e-tendering

APPROVED NIT

NIT No.018/EDM/PUNE/2022-23

Estimated cost : ₹.17,93,329/-

PRASAR BHARATI
(INDIA'S PUBLIC SERVICE BROADCASTER)
EXECUTIVE ENGINEER (ELECTRICAL)
CIVIL CONSTRUCTION WING:
ALL INDIA RADIO, NBH, MUMBAI-20.

e-mail: ccwelect.airmum@nic.in
ccwelect@rediffmail.com

CONTACT 022-20821161

Name of Work: Providing 08 passenger Lift at CRT Building FTII Pune

I N D E X

Name of work: **Providing 08 passenger Lift at CRT Building FTII Pune**

INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING
FORMING PART OF BID DOCUMENT AND TO BE POSTED ON WEBSITE

The **Executive Engineer (E), Civil Construction Wing, All India Radio, Mumbai-20**, on behalf of President of India invites e-tender from approved O. E. M. of Lifts for the following works:

NIT Number	**018/EDM/PUNE/2022-23**
Name of work:	**Providing 08 passenger Lift at CRT Building FTII Pune**
Estimated Cost put to Tender	₹.17,93,329=00
Earnest Money Deposit	₹.35,867=00
Period of completion	**20 (Twenty) Weeks**
Last date and time of submission of Tender	**07/09/2022 up to 11:00 hrs**
Time and date of opening Tender	**07/09/2022 at 11:30 hrs**

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 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, 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 the website www.tenderwizard.com/AIR 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, CCW AIR within the period of bid submission and uploading the mandatory scanned documents such as Insurance Surety Bonds, Account Payee Demand draft or Bankers Cheque or Fixed Deposit Receipts or/ and Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank towards EMD in favor of Executive Engineer (E), CCW AIR PB(BCI), Mumbai-20 as mentioned in NIT, receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/ AE), CCW and other documents as specified
5. Detailed procedure can be seen in the CPWD-6 for e-Tendering
6. Contractors, who are not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the said website
7. The intending bidder must have valid **Class-III** Digital Signature to submit the bid.
8. On the date of opening of the Bid, the bidder can login and see the bid opening process. After opening of Bids he will receive the competitor bid sheets.
9. Bidder can upload documents in the JPG or PDF format.
10. Bidder must ensure to quote rate of each item. The column meant for quoting rate in figures appears in pink color and the moment rate is entered, it turns sky blue.
    In addition to this, while selecting any of the cells in the SOQ a warning appears that if any cell is left blank the same shall be treated as "0" (zero).
    Therefore, if any cell in the SOQ is left blank and no rate is quoted by the bidder, rate for such item shall be treated as "0" (zero).
    Rates for minus items, if quoted above reserve price shall be considered otherwise shall be treated at par with reserve price.
11. SC/ST bidders enlisted under Class-V category are exempted from processing fee of e-Tender payable to M/s. ITI Ltd.

List of documents to be scanned and uploaded within the period of bid submission:

1	Banker's cheque of a Commercial Bank/Account Payee Demand Draft of a Commercial Bank/Fixed Deposit Receipt (FDR) of a Commercial Bank/Insurance Surety Bonds
2	Copy of receipt for deposition of original EMD issued from division office of any Executive Engineer (Including NIT issuing EE/AE), CCW AIR, within the period of bid submission (The EMD document shall be issued from the place in which the office of receiving division office is situated)
3	Certificate of Registration for GST or UNDERTAKING If work is awarded to me, I/we shall obtain GST registration certificate as applicable within one month from the date of receipt of award letter or before release of any payment by CCW AIR, 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 CCW AIR or GST department in this regard.
4	**Undertaking** as per Para 1.2.2 of Form CPWD-6, ~~if work experience is stipulated in Para 1.2 of Form CPWD-6~~
5	Affidavit as specified in Para 9 of Form CPWD-6 on their letterhead

PRASAD KASHINATH KASHIKAR
Digitally signed by PRASAD KASHINATH KASHIKAR
Date: 2022.08.25 11:27:57 +05'30'

EXECUTIVE ENGINEER (ELECTRICAL)
CCW AIRPB (IPSB) MUMBAI

No.EE (E)/MUM/CCW/NIT-018/2022-23/ **Date: 25/08/2022**

1. The Superintending Engineer (Elect.), CCW, AIR Mumbai
2. The Executive Engineer (Civil), CCW, AIR Mumbai/Pune/Vadodara.
3. The Estate Manager FTII Pune for information
4. The Assistant Engineer (Civil.) I/II, CCW, AIR MUMBAI/Pune/Vadodara/Ahmedabad/Rajkot.
5. The Assistant Engineer (E) CCW, AIR, MUMBAI/Pune.
6. Notice Board.
7. By mail to webupdates.pbns@gmail.com for uploading on Prasar Bharati Web site.

INFORMATION AND INSTRUCTIONS FOR EXECUTIVE ENGINEER FOR e-TENDERING

1. The Executive Engineer of all divisions of CCW should receive the original EMD for tender of other division.
2. The NIT approving authority/EE at the time of issue of NIT shall also fill and upload the following prescribed format of receipt of deposition of original EMD along with NIT :

Receipt of deposition of original EMD
(Receipt No ……../ date……..……)

1	Name of Work	**Providing 08 passenger Lift at CRT Building FTII Pune**
2	NIT No	**018/EDM/PUNE/2022-23**
3	Estimated Cost	**₹ 17,93,329=00**
4	Amount of Earnest Money Deposit	**₹ 35,867=00**
5	Last date of submission of bid	**07/09/2022 up to 11:00 hrs**

1	Name of Contractor	
2	Form of EMD	
3	Amount of Earnest Money Deposit	
4	Date of submission of EMD	

Signature, Name and Designation of EMD
Receiving officer (EE/ASW/AE/AAO)
Along with office stamp

3. The Executive Engineer receiving EMD in original form shall examine the EMD deposited by the bidder and shall issue a receipt of deposition of earnest money to the agency in a given format uploaded by tender inviting EE. The Receipt may be issued by the AE (P)/AE/AAO.
4. The Executive Engineer receiving original EMD shall also intimate tender inviting Executive Engineer about deposition of EMD by the agency by Email/Fax/telephonically.
5. The original EMD receiving Executive Engineer shall release the EMD after verification from the E-tendering portal website (www.tenderwizard.com> tender fee view>advance search> awarded tenders) that the particular contractor is not L-1 tenderer and work is awarded.
6. The tender inviting Executive Engineer will call for original EMD of the L-1 tenderer from EMD receiving Executive Engineer immediately.

Form CPWD-6

P R A S A R B H A R A T I
(India's Public Service Broadcaster)
CIVIL CONSTRUCTION WING, ALL INDIA RADIO

N O T I C E I N V I T I N G e - T E N D E R

The **Executive Engineer (E), Civil Construction Wing, All India Radio, Mumbai-20**, on behalf of President of India invites e-tender from approved O. E. M. of Lifts for the following works:

Providing 08 passenger Lift at CRT Building FTII Pune

The enlistment of the contractors should be valid on the last date of sale of tenders.

1.1 The work is estimated to cost **₹ 17,93,329=00**. This estimate, however, is given merely as a rough guide.

~~1.2Intending bidder is eligible to submit the bid provided he has definite proof from the appropriate authority i.e. not below the rank of Executive Engineer, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works (similar works means),~~ ~~in the last seven years ending last day of month previous to the one in which tenders are invited.~~

~~Three similar completed works each of value not less than 40% of the estimated cost put to tender~~
~~OR~~
~~Two similar completed works each of value not less than 60% of the estimated cost put to tender.~~
~~OR~~
~~One similar completed work of value not less than 80% of the estimated cost put to tender~~

~~1.2.1 The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of **7% per annum**, calculated from last date of the month previous to the one in which tenders are invited.~~

1.2.2 To become eligible for issue of bid, the bidders shall have to furnish an **undertaking** as under ~~(**Applicable if work experience is stipulated in para 1.2 above**):~~
"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 bidding in CCW-AIR in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee."(Scanned copy is to be uploaded at the time of submission of bid).

2. Agreement shall be drawn with the successful tenderer on prescribed Form No. 8, 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 **20 (Twenty) Weeks** 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. The site for the work is available.
5. Tender documents consisting of plans, specifications, the schedule of quantities of the various classes of work to be done and the set of terms & conditions of contract to be complied with by the contractor whose tender may be accepted and other necessary documents can be seen from website www.tenderwizard.com/AIR free of cost.
6. After submission of the Tender the contractor can re-submit revised tender any number of times but before last time and date of submission of tender as notified.

7. While submitting the revised tender, contractor can revise the rate of one or more item/s any number of times (he need not re-enter rate of all items) but before last time and date of submission of tender as notified.

8. When tenders are invited in three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the tender submitted earlier shall become invalid.

9. Earnest Money of **₹ 35,867=00** in the form of Banker's cheque of a Commercial Bank/Account Payee Demand Draft of a Commercial Bank/Fixed Deposit Receipt (FDR) of a Commercial Bank/Insurance Surety Bonds (drawn in favour of ***The Executive Engineer (E), CCW AIR PB (BCI), Mumbai-20***) shall be scanned and uploaded to the e-tendering website within the period of bid submission. **The original EMD should be deposited either in the office of Executive Engineer (*E), CCW, AIR, PB(IPSB), Mumbai-20 or division office of any* Executive Engineer (C/E), *Civil Construction Wing, All India Radio,* 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 Executive Engineer (E), CCW, AIR, PB (IPSB), shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format uploaded by the Executive Engineer (E), *CCW, AIR, PB (IPSB), Mumbai-20* in the NIT. This receipt shall be also uploaded to the e-tendering website by the intending bidder up to the specified bid submission date and time**. ~~A part of Earnest Money is acceptable in the form of Bank Guarantee of any Commercial Bank. 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 form of Bank Guarantee issued by a 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 FDR shall be accepted only if it is valid for a period of Six Months or more after date of opening of the tender.

The Certified copy of all the scanned and uploaded documents shall be deposited by the lowest tenderer within a week after opening of financial bid failing which the tender shall be rejected.

The following affidavit in this regard on their letterhead shall also be uploaded by the intending bidders:

The certified copy of all the scanned and uploaded documents specified in the ~~Press Tender Notice~~/NIT shall be deposited by me/us with the Executive Engineer (Electrical), Civil Construction Wing, All India Radio, Mumbai-20, in case I/we become the lowest tender within a week of opening of the financial bid otherwise the Department (CCW-AIR) may reject the tender and take action to debar me/us from tendering in CCW-AIR for a period of three years and can write to the Competent Authority for cancellation of my/our enlistment.

***(Originals of the uploaded documents shall be shown for verification)*.**

Interested contractor who wish to participate in the bid has also to make following payments within the period of bid submission:

e-Tender Processing Fee admissible shall be payable to M/s. ITI Limited through their e-gateway by credit/debit card, internet banking or RTGS/NEFT facility.

Copy of Enlistment Order and certificates of work experience and other documents as specified in the tender/press notice shall be scanned and uploaded to the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in the tender notice shall have to be submitted by the lowest bidder only 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 have deposited e-Tender Processing Fee with M/s. ITI Limited and Original EMD deposited with division office of CCW, AIR, PB (IPSB) Mumbai-20 or division office of any Executive Engineer (C/E), Civil Construction Wing, All India Radio, within the period of bid submission and other documents scanned and uploaded are found in order.

The bid submitted shall be opened at **11:30 hrs. On 07/09/2022**.

10. The bid submitted shall become invalid and e-Tender Processing Fee shall not be refunded, if:

(i) The bidder is found ineligible;
(ii) The bidder does not upload all the documents (including GST) as stipulated in the bid document including the copy of receipt for deposition of Original EMD and affidavit about the certified copy of all the scanned and uploaded documents;
(iii) 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 tendering opening authority;

11. The contractor whose tender is accepted will be required to furnish Performance Guarantee at 3% (Three percent) of the tendered amount within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks in accordance with the prescribed form.
In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor.

12. Tenderers 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 requisite and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The tenderer 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 tenderer 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 President of India does not bind himself to accept the lowest or any other tender, and reserves to himself the authority to reject any or all of the tenders received without the assignment of a reason. All tenders, in which any of the prescribed conditions is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer, shall be summarily rejected.

14. Canvassing whether directly or indirectly, in connection with tenders 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 tenderer shall be bound to perform the same at the rate quoted.
16. The contractor shall not be permitted to tender for works in the CCW AIR PB(BCI) Circle (responsible for award and execution of contracts) in which his near relative is posted as 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 Civil Construction Wing of All India Radio or in the Ministry of Information & Broadcasting. 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 Gazette rank or other Gazette 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 two years 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 tender for the works shall remain open for acceptance for a period of **Thirty (30) days** from the date of opening of **Tender**. If any tenderer withdraws his tender before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the tender which are not acceptable to the Department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% **of** the said earnest money as aforesaid.

19. This Notice Inviting Tender shall form a part of the contract document. The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority, shall, within 7 days from the stipulated date of start of the work sign the contract consisting of:-

    a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.

    b) Standard C.P.W.D. Form No. **8**.

EXECUTIVE ENGINEER (E)
CCW AIR PB (IPSB) MUMBAI

Form CPWD-8

P R A S A R B H A R A T I
(INDIAS PUBLIC SERVICE BROADCASTER)
CIVIL CONSTRUCTION WING, ALL INDIA RADIO

State : **MAHARASHTRA** Circle : NAGPUR
Branch : E & M. Division : MUMBAI
Zone : WEST Sub-Division:**PUNE**

Item Rate Tender & Contract for Works

Name of work: **Providing 08 passenger Lift at CRT Building FTII Pune**

(i) To be submitted online through the website www.tenderwizard.com/AIRby **11:00 hours on 07/09/2022** to the Executive Engineer (E), Civil Construction Wing, All India Radio, Prasar Bharati (IPSB), Mumbai.

(ii) To be opened online at the website www.tenderwizard.com/AIR in presence of tenderers who may be present **at 11:30 hours on 07/09/2022** in the office of the Executive Engineer (E), Civil Construction Wing, All India Radio, Prasar Bharati (IPSB), Mumbai.

Tender submitted online at the website www.tenderwizard.com/AIRby the contractor

T E N D E R.

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

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

We agree to keep the tender open for **Thirty (30)** days from the Opening of **tender** thereof and not to make any modifications in its terms and conditions.

A sum of **₹. 35,867=00** is hereby forwarded in the form of Banker's cheque of a Commercial Bank/Account Payee Demand Draft /Fixed Deposit Receipt (FDR) of a Commercial Bank/Insurance Surety Bonds as Earnest Money. If I/we, fail to furnish the prescribed performance guarantee within prescribed period, I/we agree that the said President of India or his successors in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/we fail to commence the work specified I/we agree that the said President of India or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form. Further, I/we agree that in case of forfeiture of Earnest Money or Performance Guarantee as aforesaid, I/we shall be debarred for participation in the re-tendering process of the work

I/We 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 therefrom 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

Postal Address: _____

_____

_____

Witness:
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 ` _____ (Rupees _____

_____

_____

_____)

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

i)

ii)

iii)

For and on behalf of the President of India,

Dated: _____ Signature: _____

Designation: **Executive Engineer (E)**
Civil Construction Wing
All India Radio, PB (IPSB)
Mumbai-400020.

SCHEDULES

Name of work: **Providing 08 passenger Lift at CRT Building FTII Pune**

SCHEDULE 'A'
Schedule of quantities - As per "schedule of quantity" from Page No. 35

SCHEDULE 'D'

Extra Schedule for specific requirements/documents for the work, if any.	Additional Commercial Conditions /documents& Technical Specifications attached

SCHEDULE 'E'

Reference to General Conditions of Contract:-	GCC 2020 for Construction works with amendments up to last date of submission of Bid.

Name of Work	**Providing 08 passenger Lift at CRT Building FTII Pune**	
i)	Estimated cost work	₹.17,93,329=00
ii)	Earnest Money	**₹. 35,867=00**
iii)	Performance Guarantee	3% of Tendered Amount and valid up to 90 days from date of completion
iv)	Security Deposit	2.5% of tendered value Plus 50% of stipulated P.G

SCHEDULE 'F'

General Rules & Directions:

Officer inviting Tender		:	Executive Engineer (E),CCW, AIR, PB (IPSB), Mumbai-20
Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3		:	As per Clause 12
Definitions :			
2(v)	Engineer-in-Charge	:	Executive Engineer (E),CCW, AIR, PB (IPSB), Mumbai-20
2 (viii)	Accepting Authority	:	Executive Engineer (E), CCW AIR Mumbai
2 (x)	Percentage on cost of materials and labor to cover all overheads and profits	:	15%
2 (xi)	Standard schedule of Rates	:	CPWD DSR 2018 with amendments up to last date of submission of Bid
2 (xii)	Department	:	Civil Construction Wing, All India Radio
9 (ii)	Standard CPWD contract form	:	CPWD form 8 (Item rate) with amendments up to last date of submission of Bid

Clause 1

Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance, Program Chart (Time and Progress) and applicable labor licenses, registration with EPFO, ESIC, and BOCW welfare Board or proof of applying thereof from the date of issue of letter of acceptance.	:	10 days
Maximum allowable extension with late fee 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above.	:	05 days

Clause 2

Authority for fixing compensation under clause – 2	:	Superintending Engineer (E) Civil Construction Wing, All India Radio, Nagpur

Clause 2A

Whether Clause 2A shall be applicable	:	~~YES~~ / NO

Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start	:	10 (Ten) Days

MILE STONE (S) AS PER TABLE GIVEN BELOW Table of Milestone (s)

Sr. No.	Description of Milestone (Physical)	Time allowed (from date of start)	% Amount of tendered cost to be with-held in case of non-achievement of milestone
1	Submission of Drawings for approval	2 Weeks	0.5 %
2	Supply of complete set of materials for Lift	8 Week	1.0 %
3	Erection of lift	14 Week	1.0 %
4	Testing and commissioning of Lift	20 Week	0.5 %
5			

Time allowed for execution of work	:	**20 (Twenty) Weeks**

Authority to Decide:

1. Extension of time	:	Executive Engineer (E) Civil Construction Wing, All India Radio, Mumbai
2. Rescheduling of mile stones	:	Executive Engineer (E) Civil Construction Wing, All India Radio, Mumbai
3. Shifting of date of start in case of delay in handing over of site	:	Executive Engineer (E) Civil Construction Wing, All India Radio, Mumbai

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.	:	As per terms and conditions of additional conditions

Clause 7 A

Whether Clause 7A shall be applicable. No running account bill shall be paid for the work till the application labour licenses, registration with EPFO, ESIC and BOCW welfare board which ever applicable are submitted by the contractor to the Engineer-in-Charge..	:	~~Yes~~/No

Clause 8 A

Authority to decide compensation on account if contractor fails to submit completion plans	:	Engineer-in-Charge

Clause 10 A

List of testing equipment to be provided by the contractor at site lab.	:	As per instruction of Engineer-in-charge & requirement of work

Clause 10-B(ii)

Whether clause 10-B(ii) shall be applicable	:	No

Clause 10-C.

Component of labour expressed as percent of value of work	:	N.A.

Clause 10 CA **~~Applicable~~/Not Applicable**

S. No	Materials covered under this clause	Nearest material (other than cement, reinforcement bars and structural steel) for which All India Wholesale price index to be followed	Base price of all the materials covered under clause 10CA
1			
2			
3			

Clause 10CC

Clause 10CC to be applicable in contracts with stipulated period of completion exceeding the period shown in next column.	:	More Than 12 Months
Schedule of component of other Materials,		Not Applicable
Labour, POL etc. for price escalation.		

Component of civil (Except materials covered under clause 10 CA)/ Electrical construction materials expressed as percent of total value of work.	Xm	Not Applicable
Component of labour expressed as percent of total value of work.	Y	
Component of POL expressed as percent of total value of work	Z	

Clause 11

Specifications to be followed for execution of work	:	CPWD General Specification for Elect. Works- Part-I /II and III(Lifts) with amendments up to last date of submission of Bid and additional commercial & technical conditions attached.

Clause 12

Authority to decide deviation up to 1.5 times of tendered amount : Engineer-in Charge

Type of Work	:	ORIGINAL/~~MAINTENANCE~~
12.2. & 12.3		
(i) Deviation limit beyond which clauses 12.2 & 12.3 shall apply for foundation work (except earth work)	:	100% / ~~No Limit~~
(ii) Deviation Limit for items in earth work sub head of DSR or related items	:	Not applicable

Clause 16

Competent authority for deciding reduced rates	:	Superintending Engineer (E) Civil Construction Wing, All India Radio, PB(IPSB), Nagpur

Clause 18

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

Clause 19C ……..

Authority to decide penalty for each default Clause	:	Engineer-in Charge

Clause 19D

Authority to decide penalty for each default Clause	:	Engineer-in Charge

Clause 19G

Authority to decide penalty for each default Clause	:	Engineer-in Charge

Clause 19K

Authority to decide penalty for each default Clause	:	Engineer-in Charge

Clause 25

Constitution of Dispute Redressal Committee (DRC) for all claims in dispute

Chairman	:	Superintending Engineer (E), CCW AIR Nagpur
Member 1	:	Executive Engineer (E), CCW, AIR, Nagpur
Member 2	:	Surveyor of Works (E), CCW, AIR, Nagpur

Clause 32

Requirement of Technical Representative(s) and recovery Rate

Cost of work (₹. in crores)	Requirement of Technical Staff		Minimum experience (Years)	Designation Technical staff	Rate at which recovery shall be made from the contractors in the event of not fulfilling
	Qualification	Number (of Major + Minor component)			
More than 15 lakh to 1.5 crore	Graduate Engineer or Diploma Engineer (E&M)	1 of major component	2 or 5 respectively	Project Manager Cum planning/ quality/ site/ billing Engineer	₹. 15,000/- Per Month per person

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

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

Clause 38

i. (a) Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of N.A. printed by CPWD

ii. Variation permissible on theoretical quantities:

a) Cement for works with estimated cost put to tender not more than ₹. 5 lakhs		Not Applicable
for works with estimated cost put to tender more than ₹ 5 lakh		Not Applicable
b) Bitumen for all works.		Not Applicable
c) Steel Reinforcement and structural steel sections for each diameter, section and category.		Not Applicable
d) All other materials		Nil

INTEGRITY PACT

To,

……..,

……..,

……..

Sub: **NIT No.018/EDM/PUNE/2022-23** for the work **Providing 08 passenger Lift at CRT Building FTII Pune**

Dear Sir,

It is here by declared that CCW AIR is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Bidder will sign the integrity Agreement, which is an integral part of tender/bid documents, failing which the tenderer/bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the CCW AIR.

Yours faithfully,

Executive Engineer (Elect)
CCW: AIR: MUMBAI

INTEGRITY PACT

To,
Executive Engineer (Electrical),
Civil Construction Wing,
All India Radio, Mumbai

Sub: Submission of Tender for the work of **Providing 08 passenger Lift at CRT Building FTII Pune**

Dear Sir,

I/We acknowledge that CCW AIR is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/bid document.
I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process.
I/We acknowledge that THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.
I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by CCW AIR.
I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.
I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, CCW AIR shall have unqualified, absolute and unfettered right to disqualify the tenderer/bidder and reject the tender/bid is accordance with terms and conditions of the tender/ bid.

Yours faithfully

(Duly authorized signatory of the Bidder)

To be signed by the bidder and same signatory competent / authorized to sign the relevant contract on behalf of CCW AIR.

INTEGRITY AGREEMENT

This Integrity Agreement is made at ..... on this…..... Day of..... 20.....

BETWEEN

President of India represented through Executive Engineer (E) CCW AIR Mumbai, (Hereinafter referred as the (Address of Sub Division) 'Principal/Owner', which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

AND

..... (Name and Address of the Individual/firm/Company) through..... (Hereinafter referred to as the (Details of duly authorized signatory) "Bidder/Contractor" and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

Preamble

WHEREAS the Principal / Owner have floated the Tender (**NIT No.018/EDM/PUNE/2022-23**(hereinafter referred to as "Tender/Bid") and intends to award, under laid down organizational procedure, contract for **Providing 08 passenger Lift at CRT Building FTII Pune**
Hereinafter referred to as the "Contract". AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s).

AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as "Integrity Pact" or "Pact"), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under:

Article 1: Commitment of the Principal/Owner

1. The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:

   a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
   b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.
2. The Principal/Owner shall endeavor to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
3. If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures

Article 2: Commitment of the Bidder(s)/Contractor(s)

1. It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of fraud or corruption or Coercion or Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
2. The Bidder(s)/Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
   a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
   b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process
   c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/ Contract(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically
   d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/ representatives in India, if any. Similarly Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item
   e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
3. The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences
4. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice means a willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.
5. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

Article 3: Consequences of Breach

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/ Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

1. If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days' notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined

by the severity of transgression and determined by the Principal/Owner. Such exclusion may be forever or for a limited period as decided by the Principal/Owner.

2. Forfeiture of EMD/Performance Guarantee/Security Deposit: If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.
3. Criminal Liability: If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

Article 4: Previous Transgression

1. The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/Contractor as deemed fit by the Principal/ Owner.
3. If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Subcontractors/sub-vendors

1. The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors
2. The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/ Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process

Article 6- Duration of the Pact

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 12 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded. If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority, CCW AIR.

Article 7- Other Provisions

1. This Pact is subject to Indian Law, place of performance and jurisdiction is the Headquarters of the Division of the Principal/Owner, who has floated the Tender.
2. Changes and supplements need to be made in writing. Side agreements have not been made.
3. If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
4. Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intensions.
5. It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.

Article 8- LEGAL AND PRIOR RIGHTS

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

.....
(For and on behalf of Principal/Owner)

.....
(For and on behalf of Bidder/Contractor)

WITNESSES:

1. .....
(Signature, name and address)

2. .....
(Signature, name and address)
Place:

Dated:

(On Non Judicial stamp paper of minimum ₹. 100)

(Guarantee offered by Bank to CCW AIR in connection with the execution of contracts)

Form of Bank Guarantee for ~~Earnest Money Deposit~~ /Performance Guarantee/ Security Deposit/Mobilization Advance

~~Whereas the Executive Engineer (Electrical) CCW AIR Mumbai on behalf of the President of India (hereinafter called **"The Government"**) has invited bids under **NIT NO.018/EDM/PUNE/2022-23**for **Providing 08 passenger Lift at CRT Building FTII Pune**~~

~~The Government has further agreed to accept irrevocable Bank Guarantee for ₹. ..... (Rupees .... only) 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 (Electrical) CCW AIR Mumbai on behalf of the President of India (hereinafter called "The Government") has invited bids under **NIT NO.018/EDM/PUNE/2022-23** for **Providing 08 passenger Lift at CRT Building FTII Pune**

1. The Government has further agreed to accept irrevocable Bank Guarantee for ₹..... (Rupees .... only) valid up to..... (Date)*..... as Performance Guarantee/ Security Deposit/Mobilization Advance 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.

2. We _____(Bank)_____ (hereinafter referred to as "the Bank") hereby undertake to pay to the Government an amount not exceeding ₹. _____ (Rupees _____ only) on demand by the Government.

3. We _____(Bank)_____ do hereby undertake to pay the amounts due and payable under this Guarantee without any demure, merely on 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(s). Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding ₹. _____ (Rupees _____ only).

4. We, the said bank further undertake to pay to the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the contractor(s) shall have no claim against us for making such payment.

5. We ____(Bank)_____ further agree with the Government that the Government shall have the fullest liberty without our consent and without effecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor(s) and to for-bear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contractor(s) or for any for-bearance, act of omission on the part of the Government or any indulgence by the Government to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. We ____(Bank)_____ further agree that the Government at 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 notwithstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities

7. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).

8. We ____ (Bank) _____ lastly undertake not to revoke this guarantee except with the previous consent of the Government in writing.

9. This guarantee shall be valid up to _____ unless extended on demand by Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to ₹. _____ (Rupees _____ only) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.

Date:

Witnesses:

Authorized signatory
Name:
Designation:
Staff Code No:
Bank Seal

1 Signature
Name and Address

2 Signature
Name and Address

*Date to be worked out on the basis of validity period of 90 days where only financial bids are invited and 180 days for two/three bid system from the date of submission of tender.

**In paragraph 1, strike out the portion not applicable. Bank Guarantee will be made either for earnest money or for performance guarantee/security deposit/mobilization advance, as the case may be

TERMINATION OF CONTRACT ON DEATH

Without prejudice to any of the rights or remedies under this contract if the contractor dies, the Divisional Officer on behalf of the President of India shall have the option of terminating the contract without compensation to the contractor.

Whenever any claim, against the contractor from the payment of sum money arises out or under the contractor, Government shall be entitled to recover such by appropriating. In part or whole, the security deposit of the contractor and he shall any Government promise notes, etc. forming the whole or part of such security. In the event of the security being insufficient or if no sum recoverable as the case may be shall be deducted from any sum then due which at any time. where after may become due from the contractor under this or any other contract with Government should this sum be not sufficient to cover the full amount recoverable the contractor shall be to Government on demand the balance remaining due.

Government shall have the right to cause any audit and technical examination of the works and the bill of the contractor including all supporting vouchers, abstracts etc. to be made after payment of the final bill and if as a result of such audit and technical examination any sum is found to have been overpaid in respect of any work done by him under contract and found not to have been executed the contractor shall be liable to refund the amount cover the same from him the manner prescribed in sub-clause(1) of this clause or in any other manner legally permissible and if as result of audit and technical examination it is found that the contractor was paid less than that was due to him under if the amount of such under payment shall be fully paid by the Government to the contractor.

Provided the Government shall not entitled to recover any such overpaid, nor the contractor shall be entitled to payment of any such paid short where as payment has been agreed upon between the Superintending Engineer or Executive Engineer on the one hand and the contractor on the other hand under any term of the contract permitting payment of work after assessment by the Superintending Engineer or the Executive Engineer.

EXECUTIVE ENGINEER (ELECT)

TECHNICAL SPECIFICATIONS

Elevators shall be conforming to CPWD specification for Electrical works Part-III (Lift & Escalators)-2003, IS 15785:2007, CPWD specification for Electrical works Part-I (Internal Electrical works)-2005, Local Body Lifts Acts, Indian electricity act & rule, Other BIS Specifications & other national/ international specifications or as amended herein. Elevators covered by this specification shall be provided, installed, tested, commissioned, certified and approved as per statutory requirements by Lift Inspectorate.

1	**General** These specifications are intended to cover the technical requirements of the complete lift installation work of 1 Nos. of 08 passenger Lifts in Satish Bahadur CRT, FTII Pune, its components, safety devices, and various types of controls and method of operation. The Machine shall be mounted directly on guide rails in lift shaft and no machine room shall be provided
2	**Drive Machinery**
2.1	**Electric Supply** 3 phase, 400/415 Volts, 50 cycles A.C Electric supply shall be made available by the owner at one point. The entire lift equipment should be suitable for operation at +10% to -20% of the rated supply voltage
2.2	**Machine** The lift machine shall be variable voltage and variable frequency gearless machine of design which offers higher performance, greater flexibility, and enhanced reliability & complies to ISO 9000 standards. The gear box should be highly efficient suitable for reduced energy consumption. The gearless machine shall be suitable for AC VVVF drive.
2.3	**Sheaves** Sheaves and pulley shall be of hard alloy, cast iron, SG iron or steel and free from cracks, sand holes and other defects. They shall have machined rope grooves. The traction sheaves shall be grooved to produce proper traction and shall be of sufficient dimension to provide for wear in the groove. The deflector sheave shall be grooved so as to provide a smooth bed for the rope. The deflector or secondary sheave assemblies where used shall be mounted in proper alignment with the traction sheaves, such deflectors sheaves shall have grooves larger than rope diameter as specified in clause 8 of IS 14665 (Part -4 sec3) :2000. The size of all the sheaves shall be in accordance with clause 8 .4 of IS 14665 (Part4-sec 3):2000.Wherever necessary suitable protective guards may be provided.
2.4	**Shaft Keys** Shafts which supports sheave, gears, coupling and other members which transmit torque shall be provided with tight fitting keys of sufficient strength and quality.
2.5	**Brake** The lift drive machinery shall be provided with an electro-magnetic brake or motor operated brake normally applied by means of springs in compression when the operating device is in off position. The brake shall be suitably curved over the brake drum or brake disc and provided with fire proof friction lining. The operation of brake shall be smooth, gradual and with minimum noise. The brake shall be designed to be of sufficient size and strength to stop and hold the car at rest with rated load. The brake should be capable of operation automatically by the various safety devices, current failure and by the normal stopping of the car. The brake shall be released electrically. It shall also be possible to release the brake manually, such releases requiring the permanent application of manual forces so as to move the lift car in short stops. For this purpose suitable brake release equipment wherever necessary shall be supplied with each lift installation and the same shall be kept in safe custody to prevent misuse.
2.5.1	~~**Hand winding wheel or handle**~~ ~~A suitable hand winding wheel or handle mounted on the end of motor shaft for manual operation to move the lift car up or down to bring it to nearest landing manually. The up or down direction of the movement of car should be clearly marked on the motor/ at suitable location. A warning plate written in bold signal red letters advising the maintenance staff to switch off the mains supply before releasing the brake and operating the wheel is to be prominently displayed.~~

3	**Type of controls:** Microprocessor based A.C Variable Voltage Variable Frequency Control shall be used. The design of the controller should be such that it can be mounted on a wall and is dust protected, providing sufficient protection against lizards, rodents, etc. Max. Permissible levelling inaccuracy shall be ±5 mm only. The VVVF controller shall have the following features: Total control at all stages of the motion cycle A consistent fully adjustable smooth ride Better levelling accuracy under all condition A higher power factor Lower starting current Energy saving through the reduced power consumption The system should monitor critical aspects of system health, self-help diagnostic capability as built in, control system to speed up trouble shooting. It shall have constant voltage transformer for trouble free operation.
4	**VVVF Inverter Drive** Fully digital VF inverter incorporating Flux Vector Control, technique of Pulse Width Modulation (PWM) for directly controlling the current of the elevator motor and providing constant speed control over the entire frequency range under all conditions to achieve considerable power saving thereby reducing the overall power consumption reduction in generator capacity and improvement in power factor and high speed switching device – the IGBT (Insulated Gate Bipolar Transistor) embedded in the inverter for smooth and quite operation.
5	**Installation Aspects** Vibration Isolation arrangement shall be provided to prevent transmission of vibrations to the building and structure. Provision of lighting and ventilation as required shall be provided by the contractor
6	**Guide Rails** The guide rails for lift car and counter weights shall be in accordance with clause 3 of IS 14665 (Part-4, section-2) 2000 .The Guide rails supported by brackets secured to hoist way at each floor shall be continuous throughout the entire travel, suitable for installation of lift machine and shall withstand without any deformation the action of safety care with a fully loaded car.
6.1	**Guide Rails Shoes** To prevent car shaking automatic adjustable guide shoes should be used. The firm should use Teflon guide gibes on lubricated guide rails.
7	**Lift Car**
7.1	**Car frame** The car frame shall be in accordance clause 4 of IS 14665 (Part-4, section-2) 2000 fabricated from formed or structural steel members shall be provided with adequate bracing to support the platform and car enclosures. The car safety shall be integral with car mounted on the bottom members of the car frame and shall be with flexible guide clamp type designed to stop and hold a fully loaded car and withstand without permanent deformation the operation of safety gears.
7.2	**Car Platform** The car platform shall be of framed construction and designed on the basis of rated load evenly distributed confirming to IS 14665 (Part-1) 2000. A load plate along with overload alarm, giving the rated load and permissible maximum number of passengers should be fitted in each lift car in a conspicuous position
7.3	**Car Body** The car shall be enclosed on all sides by a metallic enclosure. The enclosure including the door shall withstand without deformation a thrust of 35 Kg applied normally at any point and as per IS 14665 (Part-4, section-3) 2001 and Ventilation openings as required. Lift car door shall have a fire-resistant rating of 1 hour. The car roof shall be solid type capable of supporting a weight of at least 140 Kg and as per IS 14665 (Part-4, section-3) 2001 The liability of Fire rating test lies with manufacturing agency.
7.4	**Operating Panels inside the car** The car operating panel shall be of metal, flush mounted and duly finished to match the car interior décor and shall contain all the devices as may be specified depending upon the

	type of operation required. In addition separate illuminated panel for indication of the floor and direction may be provided on the top or the door way .All switches shall be fade proof and the devices shall be of suitable quality. Each device and its operating position shall be legible fade proof and marked.
8	**Buffers** The suitable heavy-duty spring buffers shall be placed below the car and counter weight arranged to sustain and shock, should the elevator over travel past the terminal limits. Buffer shall be designed for design speed + 15%. Clearance from under side of car resting on a fully compressed buffer shall not be less than 1.20M.
9	**Ropes** These will be self-lubricated and manufactured from high grade steel and material special flexible and the combine breaking strength will be calculated with a minimum factor of safety of 10 times the combine weight of car with full load. The Belt Technology (Suspension Traction Media) may also be used.
10	**Traveling Cables**. All wiring and electrical interconnections shall comply with governing codes. Insulated wiring shall have flame retardant and moisture proof outer covering and shall run in metal conduit tubing or approved electrical raceways. Traveling cables shall be flexible and suspended to relieve strain on individual conductors. A minimum of 10% spare conductors shall be provided in traveling cable, as the same can be used afterwards if required.
11	**Threshold** The threshold provided should be aluminium grooved, with self-supporting sill angle.
12	**Hall buttons/ Landing Operation Panels** For passenger and freight elevators, these shall be provided at each terminal landing. A single micro movement push button shall be provided at top most and landing floors, two micro movement buttons on a single plate shall be provided at each intermediate floor. When a hall call is registered by momentary pressure on a landing button, that button shall become illuminated until the call is answered. Passenger and freight elevators call buttons shall be as per manufacturer's standard selection.
13	**Motor** The motor should be suitable for elevator service (S4 duty) with high starting torque
14	**Alarm Bell** A battery-operated emergency alarm bell, including wiring to be provided and connected to a properly marked push button in the car-operating panel. The alarm bell shall be located at the ground floor, at the floor landing outside and adjacent to hoist way.
15	**Hoist way Gate Interlocks** Each host way gate shall be provided with interlock and which shall prevent the movement of the car away from the landing unless all are closed and locked. The interlock shall also prevent opening of gate except at the landing where the car is stopping or has stopped.
16	**Counter Weight** The counter weight shall consist of cast iron weight containing structural steel frame and shall be equal to the weight of the complete elevator car and approximately 50% of the contract load. Counterweight is to be provided with over speed safety in case of passenger elevators.
17	**Hitches Plates** Self-aligning (with isolation cushion) hitches plates of better roping shall be provided
18	**Speed Governor** The car safety shall be operated by a mechanical centrifugal speed governor located at the top of the hoist way. The governor shall actuate a switch when excessive descending speed occurs disconnecting power to the hoist motor and applying the break prior to deployment of the safeties.
19	**Reverse Phase Relay** Reverse phase relays should be provided on the controller, which should be designed to protect the elevator equipment against phase reversal and single phasing and phase failure.
20	**Digital Hall Position Indicator** A digital position indicator shall be provided on all landings indicating the position of the car in the hoist way at all times. Illuminating direction arrows shall indicate the direction of the travel. If the Landing Operation Panel is capable of the direction indication as well as position then no separate Indicator is required.

21	**Digital car position indicator** A digital car position shall be provided in each elevator car which shall indicate the landing at which the car has stopped or is passing. Illuminating direction arrows shall indicate the direction of travel.
22	**Car door operator :** a) An electrical A.C/D.C. door operator shall be provided on the car to automatically operate and close the car door in the following manner. b) When the car stopped at a landing the car door shall be opened by the electric operator. After the hoist way door has been closed, the pressing of either a car button or landing operating button at other landing shall cause the car door to close. An electric contact shall be provided to prevent the operation of the elevator unless the door is in the position.
23	**Full Collective Automatic Operation** a) The operation shall be full collective automatic type with one button in the car for each landing level served and up and down buttons at the intermediate landings and a single button at each terminal landing. All stops registered by the momentary pressure of the car button shall be made in the order in which the Landings are reached after the buttons have been pressed but irrespective of the sequence in which the calls were registered. b) All up landing calls shall be answered when the car is travelling in the up direction and all down landing calls shall be answered when the car is travelling in the down direction, except in the case of the uppermost or lowermost calls which shall be answered as soon as it is reached.
24	**Infra-red safety** Car doors should have full infrared safety device, with minimum 75 beams. When any beam is interrupted, an electronic circuit shall be actuated and door operating mechanism shall return the doors to the open position and when the entrance is again clear, the elevator door closes automatically.
25	**Fire man drive** Fireman drive shall be provided for each elevator. The operation of the fireman drive shall be in two phases. In the first phase it shall cancel all the calls and bring the passengers to the parking floor. All the floor buttons shall remain ineffective till the button is reset. In the second phase the fireman shall use it. In second phase operation the elevator door should open by continuous pressure on the door open buttons and the door shall close if the button is released before the door full open. And hall buttons giving car calls indication shall cause the door to close, and the elevator should run on slow speed. Doors should be fire rated for one hour and shall be provided with jam panels.
26	**Automatic Rescue Device.** Automatic (Emergency) battery device should come into operation in case of power failure it should sense the direction of motor and stop the elevator at the nearest floor landing and door should open. The automatic rescue device (drive) should be based on maintenance free batteries of suitable capacity –each elevator to have its own Automatic Rescue Device.

Executive Engineer (E)

ADDITIONAL SPECIFICATIONS

1	Rated capacity	08 Passenger (544 Kgs)
2	Floors	G+1 floor (2 Stops/2 Landings)
3	Travel	3 to 4.2 Mtrs
4	Location of Lift Machine:	**MRL**
5	Rated speed	1.0 mps VS
6	Car/Landing door	clear opening of 800 mm wide x 2000 mm high
7	Clear Car size	**1100 mm x 1300 mm x 2250 mm high or as per OEM standard size.**
8	Lift shaft available	Lift shaft having clear size of 1900 mm wide x 1700 mm deep, 1900 mm Pit depth, 6200 mm overhead
9	Doors type	COPO/TOPO Doors with frame made from SS 304 grade solid(non-cladded) sheet of 1.5mm thick in hairline finish for car and all landing doors with SS door architraves/frames The lift doors shall have minimum 1 hour fire rating (with submission of necessary valid test certificate issued by NABL accredited or Independent test laboratory)
10	Lift car enclosure	Made from SS 304 grade solid (non-cladded) sheet of 1.5mm, thick with hairline finish with frame made from MS girders, bracing of adequate size with minimum safety factor of 5, with Toe Guard Apron, with necessary false ceiling with adequate LED lights, blower/fan for ventilation & SS chequered plate flooring, handrails, mirror, emergency light etc. The lift car interior design shall be done as per the directions of engineer in charge
11	Car Operating Panel	With SS face plate having metallic push buttons with Braille code & luminous indicator around button with FPI, scrolling UP/DN LED indicator & with / without attendant key switch, OWD with audio-visual alarm, VAS in Marathi, Hindi & English with intercom system with telephone instrument in Lift car, LMR & FCC/ground floor
12	LOP	With SS face plate having recess/surface push button box for all landings with scrolling UP/DN LED indicator having metallic push buttons with Braille code & luminous indicator around button with CPI, Lift car arrival & next travel direction audio-visual indication at all landings
13	Lift controller	Lift controller based on microprocessor/ PLC with VVVF Drive having closed loop control system, with IBMS compatible having necessary port. The controller shall have necessary protections such as overcurrent, overvoltage, over speed, overheat for all devices including lift motor and travel direction protection, protection for phase loss at input or output etc. various operation modes such as maintenance, change direction by attendant, full load bypass, VIP call operation, self-leveling operation, call cancel facility, auto return to home landing, fireman evacuation operation, earthquake operation, door open/close operation from COP etc. The system can record information for minimum 30 latest faults, with real-time clock management and handheld keypad with LCD screen for view and setting of parameters. The control panel duly wired with proper size & strength, copper wire for power & control circuit, with provision for addition of floor/control card & allied accessories control panel having enclosure of 1.5mm CRCA sheet with powder coating with IP54 Protection class
14	ARD	ARD complete with necessary SMF VRLA batteries.
15	Fireman controller	Fireman controller having fireman switch at fire Landing
16	CCTV	CCTV surveillance system comprises of 2 Nos minimum 2.0 MP

		FHD IP based vandal proof Dome camera in lift car & in LMR/inside lift shaft top aimed on Lift machinery & controller with NVR kept in LMR/FCC with HDR data backup min. 90 days with min. 18" FHD TV monitor, to be kept in FCC/LMR as directed by Engineer In Charge
17	Lift Machine	Lift Machine of Gearless PMSM of suitable kW with duty cycle of minimum 120 starts/hr (with submission of necessary valid test certificate issued by NABL accredited or Independent test laboratory), with Traction pulley, OSG, electromagnetic brakes, entire assembly mounted on adequate size girders duly fixed on LMR floor/ shaft walls complete with main/diverter traction sheaves, suspension wire ropes/belts of adequate size & strength
18	Other	Other mechanical parts such as 'T' section adequate size guide rails for car & counter weight with brackets fasteners, counter weight frame with necessary blocks, buffers with necessary support arrangement, MS pit ladder etc. erected with necessary steel work Minor civil work such as alteration work if any necessary for erection of landing door frames and it's accessories e.g. sill, header, hole pass etc. complete with plaster finish, civil work for erection buffers, erection of lift machinery, adequate size core cuts if required & scaffolding for erecting guide rails, providing and fixing steel girders/RCC work having adequate strength for mounting and hoisting lift machine etc. complete

Executive Engineer (E)

Commercial and Additional Conditions

1	**General**
1.1	This specification covers manufacture, testing as may be necessary before dispatch, delivery at site, all preparatory work, Assembly, installation, testing and commissioning putting into operation of Lifts
1.2	**Location**
	The Lifts will be installed at Satish Bahadur CRT complex, Film & TV Institute of India, Pune
1.3	The work shall be executed as per CPWD General Specifications for Electrical Works (Part III Lifts & Escalators-2003) as per relevant IS and as per amendment no 1 February 2011 to IS 14665 (Part 2/SEC(1): 2000 Electric Traction Lifts clause 8.3.14.1 and as per directions 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 conditions shall apply. However, nothing extra shall be paid on account of these additional specifications & conditions as the same are to be read along with schedule of quantities for the work
1.4	The tenderer should in his own interest visit the site and familiarizes himself with the site conditions before tendering
1.5	No T & P shall be issued by the Department and nothing extra shall be paid on account of this
2	**Commercial Conditions**
2.1	Type of Contract The work to be awarded by this tender shall be treated as indivisible works contract
2.2	**Submission and opening of tenders:**
2.2.1	The tenders shall be single bid tender
2.2.2	The tenderers are advised not to deviate from the technical specifications/items, commercial terms and conditions of NIT like terms of payment, guarantee, arbitration clause, escalation etc.
2.2.3	In the price bid, there shall be no conditions whatsoever. In case any tenders mention any condition including conditional rebates in their price part, tender shall be rejected forthwith A tenderer will also not be allowed to withdraw or modify any condition at a time after the technical bids have been accepted and the decision to open the price bid has been taken by the department
3	**Terms of Payment of Sub Head - 1:** The following percentage of contract rates for the various items included in the contracts shall be payable against the stage of work shown herein.
3.1	80% for Sub Head – 1, after initial inspection and delivery at site in good condition of pro-rata basis
3.2	10% for Sub Head – 1, after the completion of installation in all respect **on pro rata basis**
3.3	Balance 10% for Sub Head – 1, will be paid after testing, commissioning trial run and handing over to the department for beneficial use. After obtaining license from lift inspector in final bill.
3.4	Security deposit: security deposit shall be deducted from each running bill and the final bill to the extent of 2.5% of the gross amount payable. The security deposited shall be released on the expiry of guarantee period stipulated in the contract.
4	**Rates**
4.1	The rates quoted by the tenderer shall be firm and inclusive of all taxes (including works contract taxes, GST), duties and levies and all charges for packing forwarding ,insurance , freight and delivery ,installation, testing, commissioning etc. at site i/c temporary constructional storage , risk , overhead charges general liabilities /obligations and clearance from local authorities
4.2	The contractor has to carry out routine and preventive maintenance for 12 months i.e. defect and liability period from the date of handing over. Nothing extra shall be paid
4.3	The agency is advised to inspect the site fully before quoting. It would be deemed that they have completely knowledge of the site nothing extra, in addition to the quoted amount, would be admissible for completion of lift work
5	**Completeness of tender** All sundry equipment's, fitting, 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 and components 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 documents or not.
6	For item/equipment requiring initial inspection at manufacturer's work' the contractor will intimate the date of testing of equipment's at the manufacturer's work before dispatch. The department also reserves the right to inspect the fabrication job at factory and the successful tenderer has to make the arrangement for the same. The successful tenderer shall give sufficient

	advance notice regarding the dates proposed for such tests/ inspections to the department's representatives 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 Manufacture's premises, before dispatch to the site by the contractor
7	**Storage and custody of material** The agency has to make his own arrangement. No separate storage accommodation shall be provided by the department. Watch and ward of the stores and their safe custody shall be the responsibility of the contractor till the final taking over of the installation by the department
8	**Care of the building:** 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 material arising out of the installation from the site of work.
9	**Completion of period** The completion period of 20 (Twenty) Weeks indicated in the tender documents is for the entire work of planning, designing, supplying, installation, testing, commissioning and handling over of the entire system to the satisfaction of the Engineer in charge.
10	**Performance guarantee:**
10.1	The tender shall guarantee among other things, the following a) Quality, strength and performance of the materials used b) Safe mechanical and electrical stress on all parts under all specified conditions c) Satisfactory operation during the maintenance period.
10.2	The successful tenderer shall submit an irrevocable performance guarantee of 3 % of the tendered amount in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement within 15 days of issue of letter of intent. This guarantee shall be in the form of government securities or fixed deposit receipts of guarantee bonds of any scheduled bank or the state bank of India in the specified format. The performance guarantee shall be initially valid up to the stipulated date of completion plus 90 days beyond. This bank guarantee kept valid till the recording of completion certificate for the work by the competent authority
11	**Guarantee**
11.1	All equipment shall be guaranteed for a period of 12 months from the date of taking over the installation by the department against unsatisfactory performance and /or break down due to defective design, workmanship of material. The equipment's or component, or any thereof, so found defective during guarantee period shall be forthwith repaired or replaced free of cost, to the satisfaction of the Engineer in charge. In case it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of the Engineer in charge in this regard shall be final
12	**Electric supply:** Electric service connection of 415V, 3 Phase, 4 wire, 50Hz, AC supply shall be provided by Department for Installation, Testing & Commissioning purpose free of charge
13	**Water Supply** Water supply shall be made available by Dept. at one point
14	**Data Manual and Drawing to be furnished by the contractor**
14.1	**With Tender:** The tenderer shall furnish along with the tender, detailed technical literature, pamphlet and performance data for appraisal and evaluation of the offer
14.2	**After award of work:** 1. The successful tenderer would be required to submit the following drawings within 15 days of award of work for approval before commencement of installation a. All general arrangement drawings. b. Detail of foundations for the equipment load data, location etc. of various assembled equipment as may be needed generally by other agencies for purpose of their work. The data will included breaking load on guides, reaction of buffers on lift pits reaction on support points in machine room, lift well etc. c. Complete layout dimension for every unit /group of units with dimensions required for erection purposes. d. Any other drawing /information not specifically mentioned above but deemed to be necessary for the job by the contractor

15	The successful tenderer should furnish well in advance three copies of detailed instructions and manuals of manufacturers for all items of equipment's regarding installation, adjustments operation and maintenance i/c preventive maintenance and troubleshooting together with all the relevant data sheets, spare parts catalogue and workshop procedure for repairs, assembly and adjustment etc. all in triplicate
16	**Extent of work** The work shall comprise of entire labour including supervision and all materials necessary to make a complete installation and such tests and adjustments and commissioning as may be required by the department. The term complete installation shall not only mean major items of the plant and equipment covered by specification but all accidental sundry components necessary for complete execution and satisfactory performance of installation with all layout charts whether or not those have been mentioned in details in the tender document in connection with this contract. Minor building works necessary for installation of equipment, foundation, making of opening in walls or in floors and restoring to their original condition, finish and necessary, grouting etc. as required. Maintenance (Routine and preventive) for one year from date of completion and handing over.
17	**Inspection and testing:**
17.1	Copies of all document of routine and type test certificates of the equipment, carried out at the manufacturer's premises shall be furnished to the Engineer in charge and consignee. No extra charge will be paid on this account
17.2	After completion of the work in all respect the contractor shall offer the installation for checking, testing and operation by the Lift Inspector or any other competent authority as required and shall obtain license for the operation of the Lifts
18	**Date of completion and acceptance** Date of completion and acceptance shall be the date of approval and grant of license for operation of the lifts by the Lift inspector/competent authority
19	**Validity** Tender shall be valid for acceptance for a period of 30days from the date of opening.
20	**Compliance with regulation and Indian standards** All work 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: i. Factories Act ii. Indian Electricity Rules iii. I.S. and BS Standards as applicable iv. Workman's compensation Act v. Statutory norms prescribed by local bodies like CEA, State Electricity board etc.
21	Nothing in this specification shall be construed to relieve the successful tenderer of his responsibility for the design, manufacture and installation of the equipment with all accessories in accordance with currently applicable statutory regulations and safety codes
22	Successful tenderer shall arrange for compliance with statutory provision of safety regulations and departmental requirements of safety codes in respect of labour employed on the work by the tenderer. Failure to provide such safety requirement would make the tenderer liable for penalty of Rs. 50 /- 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.
23	**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 department shall not be responsible for any accident or damage incurred or claims arising there from during the period of erection, construction and putting into operation the equipment's and ancillary equipment under the supervision of the successful tender 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 due to the above
24	**Erection Tools** No tools and tackles either for unloading or for shifting the equipment's for erection purposes would be made available by the department. The successful tenderer shall make his own arrangement for all these facilities.

25	**Cooperation with other agencies** The successful tender shall coordinate with other contractors and agencies engaged in the construction of building, if any and exchange freely all technical information so as to make the execution of this works contract smooth. No remuneration would be claimed from the department for such technical cooperation. If any unreasonable hindrance is caused to other agencies and any completed portion of the work has to be dismantled and redone for want of cooperation and coordination by the successful tenderer during course of work, such expenditure incurred will be recovered from the successful tenderer, if the restoration work to the original condition or specification of the dismantled portion of the work was not undertaken by the successful tenderer himself
26	**Mobilization Advance** No mobilization advance shall be paid for this work.
27	**Insurance and Storage** All consignments are to be duly insured up to the destination from warehouse to warehouse at the cost of the supplier. The insurance covers shall be valid till the equipment is handed over duly installed, tested and commissioned
28	**Verification of correctness of Equipment at Destination** The contractor shall have to produce all the relevant records to certify the genuine equipment from the manufacturer has been supplied and erected
29	**Painting** This shall include cost of painting of entire exposed iron work complete in the installation. All equipment works shall be painted at the works before dispatch to the site
30	**Training** The scope of work s includes on job technical training of two persons at site. Nothing extra shall be payable on this account
31	**Maintenance** Sufficient trained and experienced staff shall be made available to meet any exigency of work during the guarantee period of one year from the handing over of the installation. The maintenance, routine as well as preventive for one year from the date of taking over the installation as per manufacturer's recommendation shall be carried out and the record of the same shall have to be maintained
32	**Interpreting Specifications** In interpreting the specification, the following order of decreasing importance shall be followed in case of contradictions: a) Schedule of Quantities b) Technical specifications c) Drawing (If any) d) General specification e) Relevant IS or other international code in case IS code is not available
33	A separate supplementary agreement shall be made with the successful tenderer for subhead II of schedule of work i.e. comprehensive maintenance for 4 years after guarantee period of 1 year .The payment for comprehensive maintenance shall be made quarterly after the end of each quarter
34	**Completion Drawings**: Three Set of completion drawing i/c Soft Copies as well as hard copy comprising minimum following shall be submitted by the contractor while handing over the Installation: a) Equipment Layout drawing (s) giving complete details of the entire equipment's. b) Electrical Drawings for the entire electrical equipment's showing cable sizes, equipment's capacities, and switchgears ratings, control components, control wirings etc. c) Schematic Diagram of the entire Lift installations
35	The contractor or their authorized representatives are bound to sign the site order book as & when required by the engineer in charge & to comply instruction therein
36	The digital display should be provided for the Lift in use/lift out of order sign

CONTRACTOR

EXECUTIVE ENGINEER (E)
CCW, AIR, MUMBAI.

List of approved makes

Sr. No.	Description	Makes
1	13 Passenger lift	Otis, Kone, Johnson, Schindler, Omega Lift, Mitsubishi, TK Elevators
2	MCCB/MCB/ELCB	Havells / Standard / ABB / HPL / L&T / Legrand / Indo Kopp / EE/ Indoasian
3	PVC insulated FRLS copper Conductor single core Cable/XLPE 1.1 KV grade armoured cables	Polycab / RR Cable / Avocab / Bin Cab / Havells / Finolex or any ISI marked
4	Modular Accessories	Anchor /Legrand Myrius/ MK Blenz / Siemens / Crabtree
5	LED fittings	Phillips / Wipro /Trilux /Havells
6	Steel Conduit/PVC conduit	Precision / Mihir / Modi / Press Fit/Diamond/ Legrandor any ISI Marked
7	Cement OPC/PPC 43 Grade	ACC/ Birla/Jaypee/Shree/J. K/ Ultratech /L& T

Executive Engineer (E)

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SCHEDULE OF WORK					
NAME OF WORK : Providing 08 passenger Lift at CRT Building FTII Pune					
S.N	**Description**	**Qty**	**Rate**	**Unit**	**Amount**
	Sub Head-1				
1	Supplying, installation, testing & Commissioning of machine room less 08 passenger (544 kg) lifts having contract speed of 1.0 MPS and serving G+01 floors in the existing lift shaft Lift shaft having clear size of 1900 mm wide x 1700 mm deep, 1900 mm Pit depth, 6200 mm overhead as per additional specifications • Location of Lift Machine:- Machine Room Less • Rated speed :- 1.0mps VS • Doors type :- COPO/TOPO Doors with frame having clear opening of 800 mm wide x 2000 mm high made from SS 304 grade sheet of 1.5mm, thick in hairline finish for car and all landing doors with SS door architraves/frames Job includes entire procedure of obtaining all necessary erection permissions & "License to Work the Lift" from Electrical Inspector (Lifts) with submission to the Engineer In Charge including PWD Inspection Fees for each lift. The above rate includes Fully Comprehensive AMC for one year from the date of commissioning	01		Each	
	Sub Head-2				
2	Comprehensive maintenance of lifts which include routine and breakdown maintenance for period of five years including repair/replacement of worn out items with minimum down time and warranty guarantee of repaired/replaced items after completion of one year of guarantee period from the receipt of the Lift License from Local body				
2.1	2nd Year	1		Annum	
2.2	3rd Year	1		Annum	
2.3	4th Year	1		Annum	
2.4	5th Year	1		Annum	
2.5	6th Year	1		Annum	
	GRAND TOTAL				

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