जम्मू केंद्रीय विश्वविद्यालय
Central University of Jammu
राया–सूचानी (बागला), जिला सांबा–181143, जम्मू (जम्मू एवं कश्मीर)
Rahya-Suchani (Bagla), District: Samba – 181143, Jammu (J&K)

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TENDER

FOR

Supply, Installation, Testing & Commissioning of Passenger Lift in the Building of Satish Dhawan centre for space science in Central University of Jammu, Bagla Rahya-Suchani , Distt. Samba .

e-Tender: 10/2020-21

Estimated Cost **Rs. 22,87,500/-**

SECTION 1

LIST OF IMPORTANT DATES

PRESS NOTICE

NOTICE INVITING TENDER

NIT No.:- 10/2020-21

Name of work :- Supply, Installation, Testing & Commissioning of Passenger Lift in the Building of Satish Dhawan centre for space science in Central University of Jammu,Bagla Rahya suchani , Distt. Samba

Completion Period for construction: ***60 days***

2.1 Defect Liability period is: *24 Months*

1. Date of Issue of Notice Inviting Bid	***01-10-2020***
2. Period of downloading Tender Documents :-	***01-10-2020 upto 15:00 Hrs*** ***To*** ***21-10-2020 upto 12:00 Hrs***
	Places(s) ***https://cujammu.euniwizarde.com***
3. Time, date and Place of pre-bid Meeting	***12-10-2020 at 15:00 Hrs***
	Place **: Office of the Executive Engineer,** Central University of Jammu
4. Deadline for Receiving Bids	***21-10-2020***
	12:00 Hrs
5. Time and date for opening Technical Bid/Bids	***21-10-2020 at 15:00 Hrs***
6. Time and Date of opening Financial Bid	*To be notified after bid evaluation is completed*

7. Place of opening Bids	**<u>Place</u>** **Office of the Executive Engineer,** Central University of Jammu
8. Last Date of bid validity	***<u>120 Days from the date of opening of technical Bids</u>***
9. Officer Inviting Bids	***Executive Engineer, CUJ***
	Designation: Executive Engineer, **Central University of Jammu.**
	Address.:- Rahya- Suchani (Village – Bagla), Distt. Samba (J&K)-181143

OFFICE OF THE EXECUTIVE ENGINEER, CENTRAL UNIVERSITY OF JAMMU

NOTICE INVITING TENDER

e- NIT No.:-_10/2020-21

Executive Engineer, Central University of Jammu (CUJ) for and on behalf of the Vice Chancellor, Central University of Jammu, invites e-tenders on **Percentage (%age) basis** from established experienced contractors/Manufacturer/Dealers/Distributors/Suppliers, having sound financial position

S. No	Name of Work	Name of Division	Estimated Cost of the Work (Rs. In lac.)	Earnest Money @ 2% (Rs	Time Allowed for completion	Schedule Time and date of opening of tender	Type of Contractor
1	2	3	4	5	6	7	8
1.	Supply, installation, Testing & Commissioning of Passenger Lift in the Building of Satish Dhawan Centre for Space Science in Central University of Jammu,Bagla Rahya suchani , Distt. Samba	Engineering Wing, Central University of Jammu	**22.88**	**45,750/-**	**60 Days**	***01-10-2020* at 15:00 hrs**	**Established experienced contractors/Manufacturer/Dealers/ Distributors/Suppliers, having sound financial position**

1. The Bidding documents can be downloaded from the website *https://cujammu.euniwizarde.com* from ***01-10-2020*** (15:00 Hrs) to ***21-10-2020*** (12:00Hrs)
   a. The Bids shall be deposited in electronic format on the website *https://cujammu.euniwizarde.com* from ***01-10-2020*** (15:00 Hrs) to ***21-10-2020*** (12:00Hrs). The bids received will be opened at 15:**00 Hrs on *21-10-2020* on line.**
   b. The complete bidding process will be on line.
   c. A Pre-bid meeting will be held on ***12-10-2020*****at 15:00 Hrs** in the office of the Executive Engineer, Central University of Jammu to clarify the issues and to answer question on any matter that may be raised at that stage as stated in Clause 8 of Instruction to Bidders (ITB) of the Bidding documents
   d. Technical bids of bidders shall be opened on line in the office of Executive Engineer, Central University of Jammu on or after ***21-10-2020*****at 15:00 Hrs**
2. Bid document can be seen at and downloaded from the website ***https://cujammu.euniwizarde.com/*** Bid document contain information of qualifying criteria for bidder, specifications, conditions and other details.

Executive Engineer,
Central University of Jammu
Rahya- Suchani (Village – Bagla),
Distt. Samba (J&K)-181143

OFFICE OF THE EXECUTIVE ENGINEER, CENTRAL UNIVERSITY OF JAMMU

NOTICE INVITING TENDER

e- NIT No.:- 10/2020-21

Executive Engineer, Central University of Jammu (CUJ) for and on behalf of the Vice Chancellor, Central University of Jammu, invites e-tenders on **Percentage (%age) basis** from established experienced contractors/Manufacturer/Dealers/Distributors/Suppliers, having sound financial position

S. No	Name of Work	Name of Division	Estimated Cost of Construc-tion (Rs. In lac.)	Earnest Money @ 2% (Rs	Time Allowed for completion	Schedule Time and date of opening of tender	Type of Contractor
1	2	3	4	5	6	7	8
1.	Supply, Installation, Testing & Commissioning of Passenger Lift in the Building of Satish Dhawan centre for space science in Central University of Jammu,Bagla Rahya suchani , Distt. Samba	Engineering Wing, Central University of Jammu	**22.88**	**45,750/-**	**60 Days**	***21-10-2020* at 15:00 hrs**	**Established experienced contractors/Manufacturer/Dealers/Distributors/ Suppliers, having sound financial position**

1. The Bidding documents can be downloaded from the website *https://cujammu.euniwizarde.com* from ***01-10-2020*** (15:00 Hrs) to ***21-10-2020*** (12:00Hrs)
2.
   a. The Bids shall be deposited in electronic format on the website *https://cujammu.euniwizarde.com* from ***01-10-2020*** (15:00 Hrs) to ***21-10-2020*** (12:00Hrs). The bids received will be opened at 15:**00 Hrs on *21-10-2020* on line.**

   b. The complete bidding process will be on line.

   c. A Pre-bid meeting will be held on ***12-10-2020*** **at 15:00 Hrs** in the office of the Executive Engineer, Central University of Jammu to clarify the issues and to answer question on any matter that may be raised at that stage as stated in Clause 9 of Instruction to Bidders (ITB) of the Bidding documents

   d. Technical bids of bidders shall be opened on line in the office of Executive Engineer, Central University of Jammu on or after ***21-10-2020*** **at 15:00 Hrs**

3. Bid document can be seen at and downloaded from the website ***https://cujammu.euniwizarde.com/*** Bid document contain information of qualifying criteria for bidder, specifications, conditions and other details.
4. In case it is observed that the bidder has uploaded fake documents, his EMD will be immediately forfeited and his case will be recommend for debarment in further tendering for one year.
5. The site for the work is available.
6. Bids must be accompanied by Bid security (EMD) as specified in column 5 of the above table, payable at Jammu & Pledged in favour of Finance Officer, Central University of Jammu as specified in the Clause 15 of ITB. Bid security will have to be in any one of the forms as specified in the bidding document and shall have to be valid upto completion time of the work or more after last date of receipt of Bid.

   The original instruments including a copy of online RTGS/NEFT/A/c Payee Demand Draft/Fixed Deposit Receipt/Term Deposit Receipt/Call Deposit Receipt ,Bank Guarantee of Nationalized/scheduled bank drawn in favour of Finance Officer Central University of Jammu in respect of EMD and relevant technical Bid documents etc must be delivered in the Office of the Executive Engineer, Central University of Jammu (as per tender conditions) on or before ***21-10-2020*** upto 12:00 Hrs. by Registered Post/courier only. If the office happens to be closed on the date of receipt as specified, these shall be received on the next working day at the same time and venue document

   i. Financial Bids will be opened in the Committee room, Central University of Jammu. If the office happens to be closed on the date of opening of the bids as specified, these will be opened on the next working day or any subsequent date at the same time and venue.

   ii. Financial bid will be downloaded and opened only after technical evaluation is complete and financial bids of only those bidders will be opened who are technically substantially responsive.
7. The bid for the work shall remain open for acceptance for a period of **120 days** from the date of opening of bids. If any bidder/tenderer withdraws his bid/tender before the said period or makes any modifications in the terms and conditions of the bid, his earnest money shall stand forfeited.
8. No Engineer of Gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the State Government/University is allowed to work as a Contractor for a period of two years after his retirement from Government service, without permission of the Government. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government as aforesaid before submission of the tender or engagement in the Contractor's Service.
9. Other details can be seen in the bidding documents.

10. **INSTRUCTIONS TO BIDDERS FOR E-TENDER:**

Special Instructions for e-Tender. Submission of online Bids is mandatory for this Tender. For conducting electronic tendering, CUJ is using the portal https://cujammu.euniwizarde.com of M/s ITI Ltd, a Government of India Undertaking.

10.0 Tender Bidding Methodology:

The offer should be submitted through e-tendering mode in the website https://cujammu.euniwizarde.com containing two e-bid viz. Technical and Financial Bid. The Bids will be uploaded along with all signed and scanned documents those are required for particular tender.

10.1 Digital Certificate:

It is mandatory for all the bidders to have class-III Digital Signature Certificate – Signing + Encryption (in the name of person who will sign the Bid) from any of the licensed Certifying Agency (Bidders can see the list of licensed CA's from the link www.cca.gov.in) to participate in e-tendering.

10.2 Registration:

To participate in the e-tendering submission, it is mandatory for applicants to get registered their firm/company in e-tendering portal of ITI. https://cujammu.euniwizarde.com to have user ID & password from M/s ITL Ltd., The Annual registration charges for vendors/suppliers are Rs.2000/+18%GST-per annum (Pay Online). The procedure for the registration is as under:

1) Go to the website https://cujammu.euniwizarde.com In the home page, click on "Registration"

2) In the Vendor Registration form, vendor has to fill up the all mandatory applicant details. After submission of registration form, you will get the verification link on your registered Email id, after verification you log in your account with your user id and password and complete the all activity related to registration etc. Document uploading, paid registration fee, after completion of registration payment, you need to send your acknowledgement copy on our held desk mail id helpdeskeuniwizarde@gmail.com ewizardhelpdesk@gmail.com for activation of your account.

10.3 SEARCHING FOR ONLINE TENDER DOCUMENTS

There are various search options built in the e-tender Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Item/work id, Title, Date, etc.

Once the bidders had selected the tenders in which they are interested, bidder can pay the processing fee **Rs. 2904 + 18% GST (NOT REFUNDABLE)** by Net-banking / Debit / Credit card then you may download the required documents / tender schedules, Bid documents etc. Once you pay both fees, tenders will be moved to the respective "Register" Tab. This would enable the e-tender Portal to intimate the bidders through e-mail in case there is any corrigendum issued to the tender document.

Please feel free to contact ITI Helpdesk (as given below) for any query related to e-tendering.

1. **Helpdesk landline No: 011-49606060**
2. **Mr. Varun Tomer +919205898229**
3. **Mr. Birendra Kumar +919205898228**

SECTION 2: INSTRUCTIONS TO BIDDERS (ITB)

1. SCOPE OF BID

1.1 The Executive Engineer as a representative of the Vice Chancellor, Central University of Jammu invites bids for the ***Supply, Installation, Testing & Commissioning of Passenger Lift in the building of Satish dhawan centre for space science in Central University of Jammu, Bagla, Rahya suchani , Distt. Samba .***

1.2 The successful Bidder will be expected to complete the work within 60 days

1.3 Throughout these documents, the terms "bid" and "tender" and their derivatives (bidder/tenderer, bid/tender, bidding/tendering etc.) are synonymous.

2. SOURCE OF FUNDS

2.1 The expenditure on the budget will be met from the ISRO ,Govt. of India under the Sanctioned scheme.

3. ELIGIBLE BIDDERS

3.1 This Invitation for Bids is open to all bidders as defined in the Appendix to ITB.

3.2 Bidders shall provide a declaration of not having declared ineligible for corrupt and fraudulent practices in the Central Government, the State Government or any public undertaking, autonomous body, authority by whatever name called under the Central or the State Government.

4. QUALIFICATION OF THE BIDDER

4.1 Technical Qualification:

a. The tenderers must satisfy themselves that they have adequate experience of **Supply, Installation, Testing, Commissioning and Maintenance of Lift** within the stipulated time schedule. They should produce documentary proof of satisfactory completion of at least one job of similar nature costing not less than Rs 32 lakhs or two jobs of similar nature, costing not less than Rs 20 lakhs each or three similar jobs of Rs 16 lakhs each, for Government, Semi-Government, Public Sector Organization in last five years from the date of advertisement with complete details, name, address & phone nos. of clients etc. Similar jobs means Supply, Installation, Testing, Commissioning and Maintenance of Lift.

b. The Authorized Service Centre of the lift should be available within 250 Km radius of the Central University of Jammu main Campus at Bagla, Distt. Samba. Details regarding the location of nearest service Centres should also be enclosed.

c. Annual Report (Balance sheet and Profit and Loss Account of last 3 Years ending March 31 of previous financial year .The average annual turnover shall be at least 30% of total estimated cost .

d. Details of projects in hand with name of clients, addresses & phone nos.

e. Copy of GST number

f. Copy of Permanent Account Number (PAN)

5. ONE BID PER BIDDER

5.1 Each Bidder shall submit only one Bid for one work. A Bidder who submits more than one Bid will cause the proposals with the Bidder's participation, to be disqualified.

6. COST OF BIDDING

6.1 The Bidder shall bear all costs associated with the preparation and submission of his Bid and the Employer will, in no case be responsible or liable for those costs.

7. SITE VISIT

7.1 The site is located in the campus of Central University of Jammu. It is located near village Suchani about 8km from NH-44 Rahya- Morh

The Bidder, at his own cost, responsibility and risk is encouraged to visit, examine and familiarize himself with the site of works and its surroundings and obtain all information that may be necessary for preparing the Bid and entering into a contract for the work. The costs of visiting the site shall be at the Bidder's own expense. He may contact the Executive Engineer in-charge of work for any guidance relating to site visit. The Bidder shall be deemed to have carefully examined the work and site conditions including labour, the general and special conditions, the specifications, schedule and drawings and shall be deemed to have visited the site of work to have fully informed

himself regarding the local conditions and carried out his own investigation to arrive at ***the rates quoted in the tender***

8. PRE-BID MEETING

8.1 If a pre-bid meeting is to be held, the bidder or his authorized representative is invited to attend it as per date, time and address

8.2 The purpose of the meeting will be to clarify issues and to answer the questions on any matter that may be raised at that stage.

8.3 The bidder is requested to submit any questions in writing or by email so as to reach the Employer not later than one week before the meeting..

8.4 Non-attendance at the pre-bid meeting will not be a cause for disqualification of a bidder.

8.5 The employer will not respond to any queries / request made after pre-bid meeting

9. AMENDMENT OF BIDDING DOCUMENTS

9.1. Before the deadline for submission of bids, the Employer may modify the bidding documents by issuing addendum and corrigendum.

9.2 Any addendum and corrigendum thus issued shall be part of the bidding documents and shall be uploaded on the official website of the University.

9.3 To give prospective bidders reasonable time to take an addendum/corrigendum into account, in preparing their bids the Employer shall extend, as necessary, the deadline for submission of bids in accordance with Clause 17 of ITB.

10. DOCUMENT COMPRISING THE BID

Part 1 . This shall be named technical bid and shall comprises of list of documents (*Bidders are advised to use "My Documents" area in their user on Central University of Jammu's e-Tendering portal (https://cujammu.euniwizarde.com/) to store their following documents which are used in all Tenders and attach these certificates as Non-Statutory documents while submitting their bids):*

1. **Successful completion certificate of a work** _____ (**specify the work)** _____ **of amount executed during the last five years** *duly issued by an officer not below the rank of Executive Engineer or equivalent*

2. **Details regarding the location of nearest Authorized Service Centres .**

3. **Balance Sheet and Profit & Loss Account for last 3 years ending March 31 of previous financial year.**

4. **Details of Projects in hand.**

5. **Earnest Money**

6. **Copy of Pan Card**

7. **Copy of GST Number.**

8. **Format of Technical Data to be filled by the tenderer.**

9. **Affidavit for correct information and all the undertakings required as per the tender shown in various clause.**

10. **Documents supporting the Eligibility Criteria of the lift Manufacturers as per Clause 12 of General Conditions of Contract.**

Note :- Original instrument in respect of EMD copy and relevant Technical Bid document must be delivered in the Office of the Executive Engineer, Central University of Jammu , (as per tender conditions) on or before 21-10-2020 upto 12:00 Hrs. otherwise, the tender will be rejected.

Part II : It shall be named Financial Bid and will be in electronic format comprising of :

i. Form of Bid

ii. Each part shall be separately submitted online.

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11. BID PRICES

11.1 The Bidder shall adopt the Percentage Rate as specified in the Form of Bid

11.2 Corrections, if any, shall be made by crossing out, initialing, dating and rewriting.

11.3 All duties, taxes, royalties and other levies including GST & 1% Labour Cess payable by the contractor under the contract or for any other cause, shall be included in the rates, prices and total Bid price submitted by the Bidder.

11.4 The rates and prices quoted by the Bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.

12. CURRENCIES OF BID AND PAYMENT

12.1 The unit rates and the prices shall be quoted by the bidder entirely in Indian Rupees. All payments shall be made in India Rupees

13. BID VALIDITY

13.1 Bids shall remain valid for a period of one hundred twenty days (120) days after the deadline date for bid submission specified in Clause 17 of ITB. A bid valid for a shorter period shall be rejected by the Employer as non-responsive

13.2 In exceptional circumstances, prior to expiry of the original time limit, the employer may request the bidder to extend the period of validity for a specified additional period. The request and the bidder's responses shall be made in writing. A bidder may refuse the request without forfeiting his earnest money. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his earnest money for a period of the extension, and in compliance with Clause 15 of ITB in all respects.

14. EARNEST MONEY

14.1 The bidder shall furnish, as part of the Bid, Earnest Money of Rs.45,750/- in electronic, as well as, Hard Copy.

14.2 The Earnest money of the Successful bidder will be discharged/ released when the bidder has signed the Agreement and furnish the required Performance Security.

14.3 Any bid not accompanied by an earnest money shall be rejected by the employer as non – responsive.

14.4. The earnest money of unsuccessful bidders will be returned within the Bid validity period.

14.5. The earnest money will be forfeited:

a) If the bidder withdraws the Bid after technical bid opening on cut-off date during the period of Bid validity;

b) In the case of a successful Bidder, if the Bidder fails within the specified time limit to :
   i) Sign the Agreement; and/or
   ii) Furnish the required performance security

D. SUBMISSION OF BIDS

15. SUBMISSION OF BIDS

15.1 The Bidder shall submit separately "Technical Bid" and "Financial Bid".

Technical Bid: to be opened on 21-*10*-*2020* **at 15:00 Hrs** in the presence of Technical Bid Opening Committee**.**

Financial Bid: Shall be opened of technically qualified bidders only.

16. DEADLINE FOR SUBMISSION OF BIDS

16.1 Complete Bids (including Technical and Financial) must be submitted online not later than the 21-10-2020 **upto 12:00 hrs**.

16.2 The employer may extend the deadline for submission of bids by issuing an amendment in accordance with Clause 9 of ITB, in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline will then be subject to the new deadline.

17. *LATE BIDS*

17.1 Any Bid received by the Employer after the deadline prescribed in Clause 17 of ITB will be returned unopened to the Bidder.

F. AWARD OF CONTRACT

18. *AWARD CRITERIA*

18.1 The Employer will award the contract to the Bidder whose Bid has been determined:

i) To be substantially responsive to the bidding documents and who has offered the lowest evaluated Bid price, provide that such Bidder has been determined to be eligible in accordance with the provisions of Clause 4 of ITB.

19. *EMPLOYER'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS*

19.1 The Employer reserves the right to accept or reject any Bid, and to cancel the bidding process and reject all bids, at any time prior to the award of contract, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for the Employer's action

20. *NOTIFICATION OF AWARD AND SIGNING OF AGREEMENT*

20.1 The Bidder whose Bid has been accepted will be notified of the award by the employer prior to expiry of the bid validity period by Email and confirmed by registered letter. This letter will state the sum that the employer will pay to the contractor in consideration of the execution, completion by the contractor as prescribed by the contract (hereinafter and in the Contract called the "Contract Sum").

20.2 The notification of award will constitute the formation of the contract subject only to the furnishing of a performance security in accordance with the provision of Clause 21.

20.3 The agreement will incorporate all agreements between the Employer and the successful Bidder after the performance security is furnished.

20.4 Upon the furnishing by the successful Bidder of the performance security, the employer will promptly notify the other bidders that their bids have been unsuccessful.

21. ***PERFORMANCE SECURITY***

21.1 Within **10 (ten) days** after receipt of the letter of Acceptance, the successful Bidder shall deliver to employer a Performance Security @ 5% of tender cost having validity upto 26 months from the completion of work. EMD will be released after submission of performance security.

21.2 In case L-1 bidder fails to deposit the performance security within 10 days from the date of intimation, offer will be given to 2nd lowest bidder on the rates of 1st lowest bidder if acceptable to him (2nd lowest bidder). In case the 2nd lowest bidder declines the offer, the department will be at liberty to invite the fresh tenders.

21.3 The performance security shall be in the form of Fixed Deposit Receipts/Call Deposit Receipt/Bank guarantee (A/C PAYEE DEMAND DRAFT/FIXED DEPOSIT RECEIPT/BANK GUARANTEE) from a scheduled nationalized bank, in the name of the Finance Officer, Central University of Jammu.

21.4 Failure of the successful Bidder to comply with the requirements of Clause 22.1 shall constitute sufficient grounds for cancellation of the award and forfeiture of the Earnest Money. He will also be debarred from participating in bids under requisite heads for one year.

21.5 If the Bid of the successful Bidder is seriously unbalanced i.e less by 15% or more of the advertised amount the of work to be performed under the contract, the employer may require the Bidder to produce detailed price analysis for any or all Items to demonstrate the internal consistency of those prices with the methods and schedule proposed. After evaluation of the price analysis, the Employer may require that the amount of the performance security set forth in Clause 22.1 of ITB be increased at the expense of the successful Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the contract. In such case, the bidder i.e L-1 bidder shall furnish an additional Performance Security in shape of BG @ 5% of the advertised amount from any nationalized Bank, for the period of 26 Months from the completion of work.

22. ***CORRUPT OR FRAUDULENT PRACTICES***

The employer requires the bidders/contractors to strictly observe the laws against fraud and corrupt practices enforce in India, namely, prevention of corruption Act, 1988.

23. **Advance Payment**: No Advance Payment whatsoever shall be made by the department to the Contractor.

24. **Secured Advance Payment:** No Secured Advance Payment whatsoever shall be made by the department to the Contractor against the material brought to site.

APPENDIX TO ITB

The Employer should fill out this Appendix to ITB before issuing the bidding documents. The insertions should correspond to the information provided in the Invitation for Bids.

Instructions to Bidders

CLAUSE REFERENCE

(1.1) The Employer Is The Vice Chancellor, Central University of Jammu

(1.2) The Works is : **Supply, Installation, Testing & Commissioning of Lift in building of Satish Dhawan centre for space science in Central University of Jammu,Bagla Rahya suchani , Distt. Samba**

(2.1) The Place : **Rahya-Suchani , Distt. Samba-181143**

(3.1) Eligible Bidders are: **As per tender condition in the NIT**

(4.1). The contact person is: **Er. Vishal Bargotra**
Designation: **Executive Engineer**
Address: Rahya- Suchani (Village – Bagla), Distt. Samba (J&K)-181143
Telephone No. 7889841455

(5.1). Place, Time and Date for pre-bid meeting are:

Office of the Executive Engineer, Central University of Jammu, Rahya- Suchani (Village – Bagla), Distt. Samba (J&K)-181143
Time: ***15:00 Hrs***
Date: *12-10-2020*

(6.1). The other documents required are: As detailed in the relevant sections of this document.

(7.1). The date, time and place for opening of the technical Bids are:

(A) Technical Bids
Date: *21-10-2020*
Time: ***15:00 Hrs***
Place: Office of the Executive Engineer, Central University of Jammu, Rahya- Suchani (Village – Bagla), Distt. Samba (J&K)-181143

(B) Financial Bid (For qualified bidder as)

Date: **Qualified Bidder will be informed after bid evaluation is completed**

Place: Committee Room, Central University of Jammu, Rahya- Suchani (Village – Bagla), Distt. Samba (J&K)-181143

(8.1). The amount and validity period of the Performance Guarantee is:

Amount: *5% of total amount quoted by Bidder*

Validity period:

(i) Performance security shall be valid upto 26 Months after the date of completion of work.

(ii) Additional Performance Security @ 5%of tender cost shall be valid upto two months after the expiry of intended completion date.

For and on behalf of Vice Chancellor, Central University of Jammu

Executive Engineer
Central University of Jammu

SECTION: 3

GENERAL CONDITIONS OF CONTRACT

GENERAL CONDITIONS OF CONTRACT

A. GENERAL

1. LANGUAGE AND LAW

1.1 The language of contract and the law governing the Contract are stated in Contract Data.

2. ENGINEER-IN-CHARGE'S DECISIONS

2.1 Except where otherwise specifically stated, the Engineer-in-charge will decide contractual matters between the employer and the contractor in the role representing the employer. However, if the Engineer-in-Charge is required under the rules and regulations and orders of the employer to obtain approval of some other authorities for specific actions, he will do so before such action.

2.2 Except as expressly stated in the contract, the Engineer-In-Charge shall not have any authority to relieve the contractor of any of his obligations under the contract unless and until approved by the Accepting Authority/Employer.

3. DELEGATION

3.1 The Engineer-in-charge with the approval of the Accepting Authority may delegate any of his duties and responsibilities to other people after notifying the contractor and may cancel any delegation after notifying the contractor.

4. COMMUNICATION

4.1 Communication between parties that are referred to in the conditions shall be effective only when in writing. A notice shall be effective only when it is delivered.

5. OTHER CONTRACTORS

5.1 The contractor shall cooperate and share the site with other contractors, public authorities utilities and the employer between the dates given in the schedule of other contractors as referred to in the contract Data. The Contractor shall also provide facilities and services for them as described in the schedule. The Employer may modify the schedule of other contractors and shall notify the contractor of any such modification.

5.2 The contractor should take up the works in convenient reaches as decided by the Engineer-in-Charge to ensure there is least hindrance to the smooth flow of traffic including movement of vehicles and equipment of other contractors till the completion of the works.

6. PERSONNEL

6.1 The contractor shall employ for the work, the technical personnel named in the contract data or other technical persons with the approval of the Engineer-in-Charge. The Engineer-in-Charge will approve any proposed replacement of technical personnel only if their relevant qualifications and abilities are substantially equal to or better than those of the personnel stated in the contract data.

6.2 If the Engineer-in-Charge asks the contractor to remove a person who is a member of the contractor's staff or work force stating the reasons, the contractor shall ensure that the person leaves the site within seven days and has no further connection with the works in the contract.

7. EMPLOYER'S AND CONTRACTOR'S RISKS

7.1 The Employer carries the risks, which this Contract states are "Employer's risks" and the contractor carries the risks, which this Contract states are "Contractor's Risks".

8. EMPLOYER'S RISKS

8.1 The Employer is responsible for the excepted risks, which are (a) in so far as they directly affect the execution of the works in the Employer's country the risks of war, invasion, act of foreign enemies, rebellion, revolution, insurrection or military or usurped power civil war riot commotion or disorder (unless restricted to the Contractor's employees) natural calamities and contamination from any nuclear fuel or nuclear waste or radioactive toxic explosive or (b) a cause due solely to the design of the Works other than the Contractor's design.

9. CONTRACTOR'S RISKS

9.1 All risks of loss of or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the contract other than the excepted risks referred to in Clause 10.1, are the responsibility of the contractor.

10. INSURANCE

10.1 The contractor at his cost shall provide in the joint names of the employer Authority and the Contractor, insurance cover from the Start Date to the end of the Defects Liability Period in the amounts and deductibles stated in the Contract Data for the following events which are due to the Contractor's risks.

a) Loss of or damage to the works, plant and materials
b) Loss of damage to Equipment;
c) Loss of or damage to property (Except the works, plant, materials and Equipment) in connection with the contract ; and
d) Personal injury or death

10.2 Insurance policies and certificates for insurance shall be delivered by the contractor to the Engineer-in-Charge for approval before the Start Date. All such insurance

shall provide for compensation to be payable in India Rupees to rectify the loss or damage incurred.

10.3 Alterations to the terms of insurance shall not be made without the approval of the Engineer-in-Charge.

10.4 Both parties shall comply with any conditions of the insurance policies.

11. SITE INVESTIGATION REPORT

11.1 Not Required.

12. ELIGIBILITY CRITERIA OF LIFT MANUFACTURERS:

12.1 The firm shall be a well-established company and shall be in the field of lift manufacturing (Design, fabrication, erection& maintenance of passenger, freight lifts as applicable) for a minimum period of 10 years.

12.2 The firm shall have experienced engineers & staff for design, fabrication and erection of passenger, freight lifts as applicable (The details of available man power to be submitted).

12.3 The firm should have an exclusive design wing with experienced design engineers.

12.4 The firm shall have well established Manufacturing unit with all the required fabrication and testing facilities of Lifts.

12.5 The firm shall have service setup with experienced service engineers & staff in respective location / city where lift installations are being proposed. For ISRO centres located away from major cities, the firm shall have service setup within close proximity of around 250 km range to attend any breakdown of lifts.

12.6 The firm should be capable of undertaking annual maintenance service contract with sufficient experienced service engineers & staff (Proof of running AMSC shall be submitted).

12.7 The firm shall have Nil Lift accident for a period of last 10 years. A certificate to this effect shall be furnished by the lift manufacturer.

12.8 The firm should have successfully executed similar nature & magnitude of lifts as indicated in the tender as applicable.

12.9 **The Bidder/firm has to assure spare parts supply for the elevators supplied for a minimum period of 15 years from the date of supply.** No plea of obsolescence will be entertained during this period for any non-availability of spare parts and consequent down time.

12.10 The necessary documentary evidence for all the above shall be submitted by the lift manufacturer along with the tender.

12.11 Department reserves the right to verify the documents submitted. Also if required and found necessary, Departmental committee shall visit and inspect the lift manufacturer's office, factory, lift installations (ongoing & completed works) to ascertain the credentials &capability of the lift manufacturer. The Department's decision in this regard will be final.

13. QUERRIES ABOUT THE CONTRACT DATA

13.1 The Engineer will clarify queries on the contract data.

14. CONTRACTOR TO CONSTRUCT THE WORKS

14.1 The Contractor shall construct and install and maintain the Works in accordance with the Specifications and Drawings

15. THE WORKS TO BE COMPLETED BY THE INTENDED COMPLETION DATE.

15.1 The Contractor may commence execution of the work on the start date and shall carry out the work in accordance with the programme submitted by the Contractor as updated with the approval of the Engineer-in-charge and complete them by the Intended Completion Date.

16. APPROVAL BY THE ENGINEER-IN-CHARGE.

16.1 The Contractor shall submit specifications and drawings showing the proposed Temporary works to the Engineer-in-Charge who is to approve them.

16.2 The contractor shall be responsible for design of Temporary works.

16.3 The Engineer-in-Charge's approval shall not alter the Contractor's responsibility for design of the Temporary works.

16.4 The Contractor shall obtain approval of third parties to the design of the Temporary works where required.

16.5 All Drawings prepared by the contractor for the execution of the temporary permanent works are subject to prior approval by the Engineer–in-charge before execution of such works.

17. SAFETY

17.1 The Contractor shall be responsible for the safety of all activities on the site.

17.2 All waste materials and other matters of any offensive nature shall be taken out once the works are completed. The contractor shall keep the works free from dangerous materials like industrial gases, welding machines and any such devices or material of toxic and poisonous nature shall not carry within the site or building any material which are explosive in nature. Any such offensive materials which are essentially required in course of work shall be undertaken with due written permission of the Employer provided such materials are permissible under Law.

18. DISCOVERIES

18.1 Anything of historical or other interest or of significant value unexpectedly discovered on the site shall be the property of the Employer. The contractor shall notify the Engineer-in-Charge of such discoveries and carry out the Engineer's instructions for dealing with them.

19. POSSESSION OF THE SITE

19.1 The Engineer-in-Charge shall give complete possession of the site to the contractor fifteen days in advance of the installation programme.

20. ACCESS TO THE SITE

20.1 The contractor shall allow access to the site and to any place where work in connection with the contract is being carried out, or is intended to be carried out to the Engineer-in-Charge and any person/persons/agency authorized by:

a. The Engineer-in-Charge.

b. The Employer.

20.2 Any authorised representatives of the Employer shall at all reasonable times have free access to the works and / or to the workshops, factories or other places where material or equipments are being prepared or constructed for the work and also to any place where the materials are lying or from where they are being obtained, and the contractor shall extend necessary facility to the Employer or their representatives for inspection examination and testing of the quality & workmanship of the materials.

21. ACCOUNTS RECEIPTS & VOUCHERS

The contractor shall, upon the request of the Employer furnish them with all the invoices, accounts, receipts and other vouchers that they may require in connection with the works under this contract. If the contractor shall use materials less than what is required under the contract, the value of the difference in the quantity of the materials that was required to use and that actually used shall be deducted from his dues. The decision of the Employer shall be final and binding on the contractor as to the amount of materials the contractor is required to use for any work under this contract. Time shall be considered as the essence of this Contract and the Contractor hereby agrees to commence the work soon after the site is handed over to him or agreement executed or from twenty first day after the date of issue of formal work order as provided for in the said conditions whichever is later and to complete the entire work within 2 Months subject nevertheless to the provisions for extension of time

22. INSTRUCTIONS

22.1 The Contractor shall carry out all instructions of the Engineer-in-Charge to comply with the applicable laws where the Site is located.

22.2 The contractor is to fix the equipments on the floor by means of appropriate method so that such equipments fixed on to the floor shall not fall by its own or by natural movements of wind, air normal human operations and shall adopt the best engineering traditions and use appropriate tools in such operations.

22.3 The contractor while fixing any material or equipment to be suspended from the ceiling, shall use fasteners of suitable strength to hold the weight of the suspended system/equipment or material and such fasteners shall be fixed by means of power drills. The contractor shall not chip the ceiling unless ordered & approved by the engineer-in-charge.

22.4 The contractor shall not puncture the existing civil structures like beams, columns and shall not undertake any type of activity which could affect the structural stability. He shall be responsible for any damages and costs in its rectification.

23. A. DISPUTE REDRESSAL SYSTEM

23.1 If any dispute or difference of any kind what-so-ever shall arise in connection with or arising out of this contract or the execution of works or maintenance of the works there under whether before its commencement or during the progress of Works or after the termination/abandonment or breach of the contract, it shall in the first instance be referred for settlement to the competent authority i.e. Vice Chancellor, Central University of Jammu.

The competent authority shall, within a period of forty-five days after being requested in writing by the Contractor to do so, convey his decision to the contractor in respect of every matter so referred. In case the work is already in progress, the Contractor shall proceed with the execution of the work, including maintenance thereof, pending receipt of the decision of the competent authority as aforesaid, with all due diligence. The decision of the competence authority shall be final & binding on both the parties.

B. PROCEDURE FOR RESOLUTION OF DISPUTES.

23.2 The Competent Authority mentioned in Clause 22.1 shall give a decision in writing within 45 days of receipt of a notification of dispute by adopting any procedure/process as deem fit by such authority. However, the competent authority can extend the said time limit of 45 days as deem fit in deciding the referred dispute with due intimation to both the parties.

23.3 In the event of any dispute or difference if arises, what so ever will be settled down amicably by negotiations. If any dispute which cannot be resolved by negotiation either party may refer the claims/dispute to be settled through the province of J&K Arbitration & Conciliation Act 1997, through an arbitrator .The Sole Arbitrator shall be any officer of university whose name is approved by Vice Chancellor and decision of such arbitrator shall be binding upon both the parties subject to Jurisdiction of courts within Jammu only.

IN WITNESS WHEREOF, the parties through their duly authorized representatives have executed these presents (execution whereof has been approved by the Competent Authorities of both the parties) on the day, month and year first above mentioned at CUJ, Samba.

23.4 Performance under the contract shall continue even after reference to the dispute resolution authority and payments due to the contractor by the employer shall not be withheld unless they are the subject matter of the referred disputes.

B. TIME CONTROL

24. PROGRAMME

24.1 Within 05 days of the date of issue of allotment of the contract, the contractor shall submit to the Engineer-in-Charge for his approval, the programme showing the

general methods, arrangements, order and timing for all the activities in the works, along with monthly cash flow forecasts for the execution of works.

24.2 An update of the programme shall be a programme showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining works, including any changes to the sequence of the activities.

24.3 The Contractor shall submit to the Engineer-in-Charge for approval an updated Programme at intervals no longer than **10 days**.

24.4 The Engineer-in-Charge's approval of the programme shall not alter the contractor's obligations. The contractor may revise the programme and submit it to the Engineer-in-Charge again at any time and the revised programme shall show the effect of variations and compensation events.

24.5 Labour for Traffic control/watch and ward as per necessity at site shall be supplied by the firm and nothing extra shall be paid in this behalf by the department.

25. EXTENSION OF THE INTENDED COMPLETION DATE

25.1 The Engineer-in-charge shall extend the intended completion date if a compensation event occurs or a variation is issued which makes it impossible for completion to be achieved by the intended completion date without the contractor taking steps to accelerate the remaining works which would cause the contractor to incur additional cost.

25.2 The Engineer-in-Charge shall decide whether and by how much time to extend the intended completion date within 30 days of the Contractor asking the Engineer-in-Charge for a decision upon the effects of a Compensation Events of variation and submitting full supporting information. If the Contractor has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new intended completion date.

26. DELAYS ORDERED BY THE ENGINEER-IN-CHARGE

26.1 The Engineer-in-Charge may instruct the Contractor to delay or start or progress of any activity within the works. Delay/delays totaling more than 10 days will require prior written approval of the Competent Authority.

27. MANAGEMENT MEETINGS

27.1 The Engineer-in-Charge may require the contractor to attend a management meeting. The business of a management meeting shall be to review the progress of the works.

27.2 The Engineer-in-Charge shall record the business of management meetings and provide copies of the record to those attending the meeting. The responsibility of the parties for action to be taken shall be decided by the Engineer-in-Charge either at the management meeting or after the management meeting and stated in writing to all those who attended the meeting.

C. QUALITY CONTROL

28. IDENTIFYING DEFECTS

28.1 The Engineer-in-Charge shall check the Contractor's work and notify the contractor of any defects that are found. Such checking shall not absolve the contractor from his responsibilities with regard to quality of work.

28.2 No payment shall be made without the required test from the authorised lab(s).

29. CORRECTION OF DEFECTS NOTICED DURING THE DEFECT LIABILITY PERIOD OF 24 MONTHS

29.1 The Engineer-in-Charge shall give notice to the Contractor of any Defects before the end of Defect Liability period which shall begin on completion of work and ends after Two years. **The defects liability period shall be extended for as long as defects remain to be corrected.**

29.2 Every time notice of defect/defects is given to the contractor, he shall correct the notified defect/defects within the length of time specified in the Engineer-in-Charge's notice.

30. DOWN TIME

30.1 Response time of fault-repair calls shall be 12 hours or less and actual repair time shall not exceed 24 hours. For any period in excess, due intimation shall be given in advance.

30.2 For shut down for routine/periodical maintenance, due intimation shall be given in advance for approval.

30.3 Command and Indication buttons etc. shall be as per choice of the owner and Architect.

30.4 The bidders are advised to quote for AMC of the elevator, as specified in the Price Bid. The AMC amounts will also be considered for evaluation of the Bids. However work order for AMC will be issued for each year after the expiry of the Defect Liability Period of two (2) Years.

31. ANNUAL MAINTENANCE CONTRACT:

31.1 The tenderer should provide the proposal of Annual Maintenance Contract (AMC) of the lift the next four years after the completion of the DLP in order to access the probable expenditure for the maintenance of lift in the future.

32. UNCORRECTED DEFECTS

32.1 If the Contractor has not corrected a defect pertaining to the defect liability period to the satisfaction of the Engineer-in-Charge within the time specified in the Engineer-in-Charge's notice, the Engineer will assess the cost of having the defect corrected and the contractor will pay this amount on correction of the defect or the same can be recovered from any amount due to him.

33. POWER TO MAKE ALTERATIONS

Architect/Executive Incharge shall have power to make any alterations or additions to the stipulated specifications, drawings, designs, and in striations that may appeal to him to be necessary or, advisable during the progress of the work and the contractor shall have no claim for compensation on account of such alterations or additions. The contractor shall be bound to carry out the work in accordance with any instructions which be given to him in writing signed by the Architect/ Executive Engineer and such alterations shall not invalidate the contract and any additional work which the contractor be directed to do in the manner above specified as part of the work shall be carried out by the contractor on the same conditions in all respects on which he agreed to do the main work and at the same rates as are specified in the tender for the main work. The time for the completion of the work shall be extended in the proportion that the additional work bears to the original contract work and the certificate of the Architect/Executive Engineer shall be conclusive as to such proportions.

D. COST CONTROL

34. MEASUREMENT & PAYMENT

34.1 All bills supported with measurement details shall be submitted by the contractor fortnightly to the Executive Engineer for all works executed in the previous period and the Executive Engineer or his representative shall verify the requisite measurement for the purpose of having the same verified for the claim as far as admissible, if possible before the expiry of 25 days from the presentation of the bill. All measurements to be taken in duplicate and all bills shall be submitted in triplicate along with a contractor's copy of each.

34.2 50% after initial inspection and delivery at site in good condition on pro-rata basis,
35% of awarded value after successful installation,
10% of award value after handing over to the department for beneficial use.
5% will be retention amount and shall be released after the expiry of DLP.

34.3 No claim for interest will be entertained by the Employer with respect to any moneys or balances which be in its hands owing to a dispute between itself and the contractor or with respect of any delay on the part of the employer in making interim or final payments or otherwise.

34.4 Payment shall be adjusted for deductions for security deposit other recoveries in terms of the contract and taxes at source as applicable under the law.

34.5 The Employer may appoint Finance Officer, CUJ as specified in the Contract data (or any other competent person appointed by the Employer and notified to the contractor) to make payment certified by the Executive Engineer.

34.6 The payment of items of work when a contractor / firm has quoted rate higher than advertised rate shall be paid as per advertised rates only till such time the contractor / firm complete and the finish the items of work for which he has quoted less rate than the advertised rates.

35. ***Carrying out part work at risk & cost of contractor***

If contractor:

35.1 (At any time makes default during currency of work or does not execute any part of the work with due diligence and continues to do so even after a notice in writing of 7 days in this respect from the Engineer-in-Charge; or

35.2 Commits default in complying with any of the terms and conditions of the contract and does not remedy it or takes effective steps to remedy it within 7 days even after a notice in writing is given in that behalf by the Engineer-in-Charge; or

35.3 Fails to complete the work(s) or items of work with individual dates of completion, on or before the date(s) so determined, and does not complete them within the period specified in the notice given in writing in that behalf by the Engineer-in-Charge.

35.4 The Engineer- in-Charge without prejudice to any other right or remedy against the contractor which have either accrued or accrue thereafter to Government, by a notice in writing to take the part work / part incomplete work of any item(s) out of his hands and shall have powers to:

(a) Take possession of the site and any materials, constructional plant, implements, stores, etc., thereon; and/or

(b) Carry out the part work / part incomplete work of any item(s) by any means at the risk and cost of the contractor.

35.5 The Engineer-in-Charge shall determine the amount, if any, is recoverable from the contractor for completion of the part work/ part incomplete work of any item(s) taken out of his hands and execute at the risk and cost of the contractor, the liability of contractor on account of loss or damage suffered by Government because of action under this clause shall not exceed 10% of the tendered value of the work.

35.6 In determining the amount, credit shall be given to the contractor with the value of work done in all respect in the same manner and at the same rate as if it had been carried out by the original contractor under the terms of his contract, the value of contractor's materials taken over and incorporated in the work and use of plant and machinery belonging to the contractor. The certificate of the Engineer-in-Charge as to the value of work done shall be final and conclusive against the contractor provided always that action under this clause shall only be taken after giving notice in writing to the contractor. Provided also that if the expenses incurred by the CUJ are less than the amount payable to the contractor at his agreement rates, the difference shall not be payable to the contractor.

35.7 Any excess expenditure incurred or to be incurred by Government in completing the part work/ part incomplete work of any item(s) or the excess loss of damages suffered or may be suffered by Government as aforesaid after allowing such

credit shall without prejudice to any other right or remedy available to Government in law or per as agreement be recovered from any money due to the contractor on any account, and if such money is insufficient, the contractor shall be called upon in writing and shall be liable to pay the same within 30 days.

35.8 If the contractor fails to pay the required sum within the aforesaid period of 30 days, the Engineer-in-Charge shall have the right to sell any or all of the contractors' unused materials, constructional plant, implements, temporary building at site etc. and adjust the proceeds of sale thereof towards the dues recoverable from the contractor under the contract and if thereafter there remains any balance outstanding, it shall be recovered in accordance with the provisions of the contract.

35.9 In the event of above course being adopted by the Engineer-in-Charge, the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements or made any advance on any account or with a view to the execution of the work or the performance of the contract.

36. Final Bill

Final bill supported with consolidated measurement of the full work executed shall be submitted by the contractor within 1 month of completion of work.When the final bill has been verified and corrected, the Engineer in Charge will give 14 days' notice to the contractor to countersign the bill in token of acceptance, the contractor shall countersign the bill within the above 14 days or intimate in writing his intention to dispute. If the contractor fail to take appropriate action as above within the period prescribed, the bill finalised by the Engineer in Charge or his representative shall be final and binding on the contractor and the contractor shall have no right to dispute the same.

37. Claim for Interest

No claim for interest will be entertained by the Employer with respect to any moneys or balances which be in its hands owing to a dispute between itself and the contractor or with respect of any delay on the part of the employer in making interim or final payments or otherwise.

38. Rates for extra Additional, Altered or Substituted work

The rates for additional, altered or substituted work shall be worked out in accordance with the following provisions in their respective order:

If the rates for similar additional, altered or substituted work and directly available in the contract for the work, the contractor is bound to carry out the work at the same rates as are available in the contract for the work.

i) If the rates for additional, altered or substituted work are not directly available in the contract for the work the rates will be derived from the rates for a similar class of work as are specified in the contract for the work.

ii) If the rates for the altered, additional or substituted work cannot be determined in the manner specified in sub-clause (I) to (ii) above, then the contractor shall within three days of the date of receipt of order to carry out the work, inform the Executive Engineer of the rate which it is intended to charge for such works supported by analysis of the rate or rates claimed. Rates finalized and approved by the Executive Engineer on the basis of these details will be final and binding. However, the architect by notice in writing will be at liberty to cancel his order to execute such work and arrange to carry it out in such a manner as he deem advisable, but under no circumstances shall the contractor suspend the work once ordered in writing on the plea of non -settlement of rate.

39. <u>Reimbursement of Variation in Price</u>

Prices and rates quoted by the bidders shall be considered as firm for the complete work and entire duration of the contract. No claim for extra payment due to any rise in rates of raw material and labour or due to whatsoever reasons shall be considered, not even for extended period of completion.

<u>For Project and original works:</u>

A) Deviation, Extra Items and Pricing

In the case of extra item(s) (items that are completely new, and are in addition to the items contained in the contract), the contractor may within fifteen days of receipt of order or occurrence of the item(s) claim rates, supported by proper analysis, for the work and the engineer-in-charge shall within prescribed time limit of the receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.

For Maintenance works including works of upgradation, aesthetic, special repair, addition/ alteration: In the case of Extra Item(s) being the schedule items (Delhi Schedule of Rates items), these shall be paid as per the schedule rate plus cost index (at the time of tender) plus/minus percentage above/ below quoted contract amount. Payment of Extra items in case of non-schedule items (Non-DSR items) shall be made as per the prevailing market rate.

B) Deviation, Substituted Items,

Pricing In the case of substituted items (items that are taken up with partial substitution or in lieu of items 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.

(a) 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).

(b) 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).

For Maintenance works including works of upgradation, aesthetic, special repair, addition/ alteration: In the case of Substitute Item(s) being the schedule items (Delhi Schedule of Rates items), these shall be paid as per the schedule rate plus cost index (at the time of tender) plus/minus percentage above/ below quoted contract amount. Payment of Substitute in case of non-schedule items (Non-DSR items) shall be made as per the prevailing market rate.

40. ***COMPENSATION EVENTS***

40.1 The following shall be compensation events unless they are caused by the contractor

a) The Engineer orders a delay or delays exceeding a total of 30 days.

40.2 If a compensation event would prevent the works being completed before the intended completion date the intended completion date shall be extended. The Engineer shall decide whether and by how much the intended completion date shall be extended, however no claim on account of extended period of time shall be entertained.

41. TAXES

41.1 The rates quoted by the Contractor shall be inclusive of the sales / Turnover Taxes and other levies, duties, royalties, cess, toll, taxes of central and state Govt. local bodies and authorities including GST & 1% Labour Cess that the contractor will have to pay for the performance of this contract. The employer will perform such duties in regard to the deduction of such taxes at source as per applicable law.

42. CURRENCIES

42.1 All payments will be made in Indian Rupees.

43. RETENTION MONEY

43.1 The Employer shall retain Retention money @ five percent (5%) of the Tender amount from each payment due to the contractor until Defect Liability period of the works.

43.2 The Retention money and additional Performance security will be released to the contractor as under:-

a) Additional Performance security as the case may be shall be released two months after the successful completion of work to the satisfaction of the Engineer-In-Charge and

b) 5% of Retention money of the contractor shall be released after Defect Liability period of Two years, is over.

44. LIQUIDATED DAMAGES

44.1 The Time is an essence of the contract. If the contractor is not able to achieve the desired progress as stipulated in the prescribed mile stone in the contract data to general condition of the contract at S.No.23, the Engineer-in-charge shall have the authority to impose the Liquidated Damages. However, in case the Contractor achieves the next mile stone, the amount of the Liquidated Damages already withheld shall be restored to the Contractor by adjustment in the payment certificate.

44.2 In the event of failure on part of the Contractor to achieve timely completion of the project including any extension of time granted under Clause 24 of GCC, he shall, without prejudice to any other right or remedy available under the law to the Employer on account of such breach, pay as agreed Liquidated Damages to the Employer and not by way of penalty, as a sum calculated at the rate of 1.5% (one and half percent) per week or part thereof as stated in the Contract Data. For the period that the completion date is later than the intended completion date, Liquidated Damages at the same rate shall be levied if the Contractor fails to achieve the Mile Stones prescribed in the Contract Data. Both the parties expressly agree that the total amount of Liquidated Damages shall not exceed 10% of initial contract price and that the Liquidated Damages payable by the Contractor are mutually agreed genuine pre-estimated loss and without any proof of actual damage likely to be suffered and incurred by the Employer & the Employer is entitled to receive the same and are not by way of penalty. The Employer may, without prejudice to any other method of recovery, deduct the amount of such damages from any sum due, or to become due to the Contractor or from performance security or any other dues from Government or Semi-Government body within the State. The payment or deduction of such damages shall not relieve the Contractor from his obligations to complete the works, or from any other of his duties, obligations or responsibilities under the contract. The Contractor shall use and continue to use his best endeavors to avoid or reduce further delay to the works, or any other relevant stages.

44.3 It is agreed by the contractor that the decision of the Employer as to the Liquidated Damages payable by the Contractor under this clause shall be final and binding,

45. SECURITIES

45.1 The performance security equal to 5% of the contract and additional EMD for unbalanced bids shall be provided to the Employer not later than the date specified in the letter of acceptance and shall be issued in the form given in the contract data and by a schedule commercial bank.

46. *COST OF REPAIRS*

46.1 Loss or damage to the works or materials to be incorporated in the works between the start date and the end of the defects correction periods shall be remedied by the

contractor at his cost if the loss or damage arises from the contractor's acts or omissions.

E. FINISHING THE CONTRACT

47. ***COMPLETION***

47.1 The contractor shall request the Engineer-in-Charge to issue a **certificate of completion of the works** and the Engineer will do so upon deciding that the works is completed.

48. ***TAKING OVER***

48.1 The employer shall take over the site and the works within 15 days of the Engineer-in-Charge's issuing a certificate of completion. The contractor shall continue to remain responsible for its routine maintenance during the maintenance period of 24 months for main work.

49. FINAL ACCOUNT

49.1 The contractor shall supply the Engineer-in-Charge with a detailed account of the total amount that the Contractor considers payable under the contract before the end of the defects liability period. The Engineer shall issue a defects liability certificate and certify any final payment that is due to the contractor within 30 days of receiving the contractor's account if it is correct and completed. If it is not, the Engineer shall issue within 30 days a schedule that states the scope of the corrections or additions that are necessary. If the final account is still unsatisfactory after it has been resubmitted the Engineer-in-Charge shall decide on the amount payable to the contractor and issue a payment certificate within 30 days of receiving the contractor's revised account. The payment will be made 30 days thereafter.

50. Completion Drawings

50.1 The contractor shall submit the written approval of the installation by different statutory authorities such as Electricity Board Authorities, Electrical inspectorate, lift inspector in respect of the different components of the installation and commission the system before asking for the Virtual Completion Certificate.

50.2 The contractor shall furnish set of drawings "As erected" and approved by different statutory authorities in approving the work in its entirety and completion. Getting approval from statutory government authority is responsibility of contractor.

50.3 In case the capacity/Rating/Performance of the equipment established during the performance test, fall below 1.5% of the contract capacity/ratings, the contractor shall pay compensation for each shortfall in capacity/rating on prorata cost of the system. The owner reserves his right to reject such equipment.

51. Operating and Maintenance Manuals/Warranty Certificates

51.1 If operating and maintenance manuals are required, the Contractor shall supply them by the dates stated by Engineer-in-Charge

51.2 If the Contractor does not supply the manuals by the dates stated in the Contract Data, or they do not receive the Engineer's approval, the Engineer shall withhold the amount stated in the Contract Data from payment due to the Contractor.

51.3 The Contractor shall provide the warranty Certificate of 2 years after the completion of the work.

52. TERMINATION

52.1 The employer may terminate the contract if the contractor cause a fundamental breach of the contract.

52.2 Fundamental breaches of contract shall include but shall not be limited to the following:

a) The contractor stops work for 28 days when no stoppage of work is shown on the current programme and the stoppage has not been authorized by the Engineer-in-Charge.

b) The contractor is declared as bankrupt or goes into liquidation other than for approval, reconstruction or amalgamation.

c) The Engineer-in-Charge gives Notice that failure to correct a particular defect is a fundamental breach of contract and the contract and the contractor fails to correct it within a reasonable period of time determined by the Engineer-in-Charge.

d) The contractor does not maintain a security which is required

e) The contractor has delayed the completion of the works by the number of days for which the maximum amount of liquidated damages can be paid as defined in Clause 39.

f) The contractor fails to provide insurance cover as required.

g) If the contractor in the judgment of the Employer has engaged in the corrupt or fraudulent practice in competing for or in executing the contract. For the purpose of this Clause "corrupt practice means the offering, giving, receiving or soliciting or anything of value to influence the action of a public official in

the procurement process or in contract execution. "Fraudulent practice":- means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Employer and includes collusive practice among "Bidders"(prior to or after bid submission) designed to establish bid process at artificial non-competitive levels and to deprive the Employer of the benefits of free and open competition.

h) If the contractor has not completed at least thirty percent of the value of construction work required to be completed after half of the completion period has elapsed;

i) Any other fundamental breaches as specified in the Contract data.

52.3 Notwithstanding the above, the Employer may terminate the Contract for convenience.

52.4 If the contract is terminated, the contractor shall stop work immediately, make the Site safe and secure, and leave the site as soon as reasonably possible.

53. PAYMENT UPON TERMINATION

53.1 If the contract is terminated because of a fundamental breach of contract by the contractor, the Engineer-in-Charge shall issue a certificate for the value of the work done less Liquidated damages, advance payments received up to the date of the issue of the certificate, less other recoveries due in terms of the contract, less taxes due to be deducted at source as per applicable law and less the percentage to apply to the work not completed as indicated in the Contract Data. If the amount due to the Employer exceeds any payment due to the Contractor the difference shall be recovered from the security deposit and performance security. If any amount is still left un-recovered it will be a debt payable to the Employer. If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer shall issue a certificate the difference shall be a debt payable to the Employer.

53.2 If the Contract is terminated at the Employer's convenience or because of a fundamental breach of Contract by the Employer, the Engineer shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works less other recoveries due in terms of the contract and less taxes due to be deducted at sources as per applicable law.

54. PROPERTY

54.1 All material on the Site, Plant, Equipment, Temporary Works and Works shall be deemed to be the property of the Employer for use for completing balance construction work if the contract is terminated because of the contractor's default.

55. RELEASE FROM PERFORMANCE

55.1 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Employer or the Contractor the Engineer shall certify

that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which commitment was made.

55.2 Death or permanent invalidity of the contractor: the contractor shall indicate nominee for the contract at the time of signing of the agreement. If the contractor dies during currency of the contractor or becomes permanently incapacitated, and his/her nominee are not willing to complete the contract, the contract shall be closed without levying any damages/compensation. However, if the nominee expresses his/her intention to complete, the balance work and the competent authority is satisfied about the competence of nominee, then the competent authority shall enter into a fresh agreement for the remaining work strictly on the same terms & conditions under which the contract was initially awarded.

F. ADDITIONAL CONDITIONS OF CONTRACT

56. Special Instructions

56.1 The tenderer shall design the equipment considering the site conditions. After award of contract no claim for extra payment will be entertained.

56.2 The connections between elevator frame and the respective building / columns shall be provided by the Contractor. The equipment shall be designed keeping in view the provisions of the statutory regulations and safety codes in force in the locality of installation. All such minor civil works like chipping, grouting, drilling, etc for fixing guide rails and other accessories are to be executed by the supplier only.

56.3 Within two weeks of placement of order, the Contractor shall furnish the details/ information as are necessary to carry out the alterations of entrance by purchaser.

56.4 The following drawing/ documents shall be submitted for approval before commencement of manufacture:

56.5 A general arrangement drawing indicating various dimensions, parameters, illumination and ventilation requirement, power requirement and characteristic of the elevator to be installed including load diagram and loadings to be taken into consideration in the machine room, elevator shaft and the elevator pit shall be submitted for approval of the purchaser within 2 weeks of placement of order.

56.6 The electrical scheme drawings, single line control circuit diagram, technical plan diagram, cable schedule, bill of materials etc.,

56.7 One copy of reproducible (polyster film) along with prints of approved drawings.

56.8 The copies of all operating manuals, maintenance schedules, lubrication charts, electrical power/ control circuit diagram, specification of the equipment, oils, lubricants and other consumables.

56.9 The supplier shall submit test Certificates for all electrical equipment, cables, and all parts used in handling loads, wire ropes, pulleys etc.

56.10 The supplier shall submit relevant material test Certificates for structural steel and mechanical components such as gear boxes, couplings, pulleys, shafts, gears etc.

56.11 The tenderer shall satisfy the purchaser/ his consultant that he possesses necessary technical knowhow and facilities to execute the order. Necessary particulars to establish the same shall be furnished alongwith the tender.

56.12 A write –up on testing facilities available in the works of tenderer shall be furnished.

56.13 The quotation shall also be given for all comprehensive maintenance Contract with full responsibility to carryout out repair and supply of required original spare parts to keep the elevator in fully operational condition for minimum period of 4 years after expiry of one year of free servicing and guarantee/warranty period.

57. Contractor shall ensure that minimum amount of assembly is necessary at site. Site assembly shall be avoided as far as possible.

58. <u>LABOUR</u>

The contractor shall, unless otherwise provided in the contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport.

The Contractor shall, if required by the Engineer, deliver to the Engineer a return in detail, in such form and at such intervals as the Engineer may prescribe, showing the staff and the numbers of the several classes of labour from time to time employed by the Contractor on the site and such there information as the Engineer may require.

59. <u>COMPLIANCE WITH LABOUR REGULATIONS</u>

During continuance of the contract, the contractor and his sub-contractors shall abide at all times by all existing labour enactments and rules made there under, regulation, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labour law in future either by the State or Central Government or the local authority. Salient features of some of the major labour laws that are applicable to construction industry are given below. The Contractor shall keep the employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/byelaws/Acts/Rules/regulations including amendments, if any, on the part of the contractor, the engineer/employer shall have the right to deduct any money due to the contractor including his amount of performance security. The employer/engineer shall also have right to recover from the contractor any sum required or estimated to be required for making good the loss or damage suffered by the employer. The employer of the contractor and the Sub-Contractor in no case shall be treated as the employees of the employer at any point of time.

SALIENT FEATURES OF SOME MAJOR LABOUR LAWS APPLICABLE TO ESTABLISHMENTS ENGAGED IN BUILDING AND OTHER CONSTRUCTIONWORK.

a) **Workmen Compensation Act 1923:** The Act provides for compensation in case of injury by accident arising out of and during the course of employment.

b) **Payment of Gratuity Act 1972:** Gratuity is payable to an employee under the Act on satisfaction of certain conditions on separation if an employee has completed 5 years'

service or more or on death the rate of 15 days wages for every completed year of service. The Act is applicable to all establishments employing 10 or more employees.

c) **Employees P.F. and Miscellaneous Provision Act 1952:** The Act Provides for monthly contributions by the

employer plus workers @ 10% or 8.33%. The benefits payable under the Act are: (i) Pension or family pension on retirement or death, as the case may be.(ii) Deposit linked insurance on the death in harness of the worker. (iii) Payment of P.F. accumulation on retirement/death etc.

d) **Maternity Benefit Act 1951:** The Act provides for leave and some other benefits to women employees in case of confinement or miscarriage etc.

e) **Contract Labour (Regulation & Abolition) Act 1970:** The Act provides for certain welfare measures to be provided by the Contractor to contract labour and in case the contractor fails to provide, the same are required to be provided, by the principal employer by law. The principal employer is required to take certificate of registration and the contractor is required to take license from the designated officer. The Act is applicable to the establishments or contractor of principal employer if they employ 20 or more contract labour.

f) **Minimum Wages Act 1948:** The employer is supposed to pay not less than the minimum wages fixed by appropriate government as per provisions of the Act if the employment is a scheduled employment. Construction of buildings, roads, and runways are scheduled employments.

g) **Payment of Wages Act 1936:** It lays down as to by what date the wages are to be paid, when it will be paid and what deductions can be made from the wages of the workers.

h) **Equal Remuneration Act 1979:** The Act provides for payment of equal wages for work of equal nature to Male and Female workers and for not making discrimination against Female employees in the matters of transfers, training and promotions etc.

i) **Payment of Bonus Act 1965:** The Act is applicable to all establishments employing 20 or more employees. The Act provides for payments of annual bonus subject to minimum of 8.33% of wages and maximum of 20% of wages to employees drawing Rs.3500/- per month or less. The bonus to be paid to employees getting Rs. 2500/-per month or above upto 3500/- per month shall be worked out by taking wages as Rs.2500/- per month only. The Act does not apply to certain establishments. The newly set up establishments are exempted for five years in certain circumstances. Some of the State Governments have reduced the employment size from 20 to 10 for the purpose of applicability of this Act.

j) **Industrial Disputes Act 1947:** The Act lays down the machinery and procedure for resolution of Industrial disputes, in what situations a strike or lock-out become illegal and what are the requirements for laying off or retrenching the employees or closing down the establishment.

k) **Industrial Employment (Standing Orders) Act 1946:** It is applicable to all establishments employing 100 or more workmen (employment size reduced by some of the State and Central Government to 50). The Act provides for laying down rules governing conditions of employment by the employer on matters provided in the Act and get the same certified by the designated Authority.

l) **Trade Unions Act 1926:** The Act lays down the procedure for registration of trade unions of workmen and employers. The Trade Unions registered under the Act have been given certain immunities from civil and criminal liabilities.

m) **Child Labour (Prohibition & Regulation) Act 1986:** The Act prohibits employment of children below 14 years of age in certain occupations and processes and provides for regulation of employment of children in all other occupations and processes. Employment of Child Labour is prohibited in Building and Construction Industry.

n) **Inter-State Migrant workmen's (Regulation of Employment & Conditions of**

Service) Act 1979: The Act is applicable to an establishment, which employs 5 or more inter-state migrant workmen through an intermediary (who has recruited workmen in one state for employment in the establishment situated in another state). The Inter-State migrant workmen, in an establishment to which this Act becomes applicable, are required to be provided certain facilities such as housing, medical aid, travelling expenses from home up to the establishment and back, etc.

o) **The Building and Other Construction workers (Regulation of Employment and Conditions of Service) Act 1996 and the Cess Act of 1996:** All the establishments who carry on any building or other construction work and employs 10 or more workers are covered under this Act. All such establishments are required to pay cess at the rate not exceeding 2% of the cost of construction as may be modified by the Government. The employer of the establishment is required to provide safety measures at the Building or construction work and other welfare measures, such as Canteens, First-Aid facilities, Ambulance, Housing accommodation for workers near the work place etc. The Employer to whom the Act applies has to obtain a registration certificate from the Registering Officer appointed by the Government.

p) Factories Act 1948: The Act lays down the procedure for approval of plans before setting up a factory, health and safety provisions, welfare provisions, working hours, annual earned leave and rendering information regarding accidents or dangerous occurrences to designated authorities. It is applicable to premises employing the prescribed minimum (say 10) persons or more with aid of power or another prescribed minimum (say 20) or more persons without the aid of power engaged in manufacturing process.

60. DRAWINGS AND PHOTOGRAPHS OF THE WORKS

The contractor shall do photograph /video photograph of the site firstly before the start of the work, secondly mid-way in the execution of different stages of work and

lastly after the completion of the work. No separate payment will be made to the contractor for this and shall submit a Hard copy and soft copy of the same to the Engineer-in-charge for record and reference.

The contractor shall not disclose details of drawings furnished to him and works on which he is engaged without the prior approval of the Engineer-in-Charge in writing. No photograph of the works or any part thereof or plant employed therein, except those permitted shall be taken or permitted by the contractor to be taken by any of his employees or any employees of his sub-contractors without the prior approval of the Engineer-in-Charge in writing. No Photographs /Video photography shall be published or otherwise circulated without the approval of the Engineer-in-Charge in writing.

61. THE APPRENTICES ACT 1961

The Contractor shall duly comply with the provision of the apprentices Act 1961 (III of 1961) the rules made there under and the orders that may be issued from time to time under the said Act and the said Rules and on his failure or neglect to do so he shall be subject to all liabilities and penalties provided by the said act and said Rules.

Death or permanent invalidity of the contractor: the contractor shall indicate nominee for the contract at the time of signing of the agreement. If the contractor dies during currency of the contractor or becomes permanently incapacitated, and his/her nominee are not willing to complete the contract, the contract shall be closed without levying any damages/compensation. However, if the nominee expresses his/her intention to complete, the balance work and the competent authority is satisfied about the competence of nominee, then the competent authority shall enter into a fresh agreement for the remaining work strictly on the same terms & conditions under which the contract was initially awarded.

62. OTHER CONDITIONS

A. The Employer / Engineer-in-Charge shall also have right to recover from the contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer

CONTRACT DATA TO GENERAL CONDITIONS OF CONTRACT

1. The Employer is The Vice Chancellor, Central University of Jammu (CI.I.I)

   Designation: Hon'ble Vice Chancellor, Central University of Jammu

   Address: Central University of Jammu
   Rahya- Suchani (Village – Bagla), Distt. Samba (J&K)-181143

2. Name of authorized Representative

The Engineer is: **Er. Vishal Bargotra**

Designation: **Executive Engineer**

Address: Rahya- Suchani (Village – Bagla), Distt. Samba (J&K)-181143

Telephone No. 7889841455

3. The Intended Completion Date for the whole of the works is 60 **days** after the start of work

4. Rectification of defects during defect liability period shall be carried out by the contractor at his own expenses to the entire satisfaction of the engineer in charge.

5. The site is located at **Central University of Jammu** Rahya- Suchani (Village – Bagla), Distt. Samba (J&K)**)**

6. The Start Date shall be **ten days** after the date of ALLOTMENT OF WORK.

(A) The name and identification number of the Contract is: **Supply, Installation,Testing & Commissioning of Passenger Lift in building of Satish Dhawan centre for space science in Central University of Jammu,Bagla Rahya suchani , Distt. Samba**

(B) The works consist of works of Supply, Installation, Testing & Commissioning of Lift as per the technical specification defined in this document.

(C) (a) Amount deductible for insurance : *(Cl. 12)*

As per prevalent norms/rules

(D) (a) Competent authority is:
Vice Chancellor, Central University of Jammu

(E) (a) The period for submission of the programme for approval of Engineer-in-Charge shall be 05 days from the issue of letter of Acceptance.

(b) The updated Programme shall be submitted at interval of **05 days**

(c) The amount to be withheld for late submission of an updated programme shall be **2% of cost**

(F) The Variation shall be paid as per Clause - 31 & 32 of GCC.

(G) The authorized person to make payments is Finance Officer, CUJ

(b) Maximum limit of liquidate damages for delay in completion of works is **10 percent of the Initial Contract Price, rounded off to the nearest thousand** at rate of 1.5% for delay of each week in the completion of work

(H) The Standard form of Performance Security acceptable to the Employer Shall be an **A/C PAYEE DEMAND DRAFT/FIXED DEPOSIT RECEIPT/BANK GUARANTEE** of the type as presented in the Bidder Documents.

(I) The Central University of Jammu shall not supply any material what so ever.

AFFIDAVIT

1. I, the undersigned, do hereby certify that all the statements made in the required statements are true & correct.

2. The undersigned also hereby certifies that neither our firms **M/S**_____ have abandoned any work in **PWD or in any other** Department nor any contract awarded to us for such works have been rescinded, during last five years prior to the date of this bid.

3. The undersigned, understand and agrees that further qualifying information may be requested and agrees to furnish any such information at the request of the department/project implementing authority.

_____

(Signed by an Authorized Officer of firm)

_____

(Title of Officer)

_____

(Name of Firm)

_____

(DATE)

SCOPE OF WORK

Applicable Standards

The following Indian Standard Specifications and Codes of Practice, currently applicable and updated as of date irrespective of dates given below, shall apply to the equipments and the work covered by this contract. In addition the relevant clauses of the Indian Electricity Act 1910 and Indian Electricity Rules 1956 as amended up to date shall also apply. Wherever appropriate Indian Standards are not available, relevant British and/or IEC Standards shall be applicable

1. Code of Practice for installation, operation and maintenance of electric passenger& goods lifts.IS-14665 (Part 2) Sec-1 :2000
2. Code of practice for installation, operation and maintenance of electric service lift.IS14665 (Part 2) Sec-2 : 2000
3. Safety Rules Section-1 Passenger and Good lifts IS-14665 (Part 3) Sec-1 : 2000
4. Safety Rules Section-2 – Service Lifts IS-14665 (Part 3) Sec-2 : 2000
5. Outline dimension for electric lifts. IS-14665 (Part-1) : 2000
6. Inspection Manual for Electric Lifts IS-14665 (Part 5) : 1999
7. Electric Traction Lifts – Components
8. Installation And Maintenance of Lifts For Handicapped Persons (Code of Practice) IS14665 (Part 4) Sec-1 to 9 :2001IS 15330 :2003
9. Specification for lifts cables. IS-4289 (Par-1) : 1984 Reaffirmed 1991
10. Specification for hot rolled and slit steel tee bars. IS-1173-1978 Reaffirmed 1987 11. Method of loading rating of worm gear. IS-7443-1974 Reaffirmed 1991
12. Code of practice for selection of standard worn and helical gear box.IS-7403-1974 Reaffirmed 1991
13. Isometrics screw threads. IS-4218-(Part-II)1976 Reaffirmed 1996
14. Degree of protection provided by enclosure for low voltage switchgear and control gear. IS-2147-1962
15. Classification of insulating materials for electrical machinery and apparatus in relation to their thermal stability in service. IS-1271- 1985 Reaffirmed 1990
16. Code of practice for earthing. IS-3043-1987
17. Electrical installation Fire Safety of Building. IS-1646-1997
18. PVC insulated electric cable for working voltage up to and including 1100 volts.IS694-1990
19. Code of practice for electrical wiring and installation IS-732-1989
20. PVC insulated (Heavy Duty) electric cables for working voltage up to and including 1100 volts. IS-1554-1988 (Part-1)
21. Flexible steel conduits IS-3480-1966
22. Accessories for rigid steel conduit for electrical wiring IS-3837-1976
23. Boxes for the enclosure of electrical accessories IS-5133-1969 (Part 1)

24 Guide for safety procedures and practices in electrical work. IS-5216 1982 (Part-1)
25. Conductors for insulated electric cables and flexible cordes IS-8130 1984
26. Miniature Circuit Breakers IS-8828-1996
27. Rigid steel conduits for electrical wiring (Second revisions) IS-9537- 1981
28 Methods of test for cables IS-10810-1998
29. Earth Leakage Circuit Breakers. IS-12640-1988
30. Moulded Case Circuit Breakers IS-13947-1993 225
31. General requirement for switchgear and control gear for voltage not exceeding 1000 volts.IS-13947-1993
32. 1100 volt grade XLPE insulated armoured cables IS 7098
33. Specifications for hoistway door-locks IS 7754-1975
34. Rules for design, installation, testing and operation of lifts, escalators and moving parts.IS 1735-1975 In addition the relevant clauses of the following, as amended upto date shall apply. The Indian Electricity Rules 1956 The Indian Electricity Act 1910 Fire safety regulations pertaining to lifts The tenderers shall also take into account local and State regulations as in vogue for the design and installation of lifts.

1. Technical Specifications - General

i	Location	Satish Dhawan Centre for Space Science at Central University of Jammu, Raya Suchani, Bagla, Distt. Samba, J&K.
ii	Type	Passenger elevator with MRL (Machine Room Less) Type An access window for maintenance of lift machineries may be provided towards staircase side. The overhead clearance from last landing of car and pit depth shall be as per standards.
iii	Control System	The control system shall be microprocessor based simplex selective collective controller system with / without attendant control.
iv	Quantity	One number
v	Capacity	8 passenger / 544 kg
vi	Speed	1.0 metre per second
vii	Travel	Vertical
Viii	No. of landings	3 stops (Ground + 2 upper floors)
ix	Power supply available at site	415 V AC, 3 phase, 50 Hz.
x	Landing and car door operation	Automatic power operated stainless steel panel sliding doors. The landing and car doors shall be of centre opening with automatic operation to provide a clear opening of 800 x 2000 mm or as per manufacturing standards. Car doors and landing doors shall be of stainless steel (1.5 mm

		hairline finish). The lift flooring shall be of anti skid granite or may match with lift lobby flooring.
xi	Signals	Landing calls registered indicators, up/ down (visual), digital position indicator in car and all landings
Xii	Machine	Gearless, placed directly above the hoist way
Xiii	Details of car body	Size: 1500 x 1550 mm/1100 x 1300 mm/1250 x 1150 mm deep. Height 2300 mm Made out of stainless steel with hairline finish and relevant standards
xiv	Maximum temperature	40° C
xv	Maximum humidity	100%
xvi	Auto Rescue Device (ARD) with suitable number of Batteries	To enable the lift to land at the nearest floor and the doors open automatically during power cut.
Xvii	Infrared curtain	Sensors to avoid closure of doors during passenger movement.
Xviii	INTERCOM & CCTV SYSTEM WITH NECESSARY PROVISION OF CABLING	Cabling and fixing Arrangement for CCTV & Intercom Unit
XIX	CAR LIGHT & VENTILATION	LED light fitting with suspended perplex ceiling. Cabin type pressure fan with concealed vents. Also emergency light operation on 6V sealed maintenance free battery.
XX	DOOR OPENING (W x H - mm)	800 mm W x 2100 mm H
XXI	DOOR OPERATOR	Automatic with full height infrared light curtain
XXII	VOICE ANNOUNCIATION	Voice Announcing system shall be provide

1. GENERAL REQUIREMENTS

The Elevators shall include all elements confirming to specifications or as amended herein. Elevators covered by these specifications shall be provided, installed, tested, commissioned, certified and approved as per statutory requirements of Lift Inspectorate. Elevator shall have its own driving machine. The method of drive shall be Electric Traction with Gear less motor having VVVF Control. The design of the Elevators shall take into consideration fire prevention, elimination of dust and dirt traps, and easy accessibility for cleaning and routine maintenance.

2. ELECTRIC TRACTION DRIVE SYSTEM

2.1 Traction Machine

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

2.2 Brake

a) The Electro-magnetic brake with non-asbestos lining shall be spring applied and electrically released type having noiseless operation.

b) The brake shall be capable of stopping and holding the Elevator car in its downward travel to rest with 125% of its rated load from the maximum governor tripping speed. In this condition the retardation of the Car shall not exceed that resulting from the operation of the Safety gear or stopping on the buffer.

c) Springs used to apply the brake shoes (two nos.) shall be in compression and adequately supported.

d) Brake linings shall be of renewable incombustible materials and shall be secured to the brake shoes such that normal wear shall not weaken their fixings. Band brakes shall not be used.

e) No earth fault, short circuit or residual magnetism shall prevent the brake from being applied in the event of loss of power supply to the Elevator motor and control circuit.

f) A means of adjusting the brake plunger stroke and releasing the brake in emergency shall be provided.

g) The Elevator machine shall be fitted with a manual emergency device capable of having the brake released by hand and requiring a constant effort to keep the brake open.

h) The fail safe break shall incorporate an approved design of brake switch i.e. pick up, hold, discharge. Brake coil shall be wired in series & their respective switches in parallel. The operation of brake shall be thyrestor controlled from solid state drive in order to effect minimum pick up time and synchronized start.

2.3. Driving Mechanism

2.3.1 Lift Machine

The lift machine shall be suitable for 415 volt 3 phase 50 Hz AC supply with a voltage variation of +10% and -20% and shall be placed directly above the hoist way on steel beams resting on machine room floor slab. The lift machine shall have high efficiency and low power consumption and shall be designed to withstand peak currents in lift duties. Means for manual operation of the lift car shall be made by providing 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 electrical supply before the manual operations.

2.4 Driving Sheaves

a) The sheaves shall be manufactured in steel or SG iron and fitted with sealed for life lubricated bearings.

b) The sheaves shall have machined rope grooves that can be reworked for future wear.

c) Adequate provision shall be made to prevent any suspension ropes leaving groove due to rope slack or introduction of foreign objects.

2.5 Alignment

a) The brake plunger, collar, sleeve, motor, sheaves and all bearings shall be mounted and assembled so that proper alignment of these parts is maintained.
b) The assembly shall be reviewed and rectified when excessive noise is emitted during operation.
2.6 Gearless Machines The gearless machine shall consist of a motor traction sheave and brake drum or brake disc completely aligned on a single shaft. Gearless machine shall be AC gearless with VVVF drive.
2.7 Anti-Vibration Supports The whole traction machine shall be mounted on appropriate anti-vibration supports to minimize noise and vibration.
2.8 Vibrations in car horizontal/ vertical 12 mg(H)/20 mg (V) maximum

3. CONTROL SYSTEMS

3.1 Description The Lifts shall have state of art microprocessor based AC variable voltage variable frequency (ACVVVF) drive. Some of the technical parameters required are innumerate below.
a) Starting current 1.2 - 1.5 times full load running current
b) Power saving 50 - 55%
c) Leveling accuracy ± 3 mm
d) Acceptable voltage fluctuation +10 to - 20% The controller shall be mounted on the side of the top of lift shaft, vertical, totally enclosed cubicle type with hinged doors on the front provide easy access to all components in the controller. Cubicle shall be well ventilated such that the temperature inside never exceeds the safe limits of the components at ambient room conditions. The controller shall operate within the supply voltage variation of plus 10% to minus 20% of the nominal voltage. The Controller shall be include protection against the following abnormalities and shall cut off the power supply, apply the brake and bring the car to a rest in the event of any of the abnormalities occurring. a) Over current b) Under voltage
c) Overvoltage
d) Single phasing
e) Phase reversal
f) Earth leakage
3.2 Features Control system features are detailed as below.
• Attendant Operation lift shall be provided with attendant control facilities. A key switch for change of operation mode shall be provided in a lockable recess panel on the car operation panel. After gaining control on the lift, the attendant can direct the car to stop at any storey. The attendant can also by pass the landing calls (but not cancel them) or reverse the direction of travelling.
• Automatic By-pass Load weighing devices located either on car top or under the car cage shall be provided for the lift. Whenever the load exceed 60-70% of the capacity load of the lifts, the lifts shall ignore all landing calls and only respond to car calls.

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

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

• Possible future requirement of access control and BMS integration of the controller.

4. TECHNICAL SPECIFICATIONS - LIFTS,LIFT CAR, DOORS AND SAFETY DEVICES

1 CAR ENCLOSURES

1.1 General Requirements

• Frame Every lift car body shall be carried in a steel car frame assembly which shall have sufficient mechanical strength to resist the forces applied by the safety gear or impact of the car on the buffers. The deflection of the steel members carrying the platform shall not exceed 1/1000 of their span under static conditions when the rated load is evenly distributed on the platform At least four renewable guide shoes or shoes with renewable linings or sets of guides rollers shall be provided two at the top and two at the top and two at the bottom of the car frame assembly.

• Enclosure finishes The car enclosure, doors etc. shall be as per Table-1 enclosed. The following are to be provided. _Alarm System : An emergency alarm buzzer, including wiring shall be provided and connected to a plainly marked push button in the car operating panel. The alarm bell shall be located in central security room. The alarm unit shall be solid state siren type, to give a waxing and waning siren when the alarm button in the car is pressed momentarily 228 Sealed Maintenance Free Nickel Cadmium Batteries capable of maintaining the following in each lift for 2 hrs after mains failure. - Emergency light of adequate illumination in car - Car Ventilation - Intercommunication System - Alarm bell One no. 16 amp switch socket outlet to IP 54 and a permanent weatherproof type luminaries to IP54 (with lighting switch) adequately protected shall be provided on the top of the lift car for maintenance One no. 16 amp switch socket outlet to IP 54 at bottom of lift car for maintenance

1.2 Operation Panel

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

• LCD Illuminated touch push buttons of micro pressure type corresponding to the floors served at Ground floor and Inside Car. For Other floors LED Illuminated touch push buttons of micro pressure type to be provided. • Door open and door close button

• Emergency stop button with Alarm

• Two position key operated switch for 'with attendant' and 'without attendant' operation.

• Ventilation fan ON/OFF switch with auto OFF when there is no call after 120 seconds (Two Speed & concealed vents).

• Built in intercom of the hands free type as well as space for providing EPABX telephone instrument and 5 pair telephone trailing cable to communicate from car to Two Locations i.e. Operator's Room (at remote location) & Security Guard Room and vice-versa.

• Dynamic car direction display

• Car position indicator (digital)

• Audio/Visual overload warning indicator

- Digital voice synthesizer (Optional) for announcing special messages with background music.
- Height of panels not to exceed 900 mm from floor

1.3 Landing fixture

The landing fixtures shall be recess mounted on a base junction box in the wall by the side or on top of landing doors as required. Each landing fixtures shall consist of micro touch type landing call buttons with illuminated call acknowledge signal and illuminated digital type car position indicators on separate stainless steel face panels with hairline finish.

2. CAR AND LANDING DOORS

2.1 General requirements

All car doors shall extend to the full height and width of landing opening unless otherwise specified and shall be operated with variable frequency door operator. A similar imperforate door shall be provided for every landing opening in the lift hoistway enclosure. The top track of the landing and car doors shall not obstruct the entrance to the lift cars. All car and landing doors shall have a fire resistance of not less than 1 hours. In addition, all the car and landing doors shall meet the following general requirements.

a) Car door locking devices Every car door shall be provided with an electrical switch to prevent the lift car from being started or kept in motion unless the car door is closed. A mechanical locking device shall also be provided to prevent door opening from inside the car whilst the car is in motion.

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

c) Projections and recesses Sliding car and landing doors shall be guided on door tracks and sills for the full travel of the doors.

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

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

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

g) Emergency landing door unlocking devices and key

h) Automatic power operated center opening having minimum opening of 800mm (w) x 1200 mm (H) horizontal sliding fire rated,12 mm thick toughened full glass door.

• Every landing door shall be provided with an emergency landing door unlocking device. When operated by an authorized person with the aid of a key to fit the unlocking triangle, the landing door shall be unlocked irrespective of the position of the lift car for rescue purpose. When there is no "unlocking" action, the key shall only be able to stay in the locked position.

• In the case of coupled car and landing doors, the landing doors shall be automatically closed by means of weight or springs when the car is outside the unlocking zone.

2.2 Door Hangers and Tracks

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

2.3 Lift Door Protection

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

2.4 Protective Hand Rail in the Car, in three sides.

2.5 CABIN FAN

A noiseless pressure fan shall be provided in the lift cabin.

2.6 Mirror on front wall of Car.

2.7 All control panels to have Braille inscription.

3. HOIST ROPES

Hoist way material shall be non-flammable (02 hrs fire rated)except travelling cables which shall be flame resistant. Lift Ropes – IS 14665 (Part 4 / Sec 8)-2001 or latest Round strand steel wires ropes made from steel wire ropes having a tensile strength not less than

12.5 tonnes/cm2 and of good flexibility shall be used for lift. Lubrications between the 230 strands shall be achieved by providing impregnated hemp core. The lift ropes shall conform to IS 14665-(Part-4-Sec. 8):2001 or latest and the required factor of safety shall be adhered to. The minimum diameter of rope for cars and counter weight of passenger and goods lift shall be 8mm. Rope fastenings The ends of lift ropes shall be properly secured to the car and counter weight hitch plates as the case may be with adjustable rope shackles having individual tapers babbit sockets, or any other suitable arrangement. Each lift rope shackle shall be fitted with a suitable shackle spring, seat washer, shackle nut & lock & shackle nut split pin. Guards for Lift Ropes Where lift ropes run round a sheave or sheaves on the car and/ or counterweight of geared/ gearless machine suitable guards shall be provided to prevent injury to maintenance personnel. Number & Size of Ropes The contractor must indicate the number and size of lift ropes and governor ropes proposed to be used, their origin, type, ultimate strength and factor of safety. The contractor should furnish certificate or ropes from the rope manufacturers issued by competent authority.

4. COUNTER WEIGHT

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

5. GUIDES / Guide Rails

Car and counterweight guide shall be machined T section as per relevant Indian Standards IS-14665 of 2000 revised up to date. The guides shall be capable of withstanding forces resulting from the application of the car or counter weight safety devices The guide rails shall be minimum 16mm Tongued & Grooved type.

6. TRAILING CABLES

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

7. SAFETY DEVICES

Safety devices shall be capable of operating only in the downward direction and stopping fully loaded car, at the tripping speed of the over speed governor, even if the suspension 231 devices break, by gripping the guides, and holding the car there. Governersheeve in elevator pit shall be enclosed in a wire cage to a height of 2.40 mtr. All safety devises statutorily required by Lift Inspector, including but not restricted to the following shall be provided.

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

• Over travel limit switches: These shall be provided and installed to stop the car within the top and bottom clearance, independent of the normal car operating device. The bottom over travel limit switch shall become operative when the bottom of the car touches the buffer. When the over travel limit switches are operative, it shall be impossible to operate the car until the car has been hand would to a position within the normal travel limits.

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

• Terminal Buffers Suitable spring buffers mounted on RCC foundation blocks shall be provided in the pit in compliance with ANSI/ASME/CENEN-81 /JIS codes for stopping the car in case of maloperation. Dowels for the purpose shall be left while casting the pit floor alternatively floor reinforcement could be exposed by chipping for welding additional reinforcement for Dowels. However clearance from underside of the car resting on a fully compressed buffer shall not be less than 1.20 mtr. Buffers shall be designed for a design speed + 15%. Oil buffers shall be provided for the passenger elevators for speed of more than 1.75 mps and spring buffers for lower speed.

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

• Over speed governor Over speed governor shall be of centrifugal type and shall operate the safety gear at a speed at least equal to 115% of the rate speed and less than the over speed governors shall be driven by flexible wire ropes with the following requirements. - The breaking load of ropes shall be related to the force required to operate the safety gear by the safety factor of at least 8 - The nominal rope diameter shall be at least 7 mm - The radio between the pitch diameter of the over speed governor pulley and the nominal rope diameter shall be at least 30 The over speed governors shall be sealed after setting the tripping speed. The breaking or slackening of the governor rope shall cause the motor to stop by an electric safety device.

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

• Emergency Stop Switches An emergency stop for use by maintenance personal shall be provided in each lift car.

8 FIREMAN SWITCH

Lift shall have a Fireman switch with glass front for access by the Firemen. The operation of this switch shall cancel all calls to this lift and shall stop at the next nearest landing if traveling upwards. The doors shall not open at this landing and the 232 lift shall return to the ground floor. In case the lift is traveling downwards when the fireman's switch is operated it shall go straight to the ground floor bypassing all calls enroute. The emergency stop button inside the car shall be rendered inoperative. The fireman's switch shall be located adjacent to the lift opening at the terminal floor and shall be at a height of approximately 2 m above the floor level. For easy identification of firemens lift which confirm to the local authorities requirements, a red and white diagonal striped backing shall be provided behind the glass of the firemen's switch. A permanent notice of prominent size indicating the floors served shall be provided and displayed adjacent to the firemen's lift at the terminal floor. The notice shall be made of laminated plastic sheet or other approved materials with red letters on white background. Details of the notice shall be submitted to the Engineer-in-Charge for approval prior to fabrication.

9. CONTROL OF NOISE AND VIBRATION

9.1 General

The whole of the lift assembly, including the opening and closing of the car and landing doors shall be quiet in operation and shall be free of rattling or squeaking noises. Lift doors operation shall be smooth to avoid the transmission of impact noise to the surrounding structure. Noise level resulting from the operation of the lifts, including direct sound transmission, breakout noise and re-radiation of structure borne noise, shall not exceed the specified noise criteria of the adjacent spaces. Vibration resulting from operation of lifts of escalators shall not be perceptible in any occupied areas.

9.2 Car construction

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

9.3 Machinery

The gearless traction machine and compact PM motor are installed within the hoist way and the slim control panel is located on the shaft side wall. Provision shall be made for the control vibration isolation measures employed to ensure that structure borne noise resulting from the operation of the lift machinery is not audible in any occupied area. Lift machinery noise levels under normal operating conditions shall not exceed 70 dBA at 1 m from the equipment in free field.

9.4 Arrival chimes Noise from arrival chimes shall not exceed 60 dB. The above levels shall be measured at 3 m from the arrival chimes using a noise meter set to 'fast' response. Chimes with adjustable loudness shall be provided.

10. FIRE SAFETY REQUIREMENTS

General requirements of lifts shall be as follows :
10.1 Landing doors in lift enclosures shall have a fire resistance of not less than one hour.
10.2 Lift car door shall have a fire resistance rating of one hour.
10.3 Grounding switch (es), at ground floor level, shall be provided on all the lifts to enable the fire services to ground the

11. Provision of IP Surveillance Camera

11.1 Provision shall be made for the installation of IP Surveillance Cameras inside the Elevator Cars with suitable provision for the owner to inter connect to their security system. The quoted rate for elevators should include provision for camera installation, complete wiring and arrangement for suitable inter connection as stated above. This provision is required for the cars of all the Two Elevators. It is to be noted that the provision of Surveillance Cameras inside Elevator Cars is a statutory requirement.

12. TECHNICAL lifts. SPECIFICATIONS - LIFTS-ASSOCIATED WORKS

1. ASSOCIATED ELECTRICAL WORKS

1.1 Scope Based on power requirements of lifts furnished by the lift contractor. The earth bar provided on this Switchboards shall be connected to the building earthing system also by the contractor. All cabling /wiring/loop earthing beyond this Switchboard for interconnection with the lift controllers / motors/ indicators / push buttons / safety devices etc. shall be provided by the lift contractor and its cost shall be deemed to be included in the quoted rates.

1.2 Cabling: Cabling between switchboard and the controller /lift motor shall be with XLPE insulated HR PVC sheathed 1100 volt grade copper conductor armoured cables of appropriate size conforming to IS 7098 or PVC insulated, PVC sheathed, 1100 volt grade Copper conductor armoured cables conforming to IS 1554. Cables shall be terminated in glands fitted with armor clamps the gland body shall be provide with an internal conical sating to receive the armor clamping cone and clamping nuts which shall secure the armor wires. A PVC shroud shall be fitted to cover the gland body and exposed armor wires Trailing cables for the lifts shall be EPR insulated stranded copper conductor flexible cables conforming to IS 9968 Control cabling shall be with multi core stranded copper conductor PVC insulated and sheathed 1100 volt grade cables conforming to IS 8130. Minimum size of the cable shall be 2.5 sq mm. Where cables pass through walls or floor slabs, pieces of GI sleeves shall be provided for cast into the wall / floor and cable shall be drawn therein.

1.3 Wiring :All wiring shall be carried out with FRLS PVC insulated 1100 volt grade stranded copper conductor wires conforming to IS 694 drawn in MS rigid / flexible

conduiting system and / or MS raceways. Minimum 2.5 sq mm size wires shall be used. Wires shall be cut only at terminations. Intermediate jointing shall not be permitted. Drawing, cutting and terminating of the wires shall comply with the relevant Indian standard specifications and shall be carried out in the most workman like manner as per standard practice. All normal care like cutting the insulation with a pencil edge, taking care not to cut the strands and proper tightening of terminal connector screws to avoid loose connection or breaking of conductors etc. shall be taken. Heavy gauge black enameled screw type ISI embossed MS conduits with superior quality accessories approved by Engineer-in-Charge shall be used in the work. Conduits could either be recessed in floors / walls or fixed on surface with saddles and clamps. Final connections to vibrating the equipment shall be made with metal flexible conduits. Entire work shall be carried out in work man like manner as per standard practice

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

The equipment supplied shall be earthed with the following arrangement as per provisions of Indian electricity rules.

a. For equipment grounding the following sizes of copper conductor shall be used. The grounding pads and clamps provided shall be suitable for these conductors.

i.Machine of rating 20 KW to 75 KW– 25 x 3mm tinned copper strip

ii.Machines of rating upto 20 KW- 8 SWG tinned copper conductor.

iii.Control panel – As per incoming cable size.

b. Two independent grounding pads at appropriate end shall be provided on the frame of motors, winding machine, the frame of the control panels etc

c. The exposed metal parts of electrical apparatus installed in a lift car shall be sufficiently bonded and earthed.

d. One side of the secondary winding of all transformers and their cases shall be earthed.

e. Flexible and screwed conduits shall be properly earthed.

2. ASSOCIATED CIVIL & STRUCTURAL ITEMS

All civil and structural items of work associated with erection and operation of lifts shall be provided by the Contractor at his cost including (but not restricted to) the following. _ Hook for lifting lift equipments in the top of shaft. _ Temporary scaffoldings and safety barricades during lift installation in and around lift Lift wells _ Sill angels _ Bearing plates _ Buffer supports _ Checqured plates _ Fascia plates _ Ladders in pits (MS) _ Safety railing

on car top _ Separator /stretcher beams if required . _ Dowels for terminal buffers in pit floor during casting. The Contractor shall ensure erection and fixing of steel work in such a manner that no RCC wall or any other structural member is damaged. Recommended makes of the lift and other materials to be used for Installation, Testing and Commissioning of the Lift.

Format of Technical Data to be filled by the Tenderer

SI NO.	Particular of Details	
A.	**GENERAL:**	
1.	Name of Manufacturer.	
2.	Country of Manufacture	
3.	Capacities (Persons/ Weight).	
4.	Service	Floors- Entrance-
5.	Speed of Travel	
6.	Height of Travel.	
7.	No. of Floors served.	
8.	No. of openings.	
9.	Method of control	
12.	Size of elevator well	
13.	Position of counterweight	
14.	Type of Levelling method.	
B.	**MOTOR DETAILS:**	
1.	Make	
2.	Type of motor	
3.	KW rating	
4.	Power factor	
5.	Frame size	
6.	Degree of protection	
7.	Speed	
8.	Method of starting	
9.	Duty cycle	
10.	FL Amperes	
11.	Class of insulation	
12.	No. of permissible starts per hour	
C.	**BRAKE**	
1.	Type	
D.	**CAR AND DOORS:**	
1	Outside dimensions of car.	
2	Inside clear dimensions.	
3	Construction of car	
4	Design/ type of enclosure of car.	
5	Details of flooring	
6	Attachment and fitting inside the car	
7	Car Doors: (a) Size (b) Operation (c) Construction , Design & finish	
8	Landing Doors: (a) Size (b) Operation (c) Construction , Design & finish	

IMPORTANT INSTRUCTIONS FOR BIDDERS

1. Bidders are advised to scan their documents on 100 dpi with Black & White option

2. Bidders are advised to download Bid Submission manual for the help of Bid Submission process from the **"Downloads"** option as well as from **"Bidders Manual Kit"** on home page of https://cujammu.euniwizarde.com/

3. Bidders are advised not to make any change in **BOQ (Bill of Quantity)** contents or its name. In no case they should attempt to create similar BOQ manually. The BOQ downloads from the site should be used for filling the rates and it should be saved with same name.

4. Bidders are required to quote net rate inclusive of all including GST, 1% Labour Cess etc. in **BOQ (xls)** format

5. Bidders are advised to use **"My Documents"** area in their user on the Central University of Jammu e-Tendering portal (https://cujammu.euniwizarde.com/) to store their documents which are used in all Tenders like GST certificate etc and attach these certificates as Non Statutory documents while submitting their bids

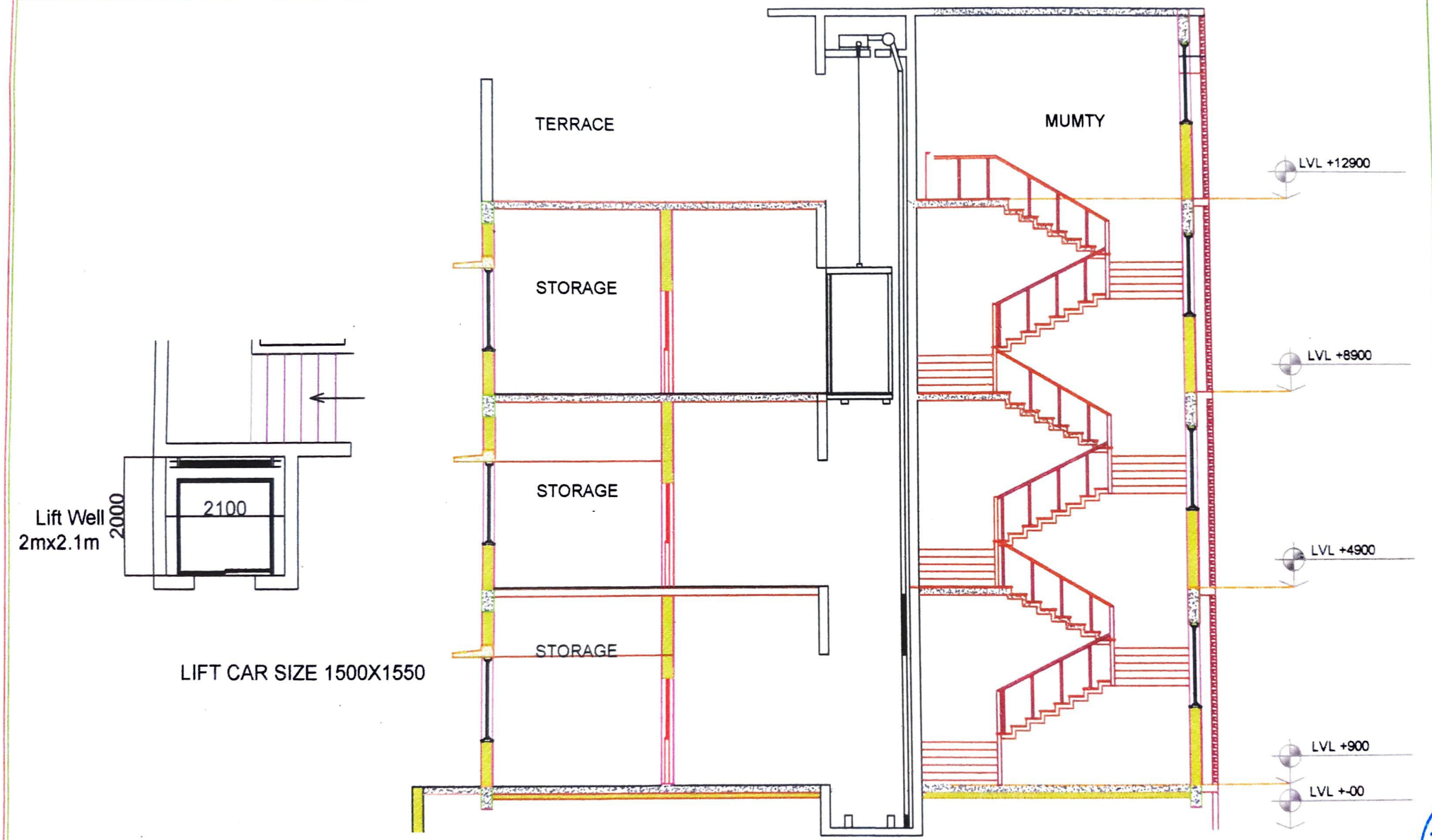
6. During scrutiny of the Technical Bids system generated e-Mails confirming acceptance of bid are to be ignored.

7. The Bid i.e Technical Bid as well as Financial Bid is to be submitted online on web portal https://cujammu.euniwizarde.com/. However, the firms will submit the supporting documents as required to be submitted along with Technical Bid in off-line mode in physical form in the office of the Executive Engineer, Central University of Jammu
   In case supporting documents are to be submitted offline in physical form, then it should be so specified in their Technical Bids & the supporting documents must be deposited in the office of Executive Engineer, Central University of Jammu before date & time of opening of tenders.

PRICE BID

Name of work : **Supply, Installation, Testing & Commissioning of Lift in Satish Dhawan Centre for Space Science** at Central University of Jammu Rahya-Suchani (Bagla) Distt. Samba.

S.NO	Description of work	Percentage rate Quoted (rates quoted shall be inclusive of all taxes, duties and GST etc.)	
1.	**Supply, Installation, Testing & Commissioning of Lift in Satish Dhawan Centre for Space Science** at Central University of Jammu Rahya-Suchani (Bagla) Distt. Samba.	In figures	In words
2	Comprehensive maintenance charges with full responsibility of carrying out repair and supply of required original spare parts to keep the elevator in fully operational condition for a period of 4 years, after expiry of 2 year free servicing and warranty period both the lifts.		
	YEAR 1		
	YEAR 2		
	YEAR 3		
	YEAR 4		



MASTER NO: 61

SATISH DHAWAN CENTRE FOR SPACE SCIENCE AT CENTRAL UNIVERSITY JAMMU	CLIENT'S NAME- CENTRAL UNIVERSITY, JAMMU	DR.NO: L-61	LIFT DETAIL
		SCALE:	DATE :- 14 JUL, 2020

HKD CONSULTING ENGINEERS.
ARCHITECTS AND ENGINEERS.
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HKD CONSULTING ENGINEERS

ANMOL GUPTA

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Date: 2020.10.01 16:30:40 IST