INDIAN INSTITUTE OF MANAGEMENT LUCKNOW

SHORT NOTICE E-TENDER

for

CONSTRUCTION OF LIFT SHAFT (3 floors & pit) AND ASSOCIATED CIVIL & ELECTRICAL WORKS AND SITC OF 8 or MORE PASSANGER PWD FRIENDLY LIFT AT SAMADHAN BUILDING OF INDIAN INSTITUTE OF MANAGEMENT LUCKNOW

Signature of Tenderer

INDIAN INSTITUTE OF MANAGEMENT
LUCKNOW

Prabandh Nagar, IIM Road
Lucknow-226013

E-TENDER
SHORT NOTICE

NOTICE INVITING TENDER CONSTRUCTION OF LIFT SHAFT AND ASSOCIATED CIVIL & ELECTRICAL WORKS AND SITC OF 8 or MORE PASSANGER PWD FRIENDLY LIFT AT SAMADHAN BUILDINGOF INDIAN INSTITUTE OF MANAGEMENT LUCKNOW

To,
M/s

Sub.: Short NOTICE inviting E-Tender for CONSTRUCTION OF LIFT SHAFT AND ASSOCIATED CIVIL & ELECTRICAL WORKS AND SITC (SUPPLY INSTALATION TESTING AND CCOMMISSIONING) OF 8 or MORE PASSANGER PWD (PERSON WITH DISABILITY) FRIENDLY LIFT AT SAMADHAN BUILDING of IIM Lucknow.

This is in reference to the advertisement published on the e-procurement & IIM Lucknow website NIT No.– IIML/PROJ/4475/2025 Date: ..- 24.02.2025 for CONSTRUCTION OF LIFT SHAFT AND ASSOCIATED CIVIL & ELECTRICAL WORKS AND SITC OF 8 or more Passenger PWD FRIENDLY LIFT AT SAMADHAN BUILDING of Indian Institute of Management, Lucknow, Prabandh Nagar, IIM Road, Lucknow-226013.
Online Percentage Rate E-tenders are invited from Reputed Agencies/ Contractors in a Two-Bid System (i.e. Technical Bid & Financial / Price Bid) for work mentioned above in E-mode from Contractors (Indian Nationals Firms only) and free view NIT is available on Govt. E-Procurement portal i.e. **https://eprocure.gov.in**. The firms are invited, on behalf of the Director, Indian Institute of Management, Lucknow for the above works as per the details attached. The Institute invites you to participate and to send your bids as per the attached SHORT NOTICE inviting E-TENDER.
The price Bid has been prepared on percentage rate items for overall work expenditure. So lowest cost quoted by any Bidder will be **considered as the Lowest Base Rate of the work.** Detailed qualification and work award criteria are stipulated below in this Tender Document.
Interested agencies are requested to sign in only with DSC online (new users may obtain, User-ID, password and Digital Signature). The tender documents comprise of technical bid and a price bid. It is requested to download the Tender on acceptance of terms & conditions. The all documents of this tender, Blank/ unfilled price bid to be Signed stamped, and uploaded in the technical bid. Whereas the Price Bid may be filled in the prescribed M.S. Excel Macros format with Digital signed and uploaded on the E-Portal of Govt. E-Procurement site i.e. https://eprocure.gov. by using Digital Signature before the last date & time of submission as mentioned in the tender SHORT NOTICE. The credentials as listed below shall be uploaded online.

Sd/-
Chief Administrative OfficerFor
Indian Institute of Management

Signature of Tenderer

1.0 Memorandum

Name of work	:	CONSTRUCTION OF LIFT SHAFT AND ASSOCIATED CIVIL & ELECTRICAL WORKS AND SITC OF 8 or more Passenger PWD FRIENDLY LIFT AT SAMADHAN
Earnest Money	:	Rs.81,200/- (Rupees Eighty-One Thousand two hundred Only).
Tender Fee	:	NIL
Total Estimated Cost	:	Approximately (Inclusive of GST): = Rs.40,56,220/-
Period of Contract	:	8.5 months from the issue of the LOI.
Date of issue of tender document	:	24.02.2025
Date Pre-Bid Meeting	:	28.02.2025, 11.00 am
Last Date for submission tender document	:	06.03.2025, 3.30 pm
Date of opening of Technical Bid Opening	:	24 hrs from last date and time of Tender submission
Date of opening of Financial Bid Opening	:	The date for the opening of the financial bid will be intimated to the technically qualified bidders through the e-procurement portal.
Starting of work	:	Within 15 days from the date of the LOI issued.

Participating Tenderers are advised to visit the site before participating in the tendering process to see and clearly understand the Scope of work, Finishing and specifications requirements. Any request later for revising the rates/ scope of work/ specifications etc. on the grounds of misunderstanding by the contractor after the award of the work will not be accepted. The Technical and Financial bids should be uploaded only through the E-tendering process on CPP portal before the due date & time. If there is any query may contact on contact no. 0522-6696100

Sd/-

Chief Administrative Officer
For Indian Institute of Management Lucknow

BRIEF INFORMATION ON SCOPE OF WORK AND TIME LINES.

i. Overview:

- There is a requirement to provide lift in Samadhan Building to make is PWD (Person with Disability) friendly and to make all the floors accessible. So Construction of Lift Shaft and associated civil & electrical works and SITC of PWD (person with disability) friendly lift is required for Samadhan Building.
- Samadhan Building is a basement + 2 floor building.
- Tender Drawing are enclosed for better understanding.
- The Lift shaft will be constructed towards South side of the building. This will require modifications in the existing Samadhan Building. The Shaft will be adjacent to the building separated by a expansion joint. The Area will require dismantling, proper supporting of the existing structure and may require retrofitting of and affected Structure which needs dismantling for proper placement of the lift shaft as per the requirement. Further, the foundation of lift may foul with the existing Building foundation. The contractor will have to work under such situation providing full protection to the structure. No any extra cost will be given for such extra precautionary work. Samadhan Building have various Key offices and Chief Administrator Officer office. So Proper precautions while execution are needed to be taken. Any Noise, Dust etc. to be avoided. Proper enclosure of the construction site is must and all the safety rules has to be followed. **At times/ always there may be the requirement that the permission to work in the day is not allowed and the work has to be done during the non-working hours (early morning and late-night hours) and on Holidays so as to complete the work well within the stipulated time. The working Contractor should not claim for the extra time or Financial or any other compensation for working during these odd hours and Holidays.**
- If the contractor fails to complete the work within the stipulated time i.e. within 8.5 months from the handing over of the Site or fails to work as per the quality specification and details or fails to mobilize the manpower and material as per the requirement of the schedule or intentional delays the work by pointing out irrelevant contractual points then the work can be taken over from the contractor on As Is Where Is basis and balance works can be got executed by L2/ L3/ L4 Bidder (if the bidder agrees to work on the L1 rates) as per the decision of the Director. In case any other Bidder does not agree to work on L1 rates then the balance work will be executed at the risk and cost of the working Contractor.
- As mentioned above, the building where work is to be done is already office Area. So the Contractor has to make the proper arrangement for the isolation of the site from public reach and make sure less noise is generated during working hours of the Professors.
- The SITC work of LIFT is for Machine Room Less Lift and PWD friendly.

ii. **Scope of Work**:

- Dismantling the Brickwork, R.C.C. structure, Beams and Columns, Concrete/GRC Jali, Door/ windows etc. with proper precautions and cautiously by providing proper protection to the existing structure with required props etc. so that the lift shaft area can be cleared with full safety.
- Dismantling and shifting of the Outdoor units of Air-conditioning system with proper frame, piping on cable racks etc. complete and servicing the A.C. system also and the properly commissioning the A.C. System.
- Dismantling and removal of any other electrical/ Civil fittings, equipment's and fixtures etc.
- Excavation of the Lift pit with proper Shoring/ Open Timber support to prevent the adjacent earth from collapsing. Due care has to be taken while excavating adjacent to the existing structure to save the existing structure as the soils is sandy in nature.
- It may happen that any underground service may foul with the proposed new construction, contractor will have to shift that service as per the BOQ rates only no extra cost as compensation will be made.
- Properly enclosing and isolating the construction site.

- Disposal of the dismantled material/ Debris/ Malba/ Rubbish etc. to the desired location as instructed by the Engineer-In-Charge after bifurcating the serviceable and unserviceable items from stack.
- Construction of Lift Shaft as per the Structural Drawings, properly water proofing, providing drainage etc.
- Finishing the Lift shaft and completion of Associated Electrical Works.
- Supply Installation Testing and commissioning of 8 Passenger PWD (person with disability) friendly Lift of Approved make and as per the Specifications given in the Tender Document.
- Closing the Expansion Joints etc.
- Providing, laying and termination of cable as per the Requirement from Mani panel to Lift D.B and Providing and fixing of LIFT D.B. are also in the scope of the contractor.
- Providing Proper Earthing and Lightening Arrestor system etc. as per the Requirement of the LIFT OEM is also in the scope of the Contractor.
- Scope also includes providing and fixing of any Foundation/Hoist way/ Channel/ Rails/ Door channel/ perimeter angle etc. what soever required for proper installation of LIFT as per the safety norms.
- Contractor will ensure that the work is done as per applicable CPWD specifications and Electrical Safety norms and Uttar Pradesh Lifts and Escalators Act, 2024.
- Contractor will engage a Licensed electrical contractor for electrical works and arranging the Required NOC/ Licensee/ Registration for operation of the lift (as per Applicable rules and regulations in Uttar Pradesh) is in the scope of the Contactor.
- The Contractor will coordinate with the LIFT OEM and get the size of Lift pit etc. crosschecked before construction of the Lift Pit and Shaft so that if any correction is needed in the Drawing, then the same can be revised. Further Any associated Civil works are required to be done for installation of the lift (such as construction of Ventilator/ cutout in the wall for Lift Machine/ making cutout for LOP Switch / fixing of channel/ fixing of hoist way/ fixing of liftin channel/ any other associated civil works), the same has to be done by the contractor without any additional cost.
- The Contractor will be required to coordinate with the Networking contractor and Computer center officials to avoid any Optical fiber damage during the excavation. In case the optical fiber cable gets damaged during the excavation then the splicing will have to be done by the contractor at his own cost and extra charges for splicing will be given.
- Qty. in BOQ are estimated and not exact. It is suggested to first check the actual Qtys. of material required as per the actual measurements and then procure the material during the execution as any claim related to the procurement of excess/ less material based on BOQ Qty. will not be considered.
- IT is the responsibility of the contractor to deal with the lift OEM, Manage its payments, Inspection, delivery, testing and commissioning etc. If any dispute arises in between the contractor and lift OEM then the same has to be resolved by the contractor himself without hindering the progress of the work.
  In case it is found that the progress of work is getting hampered because of dispute in between the contractor and OEM then Institute upon serving a 7 days' notice, can withdraw the SITC work of LIFT from the CONTRCTOR/ OEM and the same can be executed at the risk and cost of the Contractor.

Note: Bidders ae advised to visit the site and understand the type and quantum of work before quoting.

Eligibility Criteria

a) ANNUAL TURN OVER:

Average annual financial turnover during any There years from the last 5 financial years, ending 31st March 2024 of the previous financial year, should be at least Rs 100 Lacs. This Condition is Mandatory. The Bidder has to enclose documentary proof clearly indicating Turnover. In case the bidder attaches Charted Accountant certificate for certifying the Turnover then the Certificate being submitted should be carrying UDIN (Unique Document Identification Number) generated by ICAI (Institute of Charted Accountants of India)

b) The Bidder should have experience of working with any Government Organization/ PSU/ IIM/ IIT/ NIT/ Any Government Institution. This Condition is Mandatory.

c) The Bidder Should have Experience in execution of Construction of Multi Storied Building (more than 2 floors) in any Government Organization/ PSU/ IIM/ IIT/ NIT/ Any Government Institution **OR** in any registered Private Limited Organization having Turnover more than 100 Cr in any of the last 5 financial years. As is published by the company in its Annual Financial Report. This Condition is Mandatory.

c) EMD: Earnest Money Deposit as specified in NIT to be furnished in any of the following forms and shall be valid up to 90 days from the last date of submission:

- FDR/ Demand Draft/ Bankers Cheque / Pay Order/ Bank Guarantee payable to-Indian Institute of Management Lucknow, from any Nationalized Bank/ Scheduled Bank payable at Lucknow**,** & Deposition of EMD through any other form will not be accepted. **The scanned image of earnest money deposit/ MSME certificate (In case the Bidder is taking relaxation in EMD) to be uploaded online along with the Technical bid and the original of EMD deposition proof should reach through speed post or email or courier to the address mentioned below so as to reach Latest by 12:00 Hrs on the last date of submission of tender**. However, the details of DD no. date etc. to be provided in the technical bid. In case needs exemption under MSME criteria then a valid MSME certificate is required to be uploaded on the e-procurement portal.
- Can be deposited in the below-mentioned Institute Bank Account and shared the UTR/ Transaction number and date of Transaction in the Technical bid and the copy of transaction receipt must be uploaded online on the portal with other documents. Those bidders, who are exempted from the deposit of Tender Fee & EMD (Earnest Money Deposit) must submit the relevant certificate to claim the exemption and mention 'Exempted' in the Technical Bid where the UTR number has been asked. In case the enclosed certificate is not valid or not acceptable to the Institute, the submitted bid will be treated as bid without Tender fee/ EMD and will be rejected.

Bank Account No.	07231450000294
IFSC Code	HDFC0000723
Name of Bank &Type of Account	HDFC/Savings

Exemption of MSME for Tender Fee will be as per the format available on CPP portal
This Condition is Mandatory

d) Tender cost (Non Refundable): NIL

Any correspondence should be addressed to

To,

The Chief Administrative Officer, Indian

Institute of Management, Prabandh Nagar, IIM

Road Lucknow (U.P.)–226013

e) EXPERIENCE:

(i) Experience of executing the Construction of Multi Storied Building (more than 2 floors) with any Central or State Government/ Public Sector/ Autonomous Institution/ IIT/IIM/NIT/ Registered Private limited having Turnover more than 100 Cr. As is published by the company in its Annual Financial Report (Registered means: Definition of Registered private limited company given by Ministry of Corporate Affairs on its website). Experience during last 5 years ending last day of month previous to the one in which tenders are invited should be either of the following.

i. **Three completed Similar works costing not less than Rs 16.22 Lakhs each.**

OR

ii. Two completed Similar works costing not less than Rs 24.34 Lakhs each.

OR

iii. One completed Similar works costing not less than Rs 32.45 Lacs each.

This Condition is Mandatory

Note:

(1) The work shall be completed as a whole. Partial value/ partial completion is not to be considered.

(2) The meaning of "Similar Work" for purpose of tender has been defined as "Experience in "Construction of Multi Storied Building (more than 2 floors)".

f) Copy of PAN/ GIR No. Registration certificate issued by income tax Authority. This Condition is Mandatory.

g) Copy of Certificate of GST number. This Condition is Mandatory

h) Constitution & legal status of firm :(Proprietary/ Partnership/ Limited): If the Bidder is Pvt. Ltd. Company then the memorandum of Article and Association and Authorization of the person signing the Bid has to be submitted. This Condition is Mandatory.

i) Intending parties are required to submit an undertaking that their firms have never been debarred / blacklisted by any Government/ Public sector department. And there is no criminal case on the Proprietor/ partners/ Any of the Directors in any Police station of any court of India. This undertaking is to be given in the following format:

Undertaking to be furnished by the intending Tenderers: - I/ We declare

and confirm that: -

i) I/ we have never been blacklisted/ debarred from any Govt./ Public sector enterprises/ Autonomous Body/ IIM Lucknow in minimum last 5 years.

ii) There is no Arbitration case/ legal case/ dispute of my firm with Indian Institute of Management Lucknow.

iii) There is no criminal case on me/ and my partner/ board of directors is there in any court/ Police station of India.

iv) All the information and attachments submitted in the tender document/ envelope are true and correct.

v) There is no suppression or concealment of information / document with regard to execution of work during the last 05 years.

v) I/ We are aware that any false information provided herein will result in the rejection of my tender at any stage.

This Condition is Mandatory.

j) **The Bidder is required to submit the Local Correspondence details of his Main/ Branch office at Lucknow so that any Official correspondence required can be done locally through registered post.** This Condition is Mandatory.

k) **The Bidder are also required to inform email address which is regularly checked by the bidder for communications**. This Condition is Mandatory

l) Registration with IIM/ PWD or other Organization: If any available with the Bidder. This Condition is not Mandatory.

m) Valid Registration with Labor Dep't: If Applicable as per the applicable labor law. This Condition is not Mandatory.

n) Registration with P.F. and E.S.I. Departments (If applicable). This Condition is not Mandatory.

o) The Bidder is required to submit the Authorization from OEM of Lift that

p) The Bidder is required to submit the undertaking/declaration as per enclosed format from the OEM of LIFT that they will provide support of spares & services for a minimum period of 15 to 20 years. This condition is mandatory.

Note: a) Condition L is not Mandatory for Technical Qualification.

b) Condition m & n are also not Mandatory for Technical Qualification but the Bidder will have to clearly mention the Applicability/ Non-Applicability of these Registrations as per the Govt. Rules. If the Bidder mentions that the Registration Labor/PF/ESI is Applicable, then he must mention the registration no. and attach scanned copy of his Registration. The Bidder will be responsible to cater for all the Applicable Labor Laws, Maintenance of registers etc.as per labor law.

(Signature of contractor)

3.0 INSTRUCTIONS TO TENDERERS

3.1 Indian Institute of Management shall not be bound to accept the lowest tender and reserves the right to reject any or all the Tenders without assigning any reason at any stage of Bidding.

Most of the rates considered in the BOQ are as per the Current AMC which is DSR 2023 minus 18 % (inclusive of GST) few rates are as per the actual rates/ Quotation collected. So the Bidders are advised to thoroughly see the item and rate before quoting.

The Rates are inclusive of Scaffolding etc. required to work at all Height for every item.

3.2 Tender Documents shall be duly filled & uploaded within the last date of submission as mentioned in the tender NOTICE. Late tenders and conditional tenders shall not be accepted. The last date for receipt of Tender will not be extended under any circumstances, unless otherwise the date is declared a holiday for IIM Lucknow, in which case the next working day will be treated as the last date of receipt of Tender document.

3.3 Financial bid must be filled and submitted in the prescribed formats given on the CPP portal separately. A sample format of the Financial bid has been attached with the Technical bid just for the understanding of the bidders. This is required to be kept blank and just signed and stamped along with the other documents of this Tender. If filled in financial bid is found along with the Technical bid of this Tender, then the Tender shall be straight away rejected.

3.4 Tender must be valid for a minimum period of 120 days from the date of opening. If the Tenderers modifies his tender or revokes the same during this period, the tender may, at the discretion of IIM Authorities, be treated as non – bonafied and cancelled and earnest money will be forfeited.

3.5 This being a **percentage rate contract**, the rate quoted shall remain firm and errors if any in the extension / total shall be subject to corrections. The Estimated quantities/ Amount of Work involved stipulated above/ in the price bid are approximate and hence any reduction / increase thereof during the currency of the contract shall not vitiate the contract. The approximate estimate value of this work is indicated in NIT. This estimate is however no guarantee and is merely given as rough guide. If the work costs more or less, Tenderers will have no claim on that account.

3.6 This is a Percentage Rate Tender. Percentage Rates to be quoted above or below the estimated cost shall be applicable to each and every item rate given in the price bid format. The rate quoted by the tenderer shall be the total sum of material & labor at the IIM Lucknow campus, Lucknow including of GST and all other Taxes/ duties etc.

The rates given in BOQ are just reference rates and are inclusive of GST component applicable as on date. So whatsoever percentage below or above quoted by bidder shall be inclusive of GST @ 18% as applicable for each and every item. **The reverse calculation of GST component from the overall billed amount will be done while processing the bill**. GST TDS (CGST, SGST) of 2% shall also be deducted from each and every bill of contractor. (please read the BOQ items thoroughly as some requirements as per the site had been added in the item specifications of the BOQ).

In case there is variation occur in GST rates as per Govt. of India i.e if GST variation in rate is above 18% then additional percentage above 18% (Applicable rate% - 18%) shall be paid by the Institute and if GST variation in rate is reduced from 18% then the percentage difference below 18 % (18 % - Applicable Rate) will be recovered from the contractor. The ref rate 18 % is for all items of BOQ .

The Rates are inclusive of Scaffolding etc. required to work at all Height for every item.

3.7 If any discrepancy / misprint is Noticed in specification or BOQ or rates, it should be clarified from the Institute before quoting the rate.

If any discrepancy in between the price bid format of this Tender document and macros enabled excel file of the actual price bid on CPP portal is observed by the Bidder or if any item unit/ rates are found illogical/ impractical then in that case the same has to be brought to the notice of the Institute before the last date of submission. So that the required correction/ corrigendum can be made. If such issue is found at the later stage after award of the work either by the Contractor or by the Institute, then the logical decision based on the standard practice and as per the Institute's internal documentation shall be taken by the Institute and the same decision will be binding to the contractor and no claim whatsoever will be entertained in this regards

3.8 Following procedures shall be adopted in case of difference in quoted rates in figures and words and extensions:

a. Where there is difference between rates in figures and the rates, quoted in words shall be considered as correct.
b. Where the amount of an item is not worked out or it does not correspond to the rate either in figure or in words, the rates quoted in words shall be considered as correct and necessary extension made.
c. Where the rate quoted by the tenderer in figures and in words tally, but the amount is not worked out correctly, the rates quoted by the tenderer shall be considered as correct and amount shall be corrected accordingly.
d. In case there is discrepancy in between the unit/ rate/ rates of any/ some items stipulated in Financial bid and sample price bid enclosed with the Technical Bid, the same has to be brought to the Notice of the Engineer in charge and his decision will be final and binding to both the parties.

3.9 The Indian Institute of Management, Lucknow do not bind themselves to accept the lowest or any other tender and reserve the right to accept or reject any or all the tenders either in full or in part without assigning any reason.

3.10 The tender shall be opened & evaluated by the tender opening committee and the successful tenderer shall be informed. Decision of the Tender Opening Committee will be final and binding. Claim by any bidder consider/ reconsider the qualification of his or any other participant bidder after declaration of the Technically Qualified bids will be straightaway rejected.
Further, if it is found that any bidder is intentionally making false claims in order to either to get the award of the work or to get any other participant bidder disqualified then this bidder will be debarred permanently from bidding with IIM Lucknow.

3.11 If a n y of t h e document submitted by the tenderer is found fake, even after the acceptance of tender, the contract will be terminated for which the concerned tenderer will itself be responsible and no compensation, etc., will be paid by the IIM, Lucknow.

3.12 The Director, Indian Institute of Management, Lucknow has reserved the right to reject one or all the tenders without assigning any reason. No claim, whatsoever, shall be entertained on this account.

3.13 5% of the payable bill value of each work will be retained from each bill as defect liability period & shall be released after completion of Defect Liability Period. The Defect liability period will be 12 months except any item of Anti termite treatment and Water proofing work. The Retention money/ Security Deposit deducted above shall be refunded to the contractor after the completion of the stipulated Defect liability period. No interest shall be paid on this retention money/ security deposit.

3.14 This being Percentage Rate contract, the rate quoted shall remain firm and errors if any in the extension / total shall be subject to corrections. The Estimated quantities/ Amount of Work involved stipulated above/ in the price bid are approximate and hence any reduction / increase thereof during the currency of the contract shall not vitiate the contract. The approximate estimate value of this work is indicated in NIT. This estimate and Quantity however are not guarantee and merely given as rough guide, and if the work costs more or less or the Quantities varies to any extent plus or minus, Tenderers will have no claim on that account.

3.15 The tenderer shall not be at liberty to withdraw or modify his tender or any terms and conditions thereof before the expiry of said period. Tenderers are expected to clarify only such points as asked for specifically by the Accepting Officer in writing. Any withdrawal or modification made within the said period constitutes breach of contract and the tenderer shall be liable for damages to the Institute in consequence thereof. He shall in addition forfeit to the Institute, the EMD.

3.16 Any tender which propose any alterations to any of the conditions lay down or proposes any other conditions of any description whatsoever is liable to be rejected.

3.17 The EMD shall not carry interest and will be refunded to the tenderers, if the tender is not accepted, unless the same is forfeited to the Institute for any breach on his part. If his tender is accepted, the Earnest Money will be converted into Performance Security Deposit as stipulated.

3.18 The drawing (if any) should be returned along with the tender documents with duly signed.

a) The tender should be accompanied by a certified true copy of the power of attorney of the signatory of the documents.
b) Tenderers shall ensure that their tender is up loaded well in advance before the time and date stipulated in the tender notification/documents.

3.19 Under no circumstances will a Father and his Son(s) or other close relations who have business dealing with one another be allowed to tender for the same contract as separate competitors. A breach of this condition will render the tender of both parties liable for rejection.

3.20 The submission of a tender by a tenderer implies that he has read all the terms and conditions of contract and has made himself aware of the scope and specifications of the work to be done and local conditions and other factor bearing on the execution of the work.

3.21 The agencies whose contract were terminated/ are in litigation with IIM Lucknow or are debarred on account of nonperformance in IIM Lucknow's work or have any criminal case in any police station/ court of India will not be eligible for bidding this tender.

3.22 Since this is an electronic mode of tendering, any manual or mechanical errors committed before uploading or during the process of uploading the document shall bound to be duly accepted by the Tenderers. The Tenderers shall not have claim whatsoever in this regard.

3.23 Tenderers are required to make the DATA ENTRY of the Percentage Rate in figure and rate in words, which will be applicable to all the items stipulated in Price Bid in the prescribed format as given in part B of the Tender (financial bid).

3.24 The Tenderers shall download and sign the LETTER OF UNDERTAKING of the document and upload the same along with other documents.

3.25 Tenders of those Tenderers who fulfill the criteria mentioned above will only be considered for opening of Price Bid. Tenders received without earnest money/ copy of MSME certificate (for exemption of Earnest Money Deposit) or those which are incomplete or invalid or conditional will be rejected and no correspondence will be entertained in case of rejection.

3.26 Contractors / agencies are subject to be disqualified, even though they meet the qualifying criteria, if they make misleading or false representations in the request, statements and attachments submitted in proof of qualification requirements including holding information and or have record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures, requesting for claims not admissible under the contract conditions, etc..

3.27 All dispute and discrepancies relating to this tender shall be governed by law of India and shall be subject to jurisdiction of court at Lucknow U.P. state.

3.28 The Institute reserves the right to accept any tender either in full or in part, to reject all the tenders or distribute the work in more than one agency without assigning any reason. Decision of the Institute in this regard shall be final and binding to the Bidder. The bidder/ bidders in such case cannot claim any compensation for change in the scope / Qty. of work.

3.29 These instructions to Tenderers shall be deemed to form an integral part of the contract to be entered for this work.

3.30 GST/ Taxes:

GST or any other tax applicable in respect of inputs procured by the contractor for this contract shall be payable by the Contractor and Institute will not entertain any claim whatsoever in respect of the same.

Rates are inclusive of GST.

In case there is variation occur in GST rates as per Govt. of India i.e if GST variation in rate is above 18% then additional percentage above 18% (Applicable rate% - 18%) shall be paid by the Institute and if GST variation in rate is reduced from 18% then the percentage difference below 18 % (18 % - Applicable Rate) will be recovered from the contractor. The ref rate 18 % is for all items of BOQ.

3.31 Where the tender schedule contains special items of work, it will be entirely at the discretion of the Institute to delete these items from the Price Bid and allot these items of work to other Contractors specialized in these works. In such cases, the main Contractor will have to render all necessary co- operation to the other agencies involved so as to ensure smooth progress of all work.

3.32 The Contractors responsibility for this contract shall commence from the date of commencement mentioned in the work order which will be issued by the Engineer-in- Charge after acceptance of work.

3.33 If the tenderer deliberately gives wrong information in his tender or creates conditions favorable for acceptance of his tender, the Accepting Officer reserves the right to reject such tender at any stage, forfeit the EMD, and take Administrative Action against the tenderer like non-issue of tenders etc., as deemed fit by the Accepting Officer.

3.34 At any time, even after award of contract also, if it will be found that the tenderers have deliberately given wrong information or false credentials at the time of tender or at any other time in connection with the contract, IIM, Lucknow reserves the right to reject the offer or cancel the contract. And in such case the contractor/tenderer is liable to forefeet the EMD amount including any other action as deemed fit. The contractor / tenderer is also liable to be permanently debarred for participating in any tender process of IIM, Lucknow concerning to any type of work in future.

3.35 PRECEDENCE FOR ACCEPTANCE:

If any contradiction / variance is observed in different components of the tender, the following precedence shall be observed:

(i) Site instructions on the Site instruction Book shall precede over the Tender SHORT NOTICE and Instructions to Tenderers.

(ii) Tender SHORT NOTICE and Instructions to Tenderers shall precede over Special condition.

(iii) Special Conditions shall precede over General Conditions of Contract.

General Conditions of Contract are available on the IIM Lucknow web site and at the IIML office and shall be the part of the contract. Successful bidder will be required to submit the signed hard copy of the same After issuing of LOI to him before start of work.

In regard to the conditions, specifications, approved makes and mode of measurement not covered above, those contained in DSR 2023/ DAR 2023/ CPWD / Specification shall apply.

However, the Engineer-In-Charge shall be sole deciding authority with regard to the intention of the document and his decision in this respect shall be final and binding on the contractor.

3.36 The tenderer shall not increase their quoted rates in case the Accepting Officer negotiates for reduction in rates, such negotiations shall not amount to cancellation or withdrawal of the original offer and the rates originally quoted shall be binding on the tenderer.

3.37 It is expected the contractor possesses the Delhi Schedule of Rates 2023, DAR 2023, Latest CPWD Specifications, Latest CPWD works manual.

3.38 Rate quoted to include:

a) Working hours as per office timings, over Time, Late night and early morning working.

b) Movement of men, material and stacking all as directed by the Engineer-in- Charge.

c) Removing the items for reuse Such as Door/ Windows/ JALI, any equipment/ fixture, Lights, Curtain rods etc. safely and keeping them in safe custody and reinstalling them at desired location after completion of the work.

d) Removing of surplus materials and stacking all as directed by the Engineer-in-Charge.

3.39 Before tendering the tenderers are advised to inspect the site and its environments and be well acquainted with the actual working, restrictions in campus area, security procedures for entry of men and material, prevalent conditions, position of materials and labor, General and Special Conditions of contract, Instructions to Tenderers, drawing (if any) and Specifications, DSR and all other documents which form part of the agreement to be enlisted into.

3.40 In the event of a tender being submitted by a Partnership Firm the tender must be signed separately and legibly by each partner member of the Firm or in their absence a person holding the power of attorney on behalf of the Firm concerned. In the latter case, a copy of the power of attorney duly attested by a Gazette Officer must accompany the tender.

3.41 The successful tenderer shall submit additional Initial Performance security of 3% of Contract Value in case EMD was submitted. The EMD submitted in this case will also be converted to performance security. In case the Exemption under MSME is given for EMD then 5 % of the contract value has to be submitted as performance security in form of DD/FDR/Bank Guarantee in favor of Director, Indian Institute of Management, Lucknow within 15 days of award of work. A maximum Grace period of 2 Days will be given after levy of penalty equal to 1 % of performance security value per Day. If in case after 17 days of issue of LOI the Performance security is not deposited unless otherwise any extension had been granted by IIM Lucknow then the Work awarded/ LOI issued will be straightaway considered as Terminated.

Similarly Agreement on Rs 100 stamp paper will be required to be executed withing 15 days of issue of LOI and if the contractor fails to get the agreement done within 15 days unless otherwise any extension had been granted by IIM Lucknow then the Work awarded/ LOI issued will be straightaway considered as Terminated.

The performance security (3%+2%) shall be released after 30 Days of satisfactory completion of contract which is 8.5 months or the extended period of contract whichever is last.

The Chief Administrative Office

For Indian Institute of Management Lucknow

PART-A

(TECHNICAL BID)

TENDER Declaration

I/We have read and examined the NOTICE Inviting Tender, schedule, Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for IIM Lucknow within the time specified, viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing.

I/ We agree to keep the tendered rates valid till 120 days from the date of opening of tender and not to make any modifications in its terms and conditions.

A sum of Rs. 81,200/- is hereby Deposited at call Receipt of a Scheduled Bank/Fixed deposit receipt of scheduled bank/ demand draft of a scheduled bank/ bank guarantee issued by scheduled bank as earnest money.

OR

I/We had submitted a self-attested copy of valid certificate as a proof of exemption from submission of Earnest money deposit.

If I/we, fail to furnish the prescribed performance guarantee/ execute the Agreement or fail to commence the work within prescribed period, I/we agree that the IIM Lucknow or its successors in office shall without prejudice to any other right or remedy be at liberty to forfeit the said earnest money absolutely. Further, if I/we fail of commence work as specified, I/we agree that IIM, Lucknow or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations/ additional/ extra items as may be ordered as per the provisions in the Contract.

Further, I/We agree that in case of forfeiture of earnest money or both Earnest Money & Performance Guarantee as aforesaid or non-submission of Performance security and not executing the Agreement within the specified period then I/We shall be debarred for participation in this re- tendering process of the work. In this case the work awarded/ LOI issued to me/ us will be considered as terminated.

I/ we undertake and agree that in case the work is terminated/ rescind by the Institute because of violation of any condition of this tender document and its Annexures/ contract then the Performance security and retention money available with the Institute will be forfeited by the Institute.

I/ We undertake that in such case of termination after award of work/ issue of LOI my/ our firm can be blacklisted for next two years.

That I/ we had read the complete Tender document and understood the scope of work and agree to all the conditions given in this entire Tender document.

I/We undertake and confirm that eligible similar work(s) has/ have not been got executed through another contractor on back-to-back basis. Further that, if such a violation comes to the NOTICE of Department, then I/we shall be debarred for tendering in IIM, Lucknow in future forever. Also, if such a violation comes to the NOTICE of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/ Performance Guarantee.

I/We hereby declare that I/we shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information derived therefrom to any person other than a person to whom I/we am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated

Signature and Stamp of contractor/ Agency

Postal Address **

PROFILE AND DETAILS OF BIDDER

(Required to be filled by the Bidder either handwritten or typed)

S.no.	Description	Details to be filled by the Bidder.
1.	Name of Firm/ Company	
2.	Name of owner	
3.	Year of Establishment	
4.	Telephone number, Mobile no., Email Address which are in current use.	
5.	Address of the firm (where Registered post can be sent)	
6.	Details of the EMD Deposited or Exemption for MSME Claimed:	
7.	Annual turnover for last 05 years (As per ITR filed). If The C.A. Certificate/ Audit statement is being attached as a proof of Turnover, then the same shall carry UDIN generated by ICAI.	
i	2019-2020	
ii	2020-2021	
iii	2021-2022	
iv	2022-2023	
v	2023-2024	

8.	Details of Multi storied Building (More Than 2 floors) Constructed with Government/PSU/ Autonomous Body OR Private limited firm (which has achieved than 100 cr. Turnover in any of the last 5 last financial years ending 2023-24 as per the published Annual Financial report of the company)	
	No. of works completed in Five Years with value & Details of works	
i		
ii		
iii		
iv		
v		
10.	Firm/Company registration details of following:	
a	Registration No.	

b	GST Number	
c	Income Tax No. (PAN)	
d	Labour License No.(if Applicable)	
e	P.F. No. (If applicable)	
f	E.S.I. No. (If applicable)	
g	Establishment Details of the company (Proprietary/ Partnership/ Limited)	
11.	Local Address of Correspondence at Lucknow (Where Registered post can be sent)	
12	NAME of OEM to execute the SITC of Lift and its Authorization to the Bidder for Bidding in this Tender	
13	Declaration for Service and Spare parts Support from the OEM for 15 to 20 years enclosed? Yes/No	

Certified that the above information is correct to the best of my knowledge. Further, my above firm and I/We have not been black listed / Disqualified/ debarred from any of the Government/ Semi Government/ PSUs or Any other agency.

Signature of the Bidder
Name of Bidder & Seal

DOCUMENTS TO BE SUBMITTED WITH TECHNICAL BID

- Duly signed and stamped tender document on each and every page.

- Proof of Payment of EMD: An MSME Certificate /EMD in shape of demand draft/ FDR/ NEFT made to IIML amounting to Rs 81,200/- (Rupees eighty one thousand two hundred Only) drawn in favor of Director Indian Institute of Management Lucknow.

To avail Exemption on EMD as per Govt. norms. Provide that in writing on firm/Vendor letter pad and certificate issued by govt. to avail the exemption like EMD and mention in the above format.

- PAN/ TAN/ GIR

- GST Registration details

- Experience certificates for the works completed in the last five years ending on end of last Month from the date issue of this Tender Document clearly indicating the value of work, period of execution and satisfactory performance.
- Memorandum of Articles and Association in Case the Bidder is Pvt. Limited company.

- Signatory Authority Letter in case the Bid is signed by person other than proprietor/ partner/ Owner of the firm/ company

- Document to confirm the turnover during last 5 years i.e. 2019-20, 2020-21, 2021-22, 2022-23, 2023-24 along with Income Tax Returns.

- Authorization letter in the name of official submitting the bid, if any.

- Undertaking in the format prescribed above by the bidder that they have not backlisted by any office/ dept. Of Central/ State Government/ PSU/ IIM Lucknow/ and there is no criminal case.

(Signature of the bidder along with seal)

Note: -

(a) All the documents must be ssigned by bidder/ authorized signatory.
(b) Documents must be numbered.
(c) Documents should be in sequence mentioned above.
(d) If bidder is registered as MSME and claimed exemption from submission of tender document fee and EMD then relevant and valid document must be submitted.

Mile Stones

S.no.	Mile stones	Period of Completion months from the date of LOI.
a.	Submission of Performance Security	15 Days (without penalty)+ 2 Days (with Levy of penalty @ 1 % of Performance security value per day)
b.	Execution of Agreement	15 Days
c.	Completion of the Structure for Lift Shaft	4.0 Months From Date of issue of LOI
d.	Completion of SITC of the LIFT and Complete building finishing including expansion joints etc. complete in all Respect	8.5 Months from the date of issue of LOI

GENERAL CONDITIONS OF THE CONTRACT

General conditions of the Contract are available at the IIM Lucknow web site and at Project Division Office. These conditions shall be the part of this contract. The successful Bidder shall be required to submit the signed hard copy of these General Terms and Conditions after issue of LOI and before starting of the work.

Special Conditions of the Contract:

4.1 **Name of the Work**: CONSTRUCTION OF LIFT SHAFT AND ASSOCIATED CIVIL & ELECTRICAL WORKS AND SITC OF 8 or more Passenger PWD FRIENDLY LIFT AT SAMADHAN BUILDING of IIM Lucknow.

4.2 **OWNER**

Indian Institute of Management, Prabandh Nagar, IIM Road, Lucknow-226013.

4.3 **ENGINEER/ENGINEER-IN-CHARGE**

Executive Engineer, IIML or any person designated from time to time by owner and shall include those who are expressly authorized by him to act for and on his behalf for operation of this contract.

4.4 **SCOPE OF WORK**

Detailed description of scope of work has been stipulated in the NIT above.

4.5 CONTRACT RATES

The contract rates are for work to be done in IIM Campus, Lucknow and shall be firm throughout the currency of the contract including the extended period, if any, and shall not be subjected to any escalation due to any reason whatsoever it may be.

No escalation claim shall be entertained for any statutory increase by the Local Authorities, State/Central Government during the contract period or delay not in the control of the Contractor or delay because of Force Majeure.

The Rates are inclusive of Scaffolding etc. required to work at all Height for every item.

The quantities mentioned in the financial bid are tentative. The rates quoted in tender and as accepted by the owner with or without modification shall hold good for any increase/decrease in quantities. Any of the items may be deleted as per directions of owner/Engineer-in-Charge.

4.6 LEVY/TAXES PAYBLE BY CONTRACTOR

Building and other Construction Workers Welfare Cess or any other tax, levy or Cess in respect of input for or output by this contract shall be payable by the contractor and IIML shall not entertain any claim whatsoever in this respect. The contractor shall deposit royalty and obtain necessary permit for supply of the red bajri, stone, kankar, etc. from local authorities (If Applicable as per the Applicable law of land). If pursuant to or under any law, notification or order any royalty, cess or the like becomes payable by the Institute and does not any time become payable by the contractor to the State Government, Local authorities in respect of any material used by the contractor in the works, then in such a case, it shall be lawful to IIM, Lucknow and it will have the right and be entitled to recover the amount paid in the circumstances as aforesaid from dues of the contractor.

Conditions for reimbursement/ recovery of levy/taxes if levied after receipt of Tenders

All tendered rates shall be inclusive of any tax, levy or cess applicable on last stipulated date of receipt of tender including extension if any. No adjustment i.e. increase or decrease shall be made for any variation in the rate of, Building and Other Construction Workers Welfare Cess or any tax, levy or cess applicable on inputs.

However, effect of variation in rates of GST or Building and Other Construction Workers Welfare Cess or imposition or repeal of any other tax, levy or cess, applicable on output of the works contract shall be adjusted on either side, increase or decrease. Provided further that

(i) That such increase including GST shall not be made in the extended period of contract for which the contractor alone is responsible for delay as determined by authority for extension of time.

(ii) The contractor shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by a duly authorized representative of the Government and/or the Engineer-in-Charge and shall also furnish such other information/ document as the Engineer-in-Charge may require from time to time.

(iv) The contractor shall, within a period of 30 days of the imposition of any further tax or levy or cess, or variation or repeal of tax or levy or cess/ reduction of such taxes/ cess etc. shall give a

written NOTICE thereof to the Engineer-in-charge that the same is given pursuant to this condition, together with all necessary information relating thereto. Decision of the Director of the Institute in this regard to either compensate/ recover the changes in the rates of taxes/ levy of cess etc. as the case may be shall be final and binding to the Contractor.

4.7 **ESI & PF CODE**:

The contractors are required to comply with the provisions of ESI & PF act as per applicability. The contractor shall be required to indemnify IIM for any liabilities arising on account of ESI & PF act.

4.8 The records / registers which Engineer- In- Charge considers necessary for monitoring the works & inspection by chief technical Examiner are to be maintained at site in co-ordination with Engineer-in- Charge and Agency.

4.9 **COMMENCEMENT DATE**

The date of commencement of work shall be 15 days from the date of issue of the Letter of Intent. The contractor shall have to submit Performance Guarantee as stipulated above within 15 days from the date of issue of Letter of Intent. The work shall be completed within the stipulated time frame. Any work not completed by the contractor/ executed in inferior quality/ unnecessary held up/ disrupted because of any irregularity whatsoever, Engineer In charge/ Competent authority of IIM Lucknow upon serving a 7 days' SHORT NOTICE shall be get work done by other agency at the risk and cost of contractor and the Contractor will have no claim for compensation in this regard.

4.10 **VARIATION IN QUANTITIES**

Quantities may increase/decrease 100% as per the actual work requirements of Institute. No claim or compensation what so ever shall be entertained in this regard.

4.11 **AWARD OF WORK: Deleted**

4.12 **PERIOD OF CONTRACT**

The period of contract shall be 8.5 Months including all holidays, Saturdays & Sundays from the date of L.O.I.

4.13 **SITE SUPERVISION**

a) Contractor will deploy one Diploma (Civil) Engineer having minimum 2 years' experience of supervision in similar jobs, at site during the actual course of work and having adequate computer skill. C.V. of the Diploma Engineer and a Supervisor to be submitted and Approval of CV to be taken from the IIM before actual work starts at site.

b) **PENALTY FOR NON-COMPLIANCE OF REQUIRED MANPOWER**:

A. Diploma holder with minimum Two years' experience = minimum Rs. 20,000/- per month to the maximum value as decided by the Competent Authority.

B. For Supervisor = minimum Rs.15000/- per month to the maximum value as decided by the Competent Authority.

4.14 **OFFICE ACCOMODATION FOR CONTRACTOR'S STAFF AND WORKERS:**

The Contractors shall at his cost provide, fit up and maintain in an approved portion office accommodation for his representative and Contractors staff and workers. However, suitable area identified as per the decision of the competent Authority will be allocated for the period of contract for the labor colony, Store and Office etc.

4.15 **LIQUIDATED DAMAGES**

Shall be 1% of the work amount (Calculated as per Tendered rates) per week subject to the maximum of 10% of work value.

4.16 **RUNNING ACCOUNT BILL**

The contractor shall prepare and submit the running account bills in Hard copy showing item wise quantities executed. The bills shall be submitted within one week from the date of completion of work failing which the bills cannot be considered unless the reasons for delay or non-submission are specified. Measurement of items completed in all respect only will be made.

Bidders have to continue the works uninterrupted as per the schedule during the processing of such bills and payments. Bidders are aware that the Bill processing to payment takes some time so any intentional/ unintentional delay in the work because of delay in the payment will not be accepted and any claim for compensation because of delay in payment will not be entertained.

For processing the final Bill, the contractor has to obtain:

- The User verification certificate for satisfactory completion of the work.
- Submit the necessary manufacturer Test certificates, Guarantee/ warrantee, As built drawings etc. as Applicable.
- Internal inspections/ external inspections/ Third party test/ Other Quality Control reports (if Applicable) especially for the water proofing works etc.

4.17 **SECURITY DEPOSIT**

a) Performance Security:

The tender should be accompanying Earnest Money as stipulated in Instruction to tenderer. No interest will be payable on Earnest Money.

The E.M.D. of the successful bidder shall be converted to Performance Security Deposit

The successful tenderer shall also submit additional Initial Performance security of 3% of Contract Value (in case EMD had been deposited)/ 5 % (in case exemption for EMD is taken) in form of DD/ FDR/ Bank Guarantee in favor of Director, Indian Institute of Management, Lucknow within 15 days of award of work. Performance security (EMD 2% + 3% of contract value) shall be released 30 days after satisfactory completion of the work.

b) Retention money/ Security Deposit:

Security deposit / Retention money 5% of the certified work value shall be deducted from each Running Account Bill of contractor. The Security deposit/ retention money shall be released 30 days after the satisfactory completion of defects liability period of the work. The Defect liability period will be 12 months except for water proofing works and Anti termite treatment works if any. The Retention money/ Security Deposit deducted above shall be refunded to the contractor after the completion of the stipulated Defect liability period except the retention money equivalent to 5 % of cost of the water proofing/ Anti Termite Treatment works if any, which will be released after 10 years of satisfactory completion of the water proofing works. No interest shall be paid on this retention money/ security deposit.

If successful tenderer fails to commence the work within 15 days from the date of issue of Letter of Intent, the Institute may reject the award of work and get the work done by engaging other agency.

4.18 **TESTING OF MATERIALS**

Samples of various materials required for testing shall be provided free of charge by the Contractor. Testing charges if any shall be borne by the contractor. All other expenditure required to be incurred for taking the samples; conveyance, packing etc. shall be borne by the contractor himself.

a) Regular mandatory test and any additional tests if required, shall be carried out in accordance with the procedure laid down in IS / as directed by Engineer-in-Charge by the contractor at his own cost.

b) The testing charges, including the cost of materials to be tested and all other incidental charges such as carriage to the testing laboratory etc., shall be borne entirely by the Contractor and the quoted rates shall be deemed to be inclusive of the same.

c) The Contractor may specifically note that the testing shall be done in Govt. / Govt. (NABL) approved laboratory only.

d) The Institute may also engage Third Party Quality Assurance (TPQA) Agency. In such case the contractor is required to extend his full cooperation in the testing and inspection as desired by the TPQA.

e) Any required rectification/ modification/ replacement/ re-execution required in case of defect/ poor quality pointed out by the TPQA/ Engineer in charge has to be done by the contractor at his own cost without any claim for compensation.

4.19 **INSPECTION AND TESTING**

The owner (IIM Lucknow) or his authorized representatives shall have full power to inspect the work or examine the material. Acceptance of any material shall in no way relieve the contractor of his responsibility for meeting the requirements of the specifications. The contractor shall afford and procure for the owner every facility and assistance to carry out such inspection/tests. The cost of any special tests and/or analysis not called for in this specification shall be borne by the contractor.

The Contractor will use Raw materials as approved by Engineer-In-Charge IIM, Lucknow. And shall keep manufacturer Test certificate of the material used (wherever applicable).

All works generally conform to relevant I.S. Code. Any work that do not conform to the Applicable I.S. code shall be redone at the cost of contractors.

The contractor is required to get the work which shall be hidden inspected, measured and photographed by the concerned Engineer/ officer before covering it up. The contractor has to keep the photographs of works being executed including the pics of steps involved in the execution of the works. In case certain quality check is required in these steps involved then the contractor should get it done.

4.20 **LABOUR CAMP**

The contractors at his own risk and cost shall establish the Labour Camps (as per labour welfare and saftey norms) outside the site premises as per the area allocated by the Institute. Contractor will have to make his own arrangement for staying/ accommodation for his manpower if staying outside the complex. Nothing extra shall be payable on this account.

4.21 Security Procedure:

For Security reasons the Contractor has to provide the details of Labour who will work such as Labor Name, Their photo Identity details along with the copy of each ID etc.to the engineer in charge. Copy of these documents will be submitted to Assistant Commandant Security at the main Gate. The Contractor has to follow the Institute's SOP as is maintained at the main gate for the entry and exit of any material, manpower, machinery etc.

4.22 **SAMPLES**

The Contractor has to get Approved the Sample of Tiles, Bricks, stone, Jali, Expansion Joint, False ceiling, fixtures, light, fan, Switches, Laminate, Paint, Carpenter and other Hardware fittings, wooden flooring and any other item before providing and fixing of these materials. The contractor may deliberate to provide such samples for Approval within 10 days of issue of LOI.

It shall be the responsibility of the contractor to submit samples of raw material to be used in the execution of the awarded work and any other items as decided by the owner. One such approved sample each shall be kept with the owner and at site for future reference.

Test Samples of raw material (if required) as per the Instruction of the Engineer In charge will be prepared by the contractors and same to be tested as per code of practice at the cost of contractor as directed by Engineer-In-Charge.

4.23 **SUB-STANDARD MATERIALS**

Any material rejected by the owner shall be removed from the site within 48 hours of issue of instructions to this effect by the owner. Failing this, the owner shall have to rights to get these removed at the cost of the contractor and the contractor shall have no claim whatsoever in this regard.

4.24 **SPECIFICATION**

Contractor shall perform work in accordance with the latest CPWD Specifications, as per the specification of material mentioned and as per the direction of the Engineer in charge.
Only the material of Approved make and manufacturer shall be used as is stipulated at the end of this Technical Bid.

4.25 **DEFECT LIABILITY PERIOD**

Twelve months from the virtual date of completion of work and removal of hutments, materials, etc. from site except for Water proofing and Anti Termite Treatment works (if Applicable) which is 10 years.

4.26 **CORRESPONDENCE**

All correspondence shall be addressed to:

The Chief Administrative Office
Indian Institute of Management
Prabandh Nagar, IIM Road,
Lucknow – 226013 (U.P.)

4.27 **JURISDICTION**

The contract will be subject to the territorial jurisdiction of Courts in Lucknow alone.

4.28 The contractor shall indemnify and keep indemnified Indian Institute of Management, Lucknow against payments to be made under and for the observance of the laws aforesaid and the C.P.W.D. Contractor's Labour Regulations without prejudice to his right to claim indemnity from his sub- contractors.

4.29 **RULES FOR SAFETY AND LABOUR WELFARE**

The Contractor shall comply with the safety and Labour Welfare Rules, as given hereunder and as per the Rules and Regulations framed by Local Authorities/ Statutory Bodies/ State/ Central Govt. from time to time.

4.30 **SAFETY PRECAUTIONS**

Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites shall be so stocked or placed as to cause danger or inconvenience to any person of the public. The Contractor shall provide all necessary fencing and lights to protect public from accidents and shall be bound to bear expenses of defense of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damage and costs which may with the consent of the Contractor be paid to compromise any claim by any such person. All workers should wear Safety helmet, Safety Shoes, Fluorescent jacket and Safety Belt (If required) during the execution of the work.

NOTE: All scaffolds, ladders, First Aid Equipment's/ Machines and other safety devices mentioned or described herein shall be maintained in a safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities shall be provided at or near places of work. Necessary warning sign boards in Red/White paint, with proper lighting arrangements for nights are to be provided by the Contractor at his cost, as approved by the Engineer-in-Charge at prominent locations. The arrangements for providing and maintaining all such safety and labour welfare measures, Registers etc., shall be done at the Contractor's own cost and expenses.

4.31 **DISPUTE & ARBITRATION**

All disputes or differences whatsoever arising between the parties out of or relating to the construction, meaning and operation or effect of this contract or subject thereof or the breach thereof that cannot be settled by good faith and negotiations between the parties within 30 days of the commencement of negotiations may be settled by referring the dispute to the Director, IIM Lucknow, who may appoint an Arbitrator who is unconnected with IIM to adjudicate the same. The proceedings will be governed by the provisions of the Arbitration & Conciliations Act, 1996. The place of arbitral proceedings will be Lucknow.

5.1 Advance: No mobilization advance will be paid to the contractor.

5.2 Escalation; No cost escalation shall be paid in any case because of increase of the cost of raw material or delay in the work because of any reason.

5.3 Altered/ Additional/ substituted work: If the altered/additional or substituted work or any additional work required to be as per Institute's requirement shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided for which there are no established rates in schedule of items and Delhi Schedule of rates., the same shall be payable as per the provision stated hereunder.

a) If any extra item crops up during the work (Other than that given in the Work Order), the rate for such item shall be computed as per rates of CPWD/DSR-2023 with the same percentage above or below as is quoted by the Contractor in the Price Bid).

b) Rates for items where rate is not available in DSR-2023 shall be derived from the similar item of nearest DSR. If not available in the nearest DSR then in the nearest District Schedule of Rates issued by the Uttar Pradesh PWD department. If the item is not found in DSR and District Schedule of rates, then the Percentage Rate from nearest available Schedule of rates of any Central/ Uttar Pradesh Government Department Shall be considered with whatever applicable Cost index plus or minus (If any as per relevant Circular from the department) on the schedule of rates considered.

c) If direct working out is not possible as mentioned in a) & b) above, the contractor shall be paid on the basis of actual cost of material and labor plus cartage, T &P etc. cost plus 15% towards profit, supervision, overheads establishment etc. and applicable taxes as decided by the Competent Authority.

d) In the case of substituted items (items that are taken up with partial substitution or in lieu of item s of work in the contract), the rate for the agreement item (to be substituted) and substituted item shall also be determined in the manner as mentioned in the following para:

(i) If the market rate for the substituted item so determined is more than the market rate of the agreement item (to be substituted), the rate payable to the Contractor for the substituted item shall be the rate for the agreement item (to be substituted) so increased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).

(ii) If the market rate for the substituted item so determined is less than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).

5.7 Where the work is found substandard the contractor shall be liable to rectify them to the satisfaction of Engineer-in-Charge by either rectifying or replacing.

5.8a For Site: The Institute will provide free water and electricity for the work from existing point only for site works. The material such as for the Necessary loose pipes and electric wire and plug, sockets etc., to be arranged by contractor themselves on their cost.

5.8b For Labor Hutment: Institute will facilitate the contractor with the required documents in obtaining the Electricity connection from the electricity department for his labor colony. In case the institute provides electric connection on actual chargeable basis for the hutment then the required material such as cable, changeover, Energy Meter etc. required to provide the connection shall be arranged and provided by the contractor. Water Supply for the labor colony has to be arranged by the Contractor himself.

5.10 In case Institute is not satisfied with the performance of contractor, the Institute is empowered to get the work completed by other agency and debit the expenditure, risk and cost on contractor's account. No objection or

claim, what so ever on this account will be entertained.

5.12 Maintaining of records has to be made by contractor as per direction of Engineer-in-Charge.

5.13 The generated Debris or wastage at work site have to be cleared by the contractor on same day from the work site and thrown out the site campus or designated place as per guidance of Engineer-in- Charge.

List of Approved Makes

Sl. No.	Item Description		Approved Brands / Manufacturers
A.	FLOORING		
	1	Vitrified Tiles	Nitco/ Kajaria or Equivalent.
	2	Ceramic Tiles	Nitco/ Kajaria or Equivalent.
	3	Tile Adhesive	JK super grip/ Engineer plus/ Ultratech/ pidilite (Roff)/ Kerokoll/liticrate/ saint gobain (weler) / As Appproved
	4	Brick Masonry	Class 1 Bricks only
B.	PLY / BOARDS / LAMINATES / VENEERS		
	1	Commercial Ply wood	Conforming to IS 303 approved Green Ply / Kitply - 12mm/ 6 mm/ As Appproved
	2	Boiling Water Proof Block Board.	Conforming to I.S. 1659, Green ply/ Kitply/ Century/ Samrat Plywood Limited/ SRG Ply & Boards/ National Plywood Industries Limited/ Archid Ply/ As approved.
	3	Veneers (3 to 4mm and paper veneers)	Greenlam/ Merino/ Equivalent As Approved.
	4	Laminate 0.8, 1mm & 1.5mm	Greenlam/ Merino/ Equivalent as Approved
	5	Foam Plactic board/ WPC Board	Astion Tesa/ poly green/ plasto green/ Equivalent As Approved.
	6	Wood Preservative	Termiseal/ As Appproved
	7	Mirror/ Glass	Saint Gobain/ Modi Guard/ As Appproved

C.	CIVIL		
	1	Cement (PPC)	ACC / Ultra Tech / Birla Samrat/ JK/ As Appproved
	2	Adhesives	Pidilite/ As Appproved
	3	Light Weight Concrete Blocks	Siporex/ As Appproved
	4	Waterproofing Compounds	Pidilite (Dr. Fixit)/ Fosroc / Sika/ As Appproved
	5	Pest Control Chemical	PCI/ Godrej/ As Appproved
	6	White Cement	Birla White/ JK White/ As Appproved
	7	Wall Putty	JK/Birla/Tata/ Asian/ As Appproved
	8	Galvanized/ Stainless Steel Anchor fastners	Shakti/ Arrow/ Hilti/ Fissure. / As Appproved
	9	Dash Fastner, Expansion Bolts	Hilti/ Fissures/ Dev Ashish/ As Appproved
D	BLINDS		
	1	Vertical Blinds	Vista/Mac/Hunter Douglas/LIVIN or as Approved
E	PAINTS		
	1	Primer	Asian/ Berger/ Nerolac/ Dulux/ Equivalent as Approved
	2	Lustre/Enamel Paint	Asian/ Berger/ Nerolac/ Dulux/ Equivalent as Approved
	3	Luxury Emulsion with Teflon surface protector, Water beading technology, Antimicrobial, Flame spead resistance paint wi th 5 years warranty.	Asian Paint/ Equivalent As Approved
F	FALSE CEILING		
	1	Gypsum Board False Ceiling (Moisture and Fire Resistant)	Saint Gobain (Gyproc) / Armstrong/ Equivalent as Approved
	2	Calcium Silicate Grid Ceiling	Saint Gobain (Gyproc)/ Armstrong -/ Equivalent as Approved
	3	Grid Channel/ Tee/ Angle/Flat etc.	Saint Gobain (Gypframe)/ Armstrong -/ Equivalent as Approved
G	MISCELLANEOUS		
	1	Door Closer	Dorma/ DORSET/OZONE/ Equivalent as Approved
	2	Insulation material	Nitrile rubber/ Equivalent as Approved
	3	Aluminum Sections	Jindal/Hindalco/ Equivalent as Approved
	4	Sun Protective Films	3M/ Equivalent as Approved
	5	Door Hardware	Dorma / Geze/ Godrej/ Equivalent as Approved

	6	Cabinet, Wardrobe, Drawer Hardwares and Fittings	Haffle/ Dormakaba/ Dorset/ Hettich/ ozone/ Ebco/ Godrej/ Equivalent as Approved
	7	Door Lock	Dormakaba/ Godrej/ equivalent as Approved.
H	ELECTRICAL		
	1	Isolators, Change Over switches	Havells
			BCH
			Siemens
			Schneider
			ABB
			Equivalent as Approved.
	2	BLDC Fan and Exhaust Fan and Wall mounted fans	Atom berg
			Crompton
			Havell's
			Bajaj
			Usha
			Equivalent as Approved.
	3	Cables	
	4	Instrumentation	CII
			NICCO
			Asian (RPG)
			Polycab
			Lapp Kabel
			Universal
			RR Kabel
			Equivalent as Approved.
	5	House Wiring	Polycab
			Finolex, Havell's
			KEI
			Equivalent as Approved.
	7	Lighting systems	Philips/ Wipro/Anchor/ Havell's/ Bajaj/ Crab Tree/ Equivalent as Approved.
	8	Modular switches for commercial / residential installations	ABB/Legrand/Anchor Roma/Havell's/ Equivalent as Approved.
	9	Terminals	Elmex/ Wago/ Phoenix/ Equivalent as Approved.
	10	Conduits and accessories	Lapp Kabel/ BEC/ AKG/ Steel craft/ Equivalent as Approved.
	11	Cable lugs	Dowells/ Jainson/ Equivalent as Approved.

	12	Cable glands	Baliga/ comet/ SMI/ Equivalent as Approved.
	13	Luminaries	Philips/ Jaquar/ Havell's/ Bajaj/ Anchor/ Equivalent as Approved.
	14	DATA Cables	Tyco / AMP/ Equivalent as Approved.
	15	Call Bell	Anchor/ Havell's/ Equivalent as Approved.
I	**O.E.M.**	**LIFT Manufacturer**	**OTIS/Toshiba/Thyssenkrupp/Kone/ECE/Johnson/ Schindler**

SITC of PWD (Person with Disability) Friendly LIFT

Electric Supply

The available system of electric supply is 415 volts between phases and 230 volts between neutral & phase and neutral - 3 phase 4 wire AC 50 Hz system suitable for operation at ±10% of the rated supply voltage. In addition, illumination and control power required for elevators and equipment shall be indicated in the tender. Power shall be provided at the location at a point to be indicated. All subsequent electrical systems shall be the responsibility of the Contractor.

1.2 Technical Particulars

The technical particulars of the Elevators are detailed in the enclosed schedule. The schedule indicates the capacity, travel, speed, number of openings, machine room and hoistway sizes etc. Should any further information be required by the Contractor the same can be obtained from Engineer-in-Charge.

1.3 Driving Mechanism

1.3.1 Elevator Machine

The Elevator machine shall be suitable for 415 volts 3 phase 50 Hz AC supply with a voltage variation of +/- 10% and shall be placed directly above the hoist way upon the machine room floor slab and steel beam furnished in place by the Contractor.

The machine shall have a high efficiency and low power consumption and shall be designed to withstand the peak currents in lift duties. Anti-vibration rubber pads of adequate thickness shall be used below the machine to reduce the noise and vibrations. The elevator machine shall be worm gearless reduction type and shall consist of a motor, electromechanical brake worm gear, sheave shaft, and sheave, all completely mounted on a common bed plate. The worm shall be provided with ball bearings to take the end thrust and roller bearings shall be provided for the sheave shaft to ensure alignment and long bearing life. The hard alloy cast iron or steel sheave shall have rope grooves to ensure proper traction and minimum rope wear. Adequate means of lubrication shall be provided for all bearings and worm gear. Means for manual operation of the lift car shall be made by providing a winding wheel suitably marked to indicate the direction of the movement to enable the lift car to be brought to the nearest landing. There shall be a warning display for switching off the electrical supply before the manual operations.

1.3.2 Brake

The electromagnetic brake shall be spring applied and electrically released. It shall come into action after the lift has come to a complete halt to hold the car in position. The brake shall operate automatically with the safety devices and release the brake manually such release requiring the action of manual force to move the lift in short stops.

1.3.3 AC Motor

The AC self-lubricating motor shall be suitable for elevator use with a high starting torque and low starting current. Thermostats shall be embedded in the stator winding to indicate the temperature rise in the motor. The AC motor shall have class 28 F insulation and be suitable for 210 starts per hour with a maximum temperature rise of 50° C over the ambient.

1.4 Controls

The Elevator control shall be AC variable voltage variable frequency (A.C.V.V.V.F). The system shall control the starting, and stopping direction of motion, running of the lift motor and application of the brake and/or safety devices in the event of power failure or any other emergency. It shall be so designed as to ensure a smooth and constant acceleration and retardation under all opening conditions.

The contactor shall be wall/floor mounted, vertical totally enclosed cubicle type with hinged doors on the front and the rear to provide easy access to all components in the controller. The cubicle shall be well-ventilated such that the temperature inside never exceeds the safe limits of the components at ambient room conditions in the machine room.

The controller shall operate within the supply voltage variation of plus 10% to minus 20% of the nominal voltage.

a) Over current

b) Under voltage

c) Overvoltage

d) Single phasing

e) Phase reversal

The controller shall be designed to cut off the power supply, apply the brake and bring the car to a rest in the event of any of the above failures occurring. The Contractor must state clearly the forms of protection provided for each equipment. If any devices of the electro-mechanical type are used the same shall be equipped with arc chutes to prolong the life of contacts. Contractors must stipulate the type of devices used and the material of the contacts. Contractors must support such offers with complete details of experience, number of lifts installed and operational in India, collaboration for equipment design and manufacture etc.

1.5 Hoist Ropes

Round standard steel wire ropes as per Indian standards shall be used for Lift suspension. The number and size of the hoistway ropes shall be selected to ensure a proper factor of safety and adequate traction for the elevator. The governor ropes shall

also be wire ropes. The Hoistway landing door shall be provided with an interlock such that:

a) It shall not be possible for the car to be started or kept in motion until all the landing doors and the car door are locked in the closed position.

b) It shall not be possible to open the landing door from the landing unless the Lift car is within the particular landing zone.

c) The car doors and hoist way landing doors open automatically as the car is stopping at a landing. The closing of the car and landing door must occur before the car is set in motion.

1.6 Car Platform

The car platform shall be of framed construction and designed on the basis of rated load.

1.7 Car Enclosure

The elevator car enclosure shall be as per the parameters enclosed in the schedule of quantities. The ceiling shall have an arrangement for a cabin fan mounted on the roof of the car. Indirect fluorescent lighting shall be provided to illuminate the car. The car enclosure shall be SS304 grade (min. 1.5mm thick), hairline finish with floor 5mm thick steel chequered plate.

Car Design: Car walls finished in stainless steel, front and doors in stainless steel, Dimpled anti-skid vinyl flooring Car operating Panel: Stylish brushed SS finish car operating panel, visual call confirmation, dot matrix display, and car position indicator.

Landing doors: fully automatic landing doors in Stainless Steel 304 grade as per specs

1.8 Car Door

The car entrance for the elevators shall be automatic power-operated SS 304 type.

1.9 Hoistway Landing Doors

For the hoistway doors at each landing, two mild steel painted panels centre opening horizontal sliding doors shall be provided to give a clear opening as indicated in the technical parameters. These shall be duly painted to the shade approved by the institute and suit to the site condition.

1.10 Car and Hoistway Operations

The car and hoistway doors shall be mechanically connected such that both move simultaneously for opening and closing. The hoistway landing door shall be provided with and interlock such that it shall not be possible for the car to be started or kept in motion until all the landing doors and the card door are locked in the closed position. It shall not be possible to open the landing door from the landing unless the lift car is within the particular landing zone.

The car doors and hoistway landing doors open automatically as the car stopped at a landing. The closing of the car and landing door must occur before the car is set in motion.

2. Door Hangers and Tracks

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

2.1 Cabin Fan

A noiseless cabin fan shall be included for all elevators.

2.2 Emergency Light

An emergency light unit using a sealed maintenance-free battery power pack and fluorescent lamp to operate automatically in case of power failure shall be provided in each elevator car.

2.3 Alarm Bell

An emergency alarm bell including wiring shall be provided and connected to a plainly marked push button in the car operating panel.

The alarm unit shall be solid state siren type operated by 2 nos. 9 volts dry batteries to give a waxing and warning siren when the alarm button in the car is pressed momentarily.

2.4 Operation Buttons

The following operation buttons shall be provided

2.4.1 In Each Lift Car

Stainless steel return panels of suitable thickness shall be provided on each side of the door with the following flush-mounted controls on one side: -

a. Illuminated type push buttons corresponding to the floors served. Floor nos. on push buttons shall be numbered from 1 to onward.

b. Door open button

c. Emergency stop button

d. Emergency call button connected to a bell for an emergency signal

e. Two position key operated switches for with attendant and without attendant operation

f. Ventilation fan ON/OFF switch

g. Built-in intercom of the pick-and-speak type

h. UP/DOWN direction display

2.4.2 At Landing

Illuminated type UP and DOWN push buttons at each intermediate landing and single illuminated type push buttons at terminal floors. The push buttons shall illuminate when the same is pressed to indicate that the call has been registered. The button shall remain illuminated until the call is answered.

2.5 Indications

2.5.1 In Each Car

The following indications shall be provided in the cars:

a. Digital car position indicator provided above the door to indicate the landing at which the car is stopped or passing.

b. Illuminate UP ‖ and DOWN arrows on the position indicator above the door to indicate the direction of travel.

2.5.2 At all landings

Digital car position indicator should be provided

2.6 Safety Devices

The following safety devices shall be provided:

2.6.1 Self Leveling

The Lift shall be provided with a +/- 5mm self leveling accuracy feature of the two way automatic type. The self leveling device should automatically correct for under run, over run and rope stretch.

2.6.2 Terminal & Final Limits

Terminal limit switches shall be provided to slow down and stop the car automatically at the terminal landings and final limit switches shall be furnished to automatically cut off the power and apply the brake should the car travel beyond the terminal landings.

2.6.3 Terminal Buffers

Suitable spring buffers shall be used from existing Lift.

2.6.4 Interlocking

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

2.6.5 Car Safety and Governor

The car safety shall be provided to stop the car whenever excessive descending speed is attained. The safety will be operated by a centrifugal governor located at the top of the hoist way and connected to the governor through a continuous steel rope. Suitable means shall be supplied to cut off power from the motor and apply the break on application of the safety.

2.6.6 Fireman Switch

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

3. Gearless machine:

The gearless machine shall consist of a motor, traction sheave and break-drum or brake disc completely aligned on a single shaft. Gearless machine shall be A.C. gearless with suspension sheave.

4**. Hand-winding wheel or handle**:

At times of lift stoppage due to any reasons, it shall be possible to move the lift car to the nearest landing manually. The manual operation shall be by means of winding. Wheel or handle mounted on the end of the motor shaft. The up or down direction of the movement of the car should be clearly marked on the motor or at suitable location. A warning plate written in bold signal red colour advising the maintenance staff to switch off the mains supply before releasing the break and operating the wheel is to be prominently displayed.

5**. Inter-communication system**:

Recommends for provision of either an emergency or a telephone inside the car but as a general experience it is seen that over a period of time these devices become inoperative due to one reasons or the other. Therefore, in order to have at least one device of communication functioning at all the times, as an alternative arrangement, provision of both i.e. telephone with minimum tow connections-one at the operator ‘s room and other at guard room and the emergency signal with re-chargeable batteries as source of supply shall be made in the lift cars.

The device used for emergency signals should incorporate a feature that gives immediate feed-back to the car passengers that the device has worked properly and the signal has been passed on to the intended agency. This shall be achieved by pressing of button from control room which shall give audio signal to the passengers in the car.

6. Emergency Power Supply for lift car:

This shall include suitable secondary battery with trickle/boost charge arrangement and inverter power pack with necessary contactors for supplying the light fixtures in the lift car. The same battery shall also feed the alarm bell and communication equipment.

7. Car landings:

All the lift car landing shall be well lit to an illumination level of 150 lux and shall be free from obstructions. The control for landing lights and the sigh lights shall be tamper proof. Wherever stand by power supply is available, these lights shall be connected to standby circuits also.

8. Instructions:

Detailed instructions as specified for the guidance of passengers shall be prominently displayed inside the car by the contractor and outside the car at all landings by the department. The Barile signage will be posted by the department outside the lift lobby at all landings for the lift meant for barrier-free requirements as per specifications.

9. Levelling:

All lift (s) shall be incorporated with suitable floor leveling devices. In the case of lifts with automatic power-operated doors and with A.C. VVVF controller a separate level device for automatic leveling with leveling accuracy of ± 5mm shall be incorporated.

10. Counter Weight Guards:

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

11. Guide shoes:

Two numbers of guide shoes at the top and two numbers at the bottom shall be provided on the lift car and counter-weight.

12. Type of shoes:

For passenger lifts and bed-cum-passenger lifts

- For speed upto 1.5 mps sliding guide shoes shall be used. Sliding guide shoes. For car shall be always flexible and for counterweight solid guide shoes can be Used upto 1.0 mps.
- For speeds more than 1.5 mps roller guide shoes shall be used for car and Counter weight.

13. Rope fastenings:

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

14. Guards for lift ropes:

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

15. Number & size of ropes:

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

16. Safety Equipment:

Every lift installation shall necessarily be provided with the following safety features:

The safety gear shall be provided in accordance with IS (part-4-Sec.4):2001, each type of car safety shall be actuated by a speed governor.

17. Governor:

The car safety shall be operated by a speed governor located overhead and driven by a governor rope suitable connected to the car and mounted on its own pulleys. The rope shall be maintained in tension by means of weighted or spring-loaded tension sheaves located in the pit. Governor shall be provided for lifts with a travel of more than 5.5 meters. The governor rope shall be not less than 6mm in dia and shall be made of steel or phosforbronze. These shall be in accordance with IS 14665 (part 4/sec-4):2001.Governor for car safety gears shall be adjusted to actuate the safety gear at the following

speeds: -

i. For rated speeds upto 1m/s maximum governor tripping speed shall be either 140 percent of the rated speed or 0.88 m/s, whichever is higher. For rated speed above 1m/s, the maximum governor tripping speed shall be 115 percent of the rated speed plus 0.25 m/s.

ii. Minimum governor tripping speed shall be 115 percent of the rated speed.

18. The governor shall be of "V" groove wheel design and only the wheel is stopped to actuate the car safety upon a pre-determined overspeed downward without damaging the rope.

19. The governor, rope and sheave shall be so located so as to minimize the danger of accidental injury to the equipment.

20. The requirements for field tests on car safety and the governor and for drop tests to sliding type can safeties shall be as per IS code.

21. Buffers -

- Buffers shall be oil resistant rubber pad type for speeds upto 0.25 mps and spring/ oil type for speeds upto 1.5 mps and only oil type for speeds higher than 1.5 mps.
- Buffers shall be suitable for installation in the space available. Buffers anchorage at pit floors shall be installed to avoid puncturing of waterproofing.
    - Oil buffers of the car and counterweight shall be of the spring return type of gravity type.
- The partial compression of spring return oil buffers when the car is in level with terminal landing will not be acceptable.
- All buffers shall be tested at manufacturers works and a copy of the test report shall be submitted.
- When the lift car rests on fully compressed buffers there shall be at least 60 cms clearance between the lowest point in its car frame and any obstruction in the pit exclusive of buffers and their supports. Similarly, when the lift cars cross head is 60cm from the nearest obstruction above it, no projection on the car shall strike any part of overhead structure.
- The contractor must indicate the name of buffer manufacturers, buffer stroke & certified maximum loads.

22. Door Locks:

Electro-mechanical door lock shall be provided for all the landing doors and they shall be such that the doors cannot open unless the car is at rest at the particular landing. It shall not be possible to move the car unless all the landing doors and the car door are closed and locked. This requirement however does not apply when the lift car is provided with automatic leveling devices and in such cases, it shall be permitted to move the car with both the doors open in the leveling zone for the purpose of leveling.

23. Automatic- cum-attendant operation:

Single automatic Push Button with/ without attendant - The operating devices for this operation shall incorporate in the car control panel, car buttons corresponding to the various landings served and a single landing button at each landing, all electrically connected to the controller governing floor selection, direction of travel, acceleration, retardation etc.

This system shall be so arranged that when the car is not in use, on pressing a landing call button the car shall start automatically provided all the doors are closed. During the movement of the car and also when the car stops at the floor landing, other landing call buttons are inoperative for a predetermined time. The pressing of a car button shall automatically start the car and send it to the desired landing. In all cases, the starting of the car is contingent on the establishment of a landing door and car inter-lock circuits. To indicate the availability, or in use light shall be placed in the landing call button panel.

When the light shall be "OFF" the passenger shall be able to call the car. In the case of the manually operated door, if the lift is standing at any landing with doors open (when not in use), the pressing of the landing call button shall ring a bell, fitted at the top of the car to attract the attention of the people soliciting their help for closing the lift door if any one of them happens to be near the lift in case of power operated doors, the landing and car doors shall be arranged to open automatically when the car is parked at landing after all the calls are served and the lift is parked at any landing. The doors can remain open or alternatively if desired, the car shall be arranged to close after a pre-determined time unless the closing is prevented or interpreted by the car doors re-opening device or the door open button.

The lift shall be suitable for dual operation with or without an attendant by the provision of a key operated transfer switch indicating " attendant" and "automatic" positions. During _attendant operations the landing call shall be disconnected from the control system and shall be connected to an annunciator in the lift car. The attendant shall then operate the car to answer the registered calls. This operation is recommended for single speed control lift for low rising building having a single lift installation.

24**. Simplex Selective-Collective operation with/ without attendant:**

Automatic operation by means of one button in the car for each landing level served and by up and down buttons at the landings, wherein all stops registered by the momentary actuation of the car made defined under non-selective Automatic Operation but where in the stops registered by the momentary actuation of the landing buttons are made in the order in which the landing is reached in each direction of travel (irrespective of the sequence in which the buttons have been actuated). With this type of operation, all uplanding calls are answered when the car is traveling in the up direction and all downlanding calls are answered when the car is traveling in the down direction, except in

the case of the uppermost or lowermost calls which are answered as soon as they are reached in-respective if the direction of travel of the car.

25. Automatic selection of traffic programme:

The group supervisory control continuously examines traffic conditions in the building and automatically puts into operation the programme which can best cope with the demand at any particular time. This is fully automatic and requires no supervision or attendant. To suit the traffic demand in the building, suitable traffic programmes can beselected for inclusion in this control.

26. Controlling Equipment:

The movement of the car shall be electrically controlled by means of a controller located in the machine room.

27. Control circuits:

The control circuit shall be designed to the type of lift specified for safety operation. It shall not be possible to start the car unless all the car and landing doors are fully closed and landing doors locked. The circuit shall have an independent fuse protection for fault and over loads and be arranged so that earth fault or an open circuit shall not create unsafe condition. The circuit shall be so arranged that for the stoppage of the car at specified landing or for actuation of a contactor by emergency switches or operation of safety gears the system shall not depend upon the completion or maintenance of an

electrical circuit to cut off power supply and apply the brakes. This requirement is not applicable to dynamic braking and speed control devices.

28. Terminal Boards:

All wiring for external control circuits shall be brought to a terminal board with means of identification of each wire. Metallic/plastic identification tags shall invariably be provided. All connections of wires to terminal boards shall be adequately clamped or screwed.

29. Auxiliary Switches:

i. Emergency stop switches:

On top of the lift car an emergency stop switch shall be provided for use by maintenance personnel. Stop switch shall be provided in the machine room. Operation of these switches/ buttons shall cancel all the registered calls and landing calls for that particular lift.

ii. Maintenance switch on top of the car

For purpose of inspection and maintenance, maintenance switch shall be provided on top of the car. The control circuitry shall be so arranged that in the event of the operation of this switch:

a. The car speed shall be less than the rated speed not exceeding 0.85 meters/sec.

b. The car movement shall be possible only on the application of the continuous pressure on a button. It shall be so mounted to prevent any inadvertent operation.

iii. Fireman Switch:

Fireman switch with glass to break for access shall be provided at ground or main floor for all the lifts. The operation of this switch shall isolate/ or cancel all calls to all the lifts and the lifts will stop at the next nearest landing if traveling upward. The doors will not open at this landing and the lifts will start traveling to ground floor. If these were already

traveling down, they will go straight to ground floor direct without stopping enroute.

iv. Inspection facility:

An inspector ‘s change over switch and set of test buttons shall be provided in the controller. Operation of the inspector ‘s change over switch shall make both the car and landing buttons inoperative and permit the lift to be worked in either

direction from machine room for test purposes by pressing corresponding test buttons in the controller. It shall not however interfere with the emergency stop switches inside the car or on the top of the car.

v. Safety line indicators:

If specified visual telltale lights may be provided to monitor the conditions of faults in the safety line of the lift for easier fault finding. These indicators will remain lit when safety circuits are normal. One indicator shall be provided for each safety on the controller. If any indicators fail to light up as the lift proceeds in its sequence of operation, there shall be a visual indication of the safety line open circuit and also its location for easier fault finding.

30. Control Wiring:

a. Wiring in machine room:

Power wiring between the controller and main board controller to various landings shall be done in heavy gauge conduit or metal duct & shall conform to I.E. Rules 1956 and CPWD Specifications for electrical works. Following general principles shall be followed in siring:

i) Control cables carrying DC and power cable carrying AC shall not be run in the same conduit or metal duct and they shall be laid as per I.E. rules.

ii) Metal duct with removable inspection cover shall be preferred.

iii) in case of control cables also the harness shall be separate as far as feasible for separate functions and laid separately in suitably dimensioned metal duct or in a separate conduit such as the signaling, locking, lamp indication and safeties. Control cables for different voltages in the lift installation works should be laid as per IE. Rules.

b. At least 5 percent with a minimum of 5 unconnected spare wires shall be available out of all the lines to be provided in the wiring harness from the midway junction box to the machine room.

c. There shall be a master isolating switch Fuse associated with the controller heavy duty load break, quick make quick break type TP&N preferably interlocked with controller cabinet door. Isolator handle shall have provision for external locking in off position.

All relays shall be suitable for lift service and shall incorporate adequate Contact wipe for reliable operation. Relays shall operate satisfactorily between 80 percent to 110 percent of their voltage.

Main motor contactors shall be suitable for A.C. duty. Tenderer shall be required to furnish full details of make, type, applicable standard, voltage and current rating, duty class, type and routine tests done etc., on contactors and relays. Copies of type test certificates and other test certificates shall also be furnished by the successful tenderer. All cables shall be with copper conductors and flame retardant or PVC insulated of appropriate size. The cables feeding motor and in heavy current flow paths shall be so selected that the size matches the protecting fuses and will not result in more than 2 percent voltage drop from the main board to the terminals of motor. Control cables shall not be less than 0.5 sq. mm. or equivalent if stranded; where installation of heavy gauge conduits present difficulties, short lengths

of flexible conduits will be permitted but effective electrical continuity and earth bonding shall be ensured. Ferrules shall be slipped at the ends of all cables as per standard control wiring practice. All terminal blocks shall be suitably marked.

31. Trailing Cables:

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

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

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

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

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

13 per cent of the total capacity subject to a minimum of 5 wires shall be available unutilized in the trailing cable everywhere suitably distributed between various functions.

32. Earthing:

Metal frames and all metal work of the lift controller frame etc., shall be earthed with double earth leads taken to the earth bar. Looping shall be permitted if such routing is feasible. All other individual metallic frame work of components etc., shall be loop earthed.

33. Lift Rope Compensation:

The lift rope compensation for lift travel shall be provided for lift travels beyond 40m in all cases.

34. Automatic Rescue Devices (ARD):

The automatic rescue devices (ARD) meant for the purpose of bringing the lift car to the nearest landing doors are being used selectively and is generally restricted to commercial buildings having heavy traffic. However, frequent power failures being the common phenomenon, the provision of ARD shall be made in all the lifts in public buildings. The ARD shall have the following specifications:

i. ARD should move the elevator to the nearest landing in case of power failure during normal operation of elevator.

ii. ARD should monitor the normal power supply in the main controller and shall activate rescue operation within 10 seconds of normal power supply failure. It should bring the elevator to the nearest floor at a slower speed than the normal run. While proceeding to the nearest floor the elevator will detect the zone and stop. After the operation is completed by the ARD the elevator is automatically switched over to normal operation as soon as normal power supply resumes.

iii. In case the normal supply resumes during ARD in operation the elevator will continue to run in ARD mode until it reaches the nearest landing and the doors are fully opened. If normal power supply resumes when the elevator is at the landing. It will automatically be switched to normal power operation.

iv. All the lift safeties shall remain active during the ARD mode of operation.

v. The battery capacity should be adequate so as to operate the ARD at least seven times a day provided the duration between usages are at least 30 minutes.

APPENDIX

Technical Specification of Lift in Tabular Form

S. No.	Features		Technical Detail
1	Type of Lift	:	Passenger Lift MRL (Machine room Less) for Persons with Disability
2	No. of Lift	:	1Nos.
3	No. of Persons/Loads	:	08 Person or more : 544 Kg appx./ As per the requirement for PWD lift whichever is higher.
4	Rated Speed	:	1 Mps
5	Travel in Meters	:	15 meters Approx. (Visit the site for specifics)
6	No. of Floors Served	:	Basement +2
7 [a]	Inside size of Lift Well	:	Available well size As per the drawing/ Site.
7 [b]	Pit Depth	:	AS per the Drawing/ Site
8	Clear inside size of Lift Car	:	Minimum 1100 x 1300 x 2200 mm/ AS per the requirement for PWD friendly Lift so as to keep clear door opening f 900 mm
8[a]	Car material	:	stainless steel 304(1.5mm) hairline finish
9	Position of counterweight	:	As per the convenient
12 [a]	Type of control	:	Microprocessor-based AC variable Voltage variable frequency
12 [b]	Type of operation	:	Simplex Selective Collective Operation with/without attended
12 [c]	Potential free Contacts	:	Potential free contacts for each floor position and up and down movement of the lift shall be provided in the controller which can be used for building an automation system
13	Car entrance door	:	
[a]	Numbers	:	One
[b]	Size	:	900 x 2000 mm (Clear opening)
[c]	Type of Doors	:	Center Opening
[d]	Car Open in front only	:	In front only
[e]	Door Operation		Minimum 2 Lakhs
14	Construction Design and Finish of Car	:	Stainless Steel
	Flooring	:	Dimpled anti-skid vinyl flooring (colour shall be as per Institute approval)
15	Hand Rails	:	Front, Left and Right side at least 30mm dia.
16	Ventilation	:	Cross flow fan /Blower
17	Lighting in Car	:	LED with auto Cut Out
18	Lighting in Well	:	LED Type
19	Braille Button	:	Mandatory
20	Motor	:	with 180 start per hour
21	Features Required Manual Rescue System without Battery	:	Mandatory
22	Type of Signal Systems		
[a]	Digital floor position indicator in the car and at all landings.		

[b]	Travel direction indicator in the car and at all landings.
[c]	Gongs and visual indications on all landings for pre arrival of cars
[d]	Overloading warning audio and visual indicator inside the car
[e]	Battery operated alarm bell and emergency light
[f]	Car operating panel with fade proof luminous buttons in car and with intercom
[g]	Luminous hall button at all landings
h	Telephone hand set with intercom connectivity with the IIML EPABX

[h]

	Fireman's switch at Ground floor		
23	Landing Entrance		
[a]	Location of landing in different floors	:	All door on same side
[b]	Size	:	900 x 2000 mm (Clear opening)
[c]	Type of doors	:	Center Opening
[d]	Car door enclosure	:	Power-operated centre opening sliding door stainless steel 304(1.5mm) hairline finish
[e]	Landing door enclosure	:	Power-operated centre opening sliding door stainless steel 304(1.5mm) hairline finish
[f]	Lift in use/lift out of order sign	:	A suitable box above the lift landing with LED illuminated sign of "lift out of order" coming up simultaneously at all floor
24	Electric supply	:	[a] Power: 415V a.c., 3 Phase, 50 Hz, 4 wire system
			[b] Lighting: 230V, 50Hz ac
25			
26	Type of Doors	:	Car: Fire rated upto 120mins Centre Opening Landing doors: Fire rated upto 120mins Centre Opening
27	Construction type	:	Machine Room Less
28	Emergency Car	:	Car lighting which turns on immediately when power fails, Lighting providing a minimum level of lighting within the car.
29	Fire Emergency Return	:	Upon activation of a key switch or a building's fire alarm, all calls are canceled, all cars immediately return to a specified evacuation floor and the doors open to facilitate the safe evacuation of passengers.
30	Emergency Landing Device (Automatic rescue Device) with audio announcer	:	Upon power failure, a car equipped with this function automatically moves and stops at the nearest floor using a rechargeable battery, and the doors open to facilitate the safe evacuation of passengers with audio announcer. Dry type Battery (Maintenance Free) should be used for power backup.
31	Automatic Door Speed Control	:	Door load on each floor, which can depend on the type of hall doors, is monitored to adjust the door speed, thereby making the door speed consistent throughout all floors.
32	Door Load Detector	:	When excessive door load has been detected while opening or closing, the doors Door Load Detector immediately reverse.
33	Door Nudging Feature — With Buzzer	:	A buzzer sounds and the doors slowly close when they have remained open for longer than the pre-set period.
34	Multi-beam Door Sensor	:	Multiple infrared-light beams cover at least 2/3 of the door height of the doors to detect passengers or objects as the doors close.

35	Reopen with Hall Button	:	Closing doors can be reopened by pressing the hall button corresponding to the traveling direction of the car.
36	Repeated Door-close	:	Should an obstacle prevent the doors from closing, the doors will repeatedly open and close until the obstacle is cleared from the doorway.
37	Safety Door Edge	:	The sensitive door edge detects passengers or objects during door closing.
38	Automatic Bypass	:	A fully-loaded car bypasses hall calls in order to maintain maximum operational efficiency.
39	Car Fan Shut Off — Automatic	:	If there are no calls for a specified period, the car ventilation fan will automatically turn off to conserve energy.

40	Car Light Shut Off — Automatic	:	If there are no calls for a specified period, the car lighting will automatically turn off to Conserve energy.
41	False Call Canceling— Automatic	:	If the number of registered car calls does not Correspond to the car load, all calls are canceled to avoid unnecessary stops.
42	False Call Canceling— Car Button Type	:	Automatic If a wrong car button is pressed, it can be canceled by quickly pressing the same button again twice.
43	Overload Holding Stop	:	A buzzer sounds to alert the passengers that the car is overloaded. The doors remain open and the car will not leave that floor until enough passengers exit the car.
44	Safe Landing	:	Service If a car has stopped between floors due to some equipment malfunction, the controller checks the cause, and if it is considered safe to move the car, the car will move to the nearest floor at a low speed and the doors will open.
45	Basic Announcement Electronic	:	A synthetic voice (and/or buzzer) alerts Passengers inside a car that elevator operation has been temporarily interrupted by overloading or a similar cause. (Should be in Hindi & English language.)
46	LCD / LED Position Indicator	:	5-7-inch LCD / LED for car operating panels shows the date and time, car position, travel direction and elevator status messages.
47	Hall LCD / LED Position Indicator	:	Display 5-7-inch LCD / LED for elevator halls shows the date and time, car position, travel direction and elevator status messages.
48	Provision of Intercom including wiring with centralized features.	:	Yes
49	Provision of Floor announcement with all time music.	:	Yes
50	Provision of Single Phase/ phase failure	:	Yes
51	Provision of auto-correction of Phase reversal.	:	Yes

ANNEXURE – A

DECLARATION OF SPARES/ SERVICES SUPPORT: Manufacturer's Authorization

Date:

To:

_____

WHEREAS

We _____ (OEM Name and Address), who are official manufacturers of _____ (Lift Component Description), having factories at _____, do hereby authorize _____(Bidder Name) to submit a Bid the purpose of which is to provide the following goods, manufactured by us _____ (Lift Component Description). We hereby authorize M/s ---------- (Bidder Name) for DESIGN SUPPLY INSTALLATION TESTING & COMMISSIONING OF 01 NOS. 08 or More PASSENGER PWD FRIENDLY MACHINE ROOMLESS ELEVATOR IN SAMADHAN BUILDING AT IIM, LUCKNOW. We hereby confirm our full guarantee & warranty including support of spares & services for a minimum period of 15 to 20 years from operational acceptance.

Seal & Signature of with Date

PART- B

(FINANCIAL BID)

FINANCIAL BID

CONSTRUCTION OF LIFT SHAFT AND ASSOCIATED CIVIL & ELECTRICAL WORKS AND SITC OF 8 or more Passenger PWD FRIENDLY LIFT OF INDIAN INSTITUTE OF MANAGEMENT LUCKNOW

BOQ for CONSTRUCTION OF LIFT SHAFT AND ASSOCIATED CIVIL & ELECTRICAL WORKS AND SITC OF 8 or more Passenger PWD FRIENDLY LIFT OF INDIAN INSTITUTE OF MANAGEMENT LUCKNOW

Rates are Inclusive of GST

S.N.	DESCRIPTION OF ITEM	QTY.	UNIT	RATES	AMOUNT
1	Excavation of foundation in ordinary soil (loam clay or sand) including lift upto **required depth** and lead upto 30 meter and including filling, watering and ramming of excavated earth into the trenches or into the space between the building and sides of foundation trenches or into the plinth and removal and disposal of sur-plus earth as directed by the Engineer in charge up to a distance of 30 meters from the foundation trenches.				
	Excavation up to **All depth**	106.12	CUM	145.55	15445.77
1A	2.26 Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials. All kinds of soil	53.06	cum	103.98	5517.18
1B	**Open timbering** in trenches including shuttering and shoring complete. (Measurement to be taken of the face area timbered)				
	Depth not exceeding 1.5 meter	18.00	Sqm	59.08	1063.44
	Depth above 1.5 m	18.00	Sqm	66.91	1204.38
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, **for all** lead and for all lift.	74.28	CUM	160.72	11938.28
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	3.04	CUM	5585.84	16980.95
4	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) **(Plinth band/Lintel)**				
	UP TO PLINTH LEVEL	0.05	CUM	7417.52	370.88
	ABOVE PLINTH LEVEL	0.45	CUM	9434.51	4245.53

5	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) **(Slab)**	3.37	CUM	9434.51	31794.30
6	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) **(Beam)**				
	UP TO PLINTH LEVEL	2.43	CUM	7417.52	18024.57
	ABOVE PLINTH LEVEL	8.35	CUM	9434.51	78778.16
7	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) **(Footing)**	6.72	CUM	7417.52	49845.73
8	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) **(Column)**				
	UP TO PLINTH LEVEL	2.07	CUM	7417.52	15354.27
	ABOVE PLINTH LEVEL	6.05	CUM	8899.42	53841.49
9	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Thermo-Mechanically Treated bars of grade Fe-500D or more.	45.42	QTL.	8843.70	401680.85
10	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	5.88	CUM	5848.45	34388.89
11	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	19.61	CUM	7466.88	146425.52
12	15 mm cement plaster on rough side of single or half brick wall of mix:1:6 (1 cement: 6 coarse sand)	102.94	SQM.	324.19	33372.12
13	Colour washing such as green, blue or buff to give an even shade : New work (two or more coats) with a base coat of white washing with lime	74.34	SQM.	43.71	3249.40
13A	13.48 Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	10.80	sqm	158.83	1715.36

14	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)	95.32	SQM.	281.79	26860.22
14 A	12 mm cement plaster finished with a floating coat of neat cement of mix : 13.7.1 1:3 (1 cement: 3 fine sand)	56.78	sqm	360.14	20448.75
15	Providing & fixing of Ceramic/ vitrified/Designer Tile in the design of brick work in the matching patter as is in the existing Building as per the Approval of the engineer In charge/ Architect of Size around 600x600 or as available in the market and Approved by the Engineer In charge, tile cladding including labour & material complete as per direction of E/I. (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to |.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.	102.83	SQM.	1330.90	136856.45
16	Providing and laying matt finished vitrified tile of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.	2.40	SQM	1193.63	2864.71
16 A	Providing and laying 60 mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	10.44	Sqm	797.04	8321.10
17	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : :25 mm thick	14.40	SQM	1597.57	23005.01
18	Providing and laying Vitrified/ ceramic tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to |.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Tile can be Ful body Vitrified/Glazed/ Single charged/ Double Charged as Approved Size of Tile 1000x1000/600x1200/ as Approved by the Engineer in charge mm	22.46	SQM	1773.33	39828.99

19	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	150.00	KG.	633.37	95005.50
20	Centering and shuttering including strutting, propping etc. and removal of form for:				
	Foundations, footings, bases of columns, etc. for mass concrete	11.90	SQM	321.56	3826.56
	Suspended floors, roofs, landings, balconies and access platform with water proof ply 12 mm thick	14.83	SQM	843.29	12505.99
	Lintels, beams, plinth beams, girders, bressummers and cantilevers with water proof ply 12 mm thick	76.00	SQM	690.40	52470.40
	Columns, Pillars, Piers, Abutments, Posts and Struts	81.07	SQM	788.27	63905.05
21	Providing & fixing of G.R.C. Jali as pr Approved design in desired thickness, including labour & material, lifting the jali to required ht., scaffolding, hardware's, fixtures, tools and equipment etc. whatever required to complete as per direction of E/I.	12.96	SQM	5595.00	72511.20
22	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately) : For fixed portionPowder coated aluminium (minimum thickness of powder coating 50 micron) kg 530.90	5.00	KG.	435.34	2176.70

22A	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately) : For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately Powder coated aluminium (minimum thickness of powder coating 50 micron)	5.00	kg	520.25	2601.25
22B	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item) With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	3.15	Sqm	1234.26	3887.92
22C	21.4 Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer in charge. With stainless steel cover plate minimum 1.25 mm thickness	2.00	each	2315.56	4631.12
22D	Providing and fixing Brass 100 mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete. 5	1.00	each	433.66	433.66
23	Providing and fixing of expansion joint system related with floor location as per drawings and direction of Engineer-In-Charge. The joints system will be of extruded aluminium base members, self aligning / self centering arrangement and support plates etc. as per ASTM B221-02. The system shall be such that it provides floor to floor /floor to wall expansion control system for various vertical location in load application areas that accommodates multi directional seismic movement without stress to it's components. System shall consist of metal profiles with a universal aluminium base member designed to accommodate various project conditions and finish floor treatments. The cover plate shall be designed of				

	width and thickness required to satisfy projects movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions. The Self – centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminium extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. Provision of Moisture Barrier Membrane in the Joint System to have watertight joint is mandatory requirement all as per the manufactures design and as approved by Engineer -in- Charge . (Material shall confirm to ASTM 6063.) Floor Joint of 100 mm gap. (Make CS Group.)	12.00	RM.	5241.89	62902.68
24	Providing and fixing of expansion joint system related with wall joint (internal/external) location as per drawings and direction of Engineer-In- Charge. The joints shall be of extruded aluminium base members, self aligning /centering arrangement and support plates as per ASTM B221- 02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application, both new and existing construction in office Buildings & complexes with no slipping down tendency amongst the components of the Joint System. The Joint System shall utilize light weight aluminium profiles exhibiting minimal exposed aluminium surfaces mechanically snap locking the multicellular to facilitate movement. (Material shall confirm to ASTM 6063.Wall Joint of 100 mm gap) (Make CS Group.)	43.20	RM.	4350.63	187947.22
25	Providing and fixing of expansion joint system of approved make and manufactures for various roof locations as per approved drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminium base members with, self aligning and self centering arrangement support plates asper ASTM B221-02. The system shall be such that it provides watertight roof to roof/roof to corner joint cover expansion control system that is capable of accommodating multidirectional seismic movement without stress to its components. System shall consist of metal profile that incorporates a universal aluminium base member designed to accommodate various project conditions and roof treatments. The cover plate shall be designed of width and thickness required to satisfy movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions. The Self centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminium extrusion cavity to allow freedom of movement and flexure in all directions				
	including vertical displacement. The Joint System shall resists damage or deterioration from the impact of falling ice, exposure to UV, airborne contaminants and occasional foot traffic from maintenance personnel. Provision of Moisture Barrier Membrane in the Joint System to have water tight joint is mandatory requirement. (Material shall confirm to ASTM 6063) Roof Joint of 100 mm gap.(Make CS Group.)	4.00	RM.	4908.27	19633.08

26	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	2.00	NOS.	244.57	489.14
27	Providing and fixing on wall face unplasticized Rigid PVC rain water pipes conforming to IS :13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.				
	110 mm dia (for rain water)	30.00	RM.	309.47	9284.10
28	Providing and fixing unplasticized -PVC pipe clips of approved design to unplasticized - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete. 110 mm dia	6.00	NOS.	304.47	1826.82
29	Providing & fixing of shed with 10mm thick multiwall polycarbonate sheet of GE plastics or equivalent, made of homogenous material UV resistant layer with light and heat transmission, including fixing it to the structural MS framing silver finish using pinion joinery with alcox, self driving self tapping screws with EPDM washers, nuts, bolts & washers, EPDM gaskets, aluminium pressure plates/ wind ties, top capping profile, edge capping profile, H Profile for joining the sher, structural silicon sealant to make it waterproof etc.	5.00	SQM	1056.54	5282.70

30	22.7 Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. (c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. “All above operations to be done in order and as directed and specified by the Engineer-in-Charge”: With average thickness of 120 mm and minimum thickness at khurra as 65 mm.				
		13.73	SQM	1381.37	18966.21
30A	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design : In 75x75 mm deep chase	4.80	Rmt.	250.22	1201.06
31	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.Hot finished welded type tubes	216.00	Kg	159.41	34432.56

32	Disposal of building rubbish / malba / Surplus earth similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	47.75	cum	216.44	10335.01
33	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75 mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	5.40	sqm	614.43	3317.92
	Sewer Line				
1	**Excavating trenches** by mechanical / manual means of required width for pipes cables etc including excavation for sockets, and dressing of sides, ramming of bottoms, for all depth including getting out the excavated soil , and then returning the soil as required , in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed , within a lead of 50 m.				
	For all depth				
	Pipes 80 mm to 300 mm diameter	5.00	metre		1443.80
2	**Open timbering** in trenches including shuttering and shoring complete. (Measurement to be taken of the face area timbered)				
	Depth not exceeding 1.5 meter	15.00	Sqm	**59.08**	886.20
	Depth 1.5 to 3.00 meter	15.00	Sqm	**66.91**	1003.65
3	Providing and laying Non pressure NP 2 class (light duty) **RCC pipe** with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1cement : 2 fine sand) including testing of joints etc. complete.				
	150 mm. dia. RCC Pipes	5.00	Meter	456.29	2281.45

4	Providing and laying cement concrete 1:5:10 (1 cement: 5 coarse sand : 10 graded stone aggregate 40mm nominal size) upto the haunches of pipes including bed concrete as per standard design				
	150 mm. dia. RCC Pipes	5.00*	Meter	609.34	3046.70
5	Constructing brick masonry manhole in cement mortar 1:4 (1 cement :4 coarse sand) RCC top slab with 1:2:4 mix (1 cement :2 coarse sand :4 graded stone aggregate 20mm nominal size), foundation concrete 1:4:8 mix (1 cement :4 coarse sand :8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement :3 coarse sand) finished with floating coat fo neat cement and making channels in cement concrete 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 20mm nminal size) finished with a floating coat of neat cement complete as per standard design.				
	Inside size 90x80cms and 45cms deep including CI cover with frame (light duty) 455x610mm internal diamensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15kg).				
	With common burnt clay FPS (non modular) bricks of class designation 75				
	(i) For Sewer Line	1.00	No.	10471.85	10471.85
	Extra for depth for manholes:				
	Size 90x80cm with With common burnt clay FPS (non modular) bricks of class designation 7.5	1.50	Meter	7236.83	10855.25

6	Providing orange colour safety **foot rests** of minimum 6 mm thick plastic encapsulated as per IS:10910 on 12 mm dia steel bar conforming to IS:1786 having minimum cross section as 23 mm x 25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm thread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.	10.00	NO.	454.03	4540.30
7	19.21 Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete : For pipes 100 to 250 mm diameter	2.00	NO.	664.57	1329.14
	Electrical Items				
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
a)	Group - A	11.00	Point	832.30	9155.30
	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	275.00	Metre	191.06	52541.50
	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	125.00	Metre	273.88	34235.00
	4 x 16 sq.mm + 2 x 6 sq.mm. earth wire	65.00	Metre	1119.30	72754.50

3	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	7.00	Each	480.52	3363.64
4	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required	2.00	Each	32.80	65.60
5	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	4.00	Each	71.34	285.36
6	Installation ,Testing, Commissioning of wall bracket /ceiling fittings of all sizes and shapes containing upto two GLS/CFL/LED lamps per fitting, complete with all accessories including connections etc. as required.	11.00	Each	97.58	1073.38
7	Supply of LED 4ft Batten with a nominal system lumen output of 2000 lumens and a minimum system efficacy of 100 lm/W. The luminaire shall have a rated system lifetime of 25,000 burning hours at L70. The luminaire should have a colour temperature of 4000K and CRI>80. The luminaire shall meet IP20 rating with THD < 10% and PF > 0.9. The luminaire housing should made of extrusion Al with a PC diffuser. The total power consumption should not exceed 21W (including driver).	4.00	Each	250.00	1000.00
8	Supplying of Bulkhead type light fitting complete with, wire guard, holder, electronic ballast 1 x 10 W lamp including connections etc. Including connection with 1.5 sqm FRLS PVC insulated copper conductor as required.	7.00	Each	685.00	4795.00
9	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
	6 way Double door	1.00	Nos.	4078.68	4078.68

10	Supplying and fixing following rating, four pole, 415 V, MCB in the existing MCB DB complete with connections, testing and commissioning etc. as required				
	63 amps 4P MCB	1.00	Each	2658.00	2658.00
	100 amps 4P MCB	1.00	Each	9704.00	9704.00
11	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB),having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. As required.				
	40 amps	1.00	Nos	2166.44	2166.44
12	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	Single pole	8.00	Nos.	209.92	1679.36
13	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	4.00	Each	10.66	42.64
15	Earthing with G.I. earth plate 600 mm x 600 mm x 6 mm thick including accessories , and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but with charcoal or coke and salt) as required.	2.00	Set	6127.04	12254.08
16	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	185.00	Meter	118.08	21844.80
17	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	30.00	Metre	235.34	7060.20
18	Providing and fixing 25 mm x 5 mm G.I. strip on surface or in recess for connections etc. as required.	50.00	Meter	200.08	10004.00

	SUB-HEAD -V : L.T. CABLES				
19	Laying of one number PVC insulated and PVC sheathed / XLPE power Cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.				
	Up to 35 sq.mm.	20.00	Meter	317.34	6346.80
20	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required				
	Upto 35 sq. mm (clamped with 1mm thick saddle	80.00	Meter	45.10	3608.00
21	Supply of following siz of 1.1KV grade multicore aluminium conductor XLPE insulated and PVC sheathed armoured cable as per IS 7098:1988 with up to date amendment				
	3.5 x 35 sq.mm	100.00	Metre	300.00	30000.00
22	Supplying and making cable end terminations with brass compression gland and aluminium lugs for following size of PVC insulated PVC sheathed/XLPE aluminium conductor cable of 1.1 KV grade, complete as required.				
	3½ X 35 sq. mm (32mm)	2.00	Each	302.58	605.16
	Demolishing and Dismantling				
1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6/ leaner or richer mix (including equivalent design mix)	2.85	cum	1996.09	5688.86
2	Dismantling Paver Block Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	6.00	sqm	108.04	648.24
3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in-charge.	7.43	cum	2912.03	21636.38

4	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. work) as per direction of Engineer-in-charge.	3.15	sqm	940.70	2963.21
5	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	7.92	cum	1689.36	13379.73
6	Removing mortar from bricks and cleaning bricks including stacking within a lead of 50 m (stacks of cleaned bricks shall be measured): From brick work in cement mortar	3.96	1000 Nos	5494.66	21758.85
7	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
	Of area 3 sq. metres and below	2.00	each	301.10	602.20
	Of area beyond 3 sq. metres	1.00	each	412.26	412.26
8	Dismantling stone slab flooring/ tile flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	4.50	sqm	218.49	983.21
9	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	2.50	sqm	86.39	215.98
10	Dismantling Concrete/ GRC Jali Dismantling precast concrete or stone slabs in walls, partition walls etc. including stacking within 50 metres lead : Thickness above 40 mm up to 75 mm	9.00	sqm	355.51	3199.59
11	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	22.25	cum	216.44	4815.79
12	Supplying and fixing appropriate support to the beam / slab during dismantling @ the required intervals including providing the shuttering ply etc. for supporting the structure and preventing any damage	1.00	L.S.	5000.00	5000.00

13	Design, Fabrication, Supply, Installation, Testing and commissioning of Electric Traction Type fully automatic Machine room-less (MRL) PWD (Person with Disability) Friendly 8 or more Passenger Elevator having SS Enclosure (Grade 304) with AC variable voltage & variable frequency drive unit suitable for operation on 415 +/- 10 % V, 3 Phase, 50 Hz. AC supply, having a speed of 1.00 MPS, power operated SS center opening type car & landing doors, electro-magnetic brake system, operating panel with luminous buttons, overload warning indicator, battery operated alarm bell, emergency light, intercom suitable for hook up to Facility's EPABX, infrared red sensing door protection for full height (min 2000mm height) & mechanical safety by the pressure sensor, reverse phase relay on the controller, fire man's switch at ground floor, digital car positions indicator in the car with up / down direction indications, light fixtures, ventilation fan, landing sill, main beam in shaft for the machine, pit ladder, provision of lighting in elevator shaft etc. complete with all accessories serving different floors in the lift shaft along with Automatic Rescue Device (ARD) with dry maintenance-free sealed batteries and Manual Emergency Rescue Device with or without lever-operated (independent of any battery system) complete as required and as per enclosed specifications for each MRL elevator with the following characteristics i) Elevator Type - Passenger ii) Capacity- minimum 08 Passenger , 588 Kg iii) Stops and Openings- 3 No v) Travel Speed- 1.0 mps	1.000	Complete SITC job	1601260.00	1601260.00
14	Dismantling, Shifting and Reinstallation, Testing & Commissioning of Old Outdoor A.C.'s including the hot and cold pipes, drain pipes, cables, wires, unit stand etc, and including the nitrogen testing of reinstalled pipes and recharging the required gas complete what ever item is required to recommission the Samadhan A.C. system are included in the Rates. Further, after recommissioning of the A.C. system the servicing of outdoor units which had been shifted has to be done by the contractor.	1.000	Complete Job	193520.00	193520.00
					40,56,260.23