminate the bid/agreement and to forfeit the entire amount of earnest money deposit, performance guarantee and security deposits.

I/we also undertake that in addition to above, the Engineer-in-Charge shall be free to debar us forever from tendering in CPWD.

The decision of Engineer-in-Charge or any higher authority shall be final and binding.

Signature of notary with seal.

Signature of bidder or an authorized person of the firm and stamp.

(Note: Affidavit to be furnished on a 'Non-Judicial' Stamp paper of Rs. 200/- (scanned copy of the notarized affidavit to be uploaded at the time of submission of bid).

Annexure-I

EMD RECEIPT FORMAT
Receipt of deposition of original EMD

(Receipt No……#……. / Date……#…….)		
Name of Work	***:***	**Replacement of existing KONE Make Outlived Bed lift of G+4 floor with new lift in the AIIPMR Hospital, Mumbai.**
*NIT No **	***:***	**106/EE(E)/Mumbai-II (Erstwhile MCED-IV)/2026-27**
*Estimated Cost **	***:***	**Rs. 50,78,996.00 /-**
*Amount of Earnest Money Deposit**	***:***	***Rs.* 1,01,580/-**
*Last date of submission of bid **	***:***	***16/11/2026 up to 03.00 PM***
*(*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 #	***:***	
i) In the form of Insurance Surety Bonds or Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque for Rs……#…… Vide ……#……Date……#…….. *ii) In the form of Bank Guarantee (for balance amount as prescribed) Rs……#issued by……#…….. Date……#...*		
Date of submission of EMD #	***:***	
Name of Officer #	***:***	
Designation of EMD receiving officer #	***:***	
Office name and Address #	***:***	
Office Phone #	***:***	
E-mail ID #	***:***	
Signature #	***:***	
Office stamp #	***:***	
# To be filled by EMD receiving EE/DDH		

Note: - 1) All the above-mentioned details must be dully filled otherwise it may not be considered for tender.
2) The receipt can also be issued by any subordinate gazette authority as authorized by the EE/DDH.

Annexure-II

UNDERTAKING REGARDING OBTAINING GST REGISTRATION

CERTIFICATE AS APPLICABLE

If work is awarded to me, I/we shall obtain GST registration Certificate of the State, 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.

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

Annexure-III

UNDERTAKING FOR OBTANING ELECTRICAL CONTRACTOR LICENSE

If work is awarded to me, I/we shall obtain Electrical Contractor License, or if I/we do not possess in my/our name a valid electrical license as required, I/we shall associate an agency having such a license required for execution of work as

applicable, within one month from the date of receipt of award letter or before release of any Payment by CPWD, whichever is earlier, failing which I/we shall be responsible for any delay in payments which will be due towards me/us on account of the work executed and/or for any action taken by CPWD or concerned competent authority in

this regard.

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

Annexure-IV

UNDERTAKING FOR NON-EXECUTION OF WORKS ON BACK-TO-BACK BASIS

Name of Work: - Replacement of existing KONE Make Outlived Bed lift of G+4 floor with new lift in the AIIPMR Hospital, Mumbai.

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.

Signature of the Bidder

Address

Annexure–V

UNDERTAKING LETTER FROM OEM OF LIFT MANUFACTURER

(ON THEIR LETTER HEAD)

Name of work :- **Replacement of existing KONE Make Outlived Bed lift of G+4 floor with new lift in the AIIPMR Hospital, Mumbai.**

NIT No. : 106/EE(E)/Mumbai-II (Erstwhile MCED-IV)/2026-27

We here by agree that:

I/We hereby submitting following authorization on behalf of Agency (M/s……....) & undertake to execute the above work as OEM LIFT Manufacture's.

1. We……. the OEM/OEA is authorizing …… to participate in this Bid and we undertake from LIFT Manufacture's OEM.
2. We duly certified that; we have complied with latest IS 17900, BIS standards.
3. We the Lift manufacture complied to the Public Procurement (Preference to Make in India), Order 2017 (as amended from time to time) issued by the Department of Industrial Policy and Promotion (DIPP), Ministry of Commerce and Industry.
4. All the Lift OEM equipment spare parts supplied by us are guaranteed under AMC Cover including and it is also certified that spare part of Lift shall be available for the entire life of Lift i.e. 15 to 20 years.
5. We certified that, we are complying Quality Standards to IS/ISO-9001:2015
6. We certified that, the complete lift installation including its components, safety devices, various types of controls etc., testing, inspection, operation & maintenance shall conform to relevant codes, Standards, code of practices, guidelines, safety rules, inspection manual(s), rule issued by Bureau of Indian Standards, as amended up to the last date of receipt of tenders.
7. We certify that, we possess valid test certificate by NABL accredited Laboratory and also have CNC Machine for fabricate Fire Rated Doors in-house and certificate of list of Machinery also attached. Thickness of fire rated door not shall be less than 1.5mm SS 304 Material
8. We certified that, the Down time of already installed Lifts, which are being maintained by us are not be more than 8 hours (average) in case of minor faults and 7 days (average) in case of major faults in last one year. The letter of confirmation from E-in-Charge of existing installed lift by officer may be ask by tender inviting authority.
9. We certify that, the Lift Controller (Mico processor Based) shall be of our OEM only; no 3rd Party controller use in our lift.
10. We Certify that, we have it's own fully equipped Service Centre at the lift installation nearby location OR within a periphery of 100 Km.
11. The Service Centre also equipped with 24x7 hour I.o.T. (Internet of Things) & Cloud based online Monitoring System (24x7 Connected Services) &also fully equipped with all required equipment's, tools & lift spare parts required in case of breakdown or maintenance

Signature of Contractor Signature and Stamp by OEM OF LIFT

Annexure-VI

Undertaking Regarding Association with eligible OEM

Name of work : Replacement of existing KONE Make Outlived Bed lift of G+4 floor with new lift in the AIIPMR Hospital, Mumbai.

NIT No. : 106/EE(E)/Mumbai-II (Erstwhile MCED-IV)/2026-27

If work is awarded to me, I/we hereby undertake that I/we shall associate an eligible OEM of Lift Manufacturer & submit an Undertaking in prescribed Proforma (Annexure-V) within 15 days of Award of work. Other wise department shall forfeit the deposited PG absolutely & shall reject my/our tender and debar me/us from re-tendering for the above cited work.

Signature of Bidder(s)
Or an authorized Officer
of the Firm with stamp

Annexure-VII

Undertaking Regarding Association with Specialized Agency/OEM

Name of work : Replacement of existing KONE Make Outlived Bed lift of G+4 floor with new lift in the AIIPMR Hospital, Mumbai.

NIT No. : 106/EE(E)/Mumbai-II (Erstwhile MCED-IV)/2026-27

If work is awarded to me, I/we hereby undertake that I/we shall associate an eligible Specialized Agency/OEM having experience and required Eligibility Criteria as mentioned at 1(a) of eligibility criteria at the time of submission of Performance Guarantee. Otherwise, department shall forfeit the deposited PG absolutely shall reject my/our tender and debar me/us from re-tendering for the above cited work.

Signature of Bidder(s)
Or an authorized Officer
of the Firm with stamp

Annexure-VIII

LETTER OF TRANSMITTAL

From: M/s …….
……...

……...

To,

EXECUTIVE ENGINEER (E),
MUMBAI-II, CPWD,
KENDRIYA SADAN,
ANTOP HILL, MUMBAI- 37.

Sub.:- Replacement of existing KONE Make Outlived Bed lift of G+4 floor with new lift in the AIIPMR Hospital, Mumbai.

Sir,

Having examined the details given in press notice and bid document for the above work, I/We, hereby submit the relevant information.

1. I/ We, hereby certify that all the statements made and information supplied in the enclosed form "A" to "H" and accompanying statements 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 solvency certificate and authorize the EXECUTIVE ENGINEER (E), MUMBAI-II, CPWD, MUMBAI-37 to approach the Bank issuing the solvency certificate to confirm the correctness thereof. I/We, also authorize EXECUTIVE ENGINEER (E), MUMBAI-II, CPWD, MUMBAI-37 to approach individuals, employers, firms and corporation to verify our competence and general reputation.

OR

4. I/ We submit the requisite certified net-worth certificate and authorize the EXECUTIVE ENGINEER (E), MUMBAI-II, CPWD, MUMBAI-37 to approach the chartered Accountant to confirm the correctness thereof. I/We, also authorize EXECUTIVE ENGINEER (E), MUMBAI-II, CPWD, MUMBAI-37 to approach individuals, employers, firms and corporation to verify our competence and general reputation. (Strike out whichever is not applicable)

I / We submit the following certificates in support of our suitability, technical knowledge and capability for having successfully completed the following eligible similar works: -

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/cancelation of enlistment in case any information furnished by me/us found to be incorrect.

Enclosure:

Seal of bidder & Signature (s) of bidders (s)

Annexure-IX

WILLINGNESS CERTIFICATE FROM CONCERNED COMPETENT ELECTRICAL

CONTRACTOR (Separate for each sub head of E&M work)

Name of Work : Replacement of existing KONE Make Outlived Bed lift of G+4 floor with new lift in the AIIPMR Hospital, Mumbai.

I hereby give my willingness to work as electrical contractor for the above-mentioned work. I will execute the work as per specifications and conditions for the agreement and as per direction of the Engineer-in-charge. Also, I will employee full time technically qualified supervisor for the works.

I will attend inspection of officers of the department as and when required.

Dated:

Signature of Main Contractor

Address:

Telephone:

FAX:
e-mail:

Signature of Associate Electrical Contractor

Registration detail Address:

Telephone:

FAX:
e-mail:

GUARANTEE TO BE EXECUTED BY CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF LIFT WORK.

This agreement made this ---------- day of ---------- ------Two thousand and ---------- between son of ----------of

---

(hereinafter called the Guarantor of the part) and the PRESIDENT OF INDIA (hereinafter called the Government of the other Part)

WHERAS THIS AGREEMENT is supplementary to a contract (hereinafter called for Contract) date ---------- and made between the GUARANTOR of the one part and the GOVERNMENT of the other part, hereby the Contractor interalia, under took that the LIFT Replacement work done on building will remain non defective and no leakages and structural damaged to the existing building.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to affect that the said from LIFT work will remain non leakages and structural damaged for Five Years from the date of completion of work.

NOW THE GURANTOR hereby guarantee that from LIFT work done by him will remain non leakages and structural damaged and the minimum guarantee period of such work shall be Five years to be reckoned form the date of the completion of work.

Prided that the guarantor will not be responsible for damage caused due to earthquake or misuse of buildings or alteration and for such purpose. The decision of the Engineer-in-Charge with regard to cause of damage shall be final and binding.

During this period of guarantee the guarantor shall make good all defects to the satisfaction of the Engineer-in-Charge at his cost and shall commence the work for such rectification within seven days from the date of issue of the notice from the Engineer-in-Charge calling upon him to rectify the defects failing which the work shall be got done by the Department by some other contractor at the GUARANTOR'S Cost and risk. The decision of the Engineer-in-Charge as to the cost, payable by the guarantor shall be final and binding.

That if the guarantor fails to make good the defects or commits breach there under then the guarantor will indemnify the principal and his successors against all loss, damage cost, expenses or otherwise which may be incurred by him by reasons of any default on the part of GUARANTOR in performance and observance of this supplementary agreement. As

to the amount of loss and / or damage and / or cost incurred by the Government and the decision of the Engineer-in-Charge will be final and binding on both the parties.

An amount equivalent to 2% of items * will be deducted from Bills as security and the same will be refunded after One years from the date of completion of work.

INWITNESSWHERE OF these presents have been executed by the obligator---------- and by and for and on behalf of the PRESEDENT OF INDIA on the day, month and year first above written.

SIGNED sealed and delivered by (OBLIGATOR) in the presence of

1.

2.

SIGNED FOR AND BEHALF OF THE PRESIDENT OF INDIA BY

In the presence of

1.

2.

MEMORANDUM OF UNDERSTANDING [M.O.U]

(Separate for each sub head of E&M work)

1] M/S [Name of the firm with full address]

(Henceforth called the main contractor)

And

2] M/S[Name of the firm with full address]

(Henceforth called Associated Electrical Contractor or Electrical Contractor)

For the execution of Electrical Work "Replacement of existing KONE Make Outlived Bed lift of G+4 floor with new lift in the AIIPMR Hospital, Mumbai"

Name of sub-work: ……

We state that M.O.U between us will be treated as an agreement and has legality as per Indian Contract Act [amended upto 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. In case of any dispute, either of us will go for mediation/arbitration by the EE (E), Mumbai-II, CPWD, Mumbai-37. Any of us may appeal against the edition/arbitration to the EE (E), Mumbai-II, CPWD, Mumbai-37. His decision shall be final and binding on both of us.

We have agreed as under:

1. The electrical contractor will execute all electrical works in the wholesome manners per terms and conditions of the agreement. The electrical contractor shall be paid asper standard procedure followed by the department and the agreement between parties. Any type of internal transaction between the electrical contractor and the main contractor shall be as per their convenience and mutual understanding without involving the department.

2. The electrical contractor shall be liable for disciplinary action if he failed to discharge the action[s] and other legal action as per agreement.

3. All the machinery and equipments, tools and tackles required for execution of the electrical works, as per agreement, shall be the responsibility of the electrical contractor.

4. The site staff required for the electrical work shall be arranged by the electrical contractor as per terms and conditions of the agreement.

   i) 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.

   ii) All the correspondence regarding execution of the electrical 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.

5. Name of the Sub Head to be indicated:

Signature of main contractor Signature of associated electrical contractor

Name : Name :

Address : Address :

Date: Date:

Place: Place:

COUNTERSIGNED

EXECUTIVE ENGINEER (E)

CPWD–7/8

GOVERNMENT OF INDIA

CENTRAL PUBLIC WORKS DEPARTMENT

Percentage Rate Tender & Contract for Works

Tender for the work of :- " Replacement of existing KONE Make Outlived Bed lift of G+4 floor with new lift in the AIIPMR Hospital, Mumbai."

(i) Tender to be submitted / uploaded by **03:00 PM** on 30/10/2026 upload at www.etender.cpwd.gov.in

(ii) Technical bid to be opened in presence of tenderers who may be present at **03:30 PM** on **16/11/2026** in the office of **EXECUTIVE ENGINEER (E), MUMBAI-II, CPWD, MUMBAI-37.**

TENDER

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

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

We agree to keep the tender open for **Seventy-Five (75) days** from the due date of its opening in case of two bid system and not to make any modification in its terms and conditions.

I/We have deposited EMD for the prescribed amount 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, beat 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 (c) 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 of the State.

Dated Signature of Contractor

Witness: Postal Address

Address:

Occupation:

ACCEPTANCE

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

(Rupees .....).

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

(a) ..... (b)

.....

(c) .....

Dated: .....

(For & on behalf of President of India)

Signature.....Designation.....

PROFORMA OF SCHEDULES: A TO F

SCHEDULE 'A':

Schedule of quantity for quoting rates : AS Attached

SCHEDULE 'D'

Extra schedule for specific requirements / document for the work, if any. General Terms and Condition.:- Special Conditions and Particular Specifications

SCHEDULE 'E'

Reference to General Conditions of Contract : - **General Conditions of Contract 2023 Maintenance Work) as modified & corrected upto previous day of the last date of submission of tender.**

Name of work:	**Replacement of existing KONE Make Outlived Bed lift of G+4 floor with new lift in the AIIPMR Hospital, Mumbai.**
Total Estimated cost of work:-	Rs. 50,78,996.00 /-
(i) Earnest money:-	Rs. 1,01,580/-
(ii) 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.**
(iii) Security deposit:-	@ 2.5% of Tendered value

SCHEDULE 'F': (General Rules & Directions)

Officer inviting tender : Executive Engineer (E), Mumbai-II, CPWD

Definitions:

2(vi) Engineer-in-charge**:** Executive Engineer (E), Mumbai-II, CPWD, Mumbai

2(viii) Accepting Authority: Chief Engineer, Mumbai-I, CPWD, Mumbai

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

2(x)(b) Standard Schedule of Rates: of	CPWD, DSR 2025 with amendments up to the date submission of bids.
2(xi) Department:	Central Public Works Department
9(ii) Standard CPWD contract Form	**General Conditions of Contract for** Maintenance **Works 2023, Form-7 modified & corrected up to last date of submission of bids:**

Clause 1

Time allowed for submission of Performance Guarantee, The contractor whose bid is accepted will be required to furnish Performance Guarantee of (a) 5% (Five Percent) of the ECPT (Estimated Cost Put to Tender) or Tender Cost (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 within the period specified in Schedule F. This guarantee shall be in the form Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribed) issued by a Commercial Bank in accordance with the prescribed form within 07 days of issue of letter of acceptance. This period can be further extended by Engineer-inCharge up to a maximum period of 03 days on the written request of the contractor, program chart,

(i) Time and Progress and applicable labour licenses, registration with GST, EPFO, ESIC and BOCW Welfare Board or proof of applying thereof from the date of issue of letter of acceptance, in days:	07 (Seven) days
ii) Maximum allowable extension with late fee @ 0.1% (Non-refundable)per day of performance Guarantee amount beyond	

the period provided in i) above in days. 3 days with late fee @ 0.1% per day

Clause 2

Authority for fixing Compensation under CE, MUMBAI-I, CPWD, Mumbai or his successor(s)

Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start : 07 (Seven) days

Milestones as per table given below

Table of Milestones

Sl. No.	Description of Milestone (Physical)	Time allowed for achieving in days (from date of start)	% Amount of tendered cost to be with-held in case of non- achievement of milestone
1	Submission of approval from local authority and G.A drawings before execution of work	1.0 Month	1% of Tendered Cost
2	Procurement of materials after dismantling of existing lifts& Lift erection permission	2.0 Months	1% of Tendered Cost
3	Installation of 2 Nos. Lifts including final testing & issue of Lift License and Handing Over to Client.	4.0 Months	2% of Tendered Cost
4	Obtaining all local authority approval and License of Lift and Final handing over to Client.	5.0 Months	1% of Tendered Cost

NOTE: 1. Withheld amount shall be released if and when subsequent milestone is achieved within respective time specified. However, in case milestones are not achieved by the Bidder for the work, the amount shown against each milestone shall be withheld.

Time allowed for execution of work: 05 (Month)

i) Authority to convey the decision of shifting

of milestone and extension of time, if any : EE (E), MUMBAI-II, CPWD, Mumbai or his successor(s)

ii) Authority to decide rescheduling of milestones and Extension of time, if any : CE, MUMBAI-I, CPWD, Mumbai or his successor(s)

iii) Authority to decide Shifting of date of start in case of delay in handing over of site : CE, MUMBAI-I, CPWD, Mumbai or his successor(s)

Site Details Site is Available

Clause 6 : Electronic Measurement Book (EMB) through CPWD ERP Portal

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: 15 Lakhs

Clause 7A

Whether Clause 7A shall be applicable **Yes, No Running Account Bill / Final Bill shall be paid for the work till the applicable labour licenses, registration with GST, EPFO, ESIC and BOCW Welfare Board, whatever applicable as submitted by the Bidder to the Engineer-in-Charge.**

Clause 8

Competent Authorities to inspect and issue part / final completion certificate : EE,(E) Mumbai-II, CPWD, Mumbai-37

Clause 8A

Authority to decide compensation on account If contractor fails to submit completion plans for Internal and External Civil, Electrical and Mechanical Services within 30 days: : EE(E), Mumbai-II, CPWD, Mumbai-37

Clause 10A

Testing equipment to be provided

by the contractor at Field testing laboratory: List attached as Appendix I

Clause 10B (ii)

Whether Clause 10B (ii)shall be applicable: Not Applicable

Clause 10C Applicable (25%)

Clause 10CC **Not applicable**

Clause 11

Specifications to be followed for execution of work:

CPWD General Specification for CPWD General Specifications of Electrical Works Part-I (Internal) 2023, Part-II (External) 2023, Part III Lift and Escalators – 2003 & Amendment-1, National Building Code-2016 as amended up to date, Local Body guidelines, relevant IE rules as amended & as per directions of Engineer-in-Charge.

Note :- ***All above specifications shall be applicable with correction slips up to last date of submission / uploading of bid.***

Clause12

Authority to decide deviation beyond 1.25 Amount : CE (MUMBAI-I), CPWD, Mumbai or his successor(s).

Note: -:

1. Contractor will devise a system to keep a watch on quantum of work taken up vis-avis balance items required to complete defined scope of work and will give the alerts to Engineer-In-Charge before taking up extra item(s), deviation(s) so that completion cost does not exceed above limit. Work executed beyond above limit will neither be recorded nor be paid. The completion cost shall, in no case, exceed 1.5 times the contract amount.

Clause 16

Competent Authority for deciding reduced rate. CE, MUMBAI-I, CPWD, Mumbai or his successor(s) **Clause 18**

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

Description of Machinery	Quantity
As per Appendix –I	

Clause 19 (C)

Authority to decide penalty for each default: Engineer-in-charge

Clause 19 (D)

Authority to decide penalty for each default: Engineer-in-charge

Clause 19 (G)

Authority to decide penalty for each default: Engineer-in-charge

Clause 19 (K)

Authority to decide penalty for each default: Engineer-in-charge

Clause 25

Conciliator	Special Director General (Mumbai) or his successor(s)
Arbitrator Appointing Authority	Chief Engineer, Mumbai-I, CPWD, Mumbai or his successor(s)
Seat and Place of Arbitration	Mumbai

Clause 32

The Requirement of Technical Representative(s) and Recovery Rates applicable as below:-

Sr. No.	Qualification	Number	Minimum Experience in years	Designation	Rate of which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 32
1	Graduate Engineer Or Diploma Engineer	1	2 years or 5 years 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-years relevant experience with a reputed construction company can be treated at par with Graduate Engineers for the purpose of such deployment subject to that such diploma holder should not exceed 50% of requirement of degree engineers.

Assistant Executive Engineer (P) (E)
Mumbai-II, CPWD, Mumbai 37

Executive Engineer (E)
Mumbai-II, CPWD, Mumbai 37

Appendix-I

Equipments for Testing of Materials & Concrete at Site Laboratory

Equipments for conducting necessary tests (as per CPWD Specifications 2019) shall be provided and installed at site in the well-furnished site laboratory by the agency at his own cost. The following laboratory equipment should be in general or as and when required be set up at site laboratory: -

(A) Electrical: -

1. Megger (0-1000v)
2. Tongue Tester
3. Aluminium Ladder-Suitable for internal & external electrical work.
4. Tacho Meter
5. Hydro Meter
6. Crimpling tool for all sizes.
7. Wheel ladder for street light repairing
8. Ammeter
9. Voltmeter 0–500volts
10. Chain wrench 2",4",6"
11. Pipe wrench up to 4"
12. Spanners kit
13. Insulation tester
14. Earth resistance tester
15. Lux Meter (Digital)
16. Vernier; Screw gauge (Digital)
17. Lift Inspection Tools & Machinery

Note:

1. **The above list is only indicative and not exhaustive. The Bidder may be required to deploy more equipment as per requirement of work.**

2. **All the above plants & machinery are to be deployed as and when required or directed by Engineer-in-Charge.**

PART – B

GENERAL TERM & CONDITIONS

Name of Work : Replacement of existing KONE Make Outlived Bed lift of G+4 floor with new lift in the AIIPMR Hospital, Mumbai.

1. **Related Documents**
   These additional specifications are to be read in conjunction with the specification given in the tender. In case any item/ items or part thereof are not covered under these specifications, the same shall be carried out as per relevant part of the **CPWD General Specification for Electrical Works amended up to date,** Relevant Indian Electricity Rules and Indian Electricity Act amended up to date; Relevant BIS specifications amended up to date; NBC 2016 amended up to date and ECBC2017 amended up to date and as per direction of Engineer- in-Charge. These additional specifications are to be read in conjunction with above and in case of variations; specifications given in this additional condition shall apply. However, nothing extra shall be paid on account of these additional specifications and conditions, as the same are to be read along with schedule of quantities for the work.

2. **Terminology**
   The definition of terms used in these specifications shall be in accordance with relevant IS. All components shall conform to relevant Indian Standard Specifications, International Standards and shall bear the stamp of the testing laboratory wherever existing and amended to date.

3. **Order of Preference:**
   In case of discrepancy, if any, between the description 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:
   (i) Schedule of quantities
   (ii) Additional and Commercial Conditions
   (iii) Technical specifications specified in the tender
   (iv) General Conditions of Contract for CPWD Works
   (v) Drawings
   (vi) CPWD General Specifications
   (vii) Relevant IS or any other international code in case IS code is not available.
   (viii) Manufacturer's Catalogue, Specifications and Recommendations.

4. **Site Information**
   The work shall be carried out in a pre-occupied building, and working time may be restricted by the client, claims for idle labour (s) will not be entitled. The Bidder should in his own interest visit the site and get themselves familiarize with the site condition and have to inform regarding any issue arise after site inspection to tender inviting authority.

5. Completeness of the Tender, Submission of Programme, Approval of Drawings and commencement of work

I. Completeness of the tender:-

All sundry equipments, 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 equipments 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. Safety Codes and Labour Regulations

i. In respect of all labour employed directly or indirectly, for the execution of work, the contractor at his own expense, will arrange for the safety provisions as per the statutory provision, B.I.S. recommendations, factory act, and 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. In addition, the Engineer-in- charge shall be at liberty to make arrangements and provide facilities as aforesaid and recover the cost incurred thereon form the contractor.

ii. The contractor shall provide necessary wire mesh metal doors for lift shaft with lockable arrangement, barriers, signals and other safety measures 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 to cover the risk. No extra payment would be made to the contractor due to the above provisions thereof.

7. General security restrictions are given as under:

a) No inflammable materials including P.O.L. shall generally be stored at site of work.
b) The movement of trucks and vehicles will be regulated in accordance with rules and regulations as approved by competent authorities.
c) The contractor shall inform in advance, the truck registration number, Ownership of the trucks, name sand address of the drivers and labour for necessary action by the security agency.
d) Due to the site conditions, no space for construction of go down and stay of site staff may be allowed.
e) Names and addresses of labourers/ staff along with identity proof and residence address proof etc. working at site shall be furnished in advance for security verification for issue of passes.
f) The labourers/staff should not be changed too frequently once the verification of the character and antecedents in done.
g) As and when there will be security requirements, certain additional restrictions can be proposed as per the requirement of the situation.
h) **IDENTITY CARDS:-**The identity cards will be issued to the workmen employed by the contractor after proper police verification for which Contractor shall submit a list of workers to

be deployed on site of work. The cost of photos would be borne by the contractor. They will be required to carry the identity- cards with them during their working inside the building.

i) Due to security constraints, all the working personal may not be allowed to carry the mobile phone or any other electronic gadgets. The instruction of security personal in this regard shall be followed religiously.

j) Therefore, in view of the situation explained under above paragraphs the tenderer must visit the site and must get him acquainted with the proposed site of work, study specifications and conditions carefully before tendering rates. Nothing extra shall be paid on account of compliance of any of these clauses. The hindrance due to security constraints shall be not be accounted towards adjustment of completion time mentioned in the tender document.

8. Works to be Arranged by the department

Unless otherwise specified in the tender documents : Space for accommodating all the equipment and components involved in the works, shall be arranged by the Department. However, arrangement to make it lockable and its watch & ward shall be made by contractor himself.

9. Works to be done by the contractor

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

(i) Approval from Local Body as may be required as per local bye-laws. (The contractor's responsibility shall be limited to the work executed by him.)

(ii) Coordination with Civil, Electrical and Client, BMC, Lift Inspector for the said work.

(iii) Suspenders, brackets and supports for suspending/ supporting lift guide ways/counter weights/landing doors, cable tray etc.

(iv) Sealing of all floor slab/wall openings provided by the Department or made by the contractor for laying of pipes & cables from fire safety points of view.

(v) Painting of all exposed metal surfaces of equipments and components appropriate colour as per relevant part of bid document.

(vi) Making opening in the wall/floors/slabs or modifications in the existing openings wherever provided for cable/cable tray etc. Opening in the slab/retaining walls/brick wall etc. shall be made by means of core cutting machines only/approval by competent authority.

(vii) All electrical works including cable/wires, earthing etc. beyond power supply made available by the department.

(viii) Making good all damages caused to the structure during installation and restoring the same to their original finish.

(ix) The water and power supply for installation, testing and commissioning of the complete installation shall be made available by the Department.

10. Rates

The rate quoted by bidder, shall be firm and inclusive of all taxes including GST, duties andlevies and all charges for packing, forwarding insurance, freight and delivery, installation, testing, commissioning etc. at site including temporary constructional storage, risks, overhead charges,

general liabilities / obligation etc. No separate reimbursement shall be made on this account. However, statutory deductions shall be made from the bills, as per rule. The contractor has to carry out maintenance for defect liability period of 05 (Month) for entire installation with all accessories for a period of 05 (Month) from the date of handing over. The rates quoted by the tenderer shall also be inclusive all this, nothing extra shall be paid on this account.

Quoted Rates should be inclusive of all taxes & levies except EPF/ ESIC which shall be reimbursed as per actually paid to Concerned Govt. Dett. Nothing extra shall be payable. It will be the responsibilities of the contractor to provide EPF / ESIC and other facility to their employees as per current labour laws.

Taxes and Duties

The tender is for entering in to percentage rate works contract. The rates quoted shall be inclusive of all materials, prevailing taxes, duties, levies, cess, freight and delivery, labour for installation, testing, commissioning etc. at site including temporary constructional storage, risks, overhead charges, general liabilities / obligation etc. No separate reimbursement shall be made on this account. Statutory deduction on account of GST, Income Tax, Labour Welfare Cess etc., as applicable on original work, (Except credit items) shall be made at source from each running /final bill payment. A certificate of TDS shall be issued by the department to the contractor.

Completeness of Tender :

All sundry equipment fittings, unit assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections, and all other items which are useful and necessary for efficient assembly and installation of equipment's and component of the work shall be deemed to have been included in the tender irrespectively of the fact whether such items are specifically mentioned in the tender document or not.

INSPECTION AND TESTING:

For items/equipment requiring initial inspection at manufacture's work the contractor will intimate the date of testing of equipment's at the manufacture's works before dispatch. The department also reserves the right to inspect the fabrication job at factory i.e. CNC Machinery, Lift Towers for Inspections and successful tenderer have to make the arrangement for the same. The successful tenderer shall give sufficient advance information /notice regarding the dates proposed for such tests/inspection to the department's representative(s) to facilities his presence during testing fabrication. The Engineer-in-Charge at his discretion may witness such testing/fabrication. The cost of the Engineer's visit to the factory will be borne by the Department. Also, equipment may be inspected at the Manufacturer's premises before dispatch to the site by the contractor. Copies of all documents of routine and type test certificates of the equipment, carried out at the manufacturer's premises shall be furnished to the Engineer-in- Charge.

After completion of the work in all respect the contractor shall offer the installation for testing and commissioning.

CARE OF BUILDUING

Care shall be taken by the contractor while handling and installing the various equipment's and components of the work to avoid damage to the building. He shall be responsible for repairing all damages and restoring the same to their original finish at his cost. He shall also remove at his cost all unwanted and waste materials arising out of the installation from the site of work and nothing shall be paid on this account.

11. Acceptable Makes

The acceptable makes of the various equipment's/components/accessories have been indicated in "Acceptable Makes" annexed with this document. The bidders shall work out the cost of the offers on this basis. Prospective bidders are to the quote as per the acceptable makes specified in the tender documents. However, all departure from the specifications and also from the Acceptable Makes of the equipments / components have to be brought down in the forwarding letter to this tender.

However, the departures taken by the bidders shall be evaluated at the time of Technical Evaluation, based on the documentary evidence and also their past performance in case of the alternative makes, if any. Except for the departures brought down in the forwarding letter the tender, it is presumed that intending bidder confirms compliance to the tender specifications in all respect.

Successful bidder is to comply with the **Public Procurement (Preference of Make in India), Order 2017 Revision-dated 23-07-2020 of Govt. of India**, while executing the contract. If any provision made elsewhere in this NIT, which in contravention with the Make in India policy, the latter shall have preference over the former. Engineer-in-charge will have the final authority to take appropriate decision in the matter.

12. Execution:-

a) **Machinery for Erection**

All tools and tackles required for unloading/handling of equipment's and materials at site, their assembly, erection, testing and commissioning shall be the responsibility of the contractor.

b) **Dispatch of Materials to Site and their Safe Custody**

The contactor shall dispatch material to site in consultation with the Engineer-in-Charge. Suitable accommodation shall be made available free of charge temporarily. The arrangement to make it lockable/secure by means of partitions, locks etc. shall be responsibility o the contractor. Watch and ward however, shall be the responsibility of contractor. Program of dispatch of material shall be framed keeping in view the building progress. Safe custody of all machinery and equipment supplied by the contractor shall be the responsibility of the contactor till final taking over by the department. **c) Extent of Work**

The work shall comprise of entire labour including supervision and all material necessary to meet a complete installation and such tests and adjustment and commissioning, as may be required by the department. The term complete installation shall not only mean major items

covered by the specification but all incidental sundry components necessary for complete execution and satisfactory performance of installation with all layout charts whether or not those have been mentioned in detail in the tender documents in connection with this contract as this is a turnkey job.

d) Compliance with Regulations and Indian Standards:

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.

b. Indian Electricity Rules.

c. B.I.S. & other standards as applicable.

d. Workmen's compensation Act.

e. Statutory norms prescribed by local bodies like CEA, Power Supply Co. ,Loca body etc.

e) Nothing in this specification shall be construed to relieve the successful tenderer of his responsibility for the design, manufacture and installation of the equipmentwith accessories in accordance with currently applicable statutory regulations and safety codes.

f) Successful tenderer shall arrange for compliance with statutory provisions of safety regulations and departmental requirement 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 of Rs. 500/ - 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. **g) Indemnity:**

The successful tenderer shall at all times indemnify the department, consequent on this works contract. The successful tenderer shall be liable, in accordance with the Indian Law and Regulations for any accident occurring due to any cause and the contractor shall be responsible for any accident or damage incurred or claims arising there from during the period of erection, construction and putting into operation the equipments and ancillary equipment under the supervision of the successful tenderer in so far as the latter is responsible. The successful tenderer 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 tenderer on account of the above.

h) Co-ordination with other Agencies

The contractor shall co-ordinate with all other agencies involved at the site of work so that the work of other agencies is not hampered due to delay in his work. The work, which directly affect the progress of work of other agencies, shall be given priority.

Quality of Materials and Workmanship

(i) The components of the installation shall be such design so as to satisfactorily function under all conditions of operation.

(ii) The entire work of manufacture/fabrication, assembly and installation shall conform to sound engineering practice.

(iii) All equipments and material 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.

(iv) All equipments and materials to be used in the work shall be brand new having its date of manufacturing not more than 1- year old from the date of delivery at site with manufacturer's certificates, warrantee cards, technical catalogues, instructions, manuals and wiring diagrams etc.

1. Final Inspection and Testing

I. Final Inspection and testing will be done by the Engineer-in-Charge or his representative as per details indicated in relevant section of Technical Specifications.

II. The installation will be offered for inspection by local bodies, if required. The contractor or his representative shall attend such inspection of the Local authority, Local Body, etc, if any and extend all test facilities as are considered necessary, rectify and comply with all observations of the Local authority, Local Body etc, if any, which are part of the agreement and arrange for obtaining necessary clearance certificate in Favor of department. Incise contractor fails to attend the inspection and make desired facilities available during inspection, the department reserves the right to provide the same at the risk and cost of the contactor and impose penalty for the same. The installation will be accepted by the department only after receiving clearance from Local Lift Inspector authority, Local Body etc, for the work executed by the contactor under the agreement.

2. <u>SPECIAL CONDITION FOR SAFETY AT THE WORK SITE</u>

The contractor will identify one of the supervisors for taking care of implementation of Safety systems. The Contractor should follow the following General Guidelines governing the safety rules as laid down under:

i. Smoking is strictly prohibited at work place.

ii. Nobody is allowed to work without wearing safety helmet. Chinstrap of safety helmet shall be always on. Drivers, helpers and operators are no exception.

iii. No one is allowed to work at or more than three meters height without wearing safety belt and anchoring the lanyard of safety belt to firm support preferably at shoulder level.

iv. No one is allowed to work without adequate foot protection.

v. Usage of eye protection equipment shall be ensured when workmen are engaged for grinding, chipping, welding and gas-cutting. For other jobs as and when site safety co-coordinator insists eye protection has to be provided.

vi. All safety appliances like Safety shoes, Safety gloves, Safety helmet, Safety belt, Safety goggles etc. shall be arranged before starting the job.

vii. All excavated pits shall be barricaded & barricading to be maintained till the backfilling is done. Safe approach is to be ensured into every excavation.

viii. Adequate illumination at work place shall be ensured before starting the job at night.

ix. All the dangerous moving parts of the portable / fixed machinery being used shall be adequately guarded.

x. Ladders being used at site shall be adequately secured at bottom and top. Ladders shall not be used as work platforms.

xi. Material shall not be thrown from the height. If required, the area shall be barricaded and one person shall be posted outside the barricading for preventing the tress-passers from entering the area.

xii. Other than electricians no one is allowed to carry out electrical connections, repairs on electrical equipment or other jobs related thereto.

xiii. All electrical connections shall be made using 3 or 5 core cables, having an earth wire. xiv. Inserting of bare wires for tapping the power from electrical sockets is completely prohibited.

xv. A tools and tackles inspection register must be maintained and updated regularly.

xvi. Debris, scrap and other materials to be cleared from time to time from the workplace and at the time of closing of work every day. xvii. All the unsafe conditions, unsafe acts identified by contractors, reported by site supervise or sand /or safety personnel to be corrected on priority basis. No children shall be allowed to enter the work place.

xviii. All the lifting tools and tackles shall be stored properly when not in use. xix. Lamps shall be used on Return cables to ensure proper earthling for welding works. xx. Return cables shall be used for earthling. xxi. All the pressure gauges used in gas cutting apparatus shall be in good working condition. xxii. Proper eye washing facilities shall be made in are as where chemicals are handled.

xxiii. Connectors and hose clamps are used for making welding hose connections. xxiv. Allundergroundcablesforsupplyingconstructionpowershallberoutedusingconduitpipes.

xxv. Spill trays shall be used to contain the oil spills while transferring/storing them.

xxvi. Tapping of power by cutting electric cables in between must be avoided. Proper junction boxes must be used.

3. QUALITY ASSURANCE PLANS :

A) Internal & External Electrical work: -

1. For Internal and External electrical works, the bidder should have **valid electrical contractor license** from competent authority in the name of the contractor, or he may associate **electrical contractor licensed** agency for work execution of suitable voltage rating.

2. The contractor will have to ensure that the skilled / semi-skilled labour, engaged in the execution of the work must possess valid electrical license / qualifications, otherwise he will not be permitted to execute the work and shall submit the fortnightly labour report.

3. Sample of materials like pipe, conduits wires, of each size etc. may be got tested in the laboratory approved by Engineer -in charge, as and when desired by Engineer-in-charge. All the materials intended to be used in the work shall be got approved by Engineer-In-Charge before use at site.

4. Fish wire shall be provided in each conduit where wiring is not carried out.

5. Extra item, substitute item, deviation etc. shall be carried out only with written permission of competent authority.

6. Necessary documents of handing / taking over of the installation will be duly verified by the JE(E)/AE(E) for any defect and shall be rectified before finalization of Contract

7. The work shall be carried out as per direction of Engineer-in-charge and CPWD specifications for Electrical Works and https://cpwd.gov.in/Publication/Quality_Assurance_poilcy.pdf for Quality 3rd Party Inspection and Testing of Materials applicable.

8. Taxes, levies etc. as applicable shall be deducted from the contractor's bill. No Road Permit/ From 31 etc. shall be issued by the Department. The rates quoted shall be inclusive of all taxes, duties, levies, T & P and petty items like including log book, complaint register duster, Mobil oil, test lamp etc. and no advance payment will be made.

9. The labour deployed site for execution of work shall take all safety precautions and the contractor shall be responsible for compliance of all labour regulations, liabilities and safety measures. If CPWD is not satisfied with the performance of labour, then alternate staff is to be provided immediately.

10. All required documents shall be provided for verification of the staff deployed at site for execution of work.

11. The contractor shall be required to possess during the full currency of the contract a valid license for employing contract labour from the appropriate licensing authority under the contract labour (Regulation and abolition) act 1970. The contractor shall be solely responsible for compliance of various statutory obligation (including the financial liabilities) under contractor labour regulation & abolition Act. Minimum wages act etc. and other applicable laws and rules framed there under from time to time. Contract workers are to bepaid not less than fair wages which means wages fixed by CLC, Govt. of India under the provisions of the Minimum Wages Act. Wages due to the worker shall be paid to him directly by the contractor through Bank or ECS or Online transfer to his bank account and receipt of wages shall be attested by the worker concerned.

12. The contractor will have to arrange his own T & P required for the work. The department will not arrange any T & P and nothing shall be paid on this account.

    a) EARTH TESTER
    b) MEGGER 500 V / 2500 V
    c) LINE TESTER, TEST LAMP
    d) VERNIER/WIRE GUAGE
    e) SPANNER KIT.
    f) CHASE CUTTING MACHINE
    g) CRIMPING TOOLS
    h) MULTI METER & TONG TESTER
    i) ALUMINIUM LADDER –TWO / FOLDABLE / TROLLEY MOUNTED
    j) CHAIN WRENCH/PIPE WRENCH.
    k) HYDROMETER.
    l) LUX METER (DIGITAL)
    m) Lift Inspection Tools & Machinery

13. No residential accommodation shall be provided to any of the staff engaged by the contractor. The contractor shall also not be allowed to erect any temporary set up for staff in the campus.

14. The Site Engineers and all deputed staff shall carry mobile telephones(s) to enable the Engineer-incharge or his representative to have easy and quick communication. Nothing extra shall be paid on account and his quoted rates for various items under this contract will be inclusive of this obligation. Contractor is bound to give all the telephone no. of their staff deployed at site to the Engineer in charge, immediately after award of work.

15. Safety codes and Labour Regulations: - Introspect to fall labour employed directly or indirectly on the work for the performance of the contractor's part of work, the contractor at his own expense, will arrange for safety provision as per the statutory provisions, B.I.S. recommendations, factory act, workman's compensation act, CPWD code and instruction issued from time to time. Failure to provide such safety requirement would make the tenderer liable for penalty as per Part-A for each default. In addition, the Engineer-in- charge, shall be at liberty to make arrangements and provide facilities as aforesaid and recover the cost from the contractor. Safety of the staff employed will be the responsibility of the contractor. CPWD will not be responsible for any mishap, injury / accident or death of the staff. No claiming this regard shall be entertained / accepted by the department.

16. Contractor shall be fully responsible for any damages caused to govt. property or allottee's property by his or his labour during the carrying out the work. All such damages shall be rectified by the contractor at his own cost, failing which the same will be got rectified by Engineer-in-charge and the expenditure incurred shall be recovered from the contractor bill. The watch and ward of installation shall be the responsibility of the contractor.

17. All the items to be replaced should be of same specifications or better with ISI marked or as approved by the Engineer-in-charge. Makes of the items used has been specified, however if make of any item not mentioned below same will be used ISI marked after getting approval by Engineer in charge. Dismantled items as received from the site shall be the property of the Govt. and required to be handed over to JE (Electrical) in store.

18. Contractors are requested to inspect the site before quoting their rates for the tender; later on, no further claims in this regard shall be entertained.

19. After the completion of the contract, the firm shall have to hand over complete installation to the department in good working condition. All defects and deficiencies shall have to be rectified by the firm to the entire satisfaction of Engineer-in-charge failing which the work shall be got done at the risk and cost of the firm. Any damage caused to the fittings/ switch gears/ installations/ machinery as a result of execution of this work shall have to be made good by the contractor at his own risk and cost.

20. The staff engaged has to be courteous and maintain good behaviour at site. Any person, find discourteous or misbehaviour shall have to be replaced within 48 hours, failing which, the Engineering-Charge

has the power to cancel the contract, and the contractor shall have no claim of compensation. Decision of the Engineer-in-Charge shall be final and binding on the contractor. The contractor shall submit the name, address & character certificate of the worker/ staff employed by them at the site of work to the Engineer-in-Charge before start of the work.

21. Wages Payment by the contractor to the deployed staff shall be mandatorily paid through digital mode of Bank / ECS / Online transfer on monthly basis.

22. All E & M installations shall be operated, maintained and tested as per the Elect Rules, Manufacturer recommendations for routine & preventive maintenance and CPWD specifications for Elect works amended up to date.

23. **Special Conditions for Works**:

Terms of Payments: Following payment terms shall be applicable.

i) No advance payment shall be made.
ii) Part rates shall be paid
   a) @80% after initial inspection (wherever specified) and delivery at site in good condition on prorate basis.
   b) @90% On completion of installation in all respect on pro-rata basis.
   c) @95% On testing, Commissioning, Obtaining Clearance from Local Body.
   d) @100% On Handing over to the department for beneficial use in all respect.

24. Tender Drawings, Drawings for Approval and Completion Drawings Tender Drawings for approval on award of the work. The contractor shall prepare and submit following drawings within 15 days of award of work for approval before commencement of installation. The approval of drawings however does not absolve the contractor of his responsibility to supply the equipments/ materials as per agreement. In case of any contradiction between the approved drawings and agreement the decision of the Engineer-in Charge shall be final and binding on the contractor.
   •Detailed layout plan of System etc.
   • Technical particulars of each and every item to be used at site.
   • Any other drawings relevant to the work.
25. Lowest bidder shall submit along-with the tender, an Authorization certificate cum undertaking from the OEM of Lift Manufacture as per Annexture-IV

26. Completion Plan, Completion Certificate and Guarantee/ Warranty Certificate.
   a) The main contractor through his associate OEM shall submit Completion certificate after completion of work as given in CPWD General Specification for electrical works to Engineer-inCharge as applicable within time as stipulated in milestones.
   b) Original Guarantee/ Warranty certificate issued by the manufacturers.
27. Completion drawings Three sets of the following laminated documents shall be submitted by the contractor while handing over the installation to the Engineer in Charge. Out of this one of the sets shall be laminated on a hard base for display in the site office.
   a) Completion drawings and Layout Plan as built complete with Inventory of Items,
   b) Manufacturer's technical catalogues of all equipments and accessories,

c) Operation and maintenance manual of all major equipments, detailing all adjustments, operation and maintenance procedure.

28. Final Inspection and Testing

I. Final Inspection and testing will be done by the Engineer-in-Charge or his representative as per details indicated in relevant section of Technical Specifications.

II. The installation will be offered for inspection by local bodies, if required. The contractor or his representative shall attend such inspection of the Local Lift authority, Local Body etc, if any and extend all test facilities as are considered necessary, rectify and comply with all observations of the Local Lift authority, Local Body etc, if any, which are part of the agreement and arrange for obtaining necessary clearance certificate in favour of department. In case contractor fails to attend the inspection and make desired facilities available during inspection, the department reserves the right to provide the same at the risk and cost of the contactor and impose penalty for the same. The installation will be accepted by the department only after receiving clearance from Local Lift authority, Local Body etc, for the work executed by the contactor under the agreement.

QUALITY ASSURANCE PLANS

A. The detailed instructions on safety procedures given in BIS code no. 5216:1982"Code of safety Procedures and Practices in Electrical works" shall be strictly followed.

a) Safety procedures given in Chapter 10 of CPWD General Specifications for Electrical works Part)1Internal) shall be followed.
b) Safety recommendation as per IE rules 1956 as per Appendix "C".
c) The materials shall be tested from 3rd Party laboratories as required.
d) Provisions and fixing of check-nuts for conduit work as per CPWD Specifications.
e) No. of wires in one conduit shall be ensure as per CPWD Specifications.
f) Colour coding of wires to be ensure.
g) Lugs and thimbles at cable/ wire ends in switch boxes as per CPWD Specifications.
h) Levelling of limit switch boxes shall be ensured.
i) Termination of earth terminals in earth pits, switch box, DBs and accessories to be ensured. Earth chamber to be constructed and proper marking to be done.
j) A comprehensive schematic diagram is prepared starting from the main board up to the final DBs.

All such boards are duly marked and numbered.

k) The pre-commissioning testing of the installation shall be carried out such as i) Insulation resistance test. ii) Polarity test of switch. iii) Earth continuity test. iv) Earth electrode resistance test.
l) All the tests at site shall be carried out for the completed installations, in the presence of and to the satisfaction of the Engineer in Charge by the contractor. All the test results shall be recorded and submitted to the Department.
m) On completion of an electrical installation (or an extension to an installation), a certificate shall be furnished by the electrical contractor, countersigned by the certified supervisor under who's direct supervision the installation was carried out. This certificate shall be in the prescribed form as given in Appendix "E" of CPWD General Specifications for Electrical works Part-) 1 Internal) in addition to the test certificate required by the local electric supply authorities.

Activity for Lift Work

Carry out of survey for designing the Lift plan as per available lift shaft area and prepare drawings as per Lift Specification for approval before start of execution.

1. Approval of GAD/Lift Plans drawings of Lift system from CPWD, local bodies, Lift Inspector to obtain lift erection permission and after completion of final lift license.
2. Coordinate with all concern department for arranging of required document to obtain Lift erection permission and lift license.
3. Submission of at least Colored 3 Set of Approved Lift and Final Execution/Working Drawings for Execution process and approval.
4. Govt. applicable Fees of BMC/Chief Lift Inspector is excluded in this work, it shall be pay be Department, however coordinate be agency for payment and challan regarding.
5. Preparation and provide working drawing of all lift services including. All necessary correction shall have to be carried out by the agency as and when required during execution or recommendation by local lift inspector or officer.
6. Preparation of Detailed Qty for execution and approval from Engineer-in-charge.
7. Installation shall be offered for Inspection during execution or as and when required by the CPWD/Chief Lift Inspector or Officer.
8. After completion of above work should be tested as per Norms of CPWD specifications and comply with Maharashtra Lift Act &NBC-2016 and amendments up-to-date, Maharashtra Local Bye Laws.
9. After all necessary testing Final Lift License should be obtained from local lift approval in Spector etc as required by the agency.
10. After completion of all above scope of work agency will train the staff members in Building of Lift system as Emergency Rescue Training and maintain record file of the same in soft/hard copy both.

Special Conditions :-

1. Design shall be done in commensurate with Latest edition of NBC-2016 specifications and Maharashtra Local Bye Laws, C.P.W.D. Part VII-Lift and Escalator Specifications 2013 with all amendments and all pertinent current Indian standard codes.
2. The Bidder must have good operational infrastructure with In-House computers and appropriate Engineer software of structural design, capable of performing linear and nonlinear analysis and design and also to prepare drawing.
3. The Bidder should satisfy himself by visiting the site before quoting his rate.
4. The Bidder shall be requested to attend office of the Executive Engineer (E) Mumbai -II ,MCED-IV, CPWD, Mumbai as and when required and shall provide all the requirements/clarifications input-output design data in connection with checking of design and drawings.
5. All the drawings documents shall be kept confidential and in no way these are to be disclosed to any other person not connected with this work.
6. **Approval from Local Body**:-

The Contractor shall be required to obtain Lift Erection Permission for dismantling and after successful installation final Lift License from Lift authority, any other local body (if required) and work shall be deemed to be completed only after receiving final License to operate of Lift & rectification if any. The liaising work / arranging inspection of Lift Inspector shall be the responsibility of contractor.

ADDITIONAL TERM & CONDITIONS FOR LIFT WORK

SCOPE OF WORK

The scope includes Planning, Designing & preparation of Drawings, obtaining approvals from the Department, Providing, installation at site, testing and commissioning of electric operated **Bed lifts & putting into operation and maintenance of the same upto the defect liability period** details as given below, serving with all control equipment & accessories, for the required nos. of landings/openings, speed and capacity as per architectural plans, electrical cabling and control Distribution boards with MCBs and in accordance with NBC 2016 as amended up to the date.

If any item required to make the service habitable and functional, is not specifically mentioned in the scope of service, the same is deemed to be included within the scope of this tender and nothing extra shall be paid on this account. No consideration will be given to extra payment based upon difference in interpretation of the specification and drawings.

Following features shall be considered while designing:

i. Safety to personnel and equipment during both operation and maintenance Reliability of service

ii. Minimal fire risk

iii. Ease of maintenance and convenience of operation

iv. Automatic protection of all electrical equipment through selective relaying system Maximum inter changeability of equipment

v. Fail safe feature.

vi. Suitability of applicable environmental factors

vii. These specifications define the basic guidelines of the system as necessary for lifts. All data required in this regard shall be taken into consideration to develop a detailed engineering of the system. Site conditions as applicable are mentioned elsewhere. Compliance with these specifications and or approval of any of contractor's documents shall in no case relieve the Contractors of his contractual obligations.

viii. All works to be performed and supplies shall be affected as apart of contract requirement, specific approvals/review of Engineer-in-Charge. Major activities requiring approvals / review shall include but not be limited to the following:-

1. General Arrangement drawings for the lifts including section through lift pit and lift shaft,
2. Quality assurance procedures,
3. Field testing and commissioning procedures
4. Engineering activities to be performed by Contractor shall include but not be limited to the following as relevant to the scope of work included in the project specification.
5. Control and protection scheme.
6. Making of shop drawings with bill of materials.
7. Factory inspection and testing procedures.
8. Field testing and testing procedure.

9. Preparation of as-built drawings
10. Any other work/activity, which is not listed above, however is necessary for the completion of lift/system.

Lift details:

S. No.	Building Name	No. of Floors	Type of Lift	Lift Capacity	Speed (m/s)	Serving Floor Travel	No. of Lifts
1	**AIIPMR Hospital, Mumbai**	Ground + Four	BED LIFT	20 Passengers 1360 KG	1.0	5	2

TERMS & CONDITIONS

1.0 Related documents:

These technical specifications shall be read in conjunction with the General conditions of contract with all correction slips, as well as schedules and drawings. In the event of any discrepancy between those specifications and inter-connected contract documents, the technical requirements as per the tender specifications shall be followed and deem to be having over-riding value.

The contractor shall provide necessary barriers, warning signs and other safety measures etc., wherever necessary so as to avoid accident. In addition, all safety procedures as outlined in Appendix 'VI' shall be complied with CPWD Specifications for General Specification for Electrical works Part III Lifts and Escalators 2003 & Amendments corrected up to date of receipt of Tender and all latest provisions as per Accessible India requirement vide O.M No.30(01)/Lifts/CE,CSQ(E)/E-3141577/ 2024/02E Dtd.19/01/2024 amended up to date.

The definition of terms used in these general specifications are given in Chapter II of CPWD Specifications for General Specification for Electrical works Part III Lifts and Escalators 2003 corrected up to date of receipt of Tender.

1.1 Conform it with statutory Acts, Rules, Regulations, Standards and Safety Codes: The installation shall be carried out in conformity with the local lifts Act and Rues. For example, the Bombay Lifts Act for Bombay

Indian Electricity Act Rules:

All electrical works in connection with installation of electric lifts shall be carried out in accordance with the provisions of Indian Electricity Act 220 and the Indian Electricity Rule 1956 amended up to date. The electrical works shall also conform to CPWD General Specifications for Electrical works Part I (Internal) 2023 and part II (External) 2023 amended up to date wherever relevant.

1.2 Safety Codes and Labour Regulations:

The contractor shall at his own expenses arrange for the safety provisions as per the statutory regulations, IS recommendations, regulations under factory Act etc., where applicable and instructions issued from time to time in respect of all labour employed by him directly or indirectly for the installation of the lift.

The contractor shall provide necessary barriers, warning signs and other safety measures etc., wherever necessary so as to avoid accident. In addition, all safety procedures as outlined in Appendix 'VI' shall be complied with CPWD Specifications for General Specification for Electrical works Part III Lifts and Escalators 2003 corrected up to date of receipt of Tender.

In case of default the department shall be at liberty to make arrangements and provide facilities as aforesaid and recover the cost from the contractor.

He shall also indemnify CPWD against claims for compensation arising out of his negligence in this regard.

1.3 Fire Regulations:

The installation shall be carried out in conformity with the local fire regulations and rules there under wherever they are in force.

1.4 Verification of correctness of Equipment at Destination

The contractor shall have to produce all the relevant records to certify that the genuine equipment from the manufacturers has been supplied and erected.

1.5 Training

The scope of works includes on job technical training of two persons at site. Nothing extra shall be payable on this account.

1.6 Guarantee

1.6.1 The installation will be handed over to the department after necessary testing and commissioning. The installation will be guaranteed against any defective design/ workmanship. Similarly, the materials supplied by the contractor will be guaranteed against any manufacturing defect, inferior quality. The guarantee period will be for a period of 24 months from the date of handing over of entire work covered under agreement to the Department. Installation/ equipments or components thereof shall be rectified/repaired to the satisfaction of the Engineer-in-charge. The firm will be required to submit guarantee of material from the manufacturer to the department. AMC of lifts during the defect liability period will be in the OEM scope, nothing extra payable for AMC during defect liability period.

1.6.2 Sufficient trained and experienced staff shall be made available to meet any exigency of work during the **guarantee period till the end of defect liability period**.

1.6.3 The maintenance up to the end of defect liability period, routine as well as preventive, as per manufacturer's recommendation, shall be carried out and the record of the same shall have to be maintained.

1.7 Interpreting Specifications

In interpreting the specifications, the following order of decreasing importance shall be followed in case of contradictions:

(a) NBC-2016
(b) Technical Specifications
(c) CPWD General Specifications
(d) Relevant IS or other international code in case IS code is not available.

1.8 RUNNINGIN PERIOD:

After satisfactory final inspection after complete installation, the contractor shall demonstrate the trouble-free running of the installation for a period of not less than 30 days before the department takes over. During this period the lift shall be kept either automatic or manual mode by the department. After the installation has operated without any major breakdown for 30 days it shall be taken over by Department. During these 30 days period the lift shall be deemed to have run trouble-free, if the number of break downs during this period are not more than four calls excluding false calls and levelling defects.

1.9 DATEOFACCEPTANCE:

Subject to the guarantee clause date of taking over the installation after 30 days of trouble-free operation as per clause 30 shall be the date of acceptance. Any undue wear and tear of components or during the running in period shall be made good by the contractor free of charge.

1.10 PACKAGING

Be suitably protection, coated, covered, or boxed and crated to prevent damage or deterioration during transit, handling and storage at Site till the time of erection. While packing all the materials, the limitation from the point of view of availability of Railway wagon/truck/trailer sizes in India should be taken into account by the Contractor. The Contractor shall be responsible for any loss or damage during transportation, handling and storage due to improper packing. Any demurrage, warfare and other such charges claimed by the transporters, railways etc. shall be tothe account of the Contractor. Owner takes no responsibility of the availability of the wagons etc.

1.11 PROTECTION

All coated surfaces shall be protected against abrasion, impact, discoloration and any other damages. All exposed threaded portions shall be suitably protected with either a metallic protecting device. All ends of all valves and piping and conduit equipment connections shall be properly sealed with suitable devices to protect them from damage. The parts which are likely to get rusted, due to exposure to weather should also be properly treated and protected in a suitable manner

1.16. PERMISSION TO INSTALL THE LIFTS AND LICENSE TO RUN THE LIFTS FROM RELEVANT AUTHORITIES

It shall be the responsibility of the successful tenderer for obtaining the necessary permission, if required, to install the lifts from the Inspector of Lifts, Chief Fire Officer and relevant local authorities and subsequently to have the installation inspected by Inspector of Lifts, Chief Fire Officer & the relevant local authorities and arrange to obtain the license to run the lifts. All relevant papers connected for obtaining the permission and final inspection will be signed by the Owner / Engineer in-Charge. The requisite fee for this purpose shall be payable on the production of original receipts on this account.

1.17 ERECTION

The lift contractor shall commence the erection of the lift equipment's immediately after receipt of the complete equipment from their works and complete the work to the satisfaction of the Engineer-in-charge within the stipulated time. The lift installation shall be handed over in perfect working order on completion of the work.

1.18 Requirements as per CPWD Manual on Accessible Built Environment for Lifts. At least one accessible lift in existing multi-stored building shall be provide on accessible route with accessible lift cladding.

i. Lift size

- Size of the lift car shall be as recommended by manufacturer or as per BOQ.

ii. **Lift door :** Full height 1.5 mm thick stainless steel 304 grade Moon Rock/ Honeycomb (scratch proof) door including matching stainless steel frame and vision Panel as per OEM standard. iii. Lift door shall be automatic with horizontal siding doors & clear opening of minimum 1000 mm. **iv. Call button : Shall be provided considering Accessible India requirement**

v. Control panel

- The control panels inside the lift shall be vertically placed within this space at the both side (Left & Right) of car and there shall be floor indicator at the Centre top of the car indicating the direction of travel and the floor position. The push

button shall be of bright colour illuminated type and shall be in contrast with the surroundings.

vi. Hand rails

- Hand rails shall be placed at height of 900 mm from the floor level and are fixed on both sides and at the rear of the lift.

vii. Audio and visual indicators

- Voice announcements system clearly audible and of 50 db along with a visual display shall be provided to indicate the floor level with the information that the door of the cage is open or closed for entry or exit.

viii. Lift signage

- A sign indicating the number of the floor arrived shall be provided on each lift landing on the wall opposite the lift in big font with good colour contrast.

ix. Emergency warning alarm

- Lift car shall be equipped with emergency warning alarm Device (two s way communication system) permanently connected to a manned security point with visual and audible information feedback for passengers confirming that, the alarm has been received, voice communication established, using the green enlightened symbol consisting of two heads.

TECHNICAL SPECIFICATIONS

CODES AND STANDARDS

The relevant clauses of the following, as amended upto date shall apply.

- The Indian Electricity Rules1956
- The Indian Electricity Act & Maharashtra State Lift Rules Fire safety regulations pertaining to lifts

The tenderers shall also take into account local and State regulations as in vogue for the design and installation of lifts, shall be complied with CPWD Specifications for General Specification for Electrical works Part III Lifts and Escalators 2003 corrected up to date of receipt of Tender.

Indicative Specification need to be considered for this work:-

All in S S Honey comb finish with 1.5 mm thickness (304 grade)/Duplex or simplex control/Closed loop VVVF regenerative drive/TFT buttons in car & all landings/SS false ceiling in mirror finish/ 03 side handrail / Circular or Blower fan /Fire rated doors of 01 hrs. / 03 way intercom / FRLS wiring / SS flooring suitable thickness / Handicapped provisions / Braille Buttons / Nudging door operation / Manual cranking facility/Anti-nuisance or False call cancellation/Door open and close button/Auto light and fan switch off / Car arrival chime / Gongs / OLWI (Audio & Visual)/Cloud Monitoring System/ Lift Out of Order box/Scaffolding/MBW/Barricading at entrance/All basic safety features/ Facia plate / BMS Compatibility-RS 485 port/Civil

Work , Shaft Repair Work/ Invertor / License / DLP of 01 year

LIFT CAR

Lift door: Full height 1.5 mm thick stainless steel 304 grade Moon rock/Honeycomb(Scratch Proof) door including matching stainless steel frame and vision panel as per OEM standard.

CAR DOOR

As per schedule of quantity item no 1 & 2

LANDING DOOR

As per schedule of quantity item no 1 & 2

CAR AND LANDING DOOR OPERATORS

An electric door operator for opening and closing the car door and the landing door shall be provided. It shall consist of a machine on the elevator car for each stopping at a landing. The car door and the landing door shall be mechanically connected and shall move simultaneously while opening and closing. Every landing door shall be provided with a locking device which shall comply with the following requirements:-

a. It shall not be possible to open the landing door from the landing side until the lift car is within that particular relevant zone.
However, provision shall be made for opening the door by means of special key for use in case of an emergency.

b. It shall not be possible for the car to be started or kept in motion unless all the landing doors and car door are closed and locked except when the car is coming toa stop at hat landing within the levelling zone.

c. The electrical and mechanical parts of all locking devices shall be of suitable design and construction.

d. An electric contact for each car door shall be provided which shall prevent car movement away from the landing unless the door is in closed position.

The car doors and landing doors shall open automatically as the car is stopping at a landing. The closing of car door and landing door must occur before the car is set in motion. An electronic device shall be provided to stop and reverse the doors during their closing motion.

CAR DIRECTION INDICATOR

Digital signal indicator in the car shall be provided by the appropriate arrow being illuminated to indicate the car travel direction.

EMERGENCY LIGHT IN CAR

A trickle charged battery operated emergency light lamp shall be provided in the car which shall operate automatically in case of power failure for minimum 90minutes.

ALARM BELL

An emergency alarm bell shall be provided. The alarm bell shall be located at the ground floor landing and push for the same shall be at the car operating panel. The system shall be operated by batteries with trickle charger and the bell/siren should work the moment the alarm button in the car is pressed.

COMMUNICATION SYSTEM

Telephone system with cables shall be provided between cabin car and controller for each lift. In addition to this, microphone with switch shall be provided in each lift cabin so that operator/passenger can talk to main security personnel sitting at centralized room in case of emergency.
Cable for CCTV and potential free contacts for BMS inter face shall be provided.

FLOOR POSITION INDICATOR & DIRECTION ARROWS

Digital signal indications at all landings shall be provided by the appropriate numeral and direction arrows being indicated when the car is passing the corresponding floor.

The indicator shall remain illuminated when the car is stopped at a floor. The top cover of the floor position and direction arrow indicator units shall be stainless steel.

Logo of Client Department may be use at display on requirement of client.

ELECTRONIC DOOR DETECTOR

On each side of the lift entrance door and car door panel's, infrared light sensor unit shall be mounted in such a way to continuously monitor the light beam. (no. of beams shall be more than 100). When any beam is disturbed, an electronic circuit shall be interrupted and the doors operating mechanism shall return the door to open position. When the entrance is clear the lift door shall close automatically. Opening of the doors may also be accomplished by pressing the "Door Open Button" in the car operating panel.

EMERGENCY KEY

Emergency key or equivalent device shall be provided as required by the elevator supplier.

DETAILED INSTRUCTIONS

Inside the lift car suitable instruction for passengers on car operating panel will be displayed. Such instructions in lift car shall indicate capacity, No. of persons, 'No smoking' and such other instructions as are suitable for proper and safe operation of the lifts.

FIREMAN SWITCH

Each lift will have fire man switch for access of fire man.

OPERATION

The operation shall be simplex and duplex as per the number of lifts in lift lobby, full collective-selective with or without attendant. It shall generally function in the manner described below: -

On every intermediate landing is a Up/Down button with 'Call Registered' lights. The extreme positions have one call button with a 'Call Registered' lights. Inside the car is the complete set of buttons and a key operated change over switch to facilitate operation with or without attendant. However, in this case the car attends to all calls registered inside the car and also at the landings, in the ascending or the descending order. If it is landing, the last stop is the top-most registered call.

After this, it automatically reverses the direction of travel and a registered attends to all calls registered "Down" on this downward trip, irrespective of the sequence in which the calls are registered. The car will answer all calls in a sequenced order depending upon the direction in which it is travelling. If the key is turned to 'attendant' operation and also lift operation can select the direction of travel by pushing the right buttons in the car.

EMERGENCY STOP SWITCH

On top of the lift car an emergency stop switch shall be provided for use by maintenance personnel. Similar switches shall also be provided in the car. Operation of these switches shall render the car and landing buttons in operative and cancel all registered calls.

EMERGENCY BATTERY DEVICE

The emergency battery unit shall consist of suitable capacity of SMF (Sealed Maintenance Free) batteries with battery charger having auto trickle boost rate of charge. The unit shall be of such a capacity that in case of power failure, the lift shall come to the nearest landing automatically. The Bidder will submit calculations for batteries and battery charger before procurement.

AUTOMATIC TERMINALS STOP (RESCUE DEVICE)

The elevator shall be equipped with an automatic stopping device arranged to bring the car to a stop at the terminal landings, independent of the regular operating device in the car. This safety device is required so that in case of controller failure or power failure, the lift should not get stuck in the shaft. With this device, the lift will come to the nearest landing and its doors will open and the person can come out of the lift. All power- operated doors shall have a full length infra-red light curtain safety to retract the door in the event of coming across any obstacle during closing of door.

ELECTRICAL WIRING

Power wiring between the controller and main board and controller to various landings shall be done in heavy gauge M.S. conduits confirming to Indian Electricity Rules and Specifications for electrical works.

AUTOMATIC SELF LEVELLING DEVICES

This device shall be operated in slow speed to bring the car door in level with landingdoor; the tenderer should specify the leveling errors that can be achieved by them.

LIGHT FIXTURES

Suitable composite LED light fittings as specified, recessed in the false ceiling and operated by a switch in the car operation panel shall be provided. A light point along with bulb shall be provided about 5 cm above ground level for the purpose of providing proper light in the pit. Properly earthed lighting arrangement shall be provided in thehoist way in the form of Bulk-head fitting at each floor level.

LIFT CAR FLOOR

It shall be in 20 mm thick polish granite in combination of multiple shades as approved by the Engineer-in-charge.

TESTING

Testing at manufacturers works of the various equipment and components as required by IS codes/standards and other application/European standards shall be done by the successful tenderer before dispatching the materials to site. The tenderer shall furnish a certificate for the same.

If the authorized representative of Owners, wishes to participate/witness these tests the scheduled dates for the same will be informed well in advance before carrying out such tests.

TESTING OF LIFT INSTALLATION TESTSATSITE:

Levelling Test

Safety Gear Test Contract

Speed

This should be measured with contract load in the car, with half load with no load, and should not vary from the contract speed by more than 10 percent.

Lift Balance:

After the above test, some of the weight shall be removed until the remaining weights represent the figures specified by the tenderer. With this condition car at half way travel the effort required to move the lift car in either direction with the help of winding wheel shall be as nearly as can be judge by the same.

Car and landing doors inter locks:

The lift shall not move with any door open.

Controllers:

The operation of the contactor sand interlocks shall be examined and it shall be ascertained whether all requirements laid down in the specifications have been met.

Controller shall be of same OEM of Lift, 3rd Party not acceptable.

Earthing:

All conduits, switches, casing and similar metal work shall have earthing continuity.

4. MAINTENANCE TILL DEFECT LIABILITY PERIOD :

4.1 The contractor shall enter in to agreement with the OEM for comprehensive maintenance of lift services of all the lift installations made, till the end of defective liability period. He shall submit a copy of such MOU to the department.

5. INSTRUCTION TO BE DISPLAYED IN HINDI / ENGLISH IN THE LIFT CARS AND LIFT LANDINGS

Sl. No.	In side the Car	Sl. No.	Out side the Car
1.	Lift Number _____	1.	Lift Number _____
2.	Capacity _____kg. Persons	2.	Capacity _____Persons____
3.	No smoking	3.	Please stand in 'Q'
4.	Operate push buttons/ switches correctly.	4.	Smoking not permitted inside the car.
5.	Do not lean against the lift door.	5.	Passenger travel at their own risk.
6.	Watch before stepping out.	6.	Please keep the lift neat and clean
7.	Do not panic in the event of Break down. Press alarm buttons and follow instructions of authorised staff	7.	Do not force open the landing door.
		8.	Watch before you step in to and out of The lift
		9.	Heavy article / luggage not allowed.
		10.	Avoid use of lift during fire.
		11.	Complaints if any may be sent to_____
		12.	Hours of operation_____

NOTE:

1. **The above-mentioned lift number capacity and speed are the minimum requirement.**
2. **The Contractor will plan and design the elevators as per site plans.**

List of Indian Standards Connected with LIFT Installation

S.No.	IS Codes : Description	IS CODES
1.	Lifts for the Transport of Persons and Goods - Part 1 Safety Rules	IS 17900 Part 1: Safety Rules (2022)
2.	Part 10 Replacement of Existing Passenger and Goods Lifts in Existing Buildings	IS 17900 : Part 10 : 2025
3.	Part 2 Design Rules, Calculations, Examinations and Tests of Lift Components	IS 17900 : Part 2 : 2022
4.	Part 20 Dumbwaiters-Specification and Safety Rules for Planning, Installation, Operation and Maintenance	IS 17900 : Part 20 : 2024
5.	Part 3 Specifications For Planning And Selection Section 1 Passenger service hospital Bed stretcher Lifts	IS 17900 : Part 3 : Sec 1 : 2023
6.	Part 4 Control Devices, Signals and Other Fittings – Specifications	IS 17900 : Part 4 : 2025
7.	Part 6 Guide for Maintenance of Lifts	IS 17900 : Part 6 : 2022
8.	Part 7 Lifts for Special Applications - Section 4 Requirements of Lifts for Persons with Disabilities	IS 17900 : Part 7 : Sec 4 : 2025
9.	Part 7 Lifts for Special Applications - Section 6 Occupant Evacuation Lifts	IS 17900 : Part 7 : Sec 6 : 2025

LIST OF INDIAN STANDARDS CONNECTED WITH LIFT & ESCALATOR INSTALLATIONS

1.	Electric Traction Lifts Part –1 Guidelines for outline Dimensions of passenger , goods, service and hospital lifts	IS 14665 (Part-1):2000
2.	Electric Traction Lifts Part-2 Code of Practice for installation operation and maintenance Section-1 Passenger and Goods Lifts Section-2 Service Lift	IS 14665 (Part-2/Sec 1&2):2000
3.	Electric Traction Lifts Part –3 Safety Rules Section –1 Passenger & Goods Lifts Section-2 Service Lifts	IS 14665 (Part-3/Sec 1&2):2000
4.	Electric Traction Lifts Part-4 Components	IS 14665 (Part-4 /Sec 1to9):2001
5.	Electric Traction Lifts Part-5 Inspection Manual	IS 14665 (Part-5):1999
6.	Code of Practice for Installation and maintenance of Escalators (Fourth Reprint February 2001)	IS 4591-1968 (Reaffirmed 1996)
7.	Code of Practice for Installation and maintenance of Hydraulic Lift	IS 14671-1999
8.	Specifications for hoistway door-locks	IS 7754 –1975
9.	Rules for the design, installation testing and operation of lifts, escalators and moving parts	IS 1735 –1975

Note:- Above mentioned IS Codes shall be amended or may be supersedes older standards such as **IS 14665, IS 14671**. So latest amended up to date IS 17900 shall be applicable from its effective date for all the elevator materials and equipment supplied in this tender.

TECHNICAL DATA (To be provided by the firm to whom the work is awarded, before placing order to the Lift OEM, for approval of the department)			
(TO BE FURNISHED IN METRIC SYSTEM UNLESS OTHERWISE SPECIFIED, FOR EACH TYPE OF LIFT IN NIT)			
S. NO	**PARTICULARS OF DETAILS**	**DETAILS TO BE PROVIDED AS PER FIRM'S PROPOSAL**	**REMARKS**
A	**General:**		
	1.Name of Manufacturer.		
	2.Country of Manufacture.		
	3.Capacities (Personal Weight).		
	4.Service		
	5.Speed of Travel		
	6.Heightof Travel.		
	7.No. of Floors served.		
	8.No. of openings.		
	9.Position of counter weight.		
	10.Type of Levelling method.		
B	**Machine:**		
	1.Type of Motor		
	2.Capacity of Motor		
	3.Make.		
	4.Whether confirm to BIS		
	5.Class of Insulation		
	6.VoltageTolerance		
	7.General/Geared		
	8.RPM		
C	**ROPE**		
	1.Size with No. of Strands.		
	2.Make		
	3.Whether confirm to BIS		
	4.Factory of Safety as per IS:4666		

D.	Door Opening Motor		
	1.Capacity of Motor		
	2.Make of Motor		
	3.Whether confirm to BIS		
E.	Counter weight		
	1.Position of Weights		
	2.Weights (Kgs.)		
F.	Travelling Cable		
	1.Size		
	2.Make		
G.	Automatic Rescue Device		
	1.Make		
	2.No. of Batteries & Capacity in (Amp/Hr.)		
	3.No. operation per hour.		
H.	**Car and Doors:**		
	1.Clear inside size of the Car.		
	2.Thickness of Stainless steel sheet.		
	3.Out side dimension so far.		
	4.Construction of car		
	5.Design type of enclosure of car.		
	6.Details of flooring		
	7.Attachment and fitting inside		
	8.Car Doors:		
	(a)Size		
	(b)Operation		
	(c)Construction, Design & finish		
I.	Safety Devices:		
	1.Car safety-type		

	2.Counter weight safety-type		
	3.Door inter locks incar-type		
	4.Door locks in landing-type.		
J.	Other Safeties included in the offer:		
	Cloud Management System		
	CCTV , NVR , Storage System		

SCHEDULE OF QUANTITY

Name of Work :- Replacement of existing KONE Make Outlived Bed lift of G+4 floor with new lift in the AIIPMR Hospital, Mumbai.

Central Public Works Department

NIT No. 106/EE(E)/Mumbai-II (Erstwhile MCED-IV)/2026-27

SCHEDULE OF QUANTITY

Name of work :- Replacement of existing KONE Make Outlived Bed lift of G+4 floor with new lift in the AIIPMR Hospital, Mumbai.

S.No	Description of Items	Qty	Unit	Quoted rates are negative or positive	Rate in Figures in Rupees	Amount
1	Supplying, Installation, Testing & Commissioning of following capacity passenger cum bed lift Machine room less (MRL) Bed lift with regenerative drive as per CPWD General Specification for Electrical Works (Part-III Lift & Escalator) 2003, BIS Codes, NBC 2016 as amended upto date having provision for barrier free access as per Harmonised Guidelines & Standards for Universal Accessibility in India - 2021 of MoHUA, serving different floors in the lift shaft as per detailed specifications enclosed and as under including all other equipment and accessories complete as required :- (i) Speed-1.0 MPS (ii)Floors-5(G+4) (iii) Travel-17 metres(approx) (iv) Stops & opening : 5 stops and 5 openings (v) Controller: A.C. variable voltage & variable frequency (vi) Automatic rescue device (ARD) complete with dry maintenance free batteries as required. (vii) Operation: Microprocessor based single automatic push button/simplex selective collective/ duplex collective selective with/without attendant (viii) Power-415 Volts+10%, 3 phase, 50 Hz, 4 wires system (ix) 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. (x) The car flooring should be smooth and antiskid as approved by engineer-in-charge. (xi) Type of doors:- (a) Car: Power operated, centre opening horizontal sliding stainless steel scratch proof (Moon Rock/Honeycomb/ Hairline Finish).					

	(b) Landing doors: stainless steel scratch proof . (xii) A hand rail not less that 600mm long at 900mm above floor level to be fixed adjacent to control panel in the lift car. (xiii) 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. (xiv) Closed loop Control System, protection against power fluctuation, self diagnostic control, Landing doors 2 hours Fire rated, Overload detection and protection, Overspeed Governer, 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. (xv) 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. (xvi)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. (xvii) In case of failure of ARD or other electronic devices, a provision of manual rescue be provided.					
1.1	20 passenger (1360kg)	2.00	Each	Normal Item	2581451	5162902.00
2	Dismantling of existing 5 passanger Hydralic lift i/c disconnection of all electrical/Mechanical connections etc. as reqd.	2.00	Job	Normal Item	38047	76094.00
3	Credit for old dismantled 5 passanger lift i/c all accessories etc. as reqd.	2.00	Job	Normal Item	-80000	-160000.00
4	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 Meter long etc. with charcoal/ coke and salt as required.	1.00	Set	Normal Item	8351	8351.00
5	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	60.00	Mtr.	Normal Item	287	17220.00
	Total					**50,78,996.00**
	Say					**50,78,996.00**

PART - C

PRICE BID

Bid Sheet

Name of the Contractor					
Sl.No.	Name of component	Estimated cost	Percentage above or below the estimated cost	% in Figures	Total Cost
1	Electrical	50,78,996.00			
	Grand Total				-
					-

Assistant Executive Engineer (P) (E)
Mumbai-II, CPWD, Mumbai 37

Executive Engineer (E)
Mumbai-II, CPWD, Mumbai 37