



**SBI INFRA MANAGEMENT SOLUTIONS PVT. LTD.,  
(SBIIMS),  
(WHOLLY OWNED SUBSIDIARY OF SBI)  
BHOPAL CIRCLE OFFICE.  
INVITES e-TENDERS ON BEHALF OF  
SBI**

**THROUGH E-TENDERING  
PROCESS  
FOR**

**SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WORKS OF  
A PASSENGER LIFT (10 PERSON)  
AT SBI FLATS,  
MAIN BRANCH COMPLEX, INDORE.**

Note: Firm should possess valid digital signature for this e-tender

Last date for submission of e-Tender: 3.00 P.M. (IST) on  
08.08.2019

Opening of e Tenders: 4.30 P.M. (IST) on  
08.08.2019

**The Vice President & Circle Head,  
SBI Infra Management Solutions Pvt. Ltd.  
Bhopal Circle Office  
Mezzanine Floor,  
SBI Bhopal LHO Building,  
Hoshangabad Road  
Bhopal- 462 011  
Ph: 0755-2572553**

**NOTICE INVITING TENDER (NIT)**

**NAME OF WORK:** e-TENDER Notice for **Supply, Installation, Testing And Commissioning Works of a Passenger Lift (10 Person) at SBI Flats, Main Branch Complex, Indore.** Online e-Tenders are invited for the above mentioned work from the empanelled contractors of SBI of the for the installation of Lift and NIT is sent to them by us.

<b>1</b>	Name of the work	<b>E-Tender Notice for Supply, Installation, Testing And Commissioning Works of a Passenger Lift (10 Person) at SBI Flats, Main Branch Complex, Indore.</b>
<b>2</b>	Cost of Tender Documents-cum-Processing Fee	Rs. 3,000/- to be credited on through State Bank Collect (SBI Collect an efficient MIS report generation tool) under Tender ID <b>BHO201907130</b> . The steps involved in making the payment is provided at Annexure-A. The receipt generated with reference No. will be submitted along with Technical bid. <b>GST number of contractor to be mentioned.</b>
<b>3</b>	Date and Time where tender forms are available	From 23.07.2019 to 08.08.2019 at <a href="https://etender.sbi/">https://etender.sbi/</a>
<b>4</b>	Time and last date of submission of online E-Tender	Up to 3.00PM on 08.08.2019
<b>5</b>	Place, Time& Address for submission of e tender/contact person /telephone no/email address.	Up to 3.00 p.m. on 08.08.2019 <b>A)</b> Tender documents at <a href="https://etender.sbi/">https://etender.sbi/</a> <b>B)</b> Documents-cum-Processing Fee and EMD at the Address: SBI Infra Management Solutions Pvt. Ltd. Bhopal Circle Office Mezzanine Floor, SBI Bhopal LHO Building, Hoshangabad Road, Bhopal- 462 011 Ph: 0755-2572553
<b>6</b>	Date, Time and Place of opening of eTenders	e- mail id : headbho.sbiims@sbi.co.in On 08.08.2019 at 4:30PM SBI Infra Management Solutions Pvt. Ltd. Bhopal Circle Office Mezzanine Floor, SBI Bhopal LHO Building, Hoshangabad Road Bhopal – 462 011 Ph: 0755 2572553
<b>7</b>	Quantum of Earnest Money Deposit (EMD) drawn in favor of _____ Payable at _____	Rs.18,000/- (DD-Drawn in favour of Vice President & Circle Head, SBIIMS, Bhopal) Payable at Bhopal
<b>8</b>	Quantum of Security Deposit Payable at _____ Amount of bank guarantee.	1. Initial Security Deposit (ISD) – 2% of the Tender value including EMD 2. Retention Money- Deductable in running bills@ 10% of the value of work and Total deductible is 5% of value of work including EMD, ISD
<b>9</b>	Terms of payment of Bills, if any (specify the minimum value of work for payment of running account bills)	<b>1.Rs.8,00,000.00</b> <b>2. No Advance will be paid</b>
<b>10</b>	(Penalty clause) Liquidated Damages	@ 0.5% of the value of work per week of delay subject to a maximum penalty of 5% of the value of work would be strictly imposed.
<b>11</b>	Stipulated time for completion of the work/supply	90 Days (from date of site handover or 7 days mobilization time whichever is later)

12	Validity period of the tender	90 days from last date for receipt of tender
13	Eligible Taxes	<p><b>A)</b> Income Tax will be deducted at source as per Govt. Guidelines</p> <p><b>B) Payment of GST will be made as applicable. The contractor should comply with the following;</b></p> <p>Contractor should have GST Registration Number. Invoice should specifically/separately disclose the amount of GST levied at applicable rate as per GST provisions/Rules. In case of Correction in the bills after scrutiny, contractor should submit fresh bills for payment.</p> <p>Contractor should timely file his GST return in accordance with GST provisions to enable the bank to claim the credit of GST paid to the contractor.</p> <p>The GST Number of State Bank Of India are For Madhya Pradesh -23AAACS8577K1ZX</p>
14	<b>Electronic Payment</b>	<p>Electronic payment shall be preferred.</p> <p>All the contractor must furnish details such as</p> <ol style="list-style-type: none"> <li>1) Name of the their bank</li> <li>2) Name of their branch</li> <li>3) Account number</li> <li>4) Name of the account holder as in the bank account</li> <li>5) IFSC No of the branch</li> <li>6) PAN number</li> </ol>
15	Agency for arranging e-tender/online bidding, contact numbers	<p>e-Procurement Technologies Limited, Ahmedabad.</p> <p>Tel.:- 079 – 681368 40/ 31 / 35 / 63 / 29 / 57 / 53 / 43 / 52 / 20 / 59 / 22</p> <p>Mobile: +91 9904407997 / 9081000427</p> <p>Email: <a href="mailto:sujith@auctiontiger.net">sujith@auctiontiger.net</a>, <a href="mailto:sujith@eptl.in">sujith@eptl.in</a>, <a href="mailto:jaymeet.rathod@auctiontiger.net">jaymeet.rathod@auctiontiger.net</a>, <a href="mailto:jaymeet.rathod@eptl.in">jaymeet.rathod@eptl.in</a>, <a href="mailto:mehnaz@eptl.in">mehnaz@eptl.in</a>, <a href="mailto:vinayak.k@eptl.in">vinayak.k@eptl.in</a>, <a href="mailto:pratik.parekh@eptl.in">pratik.parekh@eptl.in</a>, <a href="mailto:anshul.juneja@eptl.in">anshul.juneja@eptl.in</a>, <a href="mailto:devang@eptl.in">devang@eptl.in</a>, <a href="mailto:dharam@eptl.in">dharam@eptl.in</a>, <a href="mailto:aman.v@procuretiger.com">aman.v@procuretiger.com</a></p>
16	For further clarifications, if any	<p>All technical matters contact:</p> <p>Sri. N K KAWDE, SBIIMS, BHOPAL</p> <p>0755-2572553</p>
17	<b>Any additional Information</b>	<p>The quoted rate should be inclusive of materials, labour, wages, fixtures, transportation, installation, all taxes(but excluding GST), wastages, Octroi, machinery, temporary works such as scaffolding, cleaning, overheads, profit, statutory expenses, incidental charges and all related expenses to complete the work.</p>

**The D.D./ B.C. of E.M.D. shall be submitted/received (otherwise the tender shall be summarily rejected) at the above mentioned address on or before the opening date/time of Tender.**

The contractor has to provide their E-mail id, contact nos. and postal address in the bid documents. Henceforth, all official communication from Bank/SBIIMS shall be through E-mail and SMS also.

The SBIIMS reserves the right to cancel or postpone or modify the tenders at any stage without assigning any reason.

**The Vice president & Circle Head**

## **INSTRUCTIONS TO TENDERERS**

Online, e-tenders are invited for **SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WORKS OF A PASSENGER LIFT (10 PERSONS) (Gearless, Machine Room less Lift) AT SBI FLATS, MAIN BRANCH COMPLEX, INDORE**, from the Contractors of eligible Category, empanelled in the State Bank of India, A O, Bhopal.

1. Submission of BIDs/Tender Documents: Tenders should be submitted online in the website <https://etender.sbi/>. In addition, scanned copy of the declaration given in the last page signed with seal and scanned proof of empanelment and its validity should be submitted online with our service provider on the website at: <https://etender.sbi/> The tender document is not required to be sent to us in hard copy. The Tender documents with acceptance of all terms and conditions strictly as described in this tender document will be submitted online through M/s e-Procurement Technologies Ltd., Ahmadabad, the out sourcing agency approved by the Bank for e-tendering on the website <https://etender.sbi/>
2. Contractors should submit/sent EMD physically on or before 3.00 p.m. on last date at the office of the Vice President, SBI Infra Management Solutions Pvt. Ltd., Bhopal Circle Office, Mezzanine Floor, SBI Bhopal LHO Building, Hoshangabad Road, Bhopal. The tender will be rejected if the tenderer fails to submit the above documents such as soft copy of complete tender documents, scanned copies of proof of empanelment, declaration, EMD and application fee.
3. Contract documents consist of detailed plans, technical specification, schedule of quantities of the various classes of work to be done, and the set of 'conditions of contract' to be compiled with by the person whose tender may be accepted. The documents are available in the website <https://etender.sbi/>
4. The successful tenderer will have to pay an amount of Initial Security Deposit, which shall be 2% of the accepted value of the tender including the EMD, by means of D.D. The Initial security deposit is to be paid by the Contractor to Bank within 15 days of intimation to him of the acceptance of the tender. No interest is allowed on the above said security deposit(EMD, ISD)
5. Retention Money: From each running bill, an amount at the rate of 10% of the gross value of the running bill shall be recovered as retention money, till the total retention amount including the EMD and ISD amounts already with the Bank become 5% of the value of the contract amount. This amount is called as Total Security Deposit, which consists of three components
  - a. EMD - Earnest Money Deposit.
  - b. ISD - Initial Security Deposits.
  - c. RM - Retention Money.
6. The total security deposit will be kept with the Bank. Out of Total Security Deposit 50% of the total security deposit amount shall be refunded without interest to the contractor on issuance of virtual completion certificate by the Architect/Bank/SBIIMS and the Contractor's removal of his materials, equipment, labour force, temporary sheds, stores, site office etc. and on receipt of physical possession of the site by the Bank. The remaining 50% of the total security deposit may be refunded 15 days after the end of defects liability period(6 months), provided he has satisfactorily carried out all the works and attended to rectification of all defects in accordance with the conditions of the contract. In case of failure on the part to do so, the cost of rectifying the defects through any other agency shall be deducted from the amount of security deposit due to the contractor.
7. Completion of work:
  - a. The work shall be considered as complete only when the certificate of virtual completion is issued by the architects/Bank/SBIIMS.
  - b. The defects liability period' as prescribed in the contract shall commence only from date of such virtual completion.

- c. Any defect that may appear within the defects liability period shall be rectified by the contractor within reasonable time on receipt of necessary instructions from Bank/SBIIMS to that effect.

- 8.** The acceptance of a tender will rest with the Competent Authority, who does not bind himself to accept the lowest tender and reserves to himself the authority to reject any or all of the tenders received, without assigning any reasons. All tenders in which any of the prescribed conditions are not fulfilled, or are incomplete in any respect are liable to be rejected.
- 9.** All compensation or other sums of money payable by the Contractor to Clients under the terms of this contract may be deducted from the security deposit, or from any sum that may be or may become due to the Contractor on any account whatsoever and in the event of the Security Deposit being reduced by reasons of any such deductions, the Contractor shall within 7 days of being asked to do make good in by DD any sum which have been deducted from his security deposit.
- 10.** Tender containing any condition leading to unknown / indefinite liability, are liable to be summarily rejected.
- 11.** Canvassing in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
- 12.** The tenderer should quote their (own) rates for undertaking the work.
- 13.** GST as applicable will be paid at the time of payment of bill.
- 14.** All taxes other than GST, other statutory obligation in respect of this contract, as applicable, shall be payable by contractor including transportation and TA / DA of the workers at site and the Bank/SBIIMS will not entertain any claim whatsoever in this respect.
- 15.** I.T. will be recovered @ 2 % plus surcharge or as applicable as per Government Rules.
- 16.** Time is the essence of the contract. The work should be completed within the time mentioned in NIT from the date of the work order issued to the contractor to commence the work. The successful Contractor will have to give CPM/PERT chart of various activities of works to be done so that the work gets completed within the stipulated time. The chart shall be submitted within 7 days from the date of acceptance of the tender.
- 17.** Tenders for works shall remain open for acceptance for a period of 90 days from the last date of tenders. If the tenderer withdraws his tender before the expiry of the mentioned period or makes any modifications in terms and condition of the tender which are not acceptable to the Bank, then the Bank/SBIIMS without prejudice to any other right or remedy is at liberty to forfeit the earnest money.
- 18.** The successful tenderer, after the work is awarded, he will have to enter into an agreement with the competent authority of the bank.
- 19.** The tenderer, must co-ordinate with the other agencies such as (I) Electrical (II) Air – Conditioning etc.
- 20.** The tenderer should visit the site to ascertain the working conditions and local authority regulations / restrictions if any and other information required for the proper execution of the work. The work should be carried out at any floor.
- 21.** The work is to be carried out on different floors level depending upon the nature of work. Please note that materials and machines are required to be carried on head load and the same must be accounted in the costing. Please note that no separate cost shall be allowed for carting and shifting of materials.

- 22.** The quantities of various items given in the schedule of quantities are approximate. The quantities of work may vary at time of allotment / execution of work. Bank/SBIIMS reserves the right to omit / delete any item(s) of work from the schedule at the time of allotment / before. Contractor will be paid for the actual work done at the site duly verified by the concerned official of the Bank / SBIIMS.
- 23.** The unit price shall be deemed to be fixed price. In case of extra items, a record of labour charges paid shall be maintained and shall be presented regularly to the Employer's for checking. The settlement will be made based on figures arrived at jointly and taking unit price given in the contract assigned to the successful Tenderer. In case of extra items where similar or comparable items are quoted in the tender, extra rates shall be based on tender rates.
- 24.** If the rate quoted by the contractor for any item / items are not workable or abnormally lower than the market rate, the Bank/SBIIMS may demand Bank guarantee from the contractor for satisfactory completion of these work. The bank guarantee amount will be not less than 50% of the estimated amount of the items for which the rates are not workable or abnormally low. This bank guarantee will be released after completion of these works (unworkable and abnormally low rated items) to the satisfaction of the Bank/SBIIMS.
- 25.** The contractor shall submit the bar chart/ CPM/ PERT as well as shall submit the insurance cover for the work in the form of CAR policy and Third Party Insurance within seven (7) days from the acceptance of work order.
- 26.** The work has to be started within 7 (Seven) Days from the date of receipt of work order/ mark out at site; whichever is later. In case of work not being started within this stipulated period, the Bank/SBIIMS reserves the right to cancel the work order duly forfeiting the Earnest money deposit.
- 27.** No employee of the Bank/SBIIMS is allowed to work as a contractor for a period of 2 years of his/her retirement from Bank/SBIIMS Services without previous permission of the Bank/SBIIMS. This contract is liable to be cancelled, if either the contractor or any of his employees is any time to be such a person who had not obtained the permission of Bank/SBIIMS as aforesaid before submission of the tender or engagement in the contractor's service.
- 28.** Contractor should get approval of the samples of materials in advance with Bank/SBIIMS's Engineer before use of the same in the work.
- 29.** Bank/SBIIMS has the right to offer the contractor to modify the old material wherever/ whenever necessary instead of new supplies.
- 30.** The quoted rate should be inclusive of materials, labour, wages, fixtures, transportation, installation, all taxes (excluding GST), wastages, Octroi, machinery, temporary works such as scaffolding, cleaning, overheads, profit, statutory expenses, incidental charges and all related expenses to complete the work.
- 31.** The tenders shall summarily rejected, if any one of the above said requirements has not been complied with.
- 32.** The Bank/SBIIMS will not be bound to accept the lowest tender and reserves the right to accept or reject any or all the tenders without assigning any reason whatsoever.
- 33.** The contractor should fulfill the labour regulation guidelines stipulated by the governments.
- 34.** No advance payment in any form will be granted for the works proposed. Period of taking up the final bill will be one month from/ after satisfactory virtual completion or the date of submission of the final bill whichever is later.
- 35.** If in the opinion of the SBIIMS the rates quoted by any Contractor are found unworkable keeping in view the specifications proposed and workmanship expected the SBIIMS may choose to reject such tenders

within its sole discretion without notice to the Contractors and no correspondence will be entertained by the SBIIMS in this regard.

**36.** In case you are not interested to quote your rates for subject work please return all tender documents. All safety code, CPWD specifications, respective Indian Standard code of practice and direction of Engineer-in-charge will be meticulously followed while executing the work.

**37.** The Contractor has to obtain approval of materials/samples from the Engineer-in-charge prior to its procurement and use in execution of work.

**38.** The tools, plants & machineries etc. required for execution of work shall be used as per direction of the Engineer-in-charge to achieve the desired quality of work. For concealed items which cannot be checked / verified after execution, the Contractor will inform the SBIIMS in advance with sufficient time to verify and inspect such items by the Engineer to facilitate the measurements and ensure quality of work. The materials shall be first approved by the Engineer-in-charge before incorporating in construction. If any brand/make/specification of the item is missing or not specified in the tender the necessary approval/clarification may be obtained from the Engineer. The Contractor whose tender is accepted shall further deposit Initial Security Deposit (ISD) of 1% of the accepted tender amount in addition to the already deposited EMD to constitute 2% of the accepted tender amount. The Contractor will enter into an agreement with the Bank and SBIIMS for the proposed work. The proforma of the agreement is enclosed.

**39.** For clarification, if any, the drawing, /details referred to in the enclosed schedule of price bid can be discussed with SBIIMS Engineer, Circle / Administrative Office Bhopal during office hours before the date of submission of tender. The Employer reserves to itself the right of altering the drawings/specifications nature of the work by adding to or omitting any items of work or division of work amongst agencies having portions of the same carried out without prejudice to this contract.

**40.** The Contractor will submit Bank's guarantee against the low rated items and the same may be released only after the successful completion of the work. In case the work is found of sub standard nature the Bank Guarantee may be revoked.

**41.** The electrical work, if required at site, shall be carried out through 'A' class licence holder electrical contractor who are empanelled with SBIIMS. However all responsibilities will be of civil interior work contractor for executed electrical work.

I/We hereby declare that I/We have read the above terms and conditions /instructions Carefully and fully understood and will abide by the same.

**Signature of the tenderer with seal & Date:**

**Vice President**

READ, UNDERSTOOD AND ACCEPTED

**SIGNATURE OF THE CONTRACTOR WITH SEAL**

**Date:**

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Sign & Seal of the Contractor

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FORM OF SUBMISSION OF TENDER  
(To be filled by the tenderer)

**The Vice president,  
SBI Infra Management Solutions Pvt. Ltd.  
Bhopal Circle Office, Mezzanine Floor,  
SBI Bhopal LHO Building,  
Hoshangabad Road  
Bhopal – 462 011**

Dear Sir,

Ref: **TENDER FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING WORKS OF A  
PASSENGER LIFT (10 PERSONS) AT SBI FLATS, MAIN BRANCH COMPLEX, INDORE.**

I/We hereby declare that I/ We have carefully gone through the conditions laid down in the Notice Inviting Tender, General notes, General Conditions of Contract, Special conditions, Schedule of approximate quantities and rates, Form of Agreement, General Specification, Approved manufacturers/ natural source of materials Technical Specifications of schedule of quantities, and clearly understood all the same and on the basis of the same I/ We have quoted our rates in the Schedule of Quantities (i.e. BOQ) attached with the tender documents.

I / We do here by undertaken to execute and complete the whole or part of the work (as desired by you) at the respective rates quoted.

I/ We are depositing a sum of Rs.\_\_\_\_\_.00 (Rupees \_\_\_\_\_ THOUSAND ONLY ) as earnest money deposit by way of demand draft drawn in favor of Regional Manager, RBO, State Bank of India along with this tender for due execution of the work at my/ our tendered rates.

In the event of this Tender being accepted I/ We agree to enter into the agreement and submit the declaration on requisite non-judicial stamp papers as and when required and execute the contract according to your form of Agreement etc., in default whereof, I/ We do hereby bind my-self / ourselves to forfeit the aforesaid deposit.

In the event of this Tender being accepted I/ We agree to obtain the labor license and the CAR and Third party insurance policy and deposit the balance E.M.D. amount and adhere/comply to all other instructions as given in TENDER DOCUMENT.

I / We further agree to complete the work included in the said schedule of quantities within the time mentioned in the NIT from the date of the work order issued to commence the same.

Date of commencement shall be either one week from the date of work order issued to the contractor or the date on which mark out of work at site has been given to contractor; whichever is later.

I / We agree not to employ sub-contractors other than those that may be approved by Employer.

I / We agree to pay all taxes(except GST), insurance charges as prevailing from time to time, on such items for whom same is to be levied by/ for the government, and the rates quoted by me / us are inclusive of all the same.

Yours Faithfully,

Signature of Witness:

Contractor's Signature\_\_\_\_\_

1.

Name: \_\_\_\_\_

2.

Address: \_\_\_\_\_

3.



## **GENERAL NOTES**

### **1. PROCEDURE OF FILLING AND SUBMISSION OF TENDER**

- i. Submission of BIDs/Tender Documents: Tenders should be submitted online in the website <https://etender.sbi/> In addition, scanned copy of the declaration given in last page to be signed with seal and scanned proof of empanelment and its validity should be submitted online with our service provider on the website at: <https://etender.sbi/> The tender document is not required to be sent to us in hard copy. The Tender documents with acceptance of all terms and conditions strictly as described in this tender document will be submitted online through M/s e-Procurement Technologies Ltd., Ahmedabad, the outsourcing agency approved by the Bank for e-tendering.
- ii. In the event of the tender being submitted by a firm, it must be signed by a member or members of the firm having legal authority to do so, and if called for, the legal documents in support thereof must be produced for inspection and the same in the case of the firm carried out by one member of a joint family. It must disclose that the firm is duly registered under the India Partnership Act. Any tender signed by a member not holding a power of attorney shall be treated as informal.

Tenderer shall note that their tenders shall remain open for acceptance for a minimum period of three months from the last date of receipt of tenders. The tenders must be unconditional. Conditional tenders may be summarily rejected.

### **2. RATES TO INCLUDE:**

While quoting their rates the tenderer should include the following if otherwise not stated herein before.

- i. Materials, labour, wastages, overhead, transport, sample testing charges etc all for completing work.
- ii. Necessary cost of taking samples of materials supplied by them for work including plywood, wood/tiles etc., testing of the same at Govt.'s / approved laboratory including transportation, cost of the samples, as and when required.
- iii. Submission of test reports of other materials as may be specified by Bank/SBIIMS's Engineer.

### **3. STORAGE OF MATERIALS:**

The contractor shall not store their materials and debris within the premises other than the work site handed over to him.

### **4. LABOUR HUTMENT:**

Shelter or stay and other amenities for the labors have to be arranged by the contractor at his own expense and responsibility.

### **5. IDLE LABOUR:**

In case the work is held up for any site conditions not attributable to the contractors or for any decisions instructions/ want of details from Employer or for any of the conditions, the contractor shall be allowed reasonable extension of time by the employer but any claim for idle labour shall not be entertained by the employer. Contractor's quoted rates should include for all such contingencies.

6. The contractor shall engage one competent person at site who shall take the instructions from the Employer. The work should not suffer due to lack of supervision, manpower and materials.

- 7.** The Contractor is required to co-ordinate his works along with other agencies working at site. He has to reimburse any of the damage made by him or any of his representatives for any of the other agency or owner at site.
- 8.** Making of any cut-out / opening for electrical wiring / fitting in any of false ceiling, partition, Paneling, masonry work etc., and providing panels of the same finish in partitions, paneling shall not be paid extra.
- 9.** The contractor is required to fabricate a sample where required, or any item so installed for approval. Any changes made by the Architect/Employer, in the sample to the specifications as mentioned in the tender, shall not be deducted or paid extra. The bulk production of the furniture can only be taken up after the final approval of the sample of the item.
- 10.** The partitions shall be so fixed that all joinery work is in plumb and true in line. The partition frame shall be firmly fixed to the floor and ceiling by using suitable wall plugs and screws.
- 11.** The contractor shall check all dimensions before fabricating and fixing the partitions or any other items in position at site.
- 12.** All measurements given in the schedule hereunder are for the purpose of tender only. Payment will be made on actual measurement of the work done.
- 13.** All measurements shall be as per relevant I.S. standards

## **SPECIAL CONDITIONS OF CONTRACT**

### **1. INSPECTION OF DRAWINGS**

Before filling in the tender, the contractor will have to check up all drawings/specification and schedule of quantities, and will have to get an immediate clarification from the employer/Architect on any point that he feels is vague or uncertain. No claim of damages or compensation will be entertained on this account.

### **2. EXECUTION OF WORK (PRICES TO INCLUDE)**

The whole of the work is described in the contract a (including the schedule of Quantities, the specifications and all drawing pertaining there to) and as advised by Employer / Architect from time to time is to be carried out and completed in all its parts to the entire satisfaction of the Employer /Architect. Any minor details of the work which may not have been definitely referred to in this contract, but which are usual in practice and essential to the work, are deemed to be include in this contract. Rates quoted in the Schedule shall be inclusive of all frights, Royalties, duties, etc., as well as transportation, so as to execute the contractor as per the rules and regulations of Local Bodies, State Government and Government of India.

The rates quoted in the tender should include all charges for:

- 1) Labor, maintenance fixing, carrying, cleaning, making good, hauling, watering etc.
- 2) Plant, machinery, scaffolding, framework, English ladders, ropes, nails, spikes, tools, materials and workmanship protection from weather, shuttering, temporary supports, platform and maintenance of the same.
- 3) Covering for the walling and other works during inclement weather or striking or whenever directed as necessary.
- 4) The rates quoted by contractor shall include removal of all the existing furniture and other material & dispose them off where ever required including the furniture and material for which the contract has given the pay back offer.

### **3. SITE SUPERVISION**

The contractor shall appoint at his own cost competent and adequate number of qualified Engineers at site, for (1) joint measurements and preparations of bills, (2) for testing materials at site and outside laboratory, (3) for other general supervision. Their appointment shall be approved by the Employer / Architect. The site Engineers shall not be removed from the site without the written consent of the Employer / Architect.

### **4. DIMENSIONS**

Figures, dimensions, are in all case to be accepted preferences to scaled sizes. Large-scale details take precedence over small scale drawings. In case of discrepancy, the contractor is to ask for a clarification before proceeding with the work. Accordingly if any work is executed without prior clarification it is liable to be rejected and shall not be paid for.

### **5. PROGRAMME OF WORKS**

Contractor shall have to prepare and submit the CPM/PERT charges for employer approval immediately after issue of the work order and display the approved charts in the site office. He shall also make bar charts indicating individual items and during the progress of work he shall update the bar charts showing the proportionate progress of work every week.

He shall strictly adhere to the program of works as per CPM/PERT charts showing the proportionate progress of work.

## **6. PROCUREMENT OF MATERIALS**

Contractor shall procure all the materials for the work from the open market. Time is the essence of the contract. Acceptance of the completion date by the contractor shall mean that he has taken into consideration the availability of all material of approved make and quality in sufficient quantities at site to enable him to complete the entire work in the stipulated period. Contractor will get sample of all materials approved by the Employer before placing order / purchase / procurement. They shall conform to I.S. codes and or tender specification as applicable.

For all materials the contractor shall quote for the best quality of the materials of best make / source or supply and it will be got approved by Employer before procurement. In case sufficient quantities of approved quality materials from approved source are not available in time, contractor may have to procure the same from neighboring area with longer leads as required and directed at no extra cost. The material will be, however as per relevant I.S code as and wherever applicable.

## **7. UNFIXED MATERIALS**

When any materials intended for the works shall have been placed at site by the Contract, such material shall not be removed there from (except for the purposes of being used on the works) without the written authority of the Employer / Architect and when the contractor shall have received payment in respect of any certificate in which the architect shall have stated that he has taken in to account to value of such unfixed materials on the works such material shall become the property of the Employer and the contractor shall be liable for any loss or damage to any such materials.

## **8. CUSTODY AND SECURITY OF MATERIALS**

The contractors shall be responsible for the custody and security of all materials and equipment at site and he will provide full time watchman/ watchmen to look after his materials, stores equipments etc.

## **9. RATES**

Rates quoted by the contractor shall hold good for all the work carried out to any height and depth as shown in detailed drawings and as required and directed by the Architect. Rates quoted by the contractor shall also hold good for any small work at any place at site.

## **10. PRICES FOR EXTRAS ETC., ASCERTAINMENT**

The rates of extra items will be ascertained as below:

- a. The rates will be derived from the rates of items already quoted in the original tender for the extra work.
- b. Where extra work cannot be properly measured or valued, the contractor shall be allowed any work prices at the net rates stated in the tender or the priced schedule of quantities, or if not so stated, then in accordance with the local day work, rates and wages for the district, provided that in either case vouchers specifying the daily time (and if required by the Architect, the workmen's name) and materials employed at or before the end of the week following that in which the work has been executed.
- c. The measurements and valuations in respect of the extra items of contract shall be completed within the 'period of final measurement' or within three months of the completion of the contract works as defined under clause (Certificate of Virtual Completion).

## **11. EXTRA ITEMS RATES**

The work or extra items shall be started only after the approval of extra items rates by client / Architect. Rates for additional or extra items work which cannot be derived from the contract item rates shall be calculated on the basis of actual cost plus 15 % for profit.

## **12. FAILURE BY CONTRACTOR COMPLY WITH ARCHITECT EMPLOYER'S INSTRUCTIONS**

If the contractor after receipt of written notice from the employer/architect requiring compliance with such further drawings and / or instruction, fails within seven days to comply with the same, the Employer / Architect may employ and pay other persons to execute any such work whatsoever as may be necessary to give effect thereto and all cost incurred in connection there with shall be recoverable from the contractors by the Employer as a debit or may be deducted from any money due or which become due to the Contractors.

## **13. INFORMATION TO BE SUPPLIED BY THE CONTRACTOR**

The contractor shall furnish the Employer / Architect the following:

- 1) Detailed industrial statistics regarding the labor employed by him etc.
- 2) The Power of Attorney, name and signature of his authorized representative who will be in charges for the execution of work.
- 3) The list of technically qualified persons employed by him for the execution of this work.
- 4) The total quantity and quality of materials used for the works.
- 5) The list of plant and machinery employed for this work.

## **14. ARCHITECT'S DELAY IN PROGRESS**

The Architect may delay the progress of the works in case of rains or otherwise, without vitiating the contract and grant such extension of time with the approval of the employer for the completion of the contract as he may think proper and sufficient in consequences of such delay, and the contractor, shall not make any claim for compensation or damage in relation thereto.

## **15. CERTIFICATE AND PAYMENTS**

The contractor shall be paid by the Employer from time to time, by installments under interim Certificates to be issued by the Architect and Bank/SBI/IMS's Engineer to the contractor on account of the works executed by the contractor when in the opinion of the Architect, work to the approximate value, named in the Appendix as 'Value of work for interim Certificates' (or less at the reasonable discretion of the Employer / Architect) has been executed in accordance with this contract, subject however, to a retention of the percentage of such value need in the Appendix hereto mentioned as 'retention percentage for interim Certificates' until the total amount retained shall reach the sum named in the appendix as Total Retention money after which time the installments shall be up to the full value of the work subsequently so executed in the interim Certificate, such amount as he may consider proper on account materials delivered upon the site by the Contractor for use in the work.

And when the works have been virtually completed and the Architect shall have certified in writing that they have been completed, the contractor shall be paid in accordance with the Certificate issued by the Architect the sum of money named in the Appendix after satisfying themselves as 'Installment after Virtual Completion 'being a part of the said 'Total Retention Money'.

The Contractor shall be entitled to the payment of the final balance in accordance with the final Certificate to be issued in writing by the Architect at the expiration of the period refer to as ' The Defect Liability Period' in the Appendix hereto, from the date of Virtual Completion or as soon as after the expiration of such period as the work shall have been finally completed and all defect made good according to the true intent and

meaning hereof, whichever shall happen, provided always that the issue by the Architect of any certificate during the progress of the works or after the completion shall not relieve the Contractor from his liabilities in cases of fraud, dishonesty or fraudulent concealment relating to the works or materials or any matter dealt within the certificate, and in case of all defects and insufficiency in the works or materials which reasonable examination would have disclosed. No certificate of the Architect shall of itself be conclusive evidence that any works and materials to which it relates are in accordance with the contract.

The Architect shall have power to withhold any certificate if the works or any part thereof is not being carried out to his / employer satisfaction.

The Architect may by any Certificate make any correction in any previous Certificate, which shall have been issued by him.

## **16. DELAYED PAYMENTS**

Any amounts payable by the Employer to the contractor in pursuance of any Certificate given by the Architect hereunder shall, if not paid within the 'Period of honoring of Certificate' no interest will be paid by the Employer.

## **17. FORCE MAJEURE**

Neither party shall be held responsible by the other for breach of any condition of this agreement attributable to any 'Act of God' Act of state, lockout of control or any other reason, beyond the control of the parties and any breach of clauses arising from much force majeure conditions as aforesaid shall not be regarded as a breach of the provision of this Agreement.

## **18. INCOME-TAX**

Income Tax shall be deducted at source by the client from the contractor's interim and final bill payments as per Statutory Regulations.

## **19. SITE MEETINGS**

A senior representative of the contractor shall attend weekly meetings at works site and in addition meetings as and when arranged by employer / Architect to discuss the progress of the work and sort out problems, if any and ensure that the work is completed in the stipulated time.

## **20. SCHEDULE OF APPROXIMATE QUANTITIES AND RATE**

- 1) The quantities given herein are approximate and they are subjected to alterations omissions, deductions or additions as provided for in the conditions of this contract and do not necessarily show the actual quantities of the work to be done.
- 2) It is to be expressly understood that the measured work is to be taken net (notwithstanding) any custom or practice to the contrary according to the actual quantities when in place and finished according to the drawings or as may be directed from time to time by the employer and the cost calculated by measurements or weight, at the respective prices, without any additional charge for any necessary or contingent works connected therewith. The rates quoted are for work in site and complete in every respects.
- 3) If any operation of work, which is specified in the respective items mentioned in the schedule of quantities, is not executed by the contractor then proportionately the rate quoted in the schedule shall be re-fixed.

## **21. ACTION WHERE THERE IS NO SPECIFICATION**

In case of any class of work for which there is no specification mentioned, the same will be carried out in accordance with the Indian Standards Specifications subject to the approval of the Employer / Architect.

## **22. ACCIDENT AT SITE**

The contractor shall be responsible for the safety of persons employed by him on the works. This shall be without prejudice to the responsibility of the contractor under the Insurance Clause of the general conditions. Contractor shall take all precaution detailed in the safety code attached separately.

### **23. TYPOGRAPHICAL CLERICAL ERRORS**

The Employer / Architect clarification regarding partially omitted particulars of typographical or Clericals errors shall be final and binding on the contractors.

### **24. WORK PERFORMED AT CONTRACTOR'S RISK**

The contractor shall take all precautions necessary and shall be responsible for the safety of the work and shall maintain all lights, goods, signs, temporary passages or other protection necessary for the purpose. All works shall be done by the contractor's risk and if any loss or damage shall result from fire or from others cause, the contractor shall promptly repay or replace such loss or damage free from all expenses to the employer.

The contractor shall be responsible for any loss or damage to materials, tools or other articles used held for use in connection with the work. The work shall be carried on to completion without interferences with the operations of existing machinery or equipment, if any.

### **25. SPECIAL CONDITIONS OF CONTRACT**

In the event of any discrepancy with clauses mentioned anywhere else in the tender with the clauses mentioned within special conditions of contract, the clauses mentioned within the special conditions of contract shall supersede those mentioned elsewhere.

### **26. CONTRACTOR'S LABOUR REGULATION**

1) Short title:

a. These regulations may be called the "contractor labour regulations."

b. **Definitions :-** in these regulations, unless otherwise expressed or indicated, the works and expressions shall have the meaning hereby assigned to them respectively, that is to say:

- i. "Labour" means worker employed by the Bank/SBIIMS's contractor directly or indirectly through a sub-contractor or other persons or by an agent on his behalf of a payment not exceeding Rs. \_\_\_\_\_/- per month and will not include supervisory staff like overseers etc.
- ii. "fair wages" means wages whether for time or piece work notified at the time of inviting tenders for the work and where such wages prescribed by the government of India in the ministry of labour and employment vide Sl.No. 1917 published in the gazette of India, extraordinary part - ii section (3) sub-section (ii) dated 19-5-1969.
- iii. "contractors" shall include every person whether a sub-contractor or headman or agent employing labour on the work taken on contract.
- iv. "Wages" shall have the same meaning as defined in the payment of wages act and includes time and piece rate wages.

c. Working Hours:

- i. Normally working hours if an adult employee should not exceed 9 hours a day and in case of a child 4 1/2 hours a day. The working day shall be so arranged that inclusive of interval for rest, if any, it shall not spread over more than 12 hours on any day.
- ii. When an adult worker is made to work for more than 9 hours on any day or for more than 48 hours in any week. he shall be paid overtime for the



extra hours put in by him at double the ordinary rate of wages.  
Children shall not be made to work extra.

- iii. Every worker shall be given a paid weekly holiday normally on Sunday in accordance with the provisions of minimum wages (central) rules, 1960 as amended from time to time irrespective of whether such worker is governed by the minimum wages act 1948 or not.

**d. Display of notice regarding wage etc. the contractor shall:**

- i. Before the commences his work on contract, display and correctly maintain and continue to display correctly maintain in a clean legible condition in conspicuous places on the work, notice in English and in the local Indian language spoken by the majority of workers, giving the rate of wages which have been certified by the executive engineer, ZONAL labour commissioner fair as wages and the hours of work for which such wages are earned, and Send a copy of such notices to the certifying officer.

**2) Payment of wages under central govt. wages act:**

- a. Wages due to every worker shall be paid to him direct.
- b. All wages shall be paid in current coin or currency or in both.
- c. Arrears claimed after 3 months after the completion of the work shall not be entertained.

**3) Fixation of wage periods**

- a. The contractor shall fix the wage periods in respect of which the wages shall be payable. The minimum daily rates of wages fixed under notification of the government of India in the ministry of labour and employment no. 1972 dated 10-5-78 are inclusive of wages for weekly day of restyle and the question of extra payment for week holiday would not arise.
- b. No wage period shall exceed one month.
- c. Wages of every employed on the contract shall be paid (a) in case of establishments in which wage period is one week within 3 days from the end of the wage period and (b) in the case of other establishments before the expiry of the 7th day or 10th day from the end of the wages period according to the number of workers employed in such establishment does not exceed 1000 or exceeds 1000.
- d. When the employment of any worker is terminated by or on behalf of the contractor the wages earned by him shall be paid before the expiry the day exceeding the one on which his employment is terminated.
- e. All payment of wages shall be made on a working day except when the work is completed before the expiry of the wage period in which case final payment shall be made within 48 hours of the last working day at work site and during the working time.

**Note:** The term "working day" means a day on which work on which the labor employed is in progress.

**4) Wage book and wage slips etc.:** The contractor shall maintain a wage book of each worker in such form as may be convenient at the place of work, but the same shall include the following particulars:

- a. Name of the worker.
- b. Rate of daily or monthly wages.
- c. Nature of work on which employed.
- d. Total number of days worked during each wage period.
- e. Dates and periods for which worked overtime.
- f. Gross wages payable for the work during each wage period.

- g. All deductions made from the wage with an indication in each case of the ground for which the deduction is made.
- h. Wages actually paid for each wage period.
- i. Signature or thumb impression of the worker.
- j. The contractor shall also issue a wage slip containing the aforesaid particulars to each worker employed by him on the work at least a day prior to the day of disbursement of wages.
- k. The contractor shall issue the employment card in the prescribed form iii to each worker on the day of work or entry in to his employment. If the worker has already any such card with him from the previous employer, the contractor shall merely endorse that employment card with relevant entries. On termination of employment the employment card shall again be endorsed by the contractor and returned to the worker.
- l. **The contractor shall issue an attendance-cum-wages card as perform:** Attached to each worker on the day of each worker on entry into his employment.

5) **Register of unpaid wages:** The contractor shall maintain a register of unpaid wages in such form as may be convenient at the place of work but the same shall include the following particulars:

- a. Full particulars of the laborers where wages have not been paid.
- b. Reference number of the muster roll and wage register.
- c. Rate of wages.
- d. Wage period.
- e. Total amount not paid.
- f. Reasons for not making payment.
- g. How the amount of unpaid wages was utilized.
- h. Acquaintance with dates.

6) **Register of accidents:** The contractor shall maintain a register of unpaid wages in such form as may be convenient at the place of work but the same shall include the following particulars:

- a. Full particulars of the laborers who met with accident.
- b. Rate of wages.
- c. Sex.
- d. Age.
- e. Nature of accident and cause of accident.
- f. Time and date of accident.
- g. Date and time when admitted in hospital.
- h. Date of discharge from the hospital.
- i. Period of treatment and result of treatment.
- j. Percentage of loss of earning capacity and disability as assessed by the medical officer.
- k. Claim required to be paid under worker's compensation act.
- l. Date of payment of compensation.
- m. Amount paid with details of persons to whom the same was paid.
- n. Authority by whom the compensation was assessed.
- o. Remarks.

7) **Fines and deductions which may be made from wages:**

- a. The wages of a worker shall be paid to him without any deduction of any kind except the following:
  - i. Fines.
  - ii. Deduction for absence from duty i.e. from the place or the places whereby terms of his employment he required to work. The amount of deduction shall be in proportion to the period for which he was absent.

- iii. Deduction for damage to or loss of goods expressly entrusted to the employed person for custody, or loss of money or any other deduction which he is required to account, where such damage or loss is directly attributable to this neglect or default.
- iv. Deduction for recovery of advances or for adjustment of over-payment of wages, advance granted shall be entered in a register.
- v. Any other deduction which the central government may from time to time allow.

b. No fine should be imposed on any worker save in respect of such acts and omission on his part as have been approved by the chief labour commissioner.

c. No fine shall be imposed on a worker and no deduction for damage or loss shall be made from his wages until the worker has been given an opportunity of showing cause against such fines or deductions.

d. The total amount of fine which may be imposed in any one wage period on a worker shall not exceed an amount equal to three paise in a rupee of wages, payable to him in respect of that wage period.

e. No fine imposed on any worker shall be recovered from him by installment, or after the expiry of sixty days from the date on which it was imposed.

f. Every fine shall be deemed to have been imposed on the day of the act or omission in respect of which it was imposed.

#### 8) **Register of fines, etc.:**

- a. The contractor shall maintain a register of fines and a register of deduction for damage or loss in form nos. 1 & 2 respectively which should be kept at the place of work.
- b. The contractor shall maintain both in English and the local Indian language, a list approved by the chief labour commissioner clearly stating the acts and omissions for which penalty or fine may be imposed on a workman and display it in a good condition in a conspicuous place of the work.

#### 9) **Preservation of registers:**

The wage book the wage slips, the register of unpaid wages, the register of accidents, the register of fines, deductions required to be maintained under these regulations shall be preserved for 45 days after the date of last entry made in them and shall be made available for inspection by the engineer-in-charge labour welfare officer or any other officer authorized by the chief labour commissioner in this behalf.

#### 10) **Powers of labour welfare officer to make investigation or enquiry:**

The labour welfare officer or any other person authorized by the central government on their behalf shall have power to make enquiries with a view to ascertaining and enforcing due and proper observance of the fair wage clauses and provisions of these regulations. He shall investigate into any complaint regarding the default made by the contractor or sub-contractor in regard to such provision.

#### 11) **Report of labour welfare officer:**

The labour welfare officer or other persons authorized as aforesaid shall submit a report of result of his investigation or enquiry to the executive engineer concerned indicating the extent, if any, to which the default has been committed, with a note that necessary deduction from the contractor's bill be made and the wages and other dues be paid to the laborers concerned. In case an appeal is made by the contractor

under clause 14 of these regulations actual payment to the laborers will be made by the executive engineer after the zonal labour commissioner has given his decision on such appeal.

a. The executive engineer shall arrange payments to the labors concerned within 45 days from the receipt of the report from the labour welfare officer or the zonal labour commissioner as the case may be.

**12) Appeal against the decision of labour welfare officer:**

Any person aggrieved by the decision and recommendations of the labour welfare officer or other person so authorized may appeal against such decision to the zonal labour commissioner concern within 30 days from the date of decision, forwarding simultaneously a copy of his appeal to the executive engineer concerned but subject to such appeal, the decision of the officer shall be final and binding upon the contractor.

**13) Prohibition regarding representation through lawyer:**

- a. A workman shall be entitled to be represented in any investigation or enquiry under this regulation by:
- An officer of a registered trade union of which he is a member.
  - An officer of a federation of trade unions to which the trade union referred to in clause (a) is affiliated.
  - Where the employee is not a member of any registered trade union, by any officer, of a registered union, connected with, or by any other workman, employed in the industry in which the worker employed.
- b. An employer shall be entitled to be represented in any investigation or enquiry under this regulation by:
- An officer of any association of employers of which he is a member.
  - An officer of a federation of association of employers to which the Association referred to in clause (a) is affiliated.
  - Where the employer is not a member of any association of employers' by an officer of association of employers connected with or by any other employer, engaged in the industry in which the employer is engaged.
- c. No party shall be entitled to be represented by a legal practitioner in any investigation or enquiry under these regulations.

**14) Inspection of books and slips:**

The contractor shall allow inspection of the wage books and the wage slips the register of unpaid wages, the register of a accident, and the register of fines and deduction to any of his workers or to his agent at a convenient time and place after due notice is received or to the labour welfare officer or any other person authorized by the central government on his behalf.

**15) Submission of returns:**

The contractor shall submit periodical returns as may be specified from time to time.

**16) Amendment:**

The central government may from time to time add to or amend the regulation and on any question as to the application, interpretation or effect of these regulations the decision of the chief labour commission or deputy chief labour commission to the government of India, or any other person authorized by the central government in that behalf shall be final.

**17) Safety code:**

Scaffolds:

- a. Suitable scaffolds should be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short period work as can be done safely from ladders. when a ladder is used an extra mazdoor shall be engaged for holding the ladder and if the ladder used for carrying material as will, suitable footholds and hand holds shall be provided

on the ladder and the ladder shall be given an inclination not steeper than 1/4 to 1 (1/4 horizontal and 1 vertical).

- b. Scaffolding or staging more than 4m. above the ground or floor, swung or suspended from an overhead support or erected with stationary support shall have a guard rail properly attached bolted, braced and otherwise secured at least 3 feet high above the floor or platform of such scaffoldings or staging and extending along the entire length of the outside and ends thereof with only such opening as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
- c. Working platform, gangways, and stairways should be so constructed that they should not sag unduly or unequally, and if the height of the platform or the gangway or the stairway is more than 12 feet above the ground level on the floor level. They should be closely boarded, should have adequate width and should be suitably fastened, as described in (ii) above.
- d. Every opening in the floor of a building or in a working platform be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing or railing whose minimum height shall be -3'0". Wherever there are open excavations in ground, they shall be fenced off by suitable railing and danger signals installed at night so as to prevent persons slipping into the excavations.
- e. Safe means of access shall be provided to all working platforms and the working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9m. In length while the width between sides rail in rung ladder width shall in no case be less than 290mm. For ladder up to and including 3m. In length. For longer ladders this width should be increased at least 20mm. for each additional meter or length.
- f. A sketch of the ladders and scaffolds proposed to be used shall be prepared and approval of the engineer obtained prior to construction.

#### **Other safety measures**

- g. All personnel of the contractor working within the plant site shall be provided with safety helmets. All welders shall wear welding goggles while doing welding work and all metal workers shall be provided with safety gloves. Persons employed on metal cutting and grinding shall wear safety glasses.

Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites of work shall be so stacked or placed as to cause danger or inconvenience to any person or the public.

## **FORM OF AGREEMENT**

ARTICLES of AGREEMENT made this \_\_\_\_\_ day of \_\_\_\_\_ year 2019 between the **State Bank of India, AGM (P&E), SBI, LHO, Bhopal** (Hereinafter referred to as the "Employer/Owner/client" which expression shall, unless excluded by or repugnant to the context, includes its successors and assigns) of the ONE PART and \_\_\_\_\_ of \_\_\_\_\_ (Hereinafter referred to as "Contractor" unless excluded by or repugnant to the context, includes its successors and assigns) of the OTHER PART.

WHEREAS the Employer through SBIIMS, intends to carry out Supply, Installation, Testing And Commissioning of Passenger Lift at Flats, Main Branch Complex, Indore (M.P.), **shall herein after referred to as "Project"**.

AND WHEREAS for the purpose of the above said project, the SBIIMS PVT. Ltd., Circle Office, Bhopal invited sealed tenders on behalf of SBI from experienced, resourceful and bonafied contractors vide his Notice Inviting Tender (No. \_\_\_\_\_ dated. \_\_\_\_\_).

WHEREAS the contractor submitted his Tender Documents containing Notice Inviting Tender, General notes, General Conditions of Contract, Special conditions, Schedule of approximate quantities and rates , Form of Agreement, General Specification, Approved manufacturers/ natural source of materials, Declaration, Technical Specifications as in Schedule of Quantities etc. for the above said project, (Hereinafter collectively referred to as the "said conditions"), duly signed on each page as a token of his acceptance of the same, along with requisite Earnest Money Deposit.

AND WHEREAS out of the Tenders received, the Tender of the contractor was found to be most suitable for the project.

AND WHEREAS the SBIIMS has accordingly issued the work order (No. \_\_\_\_\_ dt. \_\_\_\_\_) to the contractor subject to his furnishing the requisite Security Deposit.

AND WHEREAS the Contractor has accepted the aforesaid Work Order vide his letter of acceptance NO. \_\_\_\_\_ dt. \_\_\_\_\_ and has also deposited with the Employer a sum of Rs. \_\_\_\_ which with the Earnest Money of RS. \_\_\_\_\_ forms the requisite Security Deposit @ 2 % of the accepted Tender Value of Rs. \_\_\_\_\_.

NOW, therefore, it is hereby agreed to and between the parties as follows:

### 1) Contract documents

The following documents shall constitute the Contract Documents.

I. This Article of Agreement.

II. Tender Document submitted by the Contractor including the "said conditions", N.I.T and Schedule of quantity.

III. All correspondence between the Employer and the Contractor from the date of issue of N.I.T and the date of issue of work order.

IV. Work order No. \_\_\_\_\_ dt. \_\_\_\_\_

2) In consideration of the payments to be made to the Contractor as hereinafter provided the Contractor shall upon and subject to the said conditions, execute and complete the contracted project works shown upon the said drawings etc. and such further detailed drawings as may be furnished to the contractor by the said SBIIMS and described in the said Specifications and the said Schedule of Quantities.

3) Notwithstanding what are stated in the N.I.T conditions of Tendering, Conditions of Contract of herein stated before, the Employer reserves itself the right of altering the drawings and the nature of the work and addition to or omitting any items of work or of having portions of same carried out departmentally or otherwise and such alterations or variations shall be carried out without prejudice to this contract.

4) As mentioned in Article 1 above, the "said conditions" shall be read and be treated as forming part of this agreement and parties hereto will respectively be bound thereby and to abide by and submit themselves to the conditions and stipulations and perform the same on their parts to be respectively observed and preferred.

5) Any dispute arising under this agreement shall be referred to the Arbitration in a manner specified in the General Conditions of the Contract and all legal disputes shall be limited within the territorial jurisdiction of the Bhopal thereto. The decision of the arbitration shall be final and binding on both the parties.

IN WITNESS WHEREOF THE PARTIES to their present have here under set and subscribed their hands, the day, month and year first above written.

Signed and delivered for and on behalf of

**State Bank of India**, Shri. \_\_\_\_\_ its duly authorized official, In the presence of –

1. (Name and Address)

2. (Name and Address)

**SBI Infra Management Solutions Pvt. Ltd.,**

1. (Name and Address)

2. (Name and Address)

Signed and delivered for and on behalf of

**The Contractor** \_\_\_\_\_ by Shri \_\_\_\_\_ his duly authorized official, in the presence of –

1. (Name and Address)

2. (Name and Address)

READ, UNDERSTOOD AND ACCEPTED

**SIGNATURE OF THE CONTRACTOR WITH SEAL**

DATE



## TECHNICAL SPECIFICATIONS

### 1. SCOPE OF WORK

These specifications cover the details of Electrical Elevator equipment to be supplied, inspection as may be necessary before dispatch, delivery at site, installation, testing, commissioning and handing over and the defects liability for a period of 1 year after completion of all works.

These specifications shall be read in conjunction with the General Conditions of Contract (GCC) with all correction slips as well as schedules and drawings. In the event of any discrepancy between these specifications and inter-connected contract documents, the stringent of the two shall be followed.

**Lift Requirements : No. of Passengers: 10 (680 Kg)**  
**Lift Shaft Size Available: 1800mm X 1800mm,**  
**Floors: Ground + 3 Upper Floors**  
**No. of Stops: 4**

### 2. GENERAL

The equipment and installation covered by these specifications and drawings shall conform to codes of practice in force and highest standards of workmanship and materials. This work shall be done in accordance with the provisions of the Lifts Act, and subsequent amendments, as also any state or local Act in force and latest Indian Standard 14665.

The Electrical wiring shall strictly comply with IS:732 and the entire installation shall be in accordance with the Indian Electricity Act 2003 and Indian Electricity Rules 1956 as amended to-date.

The Contractor shall follow all statutory requirements as well as best trade practices in the manufacture and installation of elevators. The Contractor shall arrange to obtain the statutory approval of the Inspectorate of Lifts as may be required before commencement of the erection and for commissioning of the Elevators and handover for operation after satisfactory tests.

### 3. DRAWINGS

Before commencing work, the Contractor shall prepare and submit all drawings necessary to show the general arrangement and details of elevator installation. These drawings must be approved by the Engineer-In-Charge and by Statutory Authorities before installation and shall become part of the contract.

The Contractor shall, within 3 weeks of receipt of a Letter of award of contract, submit 3 copies of all working drawings showing hoist way and machine/ head room layouts clearly indicating and specifying all connected structural, electrical and architectural works including imposed structural static/ dynamic loads and electrical ratings. Within 15 days of receipt of letter of award of contract, the Contractor shall obtain from the consultant all the information he needs to prepare his drawings and shall have any interaction with the consultant to finalise all parameters and data for design. The Contractor will be held responsible for any discrepancies, errors and omissions in the drawings or particulars submitted by him even if these have been approved by the consultant. On approval of these drawings by the consultant/ Employer (within 4 weeks of submission of full documentation), the Contractor shall submit five copies of approved working drawings incorporating corrections/ comments, if any made by the consultant, and shall immediately commence work.

On completion of work, the contractor shall supply four sets of CD's and four copies of the detailed wiring diagram, as-built drawings and equipment maintenance manuals. Further, a copy of such detailed diagram and a set of instructions for evacuation of passengers, in case of breakdown of the elevator, shall be framed and installed in the respective machine room by the Contractor.

The Contractor shall carry out all the work strictly in accordance with drawings, details and instructions of the Engineer-in-Charge.

#### **4. WORKS TO BE ARRANGED BY EMPLOYER**

The following items shall be provided by the Main Contractor (Civil Work) under instructions of the Engineer-in-Charge / Consultants to suit the requirements of the Elevator Contractor.

- I. Lift well, machine rooms and pits of specified dimensions (within normal building tolerances).
- II. Floor, wall and ceiling finishes in hoist ways, pits and machine rooms; including painting (except painting of equipment and materials supplied by Elevator Contractor) and waterproofing, as well as doors and windows in machine room.
- III. Ventilation of machine rooms, if required.

Provision of suitable space, as available, for storage. However, it is lift contractor's sole responsibility to ensure safety of his material.

#### **5. LIFTS CONTRACTOR'S RESPONSIBILITIES: ANCILLARY WORKS**

The entire job is required to undertaken by the Tenderer on a Turnkey basis such as:

- I. Sill tracks including sill supports, if required.
- II. Lift-pit ladders, Screen guards, fascia plates and other protection for installation.
- III. Scaffolding for lift erection work to be provided by the Contractor.
- IV. All other items necessary for satisfactory execution and completion of works, whether specified or not.
- V. Any additional work to satisfy the inspection authority for obtaining approval.
- VI. Any minor chipping work required for adjustment of Guide rails/carriage etc.
- VII. Sealing of all holes made in RCC walls during the course of installation.
- VIII. Commissioning spares.
- IX. Price of commissioning spares (Itemized with Quantity) shall be included in elevator supply rate.
- X. Each and every material, including cables, required for satisfactory erection and operation of elevator shall be included in the scope of supply and work.
- XI. Ensuring safety against accidents including barricading all openings and caution signs. All statutory rules and regulations shall be observed.
- XII. Obtaining approval and licence of Elevator Inspector before commissioning of elevator.

#### **6. SOUND REDUCTION**

The Contractor shall provide necessary sound reduction materials, such as rubber pads of suitable density to effectively isolate the machine from the machine beams and/or flooring/ walls.

Noise level inside cars and in the machine room shall be maintained at minimum levels and in any case not more than specified under PERFORMANCE PARAMETERS.

#### **7. TRACTION MACHINE**

The machine shall be Gearless/worm-gear type with motor, electro-mechanical type of brake and driving sheave mounted in proper alignment on a single heavy cast-iron base or steel bedplate.

The worm shaft shall be fitted with roller bearings to take end thrust. The sheave shaft shall also be fitted with roller bearings to ensure proper alignment. All shafts shall be provided with well-designed keys.

Rotating parts shall be statically and dynamically balanced.

The drive sheave shall be designed with machined V-grooves to ensure adequate traction with minimum wear on rope. All sheaves including deflector sheaves, where used, shall conform to I. S. 14665 (Part 4 section 3)

Adequate and dust – proof lubrication shall be provided for all bearings and worm-gears.

The brake shall be suitably curved and provided with fire-proof friction lining. The operation of brake shall be smooth, gradual and with minimum noise. The brake shall be designed to be of adequate size and strength to stop and hold the car at rest with rated load. The brake shall be capable of operation automatically by various safety devices, current failure and by the normal stopping of the car. The brake shall be released electrically. It shall also be possible to release the brake manually so as to move the lift car in short stops. Suitable Brake release tools (total 4 Nos.) shall be supplied and stored in the machine rooms/ agreed place.

For manual operation of elevators, up and down direction of the movement of the car shall be clearly marked on the motor or traction machine. A warning plate in bold signal red colour “to switch off the mains supply before releasing the brake and operating the wheel “shall be prominently displayed.

## **8. HOIST MOTOR**

The motor shall be suitable for 415 Volts +10%, 50 Hz. + 6%, 3 Phase A.C. Supply. The motor must be designed for arduous elevator duty, rapid reversals and constantly repeated starts and stops as defined in the relevant codes of practice. All windings must be heavily insulated, adequately impregnated for tropical climate and mechanically strengthened and must be specifically designed to have a high starting torque and low starting current characteristics within the limits acceptable to electricity supply co. requirements and I.E. Rules. The motor shall be designed in such a way as to withstand occasional overloading above its rated capacity and shall have overload protection of relay and protection against phase failure as well as phase reversal. The motor shall have good speed regulation under different conditions of load and shall be designed to give a noiseless and vibration-free operation. Insulation shall be class F. Motor shall be TEFC type and with IP 55 protection with minimum 120 starts per hour. HP of the motor of each lift should be specified.

## **9. MOTOR CONTROL AND DRIVE**

The lift motor shall be controlled by a variable voltage variable frequency (V.V.V.F.) micro-processor control system which shall control and monitor every aspect of elevator operation at all stages of the car motion cycle on real time basis.

The A.C. V.V.V.F. drive system shall control A.C. voltage and frequency concurrently with the hoist motor to regulate the elevator's actual performance to match closely the ideal speed pattern, obtain maximum efficiency of operation and provide a very smooth ride.

Frequency shall range between zero and rated value.

The Controller shall be provided with a self-diagnostic programme to keep downtime to a minimum possible.

The controller shall intelligently adjust door times in response to car calls, hall calls and “Door Open” button operation.

An Inspector's changeover test switch and set of test buttons shall be provided in the controller. Operation of the Inspector's changeover switch shall make both the car and landing buttons inoperative and permit the elevator to be operated in either direction from the controller for test purposes by pressing corresponding test buttons in the controller. Controller should have Integrated Field Test Mechanism. It shall not, however, interfere with the emergency stop switches inside the car or on the top of the car.

## **10. GUIDES AND FASTENINGS**

- I. Guide-rails for car and counterweight shall consist of machined mild steel tee sections, erected plumb, and securely fastened to the Elevator well framing by heavy steel brackets, suitably spaced, to limit deflection of guide-rails to 3 mm under normal working conditions.

- II. The guide-rails shall be of suitable section with ends forming matched joint and shall be connected with steel fish plates.
- III. Guide-rails shall cover the full height of the hoistway and pit.
- IV. Guides shall be designed to withstand the action of safety gear when stopping a counter weight or fully loaded car.
- V. The max. Deviation from true plumb and alignment of guide rails shall be 2 mm.
- VI. All support framing shall be rigid and shall be designed to restrict displacement of the point of support of brackets to 3 mm under normal working conditions.
- VII. The whole guide-rail installation, including expansion joints, shall be designed for a smooth ride.
- VIII. The guide-rails shall be protected during storage and installation with a rust-inhibiting coating which shall be cleaned off on completion of installation.
- IX. Guide-shoes shall be adjustable type and mounted so as to provide continuous contact with guide rails under all conditions.

Guide shoes shall be provided at top and bottom of each side of car and counterweight and shall be designed for quiet operation.

Additional guide shoes shall be provided on each side of buffer frame in case of oil-buffers.

## **11. SAFETY**

In addition to other specifications, the Elevator shall be provided with safety devices as follows: -

- I. Against overload.
- II. Safety gear on car so that in the event of rope breaking or loosening, the car will be brought to rest immediately by means of grips on the guides.
- III. The over-speeding car shall be automatically brought to a gradual stop on guide-rails and power supply to the hoist motor shall be switched off.
- IV. Over-speed centrifugal governor operating the safety gear in case of over-speeding of car in the down direction.
- V. Car gate lock in the event of car gate being opened, when passengers are in the car, the elevator will be brought to rest.
- VI. Over-travel limit switches at top and bottom limits of travel to disconnect the power supply and apply brakes to stop the car within a defined safe distance in case of over-travel in either direction
- VII. Ultimate terminal switches to stop the car automatically within top and bottom clearances independently of normal over-travel limit switches but with buffers operative.
- VIII. Protective guards to counterweights in pit, rope sheaves and wherever required.
- IX. Toe guard apron to the car platform.

## **12. CAR**

### **a. Cabin Size**

The internal clear dimensions of the cabin shall be as per those specified in IS 14665-Part I. The car shall be so mounted on the frame that vibration and noise transmitted to the passengers inside is minimized.

b. Frame and Safety Device

The car frame shall consist of mild steel channel top and bottom securely riveted or bolted and substantially reinforced and braced so as to relieve the car enclosure of all strains when the safety device comes into action due to overspeed or when the capacity loaded car is run on the buffer springs at normal speed.

The safety device mounted on the bottom members of the frame operated by a centrifugal speed governor shall be arranged to bring the car to a gradual stop on the guide-rails in the event of excessive descending speed; and provision shall be made to shut off the power supply to the motor.

c. Buffers

Spring buffers (2 Nos.) or as recommended by supplier shall be furnished and installed in the pit under the car and counterweight. These buffers shall be mounted on RCC Pedestals in the pit. The car buffer spring must be of correct design to sustain the car with capacity load without damage, should the car terminal limits become inoperative. The car buffers must be located symmetrically with reference to centre of car.

The Contractor may alternatively offer oil type buffers. The plunger shall be mild steel, designed for a very high factor of safety and accurately machined. A toughened rubber bumper shall be fitted to the plunger top to cushion the impact of steel buffer plates attached under the car and the counterweight. An oil gauge shall be provided to check the oil level.

d. Counterweight

The Elevator shall be suitably counter-balanced for smooth and economical operation. Cast Iron/ Framed RCC/ PU or similar counter, as approved, weights shall be contained in a structural steel frame properly guided with suitable guide shoes (4 Nos).

Substantial expanded metal counter-weight screen guard shall be furnished and installed, as required by Lift Inspector.

e. Hoisting and Governor Ropes

Bright steel wire ropes with fiber cores suitable for elevator duty shall be used for hoisting ropes.

Not less than 3 independent suspension ropes shall be provided and designed to share load equally by means of adjustable shackle rods with equalizer springs at each end of hoisting ropes.

Each rope shall have adequate section to provide a minimum factor of safety of 4 based on the max. force on the rope.

Governor ropes shall be similar to hoisting ropes. Their ends shall be securely attached to the car and to the safety gear. The governor ropes shall be tensioned by a weight loaded device in the pit.

The contractor shall submit the technical details and source of supply of ropes to the Engineer-in-Charge as well as a certificate of performance of ropes from an approved test laboratory or Authority.

Compensation for travel shall be provided for all elevators having a travel of more than 30m.

f. Enclosure

The car enclosure shall be S.S. finished. The cabin floor, roof and walls shall be free of distortion and undue deflection as per IS 14665 – Part 4, Section 3.

g. Brakes

D.C. brakes will be spring-applied and electrically released. They shall be designed to provide smooth stops under variable loads.

h. Doors

- Provision shall be made for vertical and horizontal fine adjustment of doors.
- i. Door Operators
- The door operators shall be VVVF inverter controlled heavy duty A. C. motor, allowing variable opening and closing speeds and full synchronization of car and landing doors.
- j. Travelling Cables
- The travelling cables shall be multi-core with high conductivity stranded conductors specifically designed for elevator duty. The cables shall be provided with retaining straps and individual cable clamps.
- k. Emergency Lighting
- A self-contained, non-maintained emergency light with a trickle- boost charger shall be provided.
- l. Emergency Exit and Evacuation(Not Applicable)
- An emergency exit shall be provided on car roof. A safety switch shall be provided to prevent the car travelling when the emergency exit is open.
- An emergency key shall be provided on each landing to unlock the doors for evacuation and maintenance.
- The doors shall be capable of being opened manually during power failure from inside the car when the car is within a landing zone.
- m. Intercom
- An Intercom system shall be provided between the car, main landing, machine room and Fire Console room linked to EPABX of Office Bldg.
- n. Manual Cranking Facility
- Manual cranking facility shall be provided in the machine room/agreed place to facilitate evacuation of passengers in case of power failure. The manual mode shall be in addition to automatic car failure operation, specified elsewhere.
- o. Emergency Stop Switch
- A stop switch in the machine room / top of car shall be provided for use by maintenance crew to cancel all car and landing calls for a particular elevator.
- Maintenance Switch On operation of the maintenance switch (located on top of the car) by the maintenance crew, the car shall travel at slow speed not exceeding 0.85 m / sec by continuous operation of a button.
- p. Landing Door Interlocks
- Electrical interlocks shall be provided to ensure that the car does not operate unless all doors are closed and unless the car reaches a landing zone.
- q. Overload Indicator
- An overload indicator with buzzer shall be provided in the cabin to indicate to the passengers that the car will not start as it is overloaded.
- r. Other Features
- All features specified in the Schedule shall be provided.
- (i) Full length handrails shall be provided on the side-wall panels.
- (ii) The door closing time shall be set for min. 5 seconds and the door closing speed shall not exceed 0.25 m/sec.

s. **Operating Panels, Buttons and Switches**

Main and secondary car operating panels, buttons and switches shall be located on the wall panels next to the car door and as specified in the Schedule of Elevators.

All buttons and switches shall be clearly legible with fade-proof text and figures, and shall be easily accessible.

t. **ELECTRIC WIRING**

Necessary insulated wiring to connect all parts of the equipment shall be furnished and installed. Insulated wiring shall be flame -retardant and moisture- resistant and shall be run in M.S. conduits. All cables shall be flame – retardant with copper conductors.

Trailing cables shall be PVC sheathed copper conductor multi-core ribbon type designed for elevator service. They shall be flexible and shall be suitably suspended to relieve strains on individual conductors. All copper conductors shall be of appropriate gauge copper to avoid excessive voltage drop. All wires, cables, conduits, metal boxes, fittings and earthing shall comply with statutory requirements and IS specifications. The body of non-current carrying metal parts like enclosures of motor, controller etc. shall be suitably earthed as per IS specifications.

The controller unit comprising of the main circuit breaker, adjustable overload and phase reversal and phase failure protection, all the circuit elements, transformer, rectifier for D.C. control supply, inverter power pack, terminal blocks etc. shall be enclosed in an insect vermin- proof, sheet- steel floor or wall-mounted cabinet with hinged doors at front or at both front and rear. Proper warning boards and danger plates shall be provided on both sides of the controller casing. Sheet steel used for controller cabinet shall not be less than 18 gauge and shall be properly braced, where necessary. Suitable gland-plate shall be provided for cable entry. The battery for the charger unit shall be suitably placed in the machine room/agreed place.

All sheet steel work shall be surface- treated and painted with two coats of synthetic enamel paint of suitable shade, both inside and outside, over two coats of zinc primer.

u. **PAINTING**

All exposed metal work furnished in these specifications, except as otherwise specified, shall be given one shop coat of anti-corrosive primer after approved surface treatment of metal surfaces and two coats of approved enamel paint of approved shade. Minimum DFT specified shall be met for each coat of paint. Painting shall be guaranteed to last for the guarantee period specified. All recommendations of the Paint Manufacturer shall be strictly complied with.

**14. WORKS TESTS**

The following tests shall be carried out at Works. The Engineer-in-Charge shall be given notice of the time and procedure of the tests before they are carried out, and shall be given facilities for observing the tests at Works. Contractor may specify the tests he will be able to show in the factory.

- a. High voltage works tests of equipment, which is not already tested in accordance with appropriate IS codes.
- b. Buffer test.

**15. TESTS ON COMPLETION**

The following tests shall be carried out to the satisfaction of the Engineer-In-Charge.

- I. Insulation resistance and earth test for all electrical apparatus.
- II. Continuous operation of the elevator under full load conditions and simulated starts and stops (150 nos. per hour each) for one hour at the end of which time the service temperature of the motor and the operating coils shall be tested. This shall be as per I.S. specification.
- III. The car shall be loaded until the weight on the rope is twice the combined weight of the car and the specified load. The load must be carried on for about 30 minutes, without any sign of weakness, temporary set or permanent elongation of the suspension rope strands.



IV. The following items shall be tested:

- a. Levelling accuracy at each landing in conditions of fully loaded and empty car.
- b. No load current and voltage readings both on 'Up' and 'Down' Circuits.
- c. Full load current and voltage readings both on 'Up' and 'Down' Circuits.
- d. One and quarter load current and voltage readings both on 'Up and 'Down' Circuits.
- e. Stalling current and voltage and time taken to operate overload.
- f. Overload protection.
- g. Gate sequence relays, if provided and installed.
- h. Car and landing door interlocks.
- i. Collective control and priority sequences, if installed.
- j. Safety gear mechanism for car and counterweight with fully loaded car and also with only 68 kg load.
- k. Speeds on Up and Down travel with full load, half load and empty car.
- l. Door contacts.
- m. Final terminal stopping device.
- n. Normal terminal stopping device.
- o. Car and counterweight buffers with contract load and contract speed.
- p. Operation of controllers.
- q. Manual operation of elevator at mid-way travel.
- r. Emergency operation.
- s. Phase failure and Phase reversal test.
- t. Any other test necessary.
- u. Inspection test plan (as given below).

	Tests	Reference Documents	Sample size	Scope of Inspection Employer/ Contractor Consultant/ Remark Third Party		
A	Type Tests					
	For Control Panel					
i	Temperature rise test	IS13947,IEC 60947		W	R	
ii	Dielectric Properties	-do-		W	R	
iii	Short Circuit withstand capacity	-do-		W	R	

iv	Verification of IP protection	-do-		W	R	
	For Motor					
i	Type Test Certificate	IS 8789		W	R	
B	Routine Tests					
	For Control Panel					
i	Routine Test Certificates	As per relevant IEC	100%	W	R	
	For Motor					
i	Routine Test Certificates	As per relevant IEC	100%	W	R	
C	Site Tests					
i	Insulation resistance test and HV test	ISI4665	100%	W	R	
ii	Operation and Interlock sequence test on control circuit	- do -	100%	W	R	
iii	Earthing continuity tests	- do -	100%	W	R	
iv	Test to determine that the motor, brake, control equipment and door locking devices and limit switches function correctly.	- do -	100%	W	R	
v	Brake to be tested to check whether it can sustain a car at rest with 125% of rated load.	- do -	100%	W	R	
vi	Test to determine that the car raises and lowers at rated speed.	- do -	100%	W	R	
vii	To test whether the lift car achieves the rated speed.	- do -	100%	W	R	
viii	To test whether the safety gear stops the lift car with rated load (Overspeed test)	- do -	100%	W	R	
	Note:					
	1) W = Witness, R = Review.					

v. Tests on completion shall also be performed to the satisfaction of Inspector of Lifts.

#### V. STATUTORY APPROVALS

All statutory approvals from commencement to commissioning of elevators including licence for operation of the lifts shall be obtained by the Contractor from the Inspector of Lifts and other Authorities. However, the Employer will provide all necessary assistance for providing documents, drawings and certificates pertaining to other contractors, if required.

The Employer shall reimburse necessary statutory fees in connection with the approval of installation of elevators.

## **16. FEATURES REQUIRED FOR VVVF ELEVATORS**

### **a. Group / Independent / Attendant Operation**

It shall be possible to group specified cars in a group with dynamic disposition of cars as required by the traffic pattern. A smart car dispatching system with ring communication shall be provided for optimum passenger comfort and elevator performance under all traffic conditions. Any defective car shall be automatically eliminated from the group.

Each car shall be provided with a keyswitch for independent operation housed in a service cabinet. In this mode, the elevator shall respond only to car calls. Hall calls will not be registered.

It should be possible for an attendant to operate any car. Group indicator panels shall be provided in the Main Lobby at Ground Floor and in the machine room to indicate the working of all the lifts in the group (Not applicable).

### **b. Fireman's Switch**

A fireman's toggle switch shall be provided in a break glass for the specified elevator at ground floor to enable firemen to bring the elevator non-stop to ground floor from any location and to cancel all calls until the car is operated on attendant control. The Fireman's switch shall bring other two lifts also to ground floor and will remain there with doors open.

### **c. Emergency Power Operation**

In case of power failure, Automatic Rescue Devices shall bring the elevator safely to the nearest landing and open the doors till power supply is restored and then permit operation of one or more Elevators on emergency power. Standby genset power shall also be supplied to car lights, fan, alarm and intercom (The generator set will be installed by the Employer).

In addition to the standby genset power, a trickling battery shall be provided to supply power to emergency light fixtures, alarm and intercom.

### **d. Profile Generator**

A profile generator or similar device shall be provided to use the car at an optimum speed level and to improve leveling accuracy.

### **e. Data Storage and Retrieval**

Data from daily operations shall be stored in the control system and shall be retrievable.

Data shall include all particulars of calls, mode of operation, door open/close, acceleration / deceleration, stops, status etc. The contractor shall specify in his offer the full capability of his system in this regard.

It should be possible from such retrieved data to prepare an up-dated traffic analysis at any time.

### **f. Predictive Car Selection**

Once a hall call is registered, a dynamic car algorithm shall transfer the call to an optimally selected car to provide the maximum traffic efficiency.

### **g. Anti - Nuisance**

If number of calls registered is in excess of corresponding car load, all car calls shall be cancelled.

### **h. Car call cancelling**

Pressing a button twice shall cancel a car call.

i. Home Landing Facility

A car shall return to a pre-determined landing after the last call is answered.

j. Fire Alarm Home Landing (Through BMS)

The contractor shall provide only potential free contacts and communication ports for fire alarm home landing through BMS.

k. Load Non stop

When the car load exceeds a predetermined limit, the elevator shall not respond to hall calls.

l. Parking shut - off

When the parking switch is turned on, the car shall proceed to a pre-determined parking floor answering calls on the way. Lights and fans shall then be automatically turned off and a " PARK " sign shall be displayed.

m. Separate door times

When a car responds only to hall calls or only to car calls, the door shall open for a shorter time than when responding to both car and hall calls.

n. Door Safety

Multi-beam infrared / ultrasonic electronics curtains shall be provided to scan the doorway and reverse the door closing in case of any obstruction.

o. Door Failure Operation

When an obstruction prevents a door from opening, the controller shall attempt its removal by repeated opening and closing, failing which the car shall travel to the next floor.

p. Double Door Operation

If both up and down calls are registered at a hall which is the last registering hall in the direction of the car, the elevator shall travel to that hall and open / close the doors. After this, the car shall reverse its travel and shall open / close the doors again unless no car calls are registered at that floor.

q. Nudging Door Operation

When the doors remain open for more than a predetermined period, a buzzer shall sound and the door shall close automatically.. The door sensing device shall be rendered inoperative but the Door Open button and the safety shoe shall remain operative

r. Self - Diagnostic Facility

The Controller shall perform self - diagnostic tests and report the health of the system.

The system shall take care of minor faults like door operation and motor overheating.

A universal service tool shall be provided in each machine room to assist technicians in quick pin-pointing of mal-function.

s. Car Failure Operation

In case of car mal-function, the system shall make a self - diagnostic check and then allow the car to travel to the nearest floor at slow speed, if safe.

t. Selective floor Service

Programming for selective floors services shall be software driven.

u. Manual Cranking and Slow speed Travel

A manual cranking facility shall be provided.

Slow speed operation shall be possible from machine room and car top.

v. Auto Fan Off

In case no calls are registered for a pre-set time, the cabin fan shall be automatically switched off.

w. Automatic Rescue Device

In case of mains power failure and elevator control system failure, the elevator's own rechargeable and maintenance free battery power shall move the car to the nearest floor and the door shall open automatically for automatic rescue of passengers. A battery run-down indicator shall be provided.

## 17. CONNECTIVITY TO BUILDING MANAGEMENT SERVICES

The Contractor shall provide potential-free connectivity and communication ports for all elevators to Building Management System.

## 18. PERFORMANCE PARAMETERS

The following parameters shall be achieved in the installation:

* Leveling Accuracy	$\pm 3$ mm for 1.5 m/s speed $\pm 4$ mm for 1.0 m/s speed
* Jerk level	0.9 – 1.5 m/s <sup>3</sup>
* Noise level in car	58 dB
* Noise level at 1 M in machine room	60 dB
* Acceleration rate	0.6 – 1.0 m/s <sup>2</sup> (adjustable)
* Max. Car vibration	20 mg.

## 19. SUBMITTALS WITH TENDERS

The following items are also required to be submitted in duplicate along with the tender.

- I. Catalogues with offered items highlighted, motor HP etc.
- II. List of imported components
- III. Compliance Statement for guaranteed performance parameters given in Specification 20.0 above and "Schedule of Elevators" below.

## 20. MAINTENANCE DURING DEFECTS LIABILITY PERIOD

Comprehensive maintenance during Defects Liability Period inclusive of periodic servicing, prompt attention to Employer's complaint, prompt rectification of all malfunctions and equipment failures, replacement of defective equipment/ parts, replacement of light fittings, lubrication including lubricants, maintaining correct alignment and levelling of cars and ensuring smooth running, starts and stops etc. all complete to Employer's satisfaction shall be done.

**Signature, Stamp and Name of Contractor**

**DECLARATION**

I/We have inspected the site SBI FLATS, MAIN BRANCH COMPLEX, INDORE of State Bank of India and I/We have made me/ us fully acquainted with the local conditions in and around the sites of works and Lay out drawings of works, drawings of each items etc. complete.

I/We hereby declare that I/ We have carefully gone through the conditions laid down in the Notice Inviting Tender, General notes, General Conditions of Contract, Special conditions, Schedule of approximate quantities and rates , Form of Agreement, General Specification, Approved manufacturers/ natural source of materials (i.e. all parts of Technical bid), Technical Specifications of schedule of quantities (i.e. all parts of Price bid), and clearly understood all the same and on the basis of the same I/ We have quoted our rates in the Schedule of Quantities/BOQ attached with the tender documents.

We accept all the terms and conditions of tender documents. We will abide by the technical specification mentioned in the tender. We here by undertake to use only specified material/ make as per the tender schedule.

I/ We hereby declare that, in particular during execution of all works at site; it will be my/ our sole responsibility to strictly adhere to/ meticulously follow the General Specification, Approved manufacturers/ natural source of materials, Technical Specifications of schedule of quantities, all drawings of layout and items.

For any type of deviation (to any of above or subsequent instructions), it will be my/ our responsibility to obtain the written instruction of the Engineer-in-charge for the same failing which it shall be deemed that I have carried out any such deviations at my own and I shall be duty bound to replace the all deviated material/ works from the site at my/ our cost as well as I shall be liable to penalized by the employer as deemed fit and for all such loses made thereof, I/ we shall not have any right to arbitrate in any manner.

I/ We hereby declare that I/ We shall obtain necessary drawings of items from employer in time and also shall uniformly maintain such progress as may be directed by the employer to ensure completion of same within the target date/ time as mentioned in the tender document.

Date:  
Tenderer

Signature and seal of Contractor/

**Witness:**

1.

2.

**NOTE: ANY CLARIFICATIONS SOUGHT AFTER OPENING OF THE TENDERS WILL NOT BE ENTERTAINED AT ANY COST.**

## Annexure-A

The steps involved in making the payment through SBI Collect are as under:-

1. The Vendor needs to use SBI internet banking site <http://www.onlinesbi.com/>.
2. Select **"SBI Collect"** from Top Menu, that will lead to the next page:
3. **"Proceed"** will lead to the next page"
4. Select **"All India"** in State of Corporate/Institution" & select **"Commercial Services"** in "Type of Corporate/Institution".
5. **"Go"** will lead to the next page"
6. Select **"SBI Infra Management Solutions"** in Commercial Services Name and "Submit"
7. Select **"Tender Application Fee"** in "Payment Category" and enter the **"Tender ID"** exactly as we preloaded with characters in Uppercase only in place of Circle Codes.
8. The next page will be ready with few of the Preloaded Tender Details:
9. The Vender will have to fill up the fields properly and upon making the payment a receipt will be generated with a Reference No.

**NOTE:** Any type of vender, whether dealing with SBI or other bank can use the SB Collect facility.

Even a contractor not dealing with any bank can use this portal and generate challan and deposit by cash in any SBI branch. The bank charges for cash deposit will be also borne by the vender himself.