



**NOTICE INVITING TENDER FOR SUPPLY, INSTALLATION, TESTING, COMMISSIONING TRAINING AND MAINTENANCE OF THREE NOS. ELEVATORS BY DISMANTLING AND UNDER BUYBACK OF EXISTING OLD THREE NOS ELEVATORS
AT SIDBI TOWER, 15 ASHOK MARG, LUCKNOW**

TENDER IDENTIFICATION NO. - 314/2022/1624/HO1/PREMISES

LAST DATE OF SUBMISSION OF SEALED TENDER – 10/05/2021 UPTO 15:00 HR

Issued By:-

The Dy. General Manager [Premises]

SIDBI TOWER, Small Industries Development Bank of India (SIDBI),

1st Floor, Administration and Premises Vertical,

15, Ashok Marg,

Lucknow-226001

Phone No. 0522-4261633/ 4259778



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**LAST DATE OF SUBMISSION OF SEALED TENDER – MAY 10th, 2021 UPTO 15:00
HRS.**

Issued to:-

The Dy. General Manager [Premises]

SIDBI TOWER, Small Industries Development Bank of India (SIDBI),

1st Floor, Administration and Premises Vertical,

15, Ashok Marg,

Lucknow-226001

Phone No. 0522-4261633/ 4259778

Tender Notice

SIDBI invites sealed tenders in two bid system from Original Equipments Manufacturers (OEM) / Authorized Dealers for Supply, Installation, Testing, Commissioning training & maintenance of three nos. elevators by dismantling and under buyback of existing old three nos. elevators at SIDBI Tower, 15 Ashok Marg, Lucknow.

1. The above said job should be completed in total period of 240 days.
2. Each tender set comprises of the following:
 - a) Techno- Commercial Bid - (Part-I)
 - b) Price Bid -(Part-II)
3. The duly filled and sealed offer document including complete set of supporting documents shall be submitted to:

The Dy. General Manager [Premises],

SIDBI TOWER, Small Industries Development Bank of India (SIDBI),

1st Floor, Administration and Premises Vertical,

15, Ashok Marg,

Lucknow-226001,

Phone No. 0522-4261633/ 4259778

On or before **10/05/2021 UPTO 15:00 HRS**

Intended tenderers are advised to pay Earnest Money Deposit (EMD) of ` 70,000/- (Rupees Seventy Thousand Only) in the form of Demand Draft having remaining validity period of 120 days from the date of submission of tender document, drawn in favor of **Small Industries Development Bank of India** from a nationalized/scheduled bank payable at **Lucknow** along with the tender. Cheques/ Bank Guarantee in lieu of DD will not be accepted. EMD will not bear any interest. EMD will be forfeited in the event of any erosion, refusal or delay on the part of tenderer to sign and execute the contract on acceptance of his/her tender and the Bank shall ban the agency from subsequent bidding for a period of 3 years. EMDs of

unsuccessful tenderers will be refunded (without interest) within 90 days from the date of opening of Price bid. EMD of the successful tenderer will be adjusted against initial Security Deposit, if the tenderer requests to do so.

4. The offers submitted shall be valid for a period of 120 days from last date of submission of tender.
5. The tenders shall be submitted in two bids system in **two separate non window envelopes** each sealed and clearly identified as to envelope no. and contents as **technical bid and price bid**. These two envelopes shall be contained and sealed in a **non window large envelope**. This envelope shall be submitted as per instructions with the name of work, i.e., "Supply, Installation, Testing, Commissioning Training & Maintenance of three nos elevators by dismantling and under buyback of existing three nos. old elevators at SIDBI Tower, 15 Ashok Marg, Lucknow" superscribed on the envelopes and addressed to :

The Dy. General Manager [Premises]

SIDBI TOWER,
Small Industries Development Bank of India (SIDBI),
1st Floor, Administration and Premises Vertical,
15, Ashok Marg,
Lucknow-226001
Phone No. 0522-4261633/ 4259778

6. Full name and postal address of tenderer shall be written on the bottom left hand corner of the envelope.
7. The tender submitted shall contain details/documents as listed below. Tenders without accompanying all details/documents listed below will be rejected.

Envelope No.1 (Technical Bid)

- a. Complete set of tender document Part-I (Techno-Commercial Bid) as issued, duly filled and signed by the tenderer on all pages along with all supporting certificates, work orders, etc. of similar works preferably for Govt. institutions, PSUs, Banks etc and other details as specified in tender.
- b. Demand draft for Earnest Money deposit (EMD) of Rs. 70,000/- from any scheduled/nationalized bank in favour of **Small Industries Development Bank of India** payable at **Lucknow**.
- c. Addendum / corrigendum issued, if any, by the Bank, Duly Signed.
- d. Other Submittals as indicated in the tender document Part-1.

Envelope No.2 (Price Bid)

- a. Complete set of tender document Part-II (i.e., Price Bid) duly filled & signed by the tenderer.

Acceptance of tender will rest with SIDBI who reserves right to accept or reject any or all tenders, in part or full, without assigning any reason thereof. Any tenderer who does not fulfill any of the prescribed conditions would be liable to be rejected.

Tenders received late on account of any reason whatsoever or by courier / post will not be entertained.

All the rates quoted in the tender should be inclusive of all materials, labors, dismantling, freight, all types of taxes including GST, royalties, erection, construction, testing of materials/samples brought on site for approval, tools, tackles, plant and equipments, supervision, overheads and profits, statutory charges, costs for licenses and any other expenditure etc. and shall remain firm till completion of work. Escalation in price will not be payable for whatsoever reasons.

All the intending Agencies/Contractors are also

requested to note following important provisions.

1. SIDBI is governed by Public Procurement Policy for Micro and Small Enterprises (MSEs) as circulated by The Ministry of MSME, Gol.
2. These provisions shall be applicable to Micro and Small Enterprises (MSEs) registered with District Industries Centers or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board or National Small Industries Corporation or Directorate of Handicrafts and Handloom or any other body specified by Ministry of Micro, Small and Medium Enterprises (MSMEs).
3. If deemed fit, the Bank may procure minimum of 20% of the contract value of any goods or services from MSEs. Further, the Bank reserves the right to procure part work/services (about 4% out of above 20%) to MSEs owned by SC and ST entrepreneurs, if found suitable. Provided, these MSEs quoting price within the price band of L1 +15% & bringing down their price to L1 price, in a situation where L1 price is from someone other than a MSEs. In case of more than one such MSEs, the supply shall be shared proportionately at the discretion of the Bank.
4. Further, such MSEs would also be entitled for tender sets free of cost and exemption from payment of earnest money deposit. In case of any issue on the subject matter, the MSE's may approach the tender inviting authority to resolve their grievances.
5. Agencies desirous of availing preference under above provisions should submit a copy of proof of Registration as MSEs/ and ownership of the same by SC/ST along with the tender/RFP/RFQ.

Techno Commercial Bid (Part I)

TERMS & CONDITIONS

1. Sealed tenders in two parts are invited for “Supply, Installation, Testing, Commissioning Training & maintenance of three nos. elevators by dismantling and under buyback of existing elevators at SIDBI Tower, 15 Ashok Marg, Lucknow”. **The estimated cost of the captioned work is approximately Rs. 60.0 Lakhs.**
2. **Eligibility (Pre-qualification) Criteria:**

| Sr. no. | Parameters | |
|---------|--|--|
| 1 | Average Sales Volume of the Agency in the last 4 years | The Agency should have average annual sales turnover of `500 crores or above in the last 4 years (i.e. Fy 2015-16, 2016-17, 2017-18, 2018-19) |
| 2 | Profit in the previous financial years | The Agency should have earned profit during the last three Financial years (2016-17, 2017-18, 2018-19). |
| 3 | Works executed in last 3 years | The Agency should have supplied and installed atleast 100 elevators, each costing atleast Rs 15 lakh during last three years |
| 4 | No. of years in Elevators Business | Minimum 10 years in the business without any break in business is required |
| 5 | Own Office and Service centre at Lucknow | The agency should have its own office and service centre functioning in Lucknow or it should have its authorized dealer / service centre at Lucknow for not less than five years as on the date of submission of tender. |
| 6 | Reference site | Furnish details like name, address and telephone numbers of customers, as per Annexure-I, to whom elevators have been supplied and installed during the last 3 years – Minimum requirement is 3 Reference sites. |
| 7 | No. of qualified engineers in Lucknow | Mention number of qualified engineers of the agency. Minimum five qualified engineers (Degree/ Diploma holders in Lucknow are required. |

3. Tender forms will be issued from **19th April, 2021 to 10th May, 2021** during 10.00AM to 05.00PM on all working days (Monday to Friday) by Administration and Premises Vertical, 1st Floor, SIDBI Tower, 15 Ashok Marg, Lucknow-226001.
4. **A pre-bid meeting of intending tenderers will be held on 30th April 2021 at 11.30 AM in Bank’s Head Office, SIDBI Tower, 15 Ashok Marg, Lucknow. It is expected that the representative of the bidders shall adhere to Central/ State Government guidelines related to Covid 19 while attending pre bid meeting.**
5. Tender forms can also be downloaded from the website www.sidbi.in and Central Public Procurement (CPP) Portal <http://eprocure.gov.in/> till **10th May, 2021**. Tender will have to be submitted in two bids system sealed cover as mentioned above, addressed to the Dy General Manager(Premises), Small Industries Development Bank of India, SIDBI Tower, 15 Ashok Marg, Lucknow-226001 up to **03.00 PM on or before 10th May, 2021** for Banks' examination along with all the information / documents, mentioned in techno-commercial bid,. After scrutiny, if

any of the contractors are not found to possess the required eligibility, their tenders will not be accepted by the Bank for further processing.

6. **Part I** of the tenders will be opened at **03.30 PM on 10th May, 2021** in the presence of the authorized representative of the tenderers who choose to be present. **Part II** of the tender will be opened on a subsequent date which will be intimated to the eligible tenderers in advance.
7. The Bank is not bound to accept the lowest tender and reserves the right to accept either in full or in part any tender. The Bank also reserves the right to reject all the tenders without assigning any reason, thereof.
8. **CVC has appointed Independent External Monitor (IEM) details as below: -**

Shri. Nageshwar Rao Koripalli, IRS (Retd.)
38, The Trails, Manikonda,
R.R. District,
Hyderabad 500089
Mob: 97889 19555 e-mail : knageshwarrao@gmail.com

Supply, Installation, Testing, Commissioning Training & maintenance of three nos. elevators by dismantling and under buyback of existing three nos. old elevators at SIDBI Tower, 15 Ashok Marg, Lucknow

(A) - Format for submitting Eligibility Criteria : (To be filled by the Agencies with necessary supporting documents as proof)

| Sr. No. | BANK'S ELGIBILITY CRITERIA | REMARKS & Page number of the relevant document submitted for easy reference. | |
|---------|--|--|-------------------|
| | | DESCRIPTION | REMARKS /PAGE NO. |
| 1. | <p>a) Only Original Equipment Manufacturers (OEM) and their authorized dealers along with authorization certificate (To be attached) having minimum 10 years of experience in the field of work of similar nature (i.e. experience of SITC of elevators AND</p> <p>b) The Agency should have supplied and installed atleast hundred elevators, each costing atleast `15 lakh during last three years.</p> <p>c) Have a minimum average yearly turnover of `500 crores during last 4 years (i.e. Fy 2015-16, 2016-17, 2017-18, 2018-19)</p> <p>d) Have the authorized service set up in Lucknow for not less than five years for rendering after sales service.</p> | | |
| 2 | OEM's certificate, if tenderer is dealer, certifying that all spares and service contracts, warranty and AMC period will be their responsibility in case the supplier is unable to honour the Terms of Contract as per the Tender Document. | | |
| 3 | Composition of the Agency- copy of the Articles of Association / Power of Attorney. | | |
| 4 | Work experience & Completion of similar works of specified value during the specified period (enclose copies of purchase orders) | | |
| 5 | Turn over during the specified period.(Indicate turnover for three FYs-2016-17,2017-18 and 2018-19) | | |
| 6 | Net Profit of the Agency during last three years (FY 2017 to FY 2019) | | |
| 7 | Name(s) and address (es) of the Banks/FI/ Corporates to whom Elevators has been supplied and their present contact executives. | | |
| 8 | Name(s) and address(es) of the Clients and their present contact executives in Lucknow. | | |

| | | | |
|----|---|--|--|
| 9 | Name and address of Local office and service centre at Lucknow | | |
| 10 | EMD `70,000/- | | |
| 11 | Cost of the Tender Form, Non-Refundable payment of `500/- per set in cash / Demand Draft. | | |

Note: Please attached the copy of documents (Details mentioned without relevant/necessary proof shall not be considered) and indicate the page no. also.

(B) - Commercial Conditions- Acceptance check list

| Sr. No. | Description | Bank's Terms | Tenderer's terms and Acceptance of Bank's terms |
|---------|----------------------------|---|---|
| 1 | Validity | 120 days | |
| 2 | EMD | `70,000/- | |
| 3 | Terms of payment | (a)55% of the quoted rate pro-rata against delivery of materials after checking at site (b)10% each (Total 30%) on installation and commissioning, after checking /verification testing, training at site of 1 st , 2 nd and 3 rd elevators. The payment shall be made progressively after the completion of works of each elevator complete. (c) 10% after obtaining of license from Elevator Inspector/ Electrical department and as applicable. (c) 5% of the quoted rate after one year of warranty period retained as Security Deposit (SD) for Defect Liability Period (DLP). SD may also be released against submission of Performance Bank Guarantee in format as given in Annexure IV. | |
| 4 | Prices | Should be quoted in INR inclusive of all taxes, GST, transportation, loading/unloading, dismantling of existing elevators, insurance, levies, etc. during the contract period. | |
| 5 | Guarantee/Warrantee Period | 12 months from date of successful handing over, installation, testing and commissioning of all the three elevators. | |
| 6 | Service after sales | Free of cost during the Warranty period. Comprehensive Annual Maintenance Contract (CAMC) after completion of warranty period. | |
| 7 | Completion period | 240 days from 10th day after award of contract. | |

| | | | |
|----|---|---|--|
| 8 | Liquidated damage for delay in supply / installation | 0.5% per week of the contract value (excluding AMC charges) subject to maximum 7.5% of contract value(excl CAMC). | |
| 9 | Initial Security Deposit | 2% of the contract value (Including EMD) to be deposited within fourteen days after award of work. Alternatively, Bank Guarantee from scheduled commercial Bank in the specified format may also be submitted. | |
| 10 | Service facility | Shall be available at the centre (Lucknow) where the Elevators are to be installed and shall be approachable on telephone/ mobile. | |
| 11 | Address of Service centre at Lucknow | | |
| 12 | Contact Person's Name and mobile no. | | |
| 13 | Number of Service Engineer available in service centre at Lucknow | | |
| 14 | Name and Contact details with number of Service Head at Lucknow | | |

Note:- If holiday is declared on any of the dates mentioned above, the next working day and time shall be the date for the same purpose. Due to ongoing Covid 19 pandemic, Bank may change the dates mentioned above after giving prior notice by hosting corrigendum in the website only. Accordingly, bidders are requested to check the Bank's website regularly.

Date
Place:

Signature and seal of the Tenderer.

TENDER DOCUMENT FOR SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF ELEVATORS

TECHNICAL SPECIFICATIONS

GENERAL

1. STANDARDS

The following Indian Standard Specifications and Codes of Practice, currently applicable and updated as of date irrespective of dates given below, shall apply to the equipments and the work covered by this contract. In addition the relevant clauses of the Indian Electricity Act 2003 and Indian Electricity Rules 1956 as amended upto date shall also apply. Wherever appropriate Indian Standards are not available, relevant British and/or IEC Standards shall be applicable.

1. Code of Practice for installation, operation and maintenance of electric passenger & goods elevators. IS-14665 (Part 2) Sec-1 : 2000

| | | |
|-----|--|---|
| 3. | Safety Rules Section-1 Passenger and Good elevators | IS-14665 (Part 3) Sec-1 : 2000 |
| 5. | Outline dimension for electric elevators. | IS-14665 (Part-1) : 2000 |
| 6. | Inspection Manual for Electric Elevators | IS-14665 (Part 5) : 1999 |
| 7. | Electric Traction Elevators – Components | IS-14665 (Part 4) Sec-1 to 9 : 2001 |
| 8. | Installation And Maintenance of Elevators For Handicapped Persons (Code of Practice) | IS 15330 :2003 |
| 9. | Specification for elevators cables. | IS-4289 (Par-1) : 1984 Reaffirmed 1991 |
| 10. | Specification for hot rolled and slit steel tee bars. | IS-1173-1978 Reaffirmed 1987 |
| 11. | Isometrics screw threads | IS-4218-(Part-II)1976 Reaffirmed 1996 |
| 12. | Degree of protection provided by enclosure for low voltage switchgear and control gear. | IS-2147-1962 |
| 13. | Classification of insulating materials for electrical machinery and apparatus in relation to their thermal stability in service. | IS-1271-1985 Reaffirmed 1990 |
| 14. | Code of practice for earthing. | IS-3043-1987 |
| 15. | Electrical installation Fire Safety of Building. | IS-1646-1997 |
| 16. | PVC insulated electric cable for working voltage upto and including 1100 volts. | IS-694-1990 |
| 17. | Code of practice for electrical wiring and installation | IS-732-1989 |
| 18. | PVC insulated (Heavy Duty) electric cables for working voltage upto and including 1100 volts. | IS-1554-1988 (Part-1) |
| 19. | Flexible steel conduits | IS-3480-1966 |
| 20. | Accessories for rigid steel conduit for electrical wiring | IS-3837-1976 |
| 21. | Boxes for the enclosure of electrical accessories | IS-5133-1969 (Part 1) |

| | | |
|-----|--|-----------------------|
| 22. | Guide for safety procedures and practices in electrical work. | IS-5216-1982 (Part-1) |
| 23. | Conductors for insulated electric cables and flexible cords | IS-8130-1984 |
| 24. | Miniature Circuit Breakers | IS-8828-1996 |
| 25. | Rigid steel conduits for electrical wiring (Second revisions) | IS-9537-1981 |
| 26. | Methods of test for cables | IS-10810-1998 |
| 27. | Earth Leakage Circuit Breakers. | IS-12640-1988 |
| 28. | Molded Case Circuit Breakers | IS-13947-1993 |
| 29. | General requirement for switchgear and control gear for voltage not exceeding 1000 volts. | IS-13947-1993 |
| 30. | 1100 volt grade XLPE insulated armoured cables | IS 7098 |
| 31. | Specifications for hoist way door-locks | IS 7754-1975 |
| 32. | Rules for design, installation, testing and operation of elevators, escalators and moving parts. | IS 1735-1975 |

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

- The Indian Electricity Rules 1956
- The Indian Electricity Act 2003
- Bombay Elevator Act 1939
- Delhi Elevator Rules
- Fire safety regulations pertaining to elevators

The tenderers shall also take into account local and State regulations as in vogue for the design and installation of elevators.

Wherever appropriate Indian Standards are not available, relevant British and/or IEC Standards shall be applicable. BIS certified equipment shall be used as a part of the Contract.

2. ELECTRIC SUPPLY

The available system of electric supply is 415 volts +10% -20%, 3 phase 4 wire AC 50 Hz system and 240 volts between phase and neutral. Any equipment /component operating at other than the above mentioned power supply shall be provided with necessary

transformers/voltage stabilizers. The amount of power required for elevators shall be indicated in the tender. Power shall be provided at one point to be indicated by the tenderer. All subsequent electrical systems shall be deemed to be included in the scope of this contract.

3. TECHNICAL PARAMETERS

Technical parameters given in Annexure-I, give requirement of passenger elevators. Tenderers shall fill in their item wise confirmation/comments in the column provided for the purpose in this annexure. Deviations, if any, from tender requirements shall be clearly brought out in this annexure, failing which it shall be presumed that the offer conforms to the tender requirements fully. Tenders in which Annexure-I is not duly filled in by the tenderers are liable to be summarily rejected.

ELEVATOR MACHINE AND CONTROLLER

1. GENERAL REQUIREMENTS

The Elevators shall include all elements confirming to specifications or as amended herein. Elevators covered by these specifications shall be provided, installed, tested, commissioned, certified and approved as per statutory requirements of Elevator Inspectorate.

Each Elevator shall have its own driving machine. The method of drive shall be Electric Traction with Gear less motor having Variable Frequency (VF) Regenerative Drive.

The design of the Elevators shall take into consideration fire prevention, elimination of dust and dirt traps, and easy accessibility for cleaning and routine maintenance.

2. ELECTRIC TRACTION DRIVE SYSTEM

2.1 Traction Machine

The construction of all Elevator machines shall conform with IS-14665

2.2 AC Motor (Elevator with machine room)/ Permanent Magnet Motor

The AC self lubricating motor or permanent magnet motor shall be suitable for elevator use with high starting torque and low starting current. Thermistors shall be embedded in the stator windings to indicate the temperature rise in the motor. The AC motor shall have Class F insulation and suitable for not less than 180 starts per hour with a maximum temperature rise of 50 degree C over the ambient.

2.3 Brake

- a) The Electro-magnetic brake with non-asbestos lining shall be spring applied and electrically released type having noiseless operation.
- b) The brake shall be capable of stopping and holding the Elevator car in its downward travel to rest with 125% of its rated load from the maximum governor tripping speed. In this condition

the retardation of the Car shall not exceed that resulting from the operation of the Safety gear or stopping on the buffer.

- c) Springs used to apply the brake shoes (two nos.) shall be in compression and adequately supported.
- d) Brake linings shall be of renewable incombustible materials and shall be secured to the brake shoes such that normal wear shall not weaken their fixings. Band brakes shall not be used.
- e) No earth fault, short circuit or residual magnetism shall prevent the brake from being applied in the event of loss of power supply to the Elevator motor and control circuit.
- f) A means of adjusting the brake plunger stroke and releasing the brake in emergency shall be provided.
- g) The Elevator machine shall be fitted with a manual emergency device capable of having the brake released by hand and requiring a constant effort to keep the brake open.
- h) The fail safe brake shall incorporate an approved design of brake switch i.e. pick up, hold, discharge. Brake coil shall be wired in series & their respective switches in parallel. The operation of brake shall be thyristor controlled from solid state drive in order to effect minimum pick up time and synchronized start.

2.4. Driving Mechanism

2.4.1 Elevator Machine

The elevator machine shall be suitable for 415 volt 3 phase 50 Hz AC supply with a voltage variation of +10% and -20% and shall be placed directly above the hoist way on steel beams resting on machine room floor slab.

The elevator machine shall have high efficiency and low power consumption and shall be designed to withstand peak currents in elevator duties.

Means for manual operation of the elevator car shall be made by providing winding wheel suitably marked to indicate the direction of the movement to enable the elevator car to be brought to the nearest landing. There shall be a warning display for switching off electrical supply before the manual operations.

2.5 Driving Sheaves

- a) The sheaves shall be manufactured in steel or SG iron and fitted with sealed for life lubricated bearings.
- b) The sheaves shall have machined rope grooves that can be reworked for future wear.
- c) Adequate provision shall be made to prevent any suspension ropes leaving groove due to rope slack or introduction of foreign objects.

2.6 Alignment

- a) The brake plunger, collar, sleeve, motor, sheaves and all bearings shall be mounted and assembled so that proper alignment of these parts is maintained.
- b) The assembly shall be reviewed and rectified when excessive noise is emitted during operation.

2.7 Gearless Machines

The gearless machine shall consist of a motor traction sheave and brake drum or brake disc completely aligned on a single shaft. Gearless machine shall be AC gearless with VF Regenerative drive.

2.8 Anti-Vibration Supports

The whole traction machine shall be mounted on appropriate anti-vibration supports to minimize noise and vibration.

2.9 CONTROL SYSTEMS

2.9.1 Description

The elevators shall have state of art microprocessor based Variable Voltage Variable Frequency (VVVF) Regenerative drive (Closed Loop). Out of the three elevators, two elevators (UPTO 8TH FLOOR) shall be provided with duplex collective selective control and 3rd elevator (UPTO 6TH FLOOR) shall be simplex collective simplex control. Some of the technical parameters required are listed below.

- | | |
|--|--------------------------------|
| a) Starting current | As per acceptable standards |
| b) Power saving | 50 - 55% |
| c) Leveling accuracy | ± 3 mm (passenger elevators) |
| d) Acceptable voltage fluctuation | +10 to - 20% |
| e) Rate of acceleration/deceleration (M/S ²) | 0.6 - 1.5 (Adjustable at site) |
| f) Maximum jerk (M/S ³) | 0.7 - 1.5 (Adjustable at site) |
| g) Maximum vibration in car horizontal/ vertical | As per acceptable standards |
| h) Maximum noise level in car during travel | As per acceptable standards |
| i) Maximum door noise level while closing and opening at a distance of 1 mtr from car door | As per acceptable standards |

The controller shall be placed in the Machine Room at suitable and easily accessible location (preferably, the present location) vertical, totally enclosed cubicle type with hinged doors on the front provide easy access to all components in the controller. Cubicle shall be well ventilated such that the temperature inside never exceeds the safe limits of the components at ambient room conditions.

The controller shall operate within the supply voltage variation of plus 10% to minus 10% of the nominal voltage.

The Controller shall include protection against the following abnormalities and shall cut off the power supply, apply the brake and bring the car to a rest in the event of any of the abnormalities occurring.

- a) Over current
- b) Under voltage
- c) Overvoltage
- d) Single phasing
- e) Phase reversal
- f) Earth leakage

2.9.2 Features

Control system features are detailed as below.

- **Attendant Operation**

All elevators shall be provided with attendant control facilities.

A key switch for change of operation mode shall be provided in a lockable recess panel on the car operation panel. After gaining control on the elevator, the attendant can direct the car to stop at any floor landing. The attendant can also by pass the landing calls (but not cancel them) or reverse the direction of traveling.

- **Automatic By-pass**

Load weighing devices located either on car top or under the car cage shall be provided for both the elevators. Whenever the load exceed 60-70% of the capacity load of the elevators, the elevators shall ignore all landing calls and only respond to car calls.

- **Over load device**

A load weighing devices shall operate when the load in the car exceeds the rated capacity. The operation of the device shall activate buzzer sound and flashing 'overload' signals. At the same time the car doors shall be prevented from closing. When the excess load has been removed from the car, the buzzer alarm shall be muted automatically and the car shall function normally. The sensitivity shall be 30 kg for Passenger elevators

Automatic self-leveling

All elevators shall be provided with automatic self-leveling feature that shall bring the elevator car level to within ± 3 mm for passenger elevators of the landing floor regardless of load or direction of travel. The automatic self leveling feature shall correct for over travel and rope stretch.

2.9.3 Automatic Rescue Device

The ARD shall have the following specifications.

- a) ARD should move the elevator to the nearest landing in case of power failure during normal operation of elevator.
- b) ARD should monitor the normal power supply in the main controller and shall activate rescue operation within 10 seconds of normal power supply failure. It should bring the elevator to the nearest floor at a slower speed than the normal run. While proceeding to the nearest floor the elevator will detect the zone and stop. After the elevator has stopped, it automatically opens the doors and parks with door open. After the operation is completed by the ARD the elevator is automatically switched over to normal operation as soon as normal power supply resumes.
- c) In case the normal supply resumes during ARD in operation the elevator will continue to run in ARD mode until it reaches the nearest landing and the doors are fully opened. If normal power supply resumes when the elevator is at the landing, it will automatically be switched to normal power operation.
- d) All the elevator safeties shall remain active during the ARD mode of operation
- e) The battery capacity should be adequate so as to operate the ARD at least five times a day provided the duration between usage is at least 30 minute.

1 CAR ENCLOSURES

1.1 General Requirements

- **Frame**

Every elevator car body shall be carried in a steel car frame assembly which shall have sufficient mechanical strength to resist the forces applied by the safety gear or impact of the car on the buffers. The deflection of the steel members carrying the platform shall not exceed 1/1000 of their span under static conditions when the rated load is evenly distributed on the platform.

At least four renewable guide shoes or shoes with renewable linings or sets of guides rollers shall be provided two at the top and two at the bottom of the car frame assembly.

- **Enclosure finishes**

The following are to be provided.

- Alarm System: An emergency alarm buzzer, including wiring shall be provided and connected to a plainly marked push button in the car operating panel. The alarm bell shall be located at ground floor and easily audible within the radius of 15 meters. The alarm unit shall be solid-state siren type, to give a waxing and waning siren when the alarm button in the car is pressed momentarily. Three way Built in Press and speak type with 1 Master and 2 slave units in Car Machine room and Security room. Additionally, wiring provision for connecting Building EPABX with car phone with Rechargeable batteries.
- Standard Batteries capable of maintaining the following in each elevator for 2 hrs after mains failure.
 - Emergency light of adequate illumination in car
 - Intercommunication System
 - Alarm bell

1.2 Operation Panel

A full length car operating panel incorporating following control/indications shall be provided in each elevator on the return panel

- LED Illuminated touch push buttons of micro pressure type corresponding to the floors served
- Door open and door close button
- Emergency stop button with Alarm
- Two position key operated switch for 'with attendant' and 'without attendant' operation.
- Ventilation fan ON/OFF switch with auto OFF when there is no call after 120 seconds (Two Speed & concealed vents).
- Built in intercom of the hands free type and 5 pair telephone trailing cable to communicate from car to two locations i.e. Security Guard Room and electrician seating area and vice-versa.

- Dynamic car direction display
- Car position indicator (digital)
- Audio/Visual overload warning indicator

1.3 Landing fixture

The landing fixtures shall be recess mounted on a base junction box in the wall by the side or on top of landing doors as required.

Each landing fixtures shall consist of push type landing call buttons with illuminated call acknowledge signal and illuminated digital type car position indicators on separate stainless steel face panels with hairline finish. Alternatives as available with bidders shall be indicated in tender for Bank's approval.

The following landing fixtures shall be provided for each elevator.

- a) Lowest floor
- Up call button
 - Digital Car position indicators
 - Travel direction indicators
- b) All floors other than lowest and top most floor
- Button up and down call buttons
 - Travel direction indicators
 - Digital Car position indicators
- c) The top most floor
- Down call button
 - Travel direction indicators
 - Digital Car position indicators

2. CAR AND LANDING DOORS

2.1 General requirements

All car doors shall extend to the full height and width of landing opening unless otherwise specified and shall be operated with variable frequency door operator. A similar imperforate door shall be provided for every landing opening in the elevator hoistway enclosure. The top track of the landing and car doors shall not obstruct the entrance to the elevator cars. All car and landing doors shall have a fire resistance of not less than 02 hours.

In addition, all the car and landing doors shall meet the following general requirements.

a) Car door locking devices

Every car door shall be provided with an electrical switch to prevent the elevator car from

being started or kept in motion unless the car door is closed. A mechanical locking device shall also be provided to prevent door opening from inside the car whilst the car is in motion.

b) Landing door locking devices

Every landing door shall be provided with a mechanical locking device to prevent opening of the door from the landing side in normal cases unless the elevator car is in that particular landing zone.

c) Projections and recesses

Sliding car and landing doors shall be guided on door tracks and sills for the full travel of the doors. The distance between the cars and the landing sills shall not exceed 35 mm.

d) Door locking devices

All doors locking devices, door switches and associated actuating rods, levers or contracts, shall be inaccessible from the landing or the car.

e) Protective devices

Protective devices shall be fitted to the leading edges of both car door panels. It shall automatically initiate reopening of the door in the event of a passenger being struck (or about to be struck) by the door in crossing the entrance during the closing movement. The obstruction of either leading edge when closing shall actuate the protective device to function.

f) "Door open" alarm

"Door open" alarm shall be provided in the car to initiate alarm and a continuous buzzer if a car or landing door has been mechanically kept open for a present period. The period shall be adjustable from 0-10 minute.

g) Emergency landing door unlocking devices and key

- Every landing door shall be provided with an emergency landing door unlocking device. When operated by an authorized person with the aid of a key to fit the unlocking triangle, the landing door shall be unlocked irrespective of the position of the elevator car for rescue purpose. When there is no "unlocking" action, the key shall only be able to stay in the locked position.
- In the case of coupled car and landing doors, the landing doors shall be automatically closed by means of weight or springs when the car is outside the unlocking zone.

2.2 Door Hangers and Tracks

The car and the landing doors shall be provided with two point suspension sheave type hangers complete with tracks. Sheaves and rollers shall be steel with molded nylon collar and shall include shielded ball bearings. Tracks shall be of suitable steel section with smooth surface. The landing doors shall be complete with headers, sills, frames etc. as required.

2.3 Elevator Door Protection

Multiple-Infra red door protection and mechanical shoes shall be provided for all elevator to control door movement which shall cover the entire door opening effectively.

2.4 Protective Hand Rail in the Car.

2.5 CABIN FAN

A noiseless pressure fan (two speed and concealed vent) shall be provided in the elevator cabin.

3. HOIST ROPES/ BELTS

Elevator Ropes conforming to IS 14665 (Part 4 / Sec 8)-2001

Belt can be used in place of rope subjected to approved strength as per the standard market practice/codes.

Rope fastenings

The ends of elevator ropes shall be properly secured to the car and counter weight hitch plates as the case may be with adjustable rope shackles having individual tapers babbitt sockets, or any other suitable arrangement. Each elevator rope shackle shall be fitted with a suitable shackle spring, seat washer, shackle nut & lock & shackle nut split pin.

Guards for Elevator Ropes

Where elevator ropes run round a sheave or sheaves on the car and/ or counterweight of geared/ gearless machine suitable guards shall be provided to prevent injury to maintenance personnel.

Number & Size of Ropes

The contractor must indicate the number and size of elevator ropes and governor ropes proposed to be used, their origin, type, ultimate strength and factor of safety. The contractor should furnish certificate or ropes from the rope manufacturers issued by competent authority.

4. COUNTER WEIGHT

The counter weight for elevator cars shall be in accordance with clause 6 of IS 14665 (Part 4-Sec-3) : 2001 and shall be designed to balance the weight of empty elevator car plus approximately 50 percent of the rated load. It shall consist of cast sections firmly secured in relative movement by at least two numbers steel tie rods having lock nuts/split pins at each end and passing through each section and Housed in a rigid steel frame work. Cracked and broken sub weights shall not be accepted. Counter weight for passenger elevators should be able to accommodate suitable load. In case interior finishes material exceeds this provision, then the elevator contractor shall adjust the Counter Weight accordingly, however this will be decided and intimated much before the delivery of the elevators.

Counter Weight Guards

Guards of wire metal / mesh shall be provided in the elevator pit to a suitable height above the pit floor to eliminate the possibility of injuries to the maintenance personnel.

5. GUIDES / Guide Rails

Car and counterweight guide shall be machined T section as per relevant Indian Standards IS-14665 of 2000 revised up to date. The guides shall be capable of withstanding forces resulting from the application of the car or counter weight safety devices.

6. TRAILING CABLES

A single trailing cable for lighting control and signal circuit is permitted, if all the conductors of this trailing cables are insulated for maximum voltage running through any one conductor of this cable. The lengths of the cables shall be adequate to prevent any strain due to movement of the car. All cables shall be properly tagged by metallic / plastic tags for identification. Cable jacket should be suitable for immersion in water, salt water & oil etc.

Trailing cables shall run from a junction box on the top of the car to a junction box located in the shaft bear midpoint of travel and from these junction boxes conductors shall be run to the various locations.

Trailing cables exceeding 30 meters in length shall run so that the strain on individual cable conductors will be reduced to a minimum and the cables are free from contact with the car counterweight, shaft walls or other equipment.

Trailing cables exceeding 30 meters in length shall have steel supporting fillers and shall be suspended directly by them without rubbing over other supports.

Cables less than 30 meters in length shall have no – metallic fillers and shall be suspended by looping cables around supports of porcelain spools type or equivalent.

5 percent of the total capacity subject to a minimum of 5 wires shall be available unutilized in the trailing cable everywhere suitable distributed between various functions.

7. SAFETY DEVICES

Safety devices shall be capable of operating only in the downward direction and stopping fully loaded car, at the tripping speed of the over speed governor, even if the suspension devices break, by gripping the guides, and holding the car there. Governor sleeve in elevator pit shall be enclosed in a wire cage to a height of 2.40 mtr. All safety devices statutorily required by Elevator Inspector, including but not restricted to the following shall be provided.

- **Terminal slow down switches**

These shall be provided and installed to slow down the elevator car when approaching the top and bottom landings. The slow down switches shall act independently from the normal car operating device.

- **Over travel limit switches**

These shall be provided and installed to stop the car within the top and bottom clearance, independent of the normal car operating device. The bottom over travel limit switch shall become operative when the bottom of the car touches the buffer.

When the over travel limit switches are operative, it shall be impossible to operate the car until the car has been brought to a position within the normal travel limits.

- **Pit Switch**

An emergency stop switch shall be located in the pit which when operated shall stop the car regardless of the position of hoist way.

- **Terminal Buffers**

Suitable spring buffers mounted on RCC foundation blocks shall be provided in the pit in compliance with ANSI/ASME/CENEN-81 /JIS codes for stopping the car in case of mal-operation. Dowels for the purpose shall be left while casting the pit floor alternatively floor reinforcement could be exposed by chipping for welding additional reinforcement for Dowels. However clearance from underside of the car resting on a fully compressed buffer shall not be less than 1.20 mtr. Buffers shall be designed for a design speed +15%. Oil buffers shall be provided for the passenger elevators for speed of more than 1.50 mps and spring buffers for lower speed.

- **Interlocking**

Adequate interlocking is to be provided so that the car shall not move if the landing doors are even partially open and also the elevator is overloaded.

- **Over speed governor**

Over speed governor shall be of centrifugal type and shall operate the safety gear at a speed at least equal to 115% of the rate speed and less than the over speed governors shall be driven by flexible wire ropes with the following requirements.

- The breaking load of ropes shall be related to the force required to operate the safety gear by the safety factor of at least 8
- The nominal rope diameter shall be at least 7 mm
- The ratio between the pitch diameter of the over speed governor pulley and the nominal rope diameter shall be at least 30

The over speed governors shall be sealed after setting the tripping speed.

The breaking or slackening of the governor rope shall cause the motor to stop by an electric safety device.

- **Alarm bells**

A Concealed 200 mm diameter alarm bell shall be installed in the security area. The alarm bell shall sound when the alarm bell button in the car operating panel is pressed. The bell shall mute when the pressure on the alarm bell button is released.

- **Emergency Stop Switches**

An emergency stop for use by maintenance personal shall be provided in each elevator car.

8. FIREMAN SWITCH

Each Elevator shall have a Fireman switch with glass front for access by the Firemen. The operation of this switch shall cancel all calls to this elevator and shall stop at the next nearest landing if traveling upwards. The doors shall not open at this landing and the elevator shall return to the ground floor. In case the elevator is traveling downwards when the fireman's switch is operated it shall go straight to the ground floor bypassing all calls enroute. The emergency stop button inside the car shall be rendered inoperative.

The fireman's switch shall be located adjacent to the elevator opening at the terminal floor and shall be at a height of approximately 2 m above the floor level. For easy identification of firemen's elevator which confirm to the local authorities requirements, a red and white diagonal striped backing shall be provided behind the glass of the firemen's switch.

A permanent notice of prominent size indicating the floors served shall be provided and displayed adjacent to the firemen's elevator at the terminal floor. The notice shall be made of laminated plastic sheet or other approved materials with red letters on white background. Details of the notice shall be submitted to the Engineer-in-Charge for approval prior to fabrication.

9. CONTROL OF NOISE AND VIBRATION

9.1 General

The whole of the elevator assembly, including the opening and closing of the car and landing doors shall be quiet in operation and shall be free of rattling or squeaking noises. Elevator doors operation shall be smooth to avoid the transmission of impact noise to the surrounding structure.

Noise level resulting from the operation of the elevators, including direct sound transmission, breakout noise and re-radiation of structure borne noise, shall not exceed the specified noise criteria of the adjacent spaces. Vibration resulting from operation of elevators of escalators shall not be perceptible in any occupied areas.

9.2 Car construction

All elements of the elevator car construction shall be sufficiently rigid to avoid generation of noise by panel excitation as a result of movement. The total noise level in a moving elevator car shall not exceed 45 dBA with the ventilation system operating.

9.3 Machinery

Elevator machinery noise levels under normal operating conditions shall not exceed 70 dBA at 1 m from the equipment in free field.

10. FIRE SAFETY REQUIREMENTS

General requirements of elevators shall be as follows :

- 10.1 Landing doors in elevator enclosures shall have a fire resistance of not less than one hour.
- 10.2 Elevator car door shall have a fire resistance rating of not less than one hour.
- 10.3 Grounding switch(es), at ground floor level, shall be provided on all the elevators to enable the fire services to ground the elevators

PROVISION FOR THE DISABLED AND HANDICAPPED IN THE ELEVATORS

- 1 All the Passenger Elevator shall be provided with following features:
 - a) Elevator control buttons with braille marking at locations and height specified in IS 15330 - 2003
 - b) Hall call buttons at locations and height specified in IS 15330 - 2003
 - c) Hand rails shall be provided on the side walls of the Elevator at height & locations specified in IS:15330 - 2003. An international symbol of access of the disabled shall be permanently and conspicuously displayed at each and every Elevator landing next to the Elevator entrance (to be provided by signage contractor). Braille notations indicating the floor levels shall be incorporated next to each button at the handicap COP and handicap hall call buttons.
 - d) A laminated safety glass type mirror of at least half of the size shall be installed on rear panel at appropriate position as per IS : 15330 - 2003

WARRANTY

Maintenance

The Contractor shall maintain the Works against defects for a period of 12 months reckoned from the date of Virtual Completion of the Works, termed as Defect Liability Period or Guarantee;

Defects

- a. The Contractor shall make good, at their own cost, and to the satisfaction of the Bank, all defects, shrinkage, settlement or other faults, arising in the opinion of the Bank from work or materials not being in accordance with the Drawings or Specifications or Schedule of Quantities or the instructions of Bank, which may appear within 12 months after completion of work, specialist items such as waterproofing, anti-termite treatment etc. which shall call for longer guarantee periods, not less than five years.
- b. Such defects, shrinkage, settlement and other faults shall, upon directions in writing of the Bank and within one week, be amended and made good by the Contractor at their own cost, and in case of default, Bank may employ and pay other persons to amend and make good such defects, shrinkage, settlements or other faults and all costs, damages, loss and expenses consequent thereon or incidental thereto shall be made good and borne by the Contractor and such cost, damage, loss or expense shall be recoverable from the Contractor by Bank or may be deducted by Bank upon the Consultant's Certificate in writing from any amount due to the Contractor, and in the event of the retention amount being insufficient to recover the balance from the Contractor, together with any expenses owner may have incurred in connection therewith.
- c. The Contractor may not maintain staff and labour at Site throughout the defects liability period. However, if any major defects are noted requiring their urgent attention, he shall attend to the same immediately.

Rectification of Defects/ Repairs

- a. Should the Bank consider, at any time during the construction or reconstruction or prior to the expiration of the Guarantee/Defects Liability Period, that any work has been executed with unsound or imperfect materials or unskilled workmanship or is of an inferior quality or not otherwise in accordance with the Contract, in respect of which the decision of the Bank shall be final, the Contractor shall, on demand in writing from the Bank specifying the fault; notwithstanding that the same may have been inadvertently passed, certified and paid for, rectify forth or remove and reconstruct the defective work so specified, in whole or in part, as the case may require, at their own expense: and in the event of their failing to do so within the period specified by the Bank in their demand/direction, owner. may carry out the work by other means at the risk and expense, in all respects, of the Contractor.

Guarantee:

- a. Besides guarantees required elsewhere, the Contractor shall guarantee the work in general for 12 months from the date of completion.
 - b. All required guarantees shall be submitted to Bank by the Contractor when requesting Certification of accounts for payment by owner.
 - c. All required guarantees shall be submitted to Bank in the format given as a pre-requisite to acceptance and payment.
9. The contractor should ensure that the defects/ complaints/ malfunctioning of the elevators reported on any working day is set right on the same day and in no case later than the next working day.
10. Spares for the product offered should be available for at least 15 years.

11. **COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT (CAMC)**

1. **SCOPE**

The Contractor shall provide Free Comprehensive Maintenance service for a period of **1 (one) year** from the date of handing over of the elevator to the Bank. After expiry of this free comprehensive maintenance period, Bank reserves the right to enter into annual maintenance contract with the contractor as per quoted and finalized rates in the contract.

The maintenance services rendered by the contractor (free maintenance for one years after handing over and as per CAMC if entered into for subsequent years) shall include routine and preventive maintenance as also breakdown maintenance if and when required. Maintenance services shall be provided with 24 hour emergency call out service.

2. **ROUTINE AND PREVENTIVE MAINTENANCE**

Program of routine and preventive maintenance during the free (1 year) maintenance period as also during the tenure of annual maintenance contract shall comply with minimum requirements as below.

2.1 **Fortnightly**

- To check all bearing oils, oil rings, oil chains, etc. All machines should be carefully checked and repaired for abnormal temperature rise
- To check and repair all relays and contacts as wells as their movements and repair as necessary
- To clean traction machines, relays panels, control panel, starter panels, selectors, governors, car top, car gates, sills and pits
- To check brake action and adjust if necessary
- To check and repair movement of door switches, gate switches and emergency stop switches
- To check and repair indicator lamps and indicator
- To check and repair annunciator lights, buzzer and car lights

- To check and adjust leveling differences, brake slippage, acceleration, deceleration and riding comfort
- To check and repair movements of car control buttons, switches and the like
- To check and repair operation of weighting devices.

2.2 Monthly

- To turn grease cups for speed governors and compensating pulleys
- To check and oil selectors
- To top up rail lubricators
- To clean ropes oil if necessary
- To clean AC motor and inspect controller box etc.
- To oil electric brake pins
- To oil all pins of door operation and door opening mechanisms
- To clean hoist way, beams slow down cams, outside cages, rails and counterweight rails
- To clean, oil and adjust door closer and levers
- To clean main sheave, secondary sheaves and rope sheaves on car top and counterweigh top
- To clean and repair brake wheels and shoes
- To oil compensating rope tensioning pulleys.

2.3 Every Two months

- To clean and oil door hangers, door rails, interior of hanger case. If necessary adjust acentric rollers, car door hangers, door connecting ropes and chains
- To check and repair door shoe
- To clean and oil safety gears
- To clean and oil car and counterweight guide shoes. Adjust if necessary
- To clean and oil interior of terminal limit switches and position switches. Check rubber rollers of terminal limit switches.
- To check oil clean and repair interior of door switches, gate switches. Replace worn out parts if necessary
- To check and repair flexible cable
- To check and repair movement of limit switches
- To clean and oil interior of car control switches.
- To clean and check push buttons of car control panels
- To check, clean and repair the sleeve and plungers of the electromagnetic brakes.

2.4 Every three months

- To check and repair the operation of terminal limit switches and final limit switches.
- To check and repair the governor switches.
- To clean the brush holders and commentators of the door motors.
- To check and repair the traction ropes for broken wire, wear elongation and even tension. Adjust if necessary.
- To remove the dust inside the traction machines and controls panels using electric blower
- To clean and repair the indicator lamps

- To check the voltage of rectifiers and thyristors

2.5 Half yearly

- To check and repair the operation of safety gears
- To check oil for oil buffers
- To check and clean the hall buttons and contacts
- To check and repair the compensating chains or ropes
- To check and oil the bearing of door motors
- To grease the secondary sheaves, car top sheaves and counterweights.
- To check the wear of guide shoes of cars and counterweights.

2.6 Annual

- To clean the wire connection box of every landing and car cages. Tighten all screws and check the conditions of cables at conduit inlets and outlets
- To check and tighten screws of control panels, starters panels and relay panels
- To remove the dust inside the landing indicator switches by electric blower
- To test all safety devices
- To dismantle, clean and adjust the electromagnetic brake of gearless machines
- To charge motor oil
- To check and tighten screws and foundation bolts of traction machine, secondary sheaves, exterior of elevator frame, guide rail, guide rail clamps and bracket etc.
- To test the overcurrent relays
- To provide all labour, materials, tools and transport to carry out annual inspection and load test according to the requirement of the employer

All the scheduled maintenance services described above shall be properly programmed and agreed with the Bank in order not to affect operation of the elevator systems.

3. BREAK DOWN MAINTENANCE

The Contractor shall also undertake to provide a comprehensive breakdown service whereby qualified technicians shall attend to each breakdown as soon as practicable after a breakdown is reported and carry out immediate remedial work at a reasonable speed according to the nature of the breakdown. Any faulty equipment or components shall be quickly replaced.

In circumstance such that the Contractor fails to attend the breakdown within four normal working hours after notification of the breakdown and where remedial work is interrupted during normal working hours for purposes other than obtaining replacement parts, the employer reserves the right to order such action as may be necessary to expedite completion of remedial work which shall be at the Contractors expense without abrogation of the Contractors responsibilities.

4. GENERAL

The Contractor shall keep sufficient spare parts for atleast 15 years to ensure that replacement work for defect can be carried out immediately .

A competent engineer shall be provided to investigate the fundamental cause of a fault temporary quick fix solution will not be accepted.

The employer shall at his discretion, take action to recover all losses incurred rising from the failure of the contract to perform the duties either wholly or in part as detailed in this section.

TEST TO BE CARRIED OUT BY THE VENDORS, IF ASKED BY SIDBI

TESTING OF ELEVATOR INSTALLATION

1.0 TESTS AT SITE:

1.1 a) Leveling Test:

Accuracy of the floor leveling shall be tested with the elevator empty, fully loaded.

The elevator shall be run to each floor while travelling both in upward and downward directions and the actual distance of car floor above/ below landing floor shall be measured. In each case there shall not be any appreciable difference in these measurements for leveling at the floors when the car is empty and when it is fully loaded. The tolerances for leveling shall be as ± 5 mm accuracy.

b) Safety Gear Test:

Instantaneous safety gear controlled by a governor, should be tested with contract load and a contract speed, governor being operated by hand. Two tests should be made, however, with wedge clamps or flexible clamp safeties, one with contract load in the car and the other with 68 kg (equivalent to one person) in the car. The stopping distance obtained should be compared with specified figures and the guides, car platform, and safety gear should be carefully examined afterwards for signs of permanent distortion.

Counterweight safety gear should be tripped by the counterweight governor and the stopping distance noted. In this case, however the governor tripping speed should exceed that of the car safety governor but by not more than 10 percent.

During the safety gear test, car speed (from the governor or the main sheave) should be determined at the instant or tripping speed with that stated in I.S. The governor jaws and rope should be examined for any undue wear.

c) Contract Speed:

This should be measured with contract load in the car, with half load with no load, and should not vary from the contract speed by more than 10 percent. The convenient method is by counting the number of revolutions, made by the sheave or drum in a known time. Chalk mark on the sheave or drum and a stop switch will facilitate timing but care must be exercised to ensure that no acceleration or retardation periods are included. If the roping is 2 to 1 the sheave speed is twice the car speed. Alternatively, the speed can be measured by a tachometer applied directly to shaft immediately below the sheave.

d) Elevator Balance:

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

e) Car and landing doors interlocks:

The elevator shall not move with any door open. The car door relay contact and the retiring release cam must be tested. The working of the door operation and the safety edges and light equipment if any provided shall also be examined.

f) Controllers:

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

g) Normal Terminal Stopping Switches:

This shall be tested by letting the car run to each terminal landing in turn, first with no load and then with contract load and by taking measurements, top and bottom over travels can be ascertained.

h) Final Terminal Stopping Switches:

The normal terminal stopping switches shall be disconnected for this test. It shall be ensured that these switches operate before the buffers are engaged.

i) Insulation Resistance:

This shall be measured (after removing the electronic PCB's and their connection) between power and control lines and earth and shall not be less than 5 mega-ohms when measured with D.C. voltage of 500 volts. The test shall be carried out with contactors so connected together as to ensure that all parts of every circuit are simultaneously tested.

j) Earthing:

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

k) Ropes:

The size, number construction and fastenings of the ropes should be carefully examined and recorded.

l) Buffers:

The car should be run on to its buffers at contract speed and with contract load in the car to test whether there is any permanent distortion of the car or buffers. The counterweight buffers should be tested similarly.

1.2 Tests at Manufacturer's Works:

a) High Voltage Test:

The dielectric or electric apparatus (excluding motors, generators and instruments which are tested in accordance with the appropriate Indian Standards wherever they exist) shall be capable of withstanding a test voltage of ten times the working voltage with a maximum of 2000 Volts when applied.

- i) between the live parts and case of frame with all circuits completed.
- ii) between main terminals or equivalent parts with all circuits open, and
- iii) between the elevator parts of independent circuits.

Note : Owing to the impracticability of applying tests (ii), (iii) mentioned above on controllers and similar apparatus after controller wiring has been completed, these tests may be made at convenient stages of manufacturer.

c) Buffer Test:

A copy of the test report shall be intimated after testing at works.

**CHECK LIST FOR JOINT INSPECTION OF ELEVATORS BY OWNER & FIRM'S REPRESENTATIVES
REF. TESTING OF ELEVATOR INSTALLATIONS**

1. Place of Inspection
2. Date of Inspection
3. Name of the Firm
4. Verify visually particulars as per agreement description and completeness of work to be executed as per contract.
5. Verify lay-out as per drawing and record discrepancies if any
6. Whether a plate with word ELEVATOR and instruction to be displayed /provided on each landing and in elevator car.

ELEVATOR WITH EQUIPMENT

- (a) Depth of pit and whether ladder provided if required.
 - (b) Arrangement for lighting in the pit.
 - (c) Arrangement for lighting in the elevator shaft.
 - (d) Whether adequate tie rods provided for counter weights.
 - (e) Whether all wiring has been in conduit pipes / troughs properly fixed and earthed.
 - (f) Guard for counter weights in the pit.
 - (g) Provision of check nuts and split pins in rope fastenings and terminations.
 - (h) Whether rope tension equal for all ropes.
 - (i) Whether buffers symmetrically positioned.
 - (j) Top car clearance.
 - (k) Bottom car clearance.
 - (l) Top counter weight clearance
 - (m) Bottom car run by.
 - (n) Bottom counter weight run by.
 - (o) Any other
7. Machine room check provision for:

- (i) Arrangement for hand lamp with flexible cord,
- (ii) A plug and socket.
- (iii) Adequate ventilation
- (iv) A danger plate on door
- (v) Trap door
- (vi) Main switch
- (vii) Circuit diagram on wall
- (viii) Any other

8. Earthing

Whether machine body controller, car frame, limit switches, and conduits properly earthed & check earthing continuity.

9. Machine and controller

- (i) Oil leakage if any
- (ii) Abnormal temp rise of oil, bearing and motor
- (iii) Abnormal noise or vibrations
- (iv) Whether UP and DOWN (direction arrows on motor or fly wheel marked)
- (v) Whether rubber pads provided under machine and its bed plates
- (vi) Whether control circuits have independent fuses
- (vii) Whether protection against breakage of rope or taps
for rope selector provided
- (viii) Whether cable ferrules marked
- (ix) Gap between the car and landing sill
- (x) Any other

10. Operation

- (i) Operation of all floor buttons from with- in the car in up and down direction on both attendant and auto control.
- (ii) Operation of car by calls given from landing buttons in up and down direction on both attendant and auto control.
- (iii) Operation of door close and door open buttons

- (iv) Emergency alarm
- (v) Emergency stop
- (vi) Light and fan
- (vii) Emergency key opening
- (viii) Emergency light
- (ix) Operation on type of control stipulated in contract
- (x) Operation of car top safety switches to make the elevator inoperative from within the car and speed of operation.
- (xi) Door locking as checked from each floor
- (xii) Any abnormal noise vibration jerk interval and stopping
- (xiii) Working of position and direction indicators in car and at each landing.
- (xiv) Functioning of sensitive reopening arrangements on moving edge of doors.
- (xv) Smooth sliding movement of car and landing doors,
- (xvi) Whether car is stopped in between the floor and whether the doors can be opened manually from inside.
- xvii) Opening of landing or car door when elevator is in operation to see that the movement of elevator stops,
- (xviii) Operation of fireman switch.
- (xix) Check for brake release device and hand winding provisions,

11. Safety Devices

- (i) Functioning of protection for single phasing and phase reversal.
- (ii) Function of protection for automatic power cut off device before the car and counterweight load on buffers.
- (iii) Function of over load relays.
- (iv) Operation of safety gear and also see for undue deformation of guiderails and stopping distance.

- (v) Check operation of safety switches.
- (vi) Operation of upper limit switch & positions
- (vii) Operation of lower limit switch and position
- (viii) Operation of electrical protection against opening of emergency door.
- ix) Any other.
- 13 Checking of rope slip after 3 complete trips by putting a reference mark on the sheave and rope 60mm/12mm, 60mm/20mm.
- 14 Test to see that the elevator does not start in upward direction on no load
- 15 Check application of brake on full load in down direction at full speed by switching off the power supply and for overheating.
- 16 Load Test: Elevator No. -----

| | No Load | | Full Load | |
|----------------------------|---------|------|-----------|------|
| | UP | Down | UP | Down |
| Starting current :AC (Amp) | | | | |
| Running current :AC (Amp) | | | | |
| Travel (Meters) | | | | |
| Speed: Meter/Sec | | | | |

- 17. Any other test
 - (i) Size of the elevator well
 - (ii) Internal depth of car platform
 - (iii) Size of the car door
 - (iv) Rope protection against breakage have been carried out and test results are found
 - (v) Insulation resistance test & high voltage test have also been tested. I.R. is found __M ohm (Requirement 0.5 M ohm minimum) and HV test withstood/ not withstood

Date

Signature and seal of the Tenderer.

Place:

ASSOCIATED ELECTRICAL WORKS

1.1 Scope

Based on power requirements of elevators furnished by the elevator contractor, power supply for the elevator's machines, terminating in a Switchboard located at a desired location, shall be provided by the Bank. The earth bar provided on this Switchboards shall be connected to the building earthing system also by the Bank. All cabling / wiring/loop earthing beyond this Switchboard for interconnection with the elevator controllers / motors/ indicators / push buttons / safety devices etc. shall be provided by the elevator contractor and its cost shall be deemed to be included in the quoted rates.

1.2 Cabling

Cabling between switchboard and the controller /elevator motor shall be with XLPE insulated HR PVC sheathed 1100 volt grade aluminum conductor armoured cables conforming to IS 7098 or PVC insulated, PVC sheathed, 1100 volt grade Al conductor armoured cables conforming to IS 1554. Cables shall be terminated in glands fitted with armour clamps the gland body shall be provide with an internal conical sating to receive the armour clamping cone and clamping nuts which shall secure the armour wires. A PVC shroud shall be fitted to cover the gland body and exposed armour wires.

Trailing cables for the elevators shall be EPR insulated stranded copper conductor flexible cables conforming to IS 9968

Control cabling shall be with multi core stranded copper conductor PVC insulated and sheathed 1100 volt grade cables conforming to IS 8130. Minimum size of the cable shall be 2.5 sq mm.

Where cables pass through walls or floor slabs, pieces of GI sleeves shall be provided for cast into the wall / floor and cable shall be drawn therein. Annular space around the cable in the sleeve shall be sealed with fire proof sealant supplied by the Bank.

1.3 Wiring

All wiring shall be carried out with FRLS PVC insulated 1100 volt grade stranded copper conductor wires conforming to IS 694 drawn in MS rigid / flexible conduiting system and / or MS raceways. Minimum 2.5 sq mm size wires shall be used. Wires shall be cut only at terminations. Intermediate jointing shall not be permitted. Drawing, cutting and terminating of the wires shall comply with the relevant Indian standard specifications and shall be carried out in the most workman like manner as per standard practice. All normal care like cutting the insulation with a pencil edge, taking care not to cut the strands and proper tightening of terminal connector screws to avoid loose connection or breaking of conductors etc. shall be taken.

Heavy gauge black enameled screw type ISI embossed MS conduits with superior quality accessories approved by Engineer-in-Charge shall be used in the work. Conduits could either be recessed in floors / walls or fixed on surface with saddles and clamps. Final connections to vibrating the equipment shall be made with metal flexible conduits. Entire work shall be carried out in work man like manner as per standard practice.

1.4 Miscellaneous

- ELCB / Exhaust Fan / Lighting in M/c room
 - Shaft lighting
- Shall be done by the Bank.

1.5 Earthing

Metal enclosures of all electrical equipment and devices including frames of motors, controllers, switchgear, conduits and raceways etc. shall be properly earthed so as to form an equiv.-potential zone. Loop earthing of vibrating equipment shall be done with flexible copper earthing braid or flexible cables. The elevator motor frame shall be connected to the building earthing system termination at the switchboard by duplicate loop earthing conductors of appropriate size.

2. ASSOCIATED CIVIL & STRUCTURAL ITEMS

All civil and structural items of work associated with erection and operation of elevators shall be provided by the Contractor at his cost including (but not restricted to) the following.

- Hook for lifting elevator equipments in the top of shaft (ISMB has been given at Machine room, may be checked by the tenderer).
- Temporary scaffoldings and safety barricades during elevator installation in and around elevator Elevator wells
- Sill angles
- Bearing plates
- Buffer supports
- Chequered plates
- Fascia plates
- Ladders in pits (MS)
- Safety railing on car top
- Separator /stretcher beams if required
- Dowels for terminal buffers in pit floor during casting
- Core cutting in machine room, if required.
- Dismantling of existing elevator
- Whitewash of elevator shaft and m/c room
- Cleaning of debris without any damage to building
- Proper Barricading of Doors during Installation of new equipment

The Contractor shall ensure erection and fixing of steel work in such a manner that no RCC wall or any other structural member is damaged.

Note:

Architrave work, Shifting of Front walls if required, change in the dimension of landing doors cut out, Whitewash of elevator shaft and m/c room shall be in the scope of the Bank.

SPECIAL CONDITIONS OF CONTRACT

TENDER DOCUMENT FOR SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF ELEVATORS

1.1 Tender Document

This tender document, comprising of Notice Inviting Tender, Special Conditions of Contract, Technical Specifications, Schedule of Quantities shall form part of the contract Agreement after award of contract. Work under this contract shall be executed at contract rates as per conditions and specifications stipulated in this tender document except in respect of deviations specifically agreed to before the award of the contract and incorporated in the contract Agreement. In addition, components/materials, which may not be specifically stipulated in the tender document, but which are necessary for satisfactory installation and/or

operation of any portion of the work, shall also be provided within the contract rates without any extra cost. Contractor shall carry out and complete the work in all respects to the satisfaction of Owners as per the contract Agreement and as directed by Owners/Consultants and as required.

1.2 Tender Conditions, Specifications and Schedule

- Special Conditions of Contract (SCC) shall be read in conjunction with Technical Specifications, Schedule of Quantities and any other document forming part of this contract Agreement
- Any item shown in Schedule of Quantities and not called for in the Specifications or vice versa shall be provided as if called for in both.
- Wherever it is mentioned that the Contractor shall perform certain work or provide certain facilities, it is understood that the Contractor shall do so at his own cost.
- Where the Technical Specifications stipulate requirements in addition to those contained in the applicable Indian Standard Specifications/Codes, these additional requirements shall also be satisfied.

1.3 Departures

No deviation/departure from tender conditions shall be acceptable.

1.4 Authorities

The work shall conform to all the provisions of the relevant Government Legislation, Regulations and Bye-laws of the Central/Local Authorities and of the concerned Electricity Supply Authority. The Contractor shall also be responsible for giving all notices required under the said Acts/Regulations/Bye-laws.

1.5 Electrical License

The tenderers shall be a licensed Electrical Contractor possessing a valid Contractor's license of "A" class in the state, employing licensed supervisors and skilled workers having valid permits as per the regulations of Indian Electricity Rules and local Electrical Inspectors requirements. Copy of Contractor's Electrical license shall be furnished along with the tender.

2. INTENT OF SPECIFICATIONS

It is not the intent of Technical Specifications to completely specify all aspects of design/construction features of equipments and all details of work to be carried out. Nevertheless the intent of the Technical Specification is to ensure that the equipments and the work shall fully comply with and conform to the relevant Bureau of Indian Standard Specifications, Codes of Practice, Indian Electricity Act, Indian Electricity Rules and other Statutory Regulations, and other standards as may be applicable and to the best available standards of engineering, design and workmanship. The equipment and work shall perform in manner acceptable to Owners who shall interpret meaning of the applicable

Specifications/Codes and shall have the right to reject any equipment or work, which, in their assessment, is not complete to meet the Standard/Code.

3. SITE OF WORK

3.1 Brief description of site

Works covered in this contract is required for **Replacement of 03 Nos. elevators at SIDBI's Head Office at SIDBI Tower, 15 Ashok Marg, Lucknow.** Tenderers are advised to visit the site after taking prior permission from Bank for familiarizing themselves with working conditions available at site as also with the statutory levies and their prevailing quantum payable at site. Contractors shall not be entitled to claim any extra payment on account of lack of such knowledge after award of contract.

The dismantling of existing elevators also forms scope of this work which should be included in the price bid while quoting by the tenderer. The dismantling of the existing elevators and the erecting and commissioning of the new elevators are to be so co-ordinated that at list two elevators, out of three, either existing or new remains in operation.

3.2 Power Supply System

Entire work shall be suitable for use on 415 volt 3 phase 4 wire supply system with transformer neutral grounded. The rated frequency of the supply system shall be 50 cycles per second.

3.3 Ambient Conditions

All equipments components and materials used in the work shall be suitable for continuous operation/use at rated output with permissible overload at the following extremes of ambient conditions likely to be encountered at site.

Temperature from minimum 0° C to maximum 45° C

Related humidity from minimum 10% RH to maximum 100% RH

4. BANK TO PROVIDE

Bank's scope of contract shall be restricted to providing the following items free of cost to the Contractor.

- Hoist way (with structural openings for doors), Pit and Machine Room.
- Hook in machine room ceiling slab over the hoist way for hoisting elevator equipment
- Space only for Contractor's site office/stores for the duration of the contract at location and of size considered suitable and available with the Owners. Owners reserve the right to provide alternative space for the purpose, if so necessary, during the tenure of the contract.

5. SCOPE OF CONTRACT

Contractor's scope of the contract shall comprise of providing equipments, components, materials, labour, supervisory staff with infrastructure, dismantling existing elevators, T&P, scaffolding, consumables, testing equipment, etc. required for completion of the work as per the contract Agreement **and Free Comprehensive Maintenance for one years after completion. Contract Rates shall be deemed to be inclusive of all direct and indirect expenses required to be incurred as per this scope including but not restricted to the costs of the following.**

5.1 Items of Work

Design, manufacture, supply, installation, testing and commissioning training and dismantling of existing three nos. 13 passenger elevators of ECE brand Elevators and as per Schedule of Quantities.

5.2 Statutory Levies

Statutory levies as applicable including GST.

5.3 Testing

Testing for the various items of equipment shall be performed at the contractor's cost and test certificate to be furnished by the contractor (for Motor, Machine Break-tests Controller & Steel wire Ropes). If required by the Bank, the Contractor shall permit the Bank's authorized representative to be present during any of the tests. After notification to the Bank that the installation has been completed the contractor shall make under the direction and in the presence of the Bank such test and inspections as have been specified or as the Bank shall consider necessary to determine whether or not the full intent of the requirements of the plans and specifications have been fulfilled. In case the work does not meet the full intent of the specifications and further tests shall be considered necessary the contractor shall bear all the expenses thereof.

5.4 Transportation, Storage, insurance etc.

- Loading, transportation and unloading.
- Protection of stored materials/installed work against damage due to dirt, sun and rain including providing tarpaulin/ PVC sheet covers as required.
- Providing security arrangements/watch and ward for stored materials and installed works to guard against pilferage/damage.
- Comprehensive insurance with Owners as beneficiaries against pilferage/damage during transportation/storage/installation valid till handing over.
- Third party insurance of adequate amount

5.5 Name plates

Providing engraved anodized aluminium or approved equivalent name plates of suitable sizes on switchboards/panels/equipments etc.

5.6 Civil works, cleaning and painting

5.6.1 Civil Works

- All steel items required for installation and operation of Elevator System in Pits, Hoist ways and Machine Rooms.
- Minor civil work items required for the work like making chases in walls/ceilings, making holes and openings, providing inserts, grouting etc including making good and painting the civil works.

5.6.2 Housekeeping

Housekeeping and clearing of work area during the tenure of contract.

5.6.3 Final Painting

Providing final paint coat to all exposed fabricated steel work and providing matching paint in approved manner over portions of factory painted equipment if damaged during transportation/storage/installation before handing over.

5.6.4 Site Clearance

Demobilization and clearing of all temporary works/ facilities after completion of work at site and cleaning work as before handing over.

5.7 Statutory approval

- Obtaining approval from Elevator inspector and NOC or other authorities as applicable for satisfactory installation of the elevator system as also for clearance to put the elevator into regular use.
- Obtaining any other statutory permission/clearance/approval from concerned authority as required.
- Pay any licensing fee/submission fee/inspection fee payable to statutory authorities for obtaining above approvals.
- All actual fees payable in this regard will be reimbursed against receipt / documentary proof on completion of work.

5.8 Compliance of statutory observation.

Complying with observations, if any, of Elevator/Electrical Inspector and/or any other Statutory Authority after completion of work in order to obtain a categorical clearance to start beneficial use.

5.9 Manuals, drawings etc.

5.9.1 Along with the tender

Technical Parameters enclosed as Annexure-I duly filled in by the Tenderers along with technical catalogue etc. of the equipment offered.

5.9.2 Shop drawings on award of work before commencement

The Contractor shall submit GA drawings of Elevator System to Bank for approval before commencement of work at site/fabrication/ manufacture.

5.9.3 Operation and maintenance manuals

Three sets of operation and maintenance manual with support drawings shall be submitted to the Bank after completion of work.

5.9.4 On site Training

Training of Bank's personnel in operation, handling and maintenance of equipment.

5.9.5 Uptime Guarantee During Free Maintenance Period

The Contractor shall provide Free Comprehensive Maintenance service for a period of **one year** from the date of handing over of the elevator to the owner.

Shall include routine and preventive maintenance as well also breakdown maintenance if and when required. Maintenance services shall be provided with 24 hour emergency call out service.

Technicians shall attend to each breakdown as soon as practicable after a breakdown is reported and carry out immediate remedial work at a reasonable speed according to the nature of the breakdown. Any faulty equipment or components shall be quickly replaced.

In circumstance such that the Contractor fails to attend the breakdown within four normal working hours after notification of the breakdown and where remedial work is interrupted during normal working hours for purposes other than obtaining replacement parts, the owner reserves the right to order such action as may be necessary to expedite completion of remedial work which shall be at the Contractors expense without abrogation of the Contractors responsibilities

5.9.6 Inspection of Work

Bank or its authorized representative shall at all times have access to the Works and to all Workshops and places where work is being prepared or from where materials, or equipment are being obtained for the Works and the Contractor shall afford every facility and assistance in obtaining the right to access.

All work embracing more than one process shall be subject to examination and approval at each stage thereof and the Contractor shall give due notice to Bank when each stage is ready

LETTER OF OFFER

To

The Dy. General Manager [Premises]
SIDBI TOWER,
Small Industries Development Bank of India (SIDBI),
1st Floor, Administration and Premises Vertical,
15, Ashok Marg,
Lucknow-226001
Phone No. 0522- 4261633/ 4259778

Dear Sir,

**Sub: Supply, Installation, Testing, Commissioning Training & maintenance of three nos Elevators
by dismantling and under buyback of existing old two nos. elevators at SIDBI Tower, Lucknow**

Having visited the site and examined the contract documents, specifications and schedule of quantities, I/we hereby submit our offer for Supply, Installation, Testing, Commissioning and Training of 03 nos. Elevators at SIDBI Tower, Lucknow, and its annual maintenance contract. I/we herewith submit duly filled in tender signed by authorized signatory along with **Earnest Money Deposit of Rs. 70,000/-** having DD no. _____ dated _____ as per the terms of tender. In the event of my/our tender being accepted, I/we agree to enter into and execute the necessary contract agreement required by you. I am/we are aware that the Bank intends to complete the entire work as covered in the scope of this tender within scheduled completion period with time being essence of the contract. As required by you, I/we are submitting herewith the tender documents duly signed by us at each page in token of our acceptance of the provisions in the documents. Should this tender be accepted, I/We hereby agree to abide by and fulfill the terms and provisions of the said conditions of contract annexed hereto and the rates are quoted in the schedules.

Thanking you,

Yours faithfully,

Signature
(Name of the Authorized signatory)

Name of the tenderer

Seal :

Address :

Place & Date:

GENERAL CONDITIONS OF CONTRACT:

- 1 The item rates agreed at the time of acceptance of tender will remain valid throughout currency of contract and fluctuations in the prices of any material, equipment, labour, taxes, duties etc, will neither be considered at any stage during currency of contract nor be compensated.
- 2 If the tenderer fails to accept the work order issued at the rates originally quoted by him in bid (and negotiated subsequently, if any), the Earnest Money shall be forfeited and the Bank shall ban the agency from subsequent bidding for a period of 3 years.
- 3 Tenderer shall sign all pages and wherever provided in the tender failing which the tender shall be liable for rejection. Tenders which do not contain DD for EMD and that do not fulfill any of the conditions mentioned herein will be rejected.
- 4 The tender shall be submitted only in the prescribed tender documents supplied by the Bank. Particulars of DD for the Earnest Money deposited shall be furnished at the bottom of the tender form.
5. The tenderer should study all the tender documents carefully and understand the same including all instructions, conditions and specifications, etc. before quoting the rates. If there are any doubts, they should get clarification in writing but, this shall not be a justification for submission of late tender or extension of opening date. Tender should be submitted strictly in accordance with the specifications and other tender documents. The tender should be submitted in the two envelopes duly sealed by the contractors as indicated in the tender notice.
6. Please note that all the rates for the items will be inclusive of any taxes which may be applicable and inclusive of handling, transportation, unloading and any other relevant charges. These rates would remain firm during the contract and no escalation under any circumstances would be admissible.
7. The quoted rates should be inclusive of all equipment, elevator, materials, labour, duties, GST, excise, customs duty, etc. required in connection with the completion of work to the entire satisfaction of the client and consultants. All the material are to be supplied by the contractor unless otherwise stated. No claims for upward revision of rates will be allowed on account of any increase in tax, duty, etc. The selected contractor is required to produce the proof of payment of various taxes, if desired by SIDBI.
8. All taxes and duties shall be paid by contractor. Variation in taxes, if any, shall not be paid / recovered during the period of contract.

9. All entries in tender document should be in English and in ink or typed. All corrections should be attested under full signature of the contractor. Corrections where necessary should be made by scoring the wrong words/figures by drawing a line across them and attesting these with full signature of the contractor. These shall not be erased or overwritten.
10. Every page of the tender document shall be signed by the tenderer at the end of last entry thereon. One complete set of drawings should be signed and returned by the contractor along with tender document.
11. The tenders shall be valid for period of at least 120 days from the date of submission of the tender. No upward revision of rates will be accepted after opening of the tender. If the tender fails to accept the work order, if placed at his originally quoted rates, or subsequently negotiated rates, as the case may be, the Earnest Money shall be forfeited . once the tender is accepted and the Work Order is placed on the successful tenderer, the rates shall be valid till the entire contract is 100% completed.

12. Tax Clearance Certificate and copy of partnership Deed/ MAA

A Current Excise / Sales / Income Tax Clearance Certificate along with registration certificate (as applicable) with theses authorities and a certified copy of partnership Deed/ Article of Memorandum of association should be sent along with the tender. Power of Attorney of authorized signatories is also required to be submitted with tender (envelop No. 1).

13. Acceptance of Tender by the Client

Incomplete tenders, conditional tenders, tenders received through courier / post or late or tender not confirming to the terms and conditions prescribed in the tender documents or not accompanied by the requisite earnest money will be rejected. Requests for adjustment of pending bills or any other amount towards Earnest Money Deposit will not be entertained.

14. Tenderers may have to attend the concerned offices of the employer for clarifications required by them in respect of their quotations without any commitment on the part of the employer.

15. Acceptance of Letter Of Intent (LOI) by Tenderer

a. After communicating the Employer's their acceptance of the tender, if the tenderer fails to return the duplicate copy of Letter of Intent duly signed in token of their acceptance within 3 working days from the date of issue of LOI , the Earnest money Deposit will be forfeited assuming no interest in the work shown by the tenderer.

b. AMC (Annual Maintenance Contract)

The buyer reserves rights to enter into comprehensive AMC after the expiry of comprehensive warranty of 1 (one) year of the equipment under consideration. The supplier also undertakes support and ensure spares availability for the equipments under supply of at least a period of 15 years from the date of commissioning. Proportionate payment for AMC charges shall be made yearly after successful completion.

16. Execution of Work

a. All the materials required for execution of work must be got approved from the employer before they are brought to the site and before actually put on use. All facilities for prior inspection of materials and subsequent inspection of work by representative of the employer must be made available, at tenderer's cost. Any material brought without such prior written approval shall be entirely at the risk and cost of the tenderer. It shall be contractor's responsibility for procurement of all materials / equipment etc. No delay due to non-availability of any materials/ equipment will be entertained.

b. The responsibility of safety and security of equipment brought or installed by the tenderer (till they are handed over to the client) will remain with the tenderer and any claim whatsoever nature due to any loss or otherwise will not be entertained . The tenderer will have to hand over complete job in its entirety of Work Order.

c. The tenderer is not entitled for any sort of compensation towards materials procured / stored in excess of the actual required / measured quantities, if any.

d. The tenderer shall carry out works as per directions in the tender/ work order. The tenderer shall not undertake on his own any changes in the specifications mentioned in the tender documents and work orders. In case of doubt, the contractor will refer the matter in writing to the client and tenderer shall carry out the item of works as per clarifications given in writing.

e. The employer reserves the right to increase or decrease the tendered quantity of any or every item and delete any item at any stage of work. Contractor shall execute the increased quantity at the accepted tender rates. The contractor's claim for compensation or damages on account of these shall not be entertained.

f. If the performance of the successful tenderer is found to be unsatisfactory, the employer reserves the right to cancel in part or whole of the contract and get the works executed through alternative means at the entire risk and cost of the tenderer on whom the order was first placed by giving 7 days notice. In such cases, the tenderer should make good all losses that the employer may incur due to this.

g. If the tenderer does not complete the contract within the prescribed time limit given in the LOI / tender documents, the employer may give from time to time such extension of time limit for completion of work without prejudice to the employer's right to recover liquidated damaged as per the terms and conditions given in the contract.

h. The employer reserves the right to reject any or all of the tenders received without assigning any reason thereof. Further, the employer reserves the right to avoid any component of the work, split the work to two tender or to award the entire work to one tenderer.

i. The Earnest money Deposit submitted along with the tender shall be converted into security deposit (RMD) as bearing no interest in case of successful agency and shall be released as mentioned in Instructions above.

j. The contractor shall carry out & complete the work in every respect in accordance with this contract and with the direction of and to the satisfaction of Bank.

k. The contractor shall provide everything necessary for the proper execution of the works according to the true intent and meaning of the drawing, specification and schedule of quantities taken together whether the same may or may not be particularly shown or

described therein, provided that the same can be inferred there from and if the Contractor finds any discrepancy in the drawings or between the drawings, specifications and schedule or quantities be shall immediately refer the same in writing to the Bank, and the decision of the Bank shall be final and binding on all parties.

l. Time shall be considered as essence of the contract. The Bank reserves the right to terminate the contract if the contractor fails to execute the job within the specified period.

m. In all matter of dispute arising on the work, the Bank's decision shall be taken as final and will be binding on the contractor.

n. No extra work shall be executed by the contractor without written permission of the employer (Bank). For execution of any extra item contractor shall submit rate analysis with necessary documents/quotation/bills etc.

18. SAFETY REGULATIONS

The Contractors shall, at their own expense, arrange for safety provisions as per safety codes of Indian Standards Institution, Indian Electricity Act and such other Rules, Regulations and Laws as may be applicable, as indicated below, in respect of all labour, directly or indirectly employed in the work for performance of the Contractors' part of this agreement.

- No inflammable materials shall be stored in places other than the rooms specially constructed for this purposes in accordance with the provisions of Indian Explosives Act. If such storage is unavoidable, it should be allowed only for a short period and in addition, special precautions, such as cutting off the supply to such places at normal items, storing materials away from wiring and switch boards, giving electric supply for a temporary period with due permission of Engineer-in-charge shall be taken.
- Protective and safety equipment such as rubber gauntlets or gloves, earthing rods, line men's belt, portable artificial respiration apparatus etc. should be provided in easily identifiable locations. Where electric welding or such other nature of work is undertaken, goggles shall also be provided.
- All necessary personal safety equipment such as Helmets, Protective footwear protective goggles/eye shields, Elevator Jacket, Gas masks etc. as considered adequate by the Engineer-in-charge shall be available for use of persons employed on the site and maintained in a conditions suitable for immediate use and the contractor shall take adequate steps to ensure proper use of equipment by those concerned.
- Safety means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. Adequate precautions shall be taken to prevent danger from electrical equipment.
- The Contractor shall provide all necessary fencing and lights to protect public from accidents and shall be bound to bear expenses of defence of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damages and costs which may be awarded in any such suit, action

or proceedings to any such person or which may with the consent of the Contractor be paid to compromise any claim by any such person.

- Motor gearing, transmission, electric wiring and other dangerous parts of hoisting appliances shall be provided with efficient safe guards; hoisting appliance shall be provided with such means as will reduce to the minimum risk of accidental descend of load. Adequate precautions shall be taken to reduce to the minimum risk of any part of a suspended load becoming accidentally displaced.
- All scaffolds, ladders, First Aid Equipments/medicines and other safety devices shall be maintained in a safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities shall be provided at or near place of work. Necessary warning sign boards in Red/White paint, with proper lighting arrangements for nights are to be provided at prominent locations.
- Necessary number of caution board such as “Men on Line, Don’t switch on” should be readily available in easily identifiable locations.
- Standard first aid boxes containing materials as prescribed by the St. John Ambulance Brigade or Indian Red Cross should be provided in easily identifiable locations and should be readily available. Periodical examination of the first aid facilities and protective and safety equipment provided shall be undertaken and proper records shall be maintained for their adequacy and effectiveness.
- Charts (one in English and one in regional language) displaying methods of living artificial respiration to a recipient of electrical shock shall be prominently displayed at appropriate places.
- A chart containing the names, addresses and telephone numbers of nearest authorized medical practitioners, hospitals, Fire Brigade and also of the officers in charge shall be displayed prominently along with the First Aid Box.
- Steps to train supervisory and authorized persons of the Engineering staff in the First Aid Practices, including various methods of artificial respiration with the help of local authorities such as Fire Brigade, Indian Red Cross or other recognized institutions equipped to impart such training shall be taken, as prompt rendering of artificial respiration can save life at time of electric shock.
- No work shall be undertaken on live installations, or on installations which could be energized unless one another person is present to immediately isolate the electric supply in case of any accident and to render first aid, if necessary.

19. COMPLETION CERTIFICATE

On completion of the Elevator's installation in all respect, a certificate shall be furnished by the Contractor countersigned by the Licensed Supervisor, under whose direct supervision the installation was carried out. The Contractor shall be responsible for getting the electrical installation inspected and approved by the local and statutory authorities concerned and expenses if any against statutory charges/ fees shall be reimbursed by the bank against receipt / documentary proof on completion of work.

20. WORKMANSHIP

Good workmanship is an essential prerequisite to be complied for this work. Entire work shall be carried out in the most workmanlike manner by skilled workers under competent supervision

21. SAFETY CODE

a) The first aid appliances including adequate supply of sterilized dressings and cotton wool shall be maintained in a readily accessible place.

b) An injured person shall be taken to a public hospital without loss of time, in cases where the injury necessitates hospitalization by the Contractor.

19. As the work is to be executed in the SIDBI's Officers Flats of the Bank, the contractor should maintain necessary decorum while installation of the equipments. He shall also co ordinate with the Bank's care taker as also arrange for proper cleaning and removal of debris from site if any. Any misbehavior/ non compliance in the matter will be reviewed seriously and suitable action viz., removal of his labour, termination of contract, penalty etc would be initiated at the discretion of the Bank.

I / We hereby declare that I / We have read and understood the above instructions and the same will remain binding upon me / us in case the work is entrusted to me / us.

Signature of the Dealer

Date:

Place:

TECHNICAL SPECIFICATIONS OF ELEVATORS
ANNEXURE - I

| | <i>General</i> | | Tenderer's Response |
|-----|------------------------------|--|----------------------------|
| 1.1 | Number of Elevators and type | 3 nos, Gearless with suspension ropes | |
| 1.2 | Capacity | 15 passenger (1020 kgs.) (Existing Elevator is of 13 passengers) | |
| 1.3 | Speed | 1.50 mps | |
| 1.4 | Number of Landings | 09 (Gr floor + 08 floors) for two nos. elevators 07 (Gr floor + 06 floors) for one no. elevator | |
| 1.5 | Number of openings | 09 on the same side for two nos. elevators 07 on the same side for one no. elevator | |
| 1.6 | Travel | Approx 28.00 Mtrs for two nos. elevators Approx 21.00 Mtrs for one no. elevator | |
| | | | |

| | | | |
|------|-------------------------------------|---|--|
| | Machine, Hoistway and Pit | | |
| 1.7 | Machine room location | Top of the Hoist way | |
| 1.8 | Machine details | | |
| - | Control | AC VVVF REGENARATIVE (CLOSED LOOP) | |
| - | Operation | Duplex collective selective control for two nos. elevators upto 8 th floor Simplex collective control for one no. elevator upto 6 th floor | |
| 1.9 | Hoistway dimensions | | |
| - | Width (along door) | Elevator no. 1 and 2 (Upto 8 th floor) 2600 mm Elevator no. 3 (Upto 6 th floor) 2600 mm | |
| - | Depth (90° to door) | Elevator no. 1 and 2 (Upto 8 th floor) 1840 mm Elevator no. 3 (Upto 6 th floor) 1820 mm | |
| 1.10 | Head room above last landing | Elevator no. 1 and 2 (Upto 8 th floor) 4500 mm approx Elevator no. 3 (Upto 6 th floor) | |
| 1.11 | Pit depth | Elevator no. 1 and 2 (Upto 8 th floor) 1600 mm approx Elevator no. 3 (Upto 6 th floor) 1600 mm approx | |
| 1.12 | Sill projection | 6mm MS angle | |
| | | | |
| | Car | | |
| 1.13 | Car Enclosure | Car and the panels shall be SS Hairline Finish 304 grade | |
| 1.14 | Car ceiling | Shall be S/S hairline finish 304 grade | |
| 1.15 | Car floor | 5 mm thick PVC flooring matching with landing floor pattern and colour. | |
| 1.16 | Car and landing doors | Automatic power operated Centre opening, horizontal sliding 900 mm W x 2000 mm H. | |
| a) | Landing Doors | Shall be S/S hairline finish 304 grade | |
| b) | Car Doors | S/S hairline finish 304 grade | |

| | | | |
|------|-----------------------------------|--|--|
| 1.17 | Car size | Area shall be As per IS 14665 Part 2. Tenderer shall obtain approval for exact car size before manufacturing. | |
| 1.18 | Car Operating Panel and hand rail | Stainless Steel hairline / mirror finish. Mirror to be provided at the back above S/S hair finish handrails | |
| 1.19 | Elevator Features | <ol style="list-style-type: none"> 1. Overload Non start failure 2. Over Current protection 3. Phase reversal with automatic phase correction 4. Handrails on rear side in car enclosure 5. Intercom 2 way with wiring up to required place connection to EPABX 6. Automatic Rescue Device (ARD) 7. Braille Buttons in LOP & COP 8. ACVVVF Regenerative close loop main Drive and door Drive 9. Alarm Button with battery backup & Fireman's Switch 10. Emergency Light in Car 11. Door Nudging 12. Motor overheat protection 13. Interface to Building Monitoring System (BMS) through potential free contacts / RS485 14. Anti-nuisance (empty car) 15. Automatic operation for car fan 16. Infra-red screen for car door 17. Overload function with audio-visual indication in car operating panel 18. CCTV wiring in travelling cable 19. Voice Synthesizer (Voice Announcement Unit in English Language) | |

Note:- The specifications indicated above are the minimum acceptable to the Bank. Tenderers are free to quote for equipment's with higher and advanced specifications, if any of the technical specifications is out of the range of equipment's manufactured by them.

Details of Technical parameters **ANNEXURE - II**
(To be furnished by the tenderers)

SPECIAL DATA TO BE FURNISHED BY TENDERER

| SI No | Data to be filled in by tenderers | Passenger elevators |
|----------|---|-----------------------|
| A | Equipment details | |
| 1 | Machine type (Geared/Gearless) | |
| 2 | Drive motor data | |
| i) | kW | |
| ii) | Starting current (Amp) | |
| iii) | F.L. Rated current (Amp) | |
| iv) | Max. no. of starts per hour. | |
| v) | Insulation class | |
| 3 | Hoist/Governor ropes/ belts (no. and size) | |
| 4 | Max. temperature tolerance during peak summer months | |
| 5 | Heat release data for machine room equipment | |
| B | Special features | |
| | Tenders to confirm Included /Not included in respect of the following | Included/Not Included |
| 1 | Auto fan off switch | |
| 2 | Fan inside the Car | |
| 3 | Over load warning indicator | |
| 4 | Ni-Cd batteries with charging circuit. | |
| 5 | Doors safety | |
| 6 | Additional weight permitted inside the car for interiors. | |
| 7 | Automatic Rescue Device | |
| C | Performance parameters | |
| 1 | Leveling accuracy | |
| 2 | Governor tripping speed. | |

Date

Signature and seal of the Tenderer.

ANNEXURE - III

Contact Details

| Sr. No. | Description | |
|---------|--------------------------------|--|
| 1 | Contact Person for this Tender | |
| 2 | Name & Designation | |
| 3 | Land line, Fax & Mobile No. | |
| 4 | Mail ID | |

List of clients

(For whom works of similar scope, have been completed in the last 05 years)

| Sr. No. | Details | Name of the Client-1 | Name of the Client-2 | Name of the Client-3 | Name of the Client-4 | Name of the Client-5 |
|---------|-------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 1 | Address, fax and telephone numbers | | | | | |
| 2 | Project name, location and address. | | | | | |
| 3 | Brief details of the work | | | | | |
| 4 | Value of work as completed | | | | | |
| 5 | Date of award of contract | | | | | |
| 6 | Date of completion of work | | | | | |

(Add more columns in case of more than 5 clients)

Date

Place

Signature and stamp of the Agency

CLIENT's CERTIFICATE REG. PERFORMANCE OF DEALER/AGENCY

Name & address of the Client

Details of Works executed by Shri /M/s

| | | |
|----|---|--|
| 1 | Name of work with brief particulars | |
| 2 | Agreement No. and date | |
| 3 | Agreement amount | |
| 4 | Date of commencement of work | |
| 5 | Stipulated date of completion | |
| 6 | Actual date of completion | |
| 7 | Details of compensation levied for delay (indicate amount) if any | |
| 8 | Gross amount of the work completed and paid | |
| 9 | Name and address of the authority under whom works executed | |
| 10 | Whether the contractor employed qualified Engineer/Overseer during execution of work? | |
| 11 | i) Quality of work (indicate grading) | Outstanding/Very good/Good/ Satisfactory/ poor |
| | ii) Amt. of work paid on reduced rates, if any. | |
| 12 | i) Did the contractor go for arbitration? | |
| | ii) If yes, total amount of claim | |
| | iii) Total amount awarded | |
| 13 | Did the contractor go for AMC? If yes , for how many years? | |
| 14 | Comments on the capabilities of the contractor. | |
| | a) Technical proficiency | Outstanding/Very good/Good/Satisfactory/poor |
| | b) Financial soundness and Mobilization of adequate T&P | Outstanding/Very good/Good/Satisfactory/poor |
| | d) Mobilization of manpower | Outstanding/Very good/Good/Satisfactory/poor |
| | e) General behavior | Outstanding/Very good/Good/Satisfactory/poor |

Note: All columns should be filled in properly "Countersigned"

Signature of the Reporting Officer* with Office seal

*Officer of the rank of Executive Engineer or equivalent

BANK MANDATE FORM

(To be submitted in Duplicate)

(Please fill in the information in CAPITAL LETTERS. Please TICK wherever it is applicable)

1. Name of Borrower / vendor / supplier / Agency:

Vendor Code (if applicable) _____

2. Address of the Borrower / vendor / supplier:

City _____ Pin Code _____

E-mail id: _____

Phone No. with STD code: _____

Mobile No.: _____

Permanent Account Number _____

MSE Registration / CA Certificate _____

(if applicable)

3. **Particulars of Bank account:**

| | | | |
|------------------|-----------------------------------|-------------|-------------|
| Beneficiary Name | | | |
| Bank Name | | Branch Name | |
| Branch Place | | Branch City | |
| PIN Code | | Branch Code | |
| MICR No. | | | |
| Account type | Saving | Current | Cash Credit |
| Account No. | (as appearing in the Cheque book) | | |

(Code number appearing on the MICR¹ cheque supplied by the Bank. Please attach a cancelled cheque of your bank for ensuring accuracy of the bank name, branch name & code and Account Number).

| | | | | |
|------------------------|-------------------|--|-------------------|--|
| IFSC CODE ² | For RTGS transfer | | For NEFT transfer | |
|------------------------|-------------------|--|-------------------|--|

4. Date from which the mandate should be effective :



I hereby declare that the particulars given above are correct and complete. If any transaction is delayed or not effected for reasons of incomplete or incorrect information, I shall not hold SIDBI / IDBI Bank responsible. I also undertake to advise any change in the particulars of my account to facilitate updation of records for purpose of credit of amount through **RBI RTGS/NEFT**.

Place : _____

Date : _____

Signature of the party / Authorized Signatory

.....

Certified that particulars furnished above are correct as per our records.

Bank's stamp:

Date :

(Signature of the Authorized Official from the Banks)

N.B.: RTGS/NEFT charges if any, is to be borne by the party

^{1,2}: Note on IFSC / MICR

Indian Financial System Code (IFSC) is an alpha numeric code designed to uniquely identify the bank-branches in India. This is 11 digit code with first 4 characters representing the bank's code, the next character reserved as control character (presently 0 appears in the fifth position) and remaining 6 characters to identify the branch. The MICR code, (Magnetic Ink Character Recognition) that appears on cheques, has 9 digits to identify the bank-branch. RBI had since advised all the banks to print IFSC on cheque leaves issued to their customers. A customer may also contact his bank-branch and get the IFS Code of that branch.

ANNEXURE- VI

PERFORMANCE GUARANTEE

Bank Guarantee No. _____

Dated _____

To

Small Industries Development Bank of India,

SIDBI TOWER**15, ASHOK MARG, LUCKNOW-226001.**

This deed of guarantee executed on day monthyear atby(Name of Bank) having its registered/Head office at and a branch office hereinafter called 'The Guarantor' (which expression shall, unless repugnant to the context or meaning thereof include its successors and assigns) in favour of the Small Industries Development Bank of India (SIDBI), SIDBI TOWER, 15,ASHOK MARG, LUCKNOW-226001 hereafter called the SIDBI (which expression shall unless repugnant to the context and meaning thereof include his successors and assigns)

Whereas M/s. _____ hereinafter called the 'Contractor' (which expression shall, unless repugnant to the context or meaning thereof include its successors, executors, administrators and assigns) has been entrusted with the work relating to **Supply, Installation, Testing, Commissioning (SITC), Training and Maintenance of three nos. elevators by dismantling and under buyback of existing old three nos. elevators at SIDBI Tower, 15 Ashok Marg, Lucknow vide SIDBI's letter of Intent bearing no. _____ dated _____** on the terms and conditions more particularly described in the tender document floated for the above said work and its Addendum.

AND WHEREAS SIDBI has advised the Contractor to submit a performance Bank Guarantee for an amount equivalent to 5% of contract value i.e. Rs. _____/- (approximate) in the manner provided in the said letter of intent, referred above, which the Contractor has agreed to furnish in the manner herein contained.

In the above premises, Guarantor hereby agree and guarantees as follows:

1. This guarantee shall remain in full force and effect until the said SITC of **Elevator** work is fully

- and satisfactorily rendered to the SIDBI in the manner provided in the said letter of intent, and all the terms and conditions of the said agreement are duly observed and performed in all respects to the satisfaction of the SIDBI and the Guarantor shall not be discharged or released from their obligations under the performance guarantee by reason of the SIDBI showing to the Contractor an indulgence or forbearance without the Guarantor knowledge or consent whether as to time, payment, performance or any other matter whatsoever from which under the law may have effect of releasing the Guarantor or otherwise and,
2. That merely a demand for payment of money under this deed made by the SIDBI on the Guarantor shall be final and binding on the Guarantor as to the liability and demand from the Guarantor and the said sum so demanded shall be paid by the Surety to the SIDBI without any demur.
 3. **Our liability under this guarantee is restricted to Rs. _____/- (Rupees _____ only). This Guarantee will expire on the..... day of Month__ Year __2022. Any demand/claims under this guarantee must be received by us in writing byMonth__Year__. If no such claim/demand has been received by us by that date, all your rights under this guarantee will cease.**
 4. We,(Name of Bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent of the SIDBI in writing.
 5. Notwithstanding anything contained herein above:
 - a) Our liability under this guarantee shall not exceed Rs._____/ - (Rupees _____ only).
 - b) This bank guarantee shall be valid upto and including **Month__Year__**.
 - c) We shall liable to pay the Guarantee amount or any part thereof under the Bank Guarantee only and only if the SIDBI serve upon the Bank a written claim or demand on or before **Month__Year__**. Thereafter all the rights, claims, limits etc. of whatsoever nature of the Beneficiary shall be forfeited and Bank shall be discharged/relieved from all the liabilities under this Bank Guarantee there from.

(Authorised Signatories of Bank)

(Signature)-----



NOTICE INVITING TENDER FOR SUPPLY, INSTALLATION, TESTING, COMMISSIONING TRAINING AND
MAINTENANCE OF THREE NOS ELEVATORS AT SIDBI TOWER, LUCKNOW

(Name)-----

(Designation with Bank Stamp)

Attorney as per Power

of Attorney No. _____

Dated -----

Annexure VII

PRE CONTRACT INTEGRITY PACT

(RfP No : **314/2022/1624/HO1/PREMISES**
dated April 19th, 2021)

(TO BE EXECUTED ON A NON-JUDICIAL STAMPED PAPER)

General

This pre-bid-pre-contract Agreement (hereinafter called the Integrity Pact) is made at _____
place ___ on ---- day of the month of -----, -----(Year) between Small Industries Development Bank
of India, having its Head Office at 15, Ashok Marg, Lucknow – 226001 (hereinafter called the

“BUYER”/SIDBI, which expression shall mean and include, unless the context otherwise requires, its successors and assigns) of the First Part and

M/s _____ represented by Shri _____, Chief Executive Officer (hereinafter called the BIDDER/Seller” which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the BUYER proposes to issue RfP for ‘**Supply Installation Testing Commissioning Training and Maintenance of three nos. elevators by dismantling and under buyback of existing old three nos elevators at SIDBI Tower, Lucknow**’ and the BIDDER/Seller is willing to offer/has offered the services and

WHEREAS the BIDDER is a private company/public company/ Government undertaking/ partnership/ registered export agency, constituted in accordance with the relevant law in the matter and the BUYER is a corporation set up under an Act of Parliament.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence /prejudiced dealing prior to, during and subsequent to the currency of the contract to be entered into with a view to :-

Enabling the BUYER to obtain the desired said services/stores/equipment at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement and

Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the BUYER will commit to prevent corruption in any form by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this integrity Pact and agree as follows:

Commitments of the BUYER

- 1.1.** The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.
- 1.2.** The BUYER will during the pre-contract stage, treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any

particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.

- 1.3.** All the officials of the BUYER will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
- 2.** In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the BUYER with full and verifiable facts and the same is prima facia found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

Commitments of BIDDERS

- 3.** The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contact stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following : -
 - 3.1.** The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any officials of the BUYER, connected directly or indirectly with bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
 - 3.2.** The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe , gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the Government for showing or forbearing to show favour or disfavor to any person in relation to the contract or any other contract with the Government.
 - 3.3.** BIDDERS shall disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.
 - 3.4.** BIDDERS shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract.
 - 3.5.** The BIDDER further confirms and declares to the BUYER that the BIDDER is the original manufacture/integrator/authorized government sponsored export entity of the defence stores and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or any way to recommend to the BUYER or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, or has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.

- 3.6. The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with contract and the details of services agreed upon for such payments.
- 3.7. The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 3.8. The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 3.9. The BIDDER shall not use improperly, for purposes of competition or personal gain or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
- 3.10. The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 3.11. The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- 3.12. If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative to any of the officers of the BUYER or alternatively, if any relative of the officer of the BUYER has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filling of tender.

The term 'relative' for this purpose would be as defined in Section 2 (77) of the Companies Act, 2013.

- 3.13. The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BUYER.

4. Previous Transgression

- 4.1. The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify BIDDER's exclusion from the tender process.
- 4.2. The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

5. Earnest Money (Security Deposit)

- 5.1. While submitting commercial bid, the BIDDER shall deposit an amount of _____ (to be specified in RfP) as Earnest Money/ Performance Guarantee/

Security Deposit, with the BUYER through any of the following instruments instrument.

- (i) Bank Draft on a Pay Order in favour of Small Industries Development Bank of India.
- (ii) A confirmed guarantee by an Indian Nationalised Bank, promising payment of the guaranteed sum to the BUYER immediately on demand without any demur whatsoever and without seeking any reasons whatsoever. The demand for payment by the BUYER shall be treated as conclusive proof of payment.
- (iii) Any other mode or through any other instrument (to be specified in the RFP)

5.2. The Earnest Money/Security Deposit shall be valid for a period of fifteen months OR the complete conclusion of the contractual obligation to the complete satisfaction of both the buyer and bidder, including the warranty period, whichever is later.

5.3. In case of the successful BIDDER a clause would also be incorporated in the Article pertaining to Performance Bond in the Purchase Contract that the provision of Sanctions for Violation shall be applicable for forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

5.4. No interest shall be payable by the BUYER to the BIDDER on Earnest Money/Security Deposit for the period of its currency.

6. Sanctions for Violations

6.1. Any breach of the aforesaid provision by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the BUYER to take all or any one of the following actions, wherever required :-

- (i) To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with other BIDDER(s) would continue
- (ii) The Earnest Money Deposit (in pre-contract stage) and /or Security Deposit/Performance Bond) (after the contract is signed) shall stand forfeited either fully or partially, as decided by the BUYER and the BUYER shall not be required to assign any reason therefore.
- (iii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER
- (iv) To recover all sums already paid by the BUYER, and in case of Indian BIDDER with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a bidder from a country other than India with interest thereon at 2% higher than LIBOR. If any outstanding payment is due to the bidder from the buyer in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.

- (v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the BUYER alongwith interest.
- (vi) To cancel all or any other Contracts with the BIDDER, the BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
- (vii) To debar the BIDDER from participating in future bidding processes of the buyer or its associates or subsidiaries for minimum period of five years, which may be further extended at the discretion of the BUYER.
- (viii) To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.
- (ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with BIDDER, the same shall not be opened.
- (x) Forfeiture of Performance Bond in case of decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

6.2. The BUYER will be entitled to take all or any of the actions mentioned at para 6.1(i) to (x) of this Pact also on the commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

6.3. The decision of the BUYER to the effect that a breach of the provision of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the independent Monitor(s) appointed for the purposes of this Pact.

7. Fall Clause

7.1. The BIDDER undertakes that it has not supplied/is not supplying similar products /systems or subsystems or providing similar services at a price lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU and if it is found at any stage that similar product/systems or sub systems was supplied or similar services provided by the BIDDER to any other Ministry/Department of the Government of India or a PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the BUYER, if the contract has already been concluded.

8. Independent Monitors

8.1 The BUYER has appointed Independent Monitors (hereinafter referred to as Monitors) for this Pact in consultation with the Central Vigilance Commission. Please refer to Important Information Section for details.

- 8.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with obligations under this pact.
- 8.3. The Monitors shall not be subject to instruction by the representatives of the parties and perform their functions neutrally and independently.
- 8.4. Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement, including minutes of meetings.
- 8.5. As soon as the Monitor notices or has reason to believe, a violation of the Pact, he will so inform the Authority designated by the BUYER
- 8.6. The BIDDER(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the BUYER including that provided by the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documents. The same is applicable to Subcontractors. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER/Subcontractor(s) with confidentiality
- 8.7. The BUYER will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings
- 8.8 The Monitor will submit a written report to the designed Authority of the BUYER within 8 to 10 weeks from the date of reference or intimation to him by the BUYER/BIDDER and should the occasion arise, submit proposals for correcting problematic situations.

9. Facilitation of Investigation

In case of any allegation of violation of any provision of this Pact or payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination. A person signing integrity pact shall not approach the courts while representing the matters to IEM and he/she will wait their/his decision in the matter.

10. Law and Place of Jurisdiction

This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the BUYER

11. Other Legal Actions

The action stipulated in this integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

12. Validity

- 12.1. The validity of this Integrity Pact shall be from date of its signing and extend upto 5 years or the complete execution of the contract to the satisfaction of both the BUYER and the BIDDER/Seller, including warranty period, whichever is later in case BIDDER is

unsuccessful, this integrity Pact shall expire after six months from the date of the signing of the contract.

12.2. Should one or several provisions of the Pact turn out to be invalid, the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

13. This pact shall be deemed as part of the contract that may be entered into pursuant to this RfP. The parties hereby sign this integrity Pact, at _____ on ____

BUYER

BIDDER

Name of the Officer

Chief Executive Officer

Designation

SIDBI

Witness

Witness

1. _____

1. _____

2. _____

2. _____

Provisions of these clauses would need to be amended / deleted in line with the policy of the BUYER in regard to involvement of Indian agents of foreign suppliers.

TENDER IDENTIFICATION NO. -314/2022/1624/HO1/PREMISES
DATED 19TH APRIL, 2021

**NOTICE INVITING TENDER FOR SUPPLY, INSTALLATION, TESTING, COMMISSIONING TRAINING AND
MAINTENANCE OF THREE NOS. ELEVATORS BY DISMANTLING AND UNDER BUYBACK OF EXISTING
OLD THREE NOS ELEVATORS
AT SIDBI TOWER, LUCKNOW**

Priced Bid (Part-II)

The Dy. General Manager [Premises]

SIDBI TOWER, Small Industries Development Bank of India (SIDBI),
1st Floor, Premises Vertical,
15, Ashok Marg,
Lucknow-226001
Phone No. 0522-4259633/ 4261778



**Supply, Installation, Testing, Commissioning , Training & maintenance of
Three nos. elevators by dismantling and under buyback of existing
three nos. elevators at SIDBI Tower, Lucknow**

Priced Bid (Part-II) should be filled and sealed in envelop-2

| Sr. No | Description | Qty. | Rate (Rs.) | Amount (Rs.) |
|--------|---|---------|------------|--------------|
| 1. | Design, Manufacture, Supply, Installation, Testing, Commissioning and Training of 15 passenger (1020 kgs) gearless type elevator with nine stops on same side , travel distance – approx. 27 meters, speed- 1.50mps, AC VVVF control Regenerative Closed Loop, duplex collective selective operation along with related civil, electrical works and obtaining license from elevator inspector/ other statutory approvals etc. all complete and as per technical specifications. | 02 nos. | | |
| 2. | Design, Manufacture, Supply, Installation, Testing, Commissioning and Training of 15 passenger (1020 | | | |

| | | | | |
|----|--|---------|--|--|
| | kgs) gearless type elevator with seven stops on same side , travel distance – approx. 22 meters, speed- 1.50mps, AC VVVF control Regenerative Closed Loop, simplex collective selective operation along with related civil, electrical works and obtaining license from elevator inspector/ other statutory approvals etc. all complete and as per technical specifications. | | | |
| | GST/ Taxes if any | | | |
| A. | Total including GST/Taxes if any (1 + 2) | | | |
| 3. | Dismantling of existing functional ECE brand 13 passengers elevators with nine stops on same side including dismantling of controllers, motors, steel ropes, frames, etc. all complete | 02 nos | | |
| 4. | Dismantling of existing functional ECE brand 13 passengers elevators with seven stops on same side including dismantling of controllers, motors, steel ropes, frames, etc. all complete | 01 nos. | | |
| | GST/ Taxes if any | | | |

| | | | | |
|----|--|--------|--|--|
| B. | Total including GST/Taxes if any (3 + 4) | | | |
| 5. | Buyback of existing 02 nos, 13 passenger, nine stops, 1.50 mps geared elevators of ECE brand installed in the year 2000 including controller, AC motor, VVVF drive door, car, frames, shifting from site, clearing etc. on as is where is basis | 02 nos | | |
| 6. | Buyback of existing 01 no., 13 passenger, seven stops, 1.50 mps geared elevators of ECE brand installed in the year 2002 including controller, AC motor, VVVF drive door, car, frames, shifting from site, clearing etc. on as is where is basis | 01 no. | | |
| C. | Total (5 + 6) | | | |
| | Sub total (D) = A+B-C | | | |
| 7. | Compressive AMC for 3 years after successful completion of guarantee/warranty period of 1 year (12 months) from date of successful SITC of the elevators. | | | |



| | | | | |
|--|------------------------------------|------------|--|--|
| | a) 2nd Year | 01 no. | | |
| | b) 3rd year | 01 no.. | | |
| | c) 4th Year | 01 no.. | | |
| | Taxes if any on AMC (a,b,c above) | | | |
| | Sub total(E) = | | | |
| | Total Amount all inclusive (D+E) | | | |
| | Total Amount in figure : | | | |

Note: L1 price would be considered as the sum of D and E above

Date:

Place:

Signature of the Authorized Signatory
Seal