

NETAJI SUBHAS INSTITUTE OF TECHNOLOGY
AZAD HIND FAUJ MARG: SECTOR-3, DWARKA
NEW DELHI-110078.

CORRIGENDUM TO Form-8 (CPWD)

S.NO.	FOR	READ
1.	Govt. of India	Govt. of National Capital Territory of Delhi.
2.	President of India	B.O.G., NSIT
3.	Superintending Engineer/Chief Engineer.	Director, Netaji Subhas Institute of Technology
4.	CPWD (Department)	Netaji Subhas Institute of Technology
5.	Administrative Head	Director, Netaji Subhas Institute of Technology
6.	Ministry of Works & Housing	Govt. of National Capital Territory of Delhi.

NETAJI SUBHAS INSTITUTE OF TECHNOLOGY
AZAD HIND FAUJ MARG: SECTOR-3,
DWARKA, NEW DELHI-110078
PRESS NOTICE INVITING TENDER

Sealed item rate tenders are re-invited for the following work on behalf of Board of Governors, NSIT from the Manufacturers/Authorized Dealer's/OEMs of repute specialized in the field in two bid system (Technical/Prequalification & Financial Bid) in separate envelopes for the following work:-

SNo	Name of Work	Estimated Cost (Rs.)	Earnest Money Deposit (Rs.)	Cost of Tender Document (Rs.)	Time allowed for completion	Last date of receipt of applications for issue of tender	Last date for issued of tender document	Date of receipt of Technical and Financial bids	Date of opening of Technical Bid
1.	Providing Installation Testing & Commissioning of Lifts in the Library Block of NSIT.	Rs. 43,12,000/-	Rs 86,240/-	500.00	06 Months	12.02.2009	13.02.2009	16.02.2009	16.02.2009

(Approved Make:- OTIS / KONE / SCHINDLER / MITSUBISHI / JOHNSON / OMEGA /ESCON /THYSSEN KRUP).

The Earnest Money as mentioned above shall be deposited alongwith the application seeking issue of tender documents in the form of Pay Order/Demand Draft of a Scheduled Bank issued in favour of "Director, Netaji Subhas Institute of Technology".

Alternatively, the tender documents consisting of above can be downloaded from the websites www.delhigovt.nic.in & www.nsit.ac.in and the downloaded documents can be used for quoting the tender and these documents shall only be opened subject to fulfillment of conditions:

Detailed terms & conditions of the tender can be seen on websites mentioned above.

Complete tender documents containing eligibility criteria can be had from the office of EE (C)/M, NSIT, Azad Hind Fauz Marg, Sector-3, Dwarka, and New Delhi-110078. (Telephone No. 25099055) up to the date & time indicated above.

EXECUTIVE ENGINEER (C)/M

TECHNICAL BID

For the work

of

**Name of Work: Providing, Installation, Testing and
Commissioning of Lifts in Library Block of NSIT.**

NETAJI SUBHAS INSTITUTE OF TECHNOLOGY
AZAD HIND FAUJ MARG: SECTOR-3, DWARKA
NEW DELHI-110078.

PRESS NOTICE INVITING TENDER

1. Item Rate tenders are Re-invited on behalf of the BOG, NSIT from the Manufacturers/Authorized Dealer's/Distributor's of repute specialized in the field for **Providing, Installation, Testing and Commissioning of Lifts in the Library Block of NSIT.**

Name of work: - Providing, Installation, Testing and Commissioning of Lifts in the Library Block of NSIT.

(Approved Make:- OTIS / KONE / SCHINDLER / MITSUBISHI / JOHNSON / OMEGA /ESCON / THYSSEN KRUP).

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

In case only the last date of sale of tender is extended, the enlistment of contractor should be valid on the original date of sale of tenders.

In case both the last date of receipt of application and sale of tenders are extended, the enlistment of contractor should be valid on either of the two dates i.e. original date of sale of tender or on the extended date of sale of tenders.

Eligibility Criteria: The Agencies must have satisfactory executed in Central /State Govt. Departments/PSU's three similar works each of value 40% of estimated cost or two works each of 50% of estimated cost as one work of 80% of estimated cost during last 5 years. The applications not supported with requisite experience certificates shall not be entertained

Note:- Similar works mean "PITC of Lifts".

- 1.1 The work is estimated to cost Rs. **43,12,000.00** This estimate, however, is given merely as a rough guide.
2. Agreement shall be drawn with the successful tenderer on prescribed Form No. CPWD-8 which is available as a Govt. of India Publication. Tenderer shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be 06 Months from the date of start as defined in schedule "F" or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.
4. The site of work is available.
5. Receipt of applications for issue of forms will be stopped by 4.00 PM the last date fixed for receiving of the applications from the office of EE (C)/M. Last date of issuing of tender documents will be as mentioned in NIT.
- 5.1 Tender documents consisting of plans, specifications, the schedule of quantities of the various classes of work to be done and the set of terms & conditions of contract to be complied with by the contractor whose tender may be accepted and other necessary documents can be seen in the office of the Executive Engineer (C)/M, Room No.301, Admn. Block, NSIT, Sector-3, Dwarka, New Delhi-110078, between hours of 11.00 am to 4.00 pm from _____ every day except on the Saturday, Sunday and Public

Holidays. Tender documents, excluding standard form (G.C.C.), will be issued from his office during the hours specified above, on payment of the following:

- (i) Rs.500.00 in cash as cost of tender.
- (ii) Earnest money of Rs.86240.00 form of Pay Order/Demand Draft of a Scheduled Bank issued in favour of “Director, Netaji Subhas Institute of Technology”.

Earnest money should be deposited alongwith the application seeking issue of tender documents in the form of Pay Order/Demand Draft of a Scheduled Bank issued in favour of “Director, Netaji Subhas Institute of Technology”. The contractors have to produce attested copy of the eligibility criteria including TIN No. and a certificate that upto date returns have been filled alongwith the copy of returns submitted to the department of Trade and Taxes (VAT). (Attested copes would be retained and original returned.

6. Tenders, which should always be placed in sealed envelope as per details given below, with the name of work and due date written on the envelopes, will be received by the Executive Engineer (C)/M upto 3.00 PM on dated _____ and will be opened by him or his authorized representative in his office on the same day at 3.30 PM.

Envelop-I - Contains Technical Bid
Envelop-II - Contains Financial / Price Bid
Envelop-III - Contains Envelop –I & II

- 6.1 Alternatively, the tender documents consisting of above can be downloaded from the websites www.delhigovt.nic.in & www.nsit.ac.in and the downloaded documents can be used for quoting the tender and these documents shall only be opened subject to fulfillment of following conditions:

A separate sealed envelope, other than tender, marked as ‘**documents required for tender downloaded from the website**’ containing following documents shall be submitted with the tender:-

- a) Separate Demand Draft/Pay Order for tender cost and EMD for the amount as mentioned above in favour of Director, Netaji Subhas Institute of Technology” of a Schedule Bank or Nationalized Bank/State Bank guaranteed by Reserve Bank of India.
- b) Attested copy of all the documents required for eligibility. **Original documents are to be produced at the time of opening of tender for verification by department.**

- 6.2 Incomplete tender documents downloaded from the website shall be summarily rejected.

- 6.3 Tenderer shall submit the tender in sealed envelope. Tenderer who has downloaded the tender documents from the website shall submit the tender in **four sealed envelopes** marked as **Envelope-I** (Documents required for tender downloaded from the website) and **Envelope-II** (Technical Bid downloaded from the web) & **Envelope-III** (Financial / Price bid). **All three envelopes should be enclosed in a common Envelope-IV. In case Envelope-I is not annexed then Envelope-II & III containing tenders / Financial bid will not be opened at all.**

- 6.4 **In case tenderer who has downloaded the tender from the website fails to produce original documents at the time of opening of bid then Envelope-II containing tenders will not be opened at all.**

- 6.5 In case holiday is declared on the opening day, the tenders will be opened on the next working day.

7. The contractor shall be required to deposit an amount equal to 5% of the tendered value of the work as performance guarantee within the period specified in schedule "F" in the form of an **irrevocable bank guarantee bond of any Scheduled Bank** in accordance with the form prescribed or in cash or in the form of Govt. security, **fixed deposit receipt** etc., as in the case of recovery of security deposit within prescribed number of days of the issue of letter of acceptance. This period can be further extended by the Engineer-in-Charge upto a maximum period of prescribed number of days on written request of the contractor.
8. The description of the work is as follows:

Name of work: - Providing, Installation, Testing and Commissioning of Lifts in the Library Block of NSIT.

Copies of other drawings and documents pertaining to the works will be open for inspection by the tenderers at the office of the above mentioned officer.

Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

9. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected.
10. Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
11. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.
12. The contractor shall not be permitted to tender for works in the CPWD Circle (responsible for award and execution of contracts) in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently

employed by him and who are near relatives to any gazetted officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

13. No Engineer of gazetted rank or other Gazetted officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of two years after his retirement from Government service, without the previous permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the tender or engagement in the contractor's service.
14. The tender for the works shall remain open for acceptance for a period of **sixty days** from the date of opening of tenders. If any tenderer withdraws his tender before the said period or issue of letter of acceptance, which-ever is earlier, or makes any modifications in the terms and conditions of the tender which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the tenderer shall not be allowed to participate in the re-tendering process of the work.
15. This Notice Inviting Tender shall form a part of the contract document. The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of:-
 - a) The notice inviting tender, all the documents including additional conditions, specifications and drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.
 - b) Standard CPWD Form 8 (G.C.C.)
16. In case of any difference / ambiguity between English & Hindi version, English version shall prevail.
17. The department shall deduct Sales Tax/DVAT, Income Tax, Labour Cess etc. as applicable on the value of work done from each bill of the contractor as per prevailing Government instructions / orders. In lieu, the department shall issue a certificate of deduction of the tax at source to the contractor, in relevant forms.
18. The intending tenderer must produce alongwith the application, **attested copy of registration under Delhi Value Added Tax (DVAT) Act 2004 and its no dues certificate.**
19. Contractor shall have to produce original copies/certificates for verification by the Department.

EXECUTIVE ENGINEER(C/M)

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

STATE	DELHI	CIRCLE	ENGG. CELL
BRANCH	NSIT	DIVISION	ENGG.CELL/M/NSIT
ZONE		SUB-DIVISION	E.CELL/M/NSIT

Item Rate Tender & Contract for Works

(A) Tender for the work of:-

Name of work: - Providing, Installation, Testing and Commissioning of Lifts in the Library Block of NSIT.

(i) To be submitted by (to be filled by EE Office) hours on (to be filled by EE office) to
(time) (date)

(ii) To be opened in presence of tenderers who may be present at (to be filled by EE Office) hours on (to be filled by EE Office) in the office of EE (C)/M, NSIT.

Issued to: (to be filled by EE Office)
contractor

Signature of officer issuing the documents _____

Designation EE (C)/M, NSIT

Date of issue _____

T E N D E R

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

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

We agree to keep the tender open for sixty (60) days from the due date of submission thereof and not to make any modifications in its terms and conditions.

A sum of Rs.**86240.00** has been deposited in P.O./demand draft of a scheduled bank as earnest money. If I/we, fail to furnish the prescribed performance guarantee within prescribed period. I/we agree that the said President of India or his successors in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/we fail to commence work as specified, I/we agree that President of India or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered, upto maximum of the percentage mentioned in Schedule 'F' and those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form. Further, I/We agree that in case of forfeiture of earnest money or both Earnest Money & Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

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

Signature of Contractor

Postal Address

Dated

Witness:

Address:

Occupation:

A C C E P T A N C E

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the President of India for a sum of Rs.

_____ (Rupees

_____) .

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

a)

b)

c)

For & on behalf of the President of India.

Signature _____

Designation _____

Dated

SCHEDULES

SCHEDULE 'A'

Schedule of quantities (as per PWD-3)

As per Schedule attached

SHCHEDULE 'B'

Schedule of materials to be issued to the contractor.

S.No.	Description of item	Quantity	Rates in figures & words at which the material will be charged to the contractor	Place of Issue
1	2	3	4	5
NIL				

SCHEDULE 'C'

Tools and plants to be hired to the contractor.

Sl. No.	Description	Hire charges per day	Place of Issue
1	2	3	4
Nil			

SCHEDULE 'D'

Extra schedule for specific requirements/document for the work, if any.

Nil

SCHEDULE 'E'

Schedule of component of Cement, Steel, other Materials, Labour etc. for price escalation.

NIL

CLAUSE 10 CC

Component of Cement- Expressed as percent of total value of work	Xc _____ %	}	N.A.
Component of Steel- Expressed as percent of total value of work	Xs _____ %		
Component of civil (except cement & steel)/Electrical construction Materials expressed as percent of total value of work.	Xm _____ %		
Component of Labour- Expressed as percent of total value of work	Y _____ %		
Component of P.O.L.- Expressed as percent of total value of work	Z _____ %		

SCHEDULE 'F'

Reference to General Conditions of contract.

Name of work: - Providing, Installation, Testing and Commissioning of Lifts in the Library Block of NSIT.

Estimated cost of work: Rs.43,12,000.00

- i) Earnest money: Rs. 86240.00
- ii) Performance Guarantee: 5% of tendered value before award of work.
- iii) Security Deposit: 5% of tendered value

GENERAL RULES: Officer inviting tender EE (C)/M
& DIRECTOIONS Maximum percentage for quantity of
items of work to be executed beyond
which rates are to be determined in
accordance with Clauses 12.2 & 12.3 See below

Definitions

2(v)	Engineer-in-Charge	EE (C)/M
2(viii)	Accepting authority	Director/EE (C)/M, NSIT
2(x)	Percentage on cost of materials and labour to cover all overheads and profits.	15%
2(xi)	Standard Schedule of Rates	Market rates
2(xii)	Department	Engg. Cell/M/NSIT.
9(ii)	Standard CPWD contract Form	CPWD form 8 (G.C.C.) as modified & corrected upto date

Clause 1

- i) Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance, in days 04 to 15 days or as decided by EE (C)/M
- ii) Maximum allowable extension beyond the period provided in i) above in days 03 to 07 days or as decided by EE (C)/M

Clause 2

Authority for fixing compensation under clause 2 Director, NSIT

Clause 2A

Whether Clause 2A shall be applicable No

Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start 07 to 22 days or as decided by EE (C)/M

Mile stone(s) as per table given below:-

Table of Mile Stone(s)

Sl. No.	Description of Milestone (Physical)	Time Allowed in days (from date of start)	Amount to be with-held in case of non achievement of milestone
1.	Delivery of Material at site	1/2 (of whole work)	In the event of not achieving the necessary progress as assessed from the running payments, 1% of the tendered value of work will be withheld for failure of each milestone
2.	Installation period	5/6 (of whole work)	
3.	Testing period	11/12 (of whole work)	
4.	Commissioning period (Full)	FULL	

Time allowed for execution of work. Six months

Authority to give fair and reasonable extension of time for completion of work Engineer-in-charge or Director, NSIT.

Clause 6, 6A

Clause applicable – (6 or 6A) Clause-6

Clause 7

Gross work to be done together with net payment/adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment As decided by EE

Clause 10A

List of testing equipment to be provided by the contractor at site lab.

- 1. } As per the requirement of work.
- 2. }
- 3. }

Clause 10B

(ii)

Whether clauses B (ii) shall be applicable No

Clause 10CA

Materials covered under this clause

- 1. Cement
- 2. Steel

Nearest Material for which All India Wholesale Price Index is to be followed
.....
.....
.....

Clause 10CC

Clause 10CC to be applicable in contracts with stipulated period of completion exceeding the period shown in next column

18 months

Clause 11

Specifications to be followed for execution of work

CPWD specifications with upto date correction slips and additional conditions & additional specifications enclosed.

Clause 12

12.2 & 12.3

Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for building work

30%

12.5

Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for foundation work

100%

Clause 16

Competent Authority for deciding reduced rates

Director, NSIT.

Clause 18

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

- 1. } As per the requirement of work.
- 2. }
- 3. }

Clause 36 (i)**Requirement of Technical Representative(s) and recovery Rate**

Sl. No.	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical / Technical representative)	Minimum Experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36(i)	
						Figures (in Rs.)	Words
1.	Project Manager with Degree	Civil/Electrical		10 years		20,000/- p.m.	Twenty Thousand Only
2.	Graduate Engineer	Civil/Electrical	Principal Technical Representative	5 years	01	15,000/- p.m.	Fifteen Thousand Only
3.	Graduate Engineer or Diploma Engineer	Civil/Electrical		Nil Or 5 year		10,000/- p.m.	Ten Thousand Only

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

Clause 42

- i) (a) Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates 2007 printed by CPWD with upto date correction slips.
- ii) Variations permissible on theoretical quantities
- | | | |
|----|---|-------------------------------------|
| a) | Cement for works with estimated cost put to tender not more than Rs. 5 Lakhs. | 3% plus/minus |
| | For works with estimated cost put to tender more than Rs. 5 Lakhs | 2% plus/minus |
| b) | Bitumen all works | 2.5% plus only & nil on minus side. |
| c) | Steel Reinforcement and structural steel sections for each diameter, section and category | 2% plus/minus |
| d) | All other materials | Nil |

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

Sl. No.	Description of item	Rates in figures and words at which recovery shall be made from the Contractor Rate in schedule 'B' plus 10% in case materials issued by Department.	
		Excess beyond permissible variation	Less use beyond the permissible variation
1.	Cement		
2.	Steel reinforcement		
3.	Structural Sections		
4.	Bitumen issued free		
5.	Bitumen issued at stipulated fixed price		

ADDITIONAL SPECIFICATIONS

1. In case of any variation between different applicable specifications, the following order of precedence shall be followed.
 - (i) Nomenclature of the item.
 - (ii) Particular or additional Specifications attached with the tender documents.
 - (iii) CPWD Specifications.
 - (iv) Indian Standard Specifications of BIS.
2. The contractor shall be required to produce samples of all building materials sufficiently in advance to obtain approval of the Engineer-in-Charge. The materials to be used in actual execution of the work shall strictly conform to the quality of samples approved. In case of variation, such materials shall be rejected.
3.
 - (i) The contractor shall, at his own cost, make all arrangement and shall provide such facilities as the Engineer-in-Charge may require for collecting, preparing and forwarding the required number of samples for tests at such time and to such places, as directed by the Engineer-in-Charge. Nothing extra shall be paid for the above including cost of sample material, except testing charges. Testing charges shall be reimbursed to the contractor after production of receipts. In case, material fails in test, no reimbursement shall be made by Department. The necessary tests shall be conducted in the laboratory approved by the Engineer-in-charge.
 - (ii) The contractor or his authorized representative shall associate in collection, preparation, forwarding and testing of such samples. In case, he or his authorized representative is not present or does not associate himself, the result of such test and consequences thereon shall be binding on the contractor.
4. Wherever any reference to any Indian Standard Specifications occurs in the documents related to this contract, the same shall be inclusive of all amendments issued there to or revision thereof, if any, up to the date of opening of tenders.
5. Preference shall be given to those articles which bear ISI certification marks. In case articles bearing ISI certification marks are not available, the quality of samples brought by the contractor shall be judged by the standards laid down in the relevant ISI specifications/CPWD Specifications. All materials and articles brought by the contractor to the site for use shall conform to the samples approved, which shall be preserved till the completion of the work. However, such articles which bear ISI mark but banned by CPWD will not be used.
6. All the materials used in the work shall comply with the requirements of Engineer-In-Charge and shall pass all the tests and analysis required by him as per particular specifications as applicable or such recognized specifications as acceptable to the Engineer-In-Charge.
7. The necessary tests shall be conducted in the laboratory of PWD (DA), CPWD, Central Road Research Institute or IIT, Delhi or any other laboratory approved by the Engineer-In-Charge. The samples for carrying out all or any of the tests shall be collected by the Engineer-In-Charge. The testing charges shall be initially paid by the Agency the same will be reimbursed by NSIT for the samples confirming to the specifications.
8. The rate for all items of work, unless clearly specified otherwise, shall include the cost of all labour, materials and other inputs etc. involved in the execution of the items and thus nothing extra on any account will be paid to the agency other than his quoted rates.
9. Where no approved brand is mentioned against any item, the material strictly conforming to C.P.W.D. specifications shall only be supplied.
10. Apart from above, all the amendments in the "CPWD Specifications" issued upto the date of the opening of tenders shall be applicable.

EXECUTIVE ENGINEER(C/M)

ADDITIONAL CONDITIONS

1. In case of any variation between different applicable terms and conditions, the following order of precedence shall be followed:-
 - (i) Nomenclature of Item
 - (ii) Additional Conditions
 - (iii) CPWD-6/7/8
 - (iv) General Conditions of Contract
2. Tender received by post or courier shall not be entertained.
3. Any change in Bid after opening of tender will not be allowed.
4. Before tendering, the tenderer shall inspect the site of work and shall fully acquaint himself about the conditions with regard to site, nature of soil, availability of materials, suitable location for construction of godowns, stores and labour huts, the extent of leads and lifts involved in the work over the entire duration of contract including local conditions, traffic restrictions, obstructions, and other conditions and restrictions by the administrative authorities, and such other factors as may be required for satisfactory execution of the work. He should take into consideration all such factors and contingencies while quoting his rates. No claim whatsoever shall be entertained by the Department on this account.
5. The contractor must study the specifications and conditions carefully before tendering.
6. The contractor shall submit the programme of execution of work within a week after taking over of the site and get it approved from the Engineer-in-Charge and strictly adhere to the same for timely completion of the project/work.
7. The contractor shall have to make approaches to the site, if so required, and keep them in good condition for transportation of labour and materials as well as inspection of works by the Engineer-in-Charge. Nothing extra shall be paid on this account.
8. The work shall be carried out in such a manner so as not to interfere or effect or disturb other works being executed by other agencies, if any.
9. Any damage done by the contractor to any existing work shall be made good by him at his own cost, failing which the same shall be got done at his risk and cost.
10. The work shall be carried out in a manner complying in all respects with the requirement of relevant bye-laws of the local bodies under the jurisdiction of which the work is to be executed and nothing extra shall be paid on this account.
11. For completing the work in time, the contractor might be required to work in two or more shifts including night shifts and no claims whatsoever shall be entertained on this account, notwithstanding the fact that the contractor will have to pay extra amount to the labourers and other staff engaged directly or indirectly on the work according to the provisions of the labour regulation and/or for any other reason.
12. The contractor shall make his own arrangements for obtaining electric and water connections, if required, and make necessary payments directly to the authority concerned. The department will, however, make reasonable recommendations to the authority concerned in this regard.
13. In case Department found that either contractor or his labour is involved in theft of Electricity & Water from NSIT source. The contractor shall be liable to pay the fine as decided by Engineer in charge.
14. The contractor or his authorized representative should always be available at the site of work to take instructions from departmental officers, and ensure proper execution of work. No work should be done in the absence of such authorized representative.
15. No payment will be made to the contractor for damage caused by rains, or other natural calamities during the execution of the work and no such claim on this account will be entertained.

16. Royalty at the prevalent rates and all other incidental expenditure shall have to be paid by the contractor on the boulders, stone aggregate, shingle, earth, sand, bajri etc. collected by him for the execution of the work direct to the concerned Revenue Authority of the State or Central Govt. His rates are deemed to include all such expenditure and nothing extra shall be paid.
17. The malba/garbage removed from the site shall be disposed of by the contractor at the MCD approved dumping site or at any other suitable place as directed by the Engineer-in-Charge.
18. The materials to be issued to the contractor and the place of delivery shall be as mentioned in the Schedule 'F' of the tender documents. If these are delivered at any other site, the difference in cost due to cartage will be adjusted accordingly. The contractor shall have to cart at his cost the materials to the site of work as soon as these are issued. The materials will be issued during the working hours and as per rules of the Central Store of NSIT.
19. The contractor shall construct suitable godown at the site of work for storing the materials safe against damage due to sun, rain, dampness, fire, theft etc. He shall also employ necessary watch and ward establishment for the purpose and no extra claim whatsoever shall be entertained on this account.
20. The contractor shall bear all incidental charges for cartage, storage and safe custody of materials issued to him by the department.
21. The contractor shall maintain and render proper account of all materials issued to him by the department, consumed by him on the work and the balance, if any, in the first week of every month. If he fails to do so, no further quantity of materials shall be issued to him and he shall be wholly responsible if any delay occurs in the completion of the work on this account.
22. Contractor will quote amount including all other taxes such as service tax etc. and nothing extra shall paid on account of taxes.
23. The material such as cement, pig lead, cleaning chemicals, dry distemper, oil bound acrylic distemper, water proofing cement/chemical, paint, pigment etc. shall strictly be kept in double lock and key system to monitor their consumption. The material shall only be issued in presence of authorized representative of contractor.
24. Apart from above, all the amendments in the "General Condition of Contract for CPWD Works" issued upto the date of opening of tenders shall be applicable.

EXECUTIVE ENGINEER(C/M)

LIST OF ELECTRICAL MATERIALS OF APPROVED MAKES

The materials of first/standard quality from the following approved makes, or as specified in the particular item of work in the schedule of quantity are to be used. In case it is established that the brands specified below are not available in the market, the contractor shall submit alternative proposal for the approval of the Engineer-in-Charge.

S. No.	Description	Approved manufacturer/Brand name
1.	M.S. Conduit	- B.E.C./ A.K.G./ Steelcraft/ N.I.C.
2.	PVC Insulated Copper Conductor Wire	- National/ Plaza/ Delton/Ecko/ Skyline/ Phinolex
3.	PVC Insulated Al./Copper Conductor Armoured Cable	- National/ Grandlay/ Delton/ Ecko/ Skytone/ Plaza / Phinolex
4.	Piano Type Switch, Socket	- Anchor/ Cona/ SSK
5.	Phenolic Laminated Sheet	- Hylam/ Philips/ Anchor
6.	Power Contactors / Starters	- L&T/ Siemens/ GE/ Crompton Greaves/ Havell's
7.	Timers	- L&T/ Siemens/ GE/ Havell's
8.	MCB/Isolator/ RCCB	- Havell's/ Standard/ Leg Rand /ABB/ GE/ Indokopp
9.	Voltmeter/Ammeter	- AE/L&T/Indotech
10.	Selector Switches	- AE/L&T/ HPL
11.	Indicating Light	- Vaishno/L&T/AE
12.	Lighting Fixtures (Except Pole Lighting Fixtures)	- Bajaj/Crompton Greaves Philips/ Wipro
13.	MCB DB	- Havell's/ Standard/ Leg Rand /ABB/ GE/ Indokopp
14.	Thimbles	- Jonson/Dawell's/ Action
15.	Fuse Switch Units	- L&T/ Siemens/ GE/ Havell's
16.	Changeover Switch	- HH-ELCON/HPL-Socomec/ L & T/ Havell's
17.	Telephone Wire/ Cable	- Delton/ Ecko/ National/ Plaza
18.	Flat Submersible Cable	- Plaza/ Finolex/ Havell's
19.	MCCB	- L & T/ Siemens/Crompton Greaves/G. E.
20.	Battery	- Exide (EP Series)/ C.S.B./ Panasonic/ HNPS (HBL)/Amara Raja (Quanta) and YUASA
21.	Ceiling Fan/Wall Fan/Exhaust Fan	- Bajaj/Khaitan /Crompton Greaves/Orient/Almonard
22.	Motor & Pumps	- Kirloskar/Crompton Greaves/KSB/GE
23.	Poles & Its Lighting Fixtures	- Nova/Twinkle/ Keselec

24. Generator

S. No.	For Engine	For Alternator
1.	Kirloskar	Kirloskar
2.	Cummins	Jyoti
3.	Cater Pillar	Stamford
4.	Greaves	Crompton
5.	Ashok Layland	Lorry Somer
6	Volvo Penta	-----

25. Active Components Switches
(for Networking)

- CISCO/ 3 COM/ SURECOM

26. Passive Components Cables & Accessories
(for Networking)

- Avaya / AMP / PC Net

27. Air Cooled Ducted Split Unit 7.5 TR Capacity

- Voltas, Blue Star, & Carrier Aircon , Schindler

28. Elevator System (Lifts)

- OTIS / KONE / SCHINDLER / MITSUBISHI /
JOHNSON/ ESCON / THYSSEN KRUPP

29. Pole Boxes

- Singex / Henses

30. Cable Joint (Heat Shrinkable)

- Raychem /Denson / M-Seal

31. Modular Switch & Socket

- Anchor / Crabtree /MK / Leg Rand

- Note:-**
1. All other items shall be of ISI marked as per approved sample kept at site of work.
 2. The contractor shall provide the materials as per the make or brand indicated above. When two or more alternatives/ Brands have been mentioned, the brand to be finally used shall be as decided by the engineer-in-charge.

EXECUTIVE ENGINEER(C/M)

ADDITIONAL SPECIFICATIONS FOR PASSENGER AND FREIGHT (GOODS) LIFTS

- | | | | | |
|-----|--|--|-------------------------|-------------------------|
| 1. | Type | Passenger / Freight | | |
| 2. | Number of lifts required.
(Location wise) | 3 Nos.
Library building (Item No. 1) - 2 Nos.
Library building (Item No. 2) - 1 No. | | |
| 3. | Load: Number of persons | 4 Passengers -1 No.
1000kg. - 2 Nos. | | |
| 4. | Rated speed | 1.0 Meter per second – for item No. -1
1.0 Meter per second – for item No. -2 | | |
| 5. | Travel in meter | 9.9 Mtrs for Item No. 1
9.9 Mtrs. for Item No. 2 | | |
| 6. | Number of floors served | Items no. 1 – Four
Items. no. 2 - Four | | |
| 7. | <u>Location</u> | <u>Inside size of lifts well</u> | <u>Pit Depth</u> | <u>Head Room</u> |
| | Library Building – 1 Nos. | 1420mm X 1925mm | 1700mm | 4800mm |
| | Library Building – 2 No. | 2200mm X 2310mm | 1700mm | 4800mm |
| 8. | Clear inside size of lift car : | As per manufacturer’s standards | | |
| 9. | Dimension of lift machine room | | | |
| | <u>Location</u> | <u>Size</u> | | |
| | Library Building | 4880mm X 4765mm X 2800mm | | |
| 10. | Position of counter weight | At the back/sides | | |
| 11. | Position of machine room | At the top of lift shaft | | |
| 12. | a) Type of control | Microprocessor based AC variable voltage variable frequency.
(Lift drive motor and controller shall be suitable for operation with supply voltage variation between + 10% to -10%) | | |
| | b) Type of operation | Simplex selective – collective operation with/ without attendant. | | |
| | c) Potential free contacts | Potential free contacts for each floor position and up and down movement of the lift shall be provided in the controller which can be used for the building automation system at later date. | | |
| 13. | Car entrance door | | | |
| | a) Number | One | | |
| | b) Size | 700mm x 2000mm for passenger lift and 900mm x 2000mm for 1000 kg. lift. | | |
| | c) Type of doors | Power operated, Horizontal sliding – center/side opening | | |
| | d) Car open in front only | Yes | | |

14. Lift Car
- I) Construction design As per General specification for electrical works (Part-III- Lifts & Escalator) -2003
- II) Interior Finish
- i) Panels The side, rear and fascia panel shall scratch proof (moon rock finish) of stainless steel sheet for all lifts.
- ii) Flooring Suitable anti skid flooring as per the standard design of manufactures for all lifts.
- iii) Ceiling False ceiling as per the latest standards of the manufacturer.
- iv) Lighting Florescent/CFL Fitting as per standard design.
- v) Ventilation Suitable ventilation in the false ceiling.
15. Type of signal system
- a) Digital floor position indicator in the car and at all landings (to be provided above the car/landing doors)
- b) Travel direction indicator in the car and at all landings (to be provided above the car/landing doors)
- c) Gongs & visual indication on all landings for pre arrival of the car for two or more cars.
- d) Overload warning Audio & Visual indicator, inside the car (lift should not start on overload)
- e) Battery operated alarm bell and emergency light.
- f) Car operating panel with fade proof luminous buttons in car and with intercom.
- g) Luminous hall buttons with brail inscriptions at all landings.
- h) Fireman's switch at ground floor.
16. Landing Entrance
- a) Locations of landing entrance in different floors. All doors on the same side
- b) Number As per No. of stops
- c) Size Standard size as per latest IS
- d) Type of doors Power operated, Horizontal sliding- center/side opening
- e) Lift in use/lift out of order sign A suitable box above the lift landing with LED illuminated bilingual (in English & Hindi) sign of "LIFT OUT OF ORDER" coming up simultaneously at all floors.
- f) Fire resistant rating of the door Shall have not less than one hour.
17. Electric Supply
- a) Power:- 415 V \pm 10%, AC, 3Phase, 50Hz, 4 wire system.
- b) Lighting:- 230 V, AC, 50 Hz
- c) The entire lift equipment should be suitable for operation at + 10% to – 10% of the rated supply wanted.

18. Is neutral wire available for control circuits Yes
19. Proposed time for completion 06 Months
20. Environmental condition at site of Installation.
- | | DB | RH | WB |
|--------------------|------------|-----|-------------|
| Summer condition: | 50.0Deg.C | 20% | 25.5 Deg.C |
| Winter condition: | 7.5 Deg.C | 70% | 4.4 Deg.C |
| Mansoon Condition: | 35.0 Deg.C | 60% | 2 8.3 Deg.C |
- Height above mean sea level 216m
21. Storage space provided Yes, in the machine room
22. Emergency Supply
- i) Inverter backup with trickle/boost charges arrangement for at least 30 minutes with maintenance free batteries for emergency light, alarm bell and inter-com system.
 - ii) A separate maintenance free battery system should be provided for Automatic Rescue Device (ARD).
23. Door Close Safety Full Height Infrared light curtain door safety in addition to a pressure operated switch (mechanical safety switch)
24. Controller panel
- i) The controller panel shall be of suitable steel gauge having Vermi/dust proof arrangements with suitable in built ventilation system.
25. Firemen Lift
- i) All lifts shall be used as fire lifts.
 - ii) Firemen switch for all the fire lift shall be provided at ground floor to enable the fire service personnel to ground the lift in case of emergency.
 - iii) The work 'fire lift' shall be conspicuously displayed in fluorescent paint on all the fire lifts landing doors at each floor level.
26. To Automatic Rescue Device
- i) Automatic Rescue Device (ARD) should monitor the normal power supply in the main controller and shall activate rescue operations within ten seconds of normal power supply failure. It should bring the elevator to the nearest floor at a slower speed than the normal run. While proceeding to the nearest floor the elevator will detect the zone and stop. After the elevator has stopped, it automatically opens the doors and parks with door open. After the operation is completed by the ARD the elevator is automatically switched over the normal operations as soon as normal power supply resumes.

- ii) In case the normal supply resumes during Automatic Rescue Device (ARD) in operation the elevator will continue to run in ARD mode until it reached the nearest landing and the doors are fully opened. If normal power supply resumes when the elevator is at the landing, it will automatically be switched to normal power operation.
- iii) All the lift safeties shall remain active during the ARD at least seven times a day. Provided the duration between usage is at least 30 minutes.
- iv) The battery capacity should be adequate so as to operate the ARD at least Seven times a day. Provided to duration between usage is at least 30 minutes.

27. Additional item, if any As per BOQ.

Commercial and Additional Conditions

1.0 General

1.1 This specification covers manufacture, testing as may be necessary before dispatch, delivery as site, all preparatory work, assembly and installation, commissioning putting into operation of Lifts & Escalators.

1.2 Location

The Lifts/ Escalators will be installed at Library Building at NSIT, Sector-3, Dwarka, New Delhi-78.

1.3 The work shall be executed as per upto date CPWD General Specifications for Electrical Works (Part III Lifts & Escalators-2003) as per relevant IS codes and as per directions of Engineer-in-Charge. These additional specifications are to be read in conjunction with above and in case of variations; specifications given in this Additional conditions shall apply. However, nothing extra shall be paid on account of these additional specifications & conditions as the same are to be read along with schedule of quantities for the work.

1.4 The tenderer should in his own interest visit the site and familiarise himself with the site conditions before tendering.

1.5 No T&P shall be issued by the Department and nothing extra shall be paid on account of this.

2.0 Commercial Conditions

2.1 Type of Contract

The work to be awarded by this tender shall be treated as indivisible works contract.

2.2 Submission and opening of Tenders:

2.2.1 The tender is in two parts:

- (a) Part I – Technical cum commercial Bid
- (b) Part II – Price Bid

2.2.2 Both the above parts i.e. Technical-cum-commercial bid and Price-bid will have to be submitted by the tenderers in separate sealed envelopes as under on or before the last date & time as notified in tender documents.

- (i) **First Envelope:** Earnest money amounting to Rs./- in prescribed manner. The name of work and the words “EMD amount” should be written on top of this sealed cover. EMD should be in shape of DD or pay order of a scheduled/nationalized bank guaranteed by RBI and drawn in favour of Director, NSIT.
- (ii) **Second Envelope:** Technical-cum-commercial bid, alongwith, complete tender documents duly filled, as purchased from NSIT duly signed for acceptance of all terms and conditions. Price schedule attached with this part should be left blank. This portion of price schedule of technical bid should be utilized to know technical details of various items.
- (iii) **Third Envelope:** This envelop should contain price bid offer only. The tenderers should fill up their rates in the price bid (part II of tender) in the format issued by the department. The rates/amount in this schedule should be filled up in figures as well as in words. Tenders, in which the price bids are given in any other format, are liable to be rejected. The abstract of cost will also be required to be filled in. In the price bid, there shall be no condition whatsoever. Firms should clearly note that price bids with any condition including that of conditional rebates shall be rejected forthwith.

- 2.2.3 The tenderers are advised not to deviate from the technical specifications/ items, commercial terms and conditions of NIT like terms of payment, guarantee, arbitration clause, escalation etc.
- 2.2.4 The Tenders shall be opened on the due date and time, as specified in from CPWD-6 in the presence of tenderers of their authorized representatives. Envelope containing earnest money shall be opened first. If the earnest money is found to be in order, only then second envelope containing Technical cum commercial bid shall be opened. In case the earnest money deposited is not in order, his technical cum commercial bid shall not be opened. (Third envelope containing price bid offer shall not be opened at this stage).
- 2.2.5 Scrutiny/ evaluation of the technical bid shall be done by the department. In case it is found that the technical bid of a tenderer is not in line with NIT specifications, requirements and/ or contains many deviations, the department reserves the right to reject the technical bid of such firms (s) without making any reference to the tenderer (s).
- 2.2.6 Necessary clarifications required by the department shall have to be furnished by the tenderer within the time given by the department for the same. The tenderer will have to depute his representative to discuss with the officer(s) of the department as and when so desired. In case, in the opinion of the department a tenderer is taking undue long time in furnishing the desired clarifications, his bid will be rejected without making any reference.
- 2.2.7 After obtaining clarifications from all the tenderers, the department may modify the technical & commercial conditions/ specifications if required. Department will intimate the name of the tenderers, whose technical bids are acceptable. The date and time of opening of Financial Bid will be intimated in advance.
- 2.2.8 The part II of the tender i.e. Price-bid will be opened by the Executive Engineer (E) in the presence of the representatives of the tenderers who wish to be present.
- 2.2.9 The department reserves the right to reject any or all the price bids and call for fresh prices/tenders as the may be without assigned any reason.

3.0 **Terms of Payment:**

The following percentage of contract rates for the various items included in the contract shall be payable against the stage of work shown herein.

- 3.1 80% after initial inspection and delivery at site in good condition on pro-rata basis.
- 3.2 10% after completion of installation in all respect.
- 3.3 Balance 10% will be paid after testing, commissioning trial run & handing over to the department for beneficial use.

3.4 **Security Deposit:**

Security Deposit shall be deducted from each running bill and the final bill to the extent of 10% of the gross amount payable subject to maximum limit of 5% of the tendered value of work. The earnest money deposit shall be adjusted against this security deposit. The security deposit shall be released on the expiry of guarantee period stipulated in the contract.

4. **Rates:**

- 4.1 The rates quoted by the tenderer, shall be inclusive of all taxes duties and levies and all charges for packing forwarding, insurance, freight and delivery, installation, testing, commissioning etc. at site i/c temporary constructional storage, risks, over head charges general liabilities/ obligations and clearance from local authorities. However, the fee for these inspections shall be borne by the department.
- 4.2 The contractor has to carry out routine & preventive maintenance for 12 months from the date of handing over. Nothing extra shall be paid.
- 4.3 Octroi duty shall not be paid separately but octroi exemption certificate can be furnished by the department on demand. However, the department is not liable to re-imbrues the octroi duty in case exemption certificates are not honored by the concerned authorities.

5.0 **Completeness of tender:**

All sundry equipment, fittings, unit assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections, and all other items which are useful and necessary for efficient assembly and installation of equipment and components of the work shall be deemed to have been included in the tender irrespectively of the fact whether such items are specifically mentioned in the tender documents or not.

- 6.0 For item/ equipment requiring initial inspection at manufacturer's works the contractor will intimate the date of testing of equipments at the manufacturer's works before dispatch. The department also reserves the right to inspect the fabrication job at factory and the successful tenderer has to make the arrangement for the same. The successful tenderer shall give sufficient advance notice regarding the dates proposed for such tests to the department's representative(s) to facilitates his presence during testing/ fabrication. The Engineer-in-charge at his discretion may witness such testing/fabrication. The cost of the Engineer's visit to the factory will be borne by the Department. Also equipment may be inspected at the Manufacturer/ Authorized Dealers premises, before dispatch to the site by the contractor.

7.0 **Storage and custody of materials:**

The Lift machine room may be used for storage of materials and equipments. No separate storage accommodation shall be provided by the department. Watch and ward of the stores and their safe custody shall be the responsibility of the contractor till the final taking over the installation by the department.

8.0 **Care of the Building:**

Care shall be taken by the contractor while handling and installing the various equipments and components of the work to avoid damage to the building. He shall be responsible for repairing all damages and restoring the same to their original finish at his cost. He shall also remove at his cost all unwanted and waste materials arising out of the installation from the site of work.

9.0 **Completion period**

The completion period of Six months indicated in the tender documents is for the entire work of planning, designing, supplying, installation, testing, commissioning and handing over of the entire system to the satisfaction of the Engineer-in-charge.

10.0 **Performance Guarantee:**

- 10.1 The tender shall guarantee among other things, the following
- (a) Quality, strength and performance of the materials used.
 - (b) Safe mechanical and electrical stress on all parts under all specified conditions of operation.
 - (c) Satisfactory operation during the maintenance period.
- 10.2 The successful tenderer shall submit an irrevocable performance guarantee of 5% of the tendered amount in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement within 15 days of issue of letter of intent. This guarantee shall be in the form of government securities or fixed deposit receipts or guarantee bonds of any scheduled bank or the State Bank of India in the specified format. The performance guarantee shall be initially valid up to the stipulated date of completion plus 60 days beyond. This bank guarantee kept valid till the recording of completion certificate for the work by the competent authority.

11.0 **Guarantee**

- 11.1 All equipments shall be guaranteed for a period of 12 months from the date of taking over the installation by the department against unsatisfactory performance and/ or break down due to defective design, workmanship of material. The equipments or components, or any part thereof, so found defective during guarantee period shall be forthwith repaired or replaced free of cost, to the satisfaction of the Engineer-in-Charge. In case it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of the Engineer-in-Charge in the regard shall be final.

12. **Power Supply**

Electric service connection of 415 V + 10% 3 phase, 4 wires, 50 Hz, AC supply shall be provided by the department for installation purpose free of charge.

13. **Water Supply**

Water supply shall be made available by the department at one point.

14. **Data Manual and Drawings to be furnished by the tenderers:**

- 14.1 **With Tender:** tenderer shall furnish along with the Technical Bid detailed technical literature, pamphlets and performance data for appraisal and evaluation of the offer.

14.2 **After Award of work**

- (i) The successful tenderer would be required to submit the following drawings within a month of award of work for approval before commencement of installation.
 - (a) All general arrangement drawings.
 - (b) Details of foundations for the equipment, load data, location etc. of various assembled equipment as may be needed generally by other agencies for purpose of their work. The data will include breaking load on guides, reaction of buffers on lift pits reaction on support points in machine room, lift well etc.
 - (c) Complete layout dimensions for every unit/ group of units with dimensions required for erection purposes.
 - (d) Any other drawing/ information not specifically mentioned above but deemed to be necessary for the job by the contractor.

15. The successful tenderer should furnish well in advance three copies of detailed instruction and manuals of manufacturers for all items of equipments regarding installation, adjustments operation and maintenance i/c preventive maintenance & trouble shooting together with all the relevant data sheets, spare parts catalogue and workshop procedure for repairs, assembly and adjustment etc. all in triplicate.
16. **Extent of work**
 - 16.1 The work shall comprise of entire labour including supervision and all materials necessary to make a complete installation and such tests and adjustments and commissioning as may be required by the department. The term complete installation shall not only mean major items of the plant and equipments covered by specifications but all incidental sundry components necessary for complete execution and satisfactory performance of installation with all layout charts whether or not those have been mentioned in details in the tender document in connection with this contract.
 - 16.2 Minor building works necessary for installation of equipment, foundation, making of opening in walls or in floors and restoring to their original condition, finish and necessary grouting etc. as required.
 - 16.3 Maintenance (Routine & preventive) for one year from date of completion and handing over.
 - 16.4 The work is turn key project. Any item required for completion of the project but left inadvertently shall be executed with-in the quoted rates.
- 17.0 **Inspection and testing:**
 - 17.1 Initial and final inspection/ testing shall be carried out as per Section-IV of CPWD General Specification for Electrical (Part-III –Lifts & Escalators’2003).
 - 17.2 Test at manufacturer’s premises will be witnessed by department’s representatives. This condition can be waived off by the office approving the NIT.
 - 17.3 Environmental test certificate for Controller & Automatic Rescue Devices should be furnished from any accredited laboratory of Government/ Autonomous bodies to prove to tropicalisation for the environment conditions specified in tender.
 - 17.4 Copies of all documents of routine and type test certificate of the equipment, carried out at the manufacturers premises shall be furnished to the Engineer-in-charge and consignee, as per Section-IV of CPWD General Specification for Electrical (Part-III –Lifts & Escalators’2003).
 - 17.5 After completion of the work in all respects the contractor shall offer the installation for testing and operation for carrying out joint inspection and will be carried out as per Appendix-III of CPWD General Specification for Electrical (Part III Lifts & Escalators’2003).
 - 17.6 **Running in Period:** After satisfactory final inspection, the contractor shall demonstrate the trouble free running of the installation for a period of not less than 30 days before the Department takes over each lift. During this period, the lifts shall be kept either in automatic or manual mode. After the lift-installation has operated without any major breakdown for 30 days, the installation shall be taken over by the deptt. During this period i.e. 30 days, the lift shall be deemed to have run trouble-free, if the number of breakdowns are not more than four calls (excluding false calls and leveling defects). The tenderers should include one year of free maintenance period after completion of 30 days of trouble free running.

18.0 **Validity**

Tenders shall be valid for acceptance for a period of 60 days from the date of opening of price bid.

19.0 **Compliance with Regulations and Indian standards**

19.1 All works shall be carried out in accordance with relevant regulation, both statutory and those specified by the Indian Standards related to the works covered by this specification. In particular, the equipment and installation comply with the following:

- (i) Factories Act.
- (ii) Indian Electricity Rules
- (iii) I.S. & BS Standards as applicable
- (iv) Workmen's compensation Act
- (v) Statutory norms prescribed by local bodies like CEA, NDMC, MCD etc.

19.2 Nothing in this specification shall be construed to relieve the successful tenderer of his responsibility for the design, manufacture and installation of the equipment with all accessories in accordance with currently applicable regulations and safety codes.

19.3 Successful tenderer shall arrange for compliance with statutory provisions of safety regulations and departmental requirements of safety codes in respect of labour employed on the work by the tenderer. Failure to provide such safety requirement would make the tenderer liable for penalty of Rs. 50/- for each default. In addition, the department will be at liberty to make arrangement for the safety requirements at the cost of tenderer and recover the cost thereof from him.

20.0 **Indemnity**

The successful tenderer shall at all times indemnify the department, consequent on this works contract. The successful tenderer shall be liable, in accordance with the Indian Law and Regulations for any accident occurring due to any cause and the department shall not be responsible for any accident or damage incurred or claims arising there from during the erection construction and putting into operation the equipments and ancillary equipment under the supervision of the successful tenderer shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the successful tenderer due to the above.

21.0 **Erection Tools**

No tools and tackles either for unloading or for shifting the equipments for erection purposes would be made available by the department. The successful tenderer shall make his own arrangement for all these facilities.

22.0 **Cooperation with other agencies**

The successful tenderer shall co-ordinate with other contractors and agencies engaged in the construction of building, if any, and exchange freely all technical information's so as to make the execution of this works contract smooth. No remuneration should be claimed from the department for such technical cooperation. If any unreasonable hindrance is caused to other agencies and any completed portion of the work has to be dismantled portion of the work was not undertaken by the successful tenderer himself.

23.0 **Mobilization Advance**

No mobilization advance shall be paid for this work.

24.0 **Insurance and Storage**

All consignments are to be duly insured during transit up to the destination from warehouse to warehouse at the cost of the supplier. Necessary insurance covers shall also be made by the tenderer/contractor for installing the equipments till the equipments are handed over duly installed, tested and commissioned.

25.0 **Verification of correctness of Equipment at Destination**

The contractor shall have to produce all the relevant records to certify that the genuine equipment from the manufacturers has been supplied and erected.

26.0 **Painting**

This shall include cost of painting of entire exposed iron work complete in the installation. All equipments works shall be painted at the works before dispatch to the site.

27.0 **Training**

The scope of works includes on job technical training of two persons at site. Nothing extra shall be payable on this account.

28.0 **Maintenance**

28.01 Sufficient trained and experienced staff shall be made available to meet any exigency of work during the guarantee period of one year form the handing over of the installation.

28.2 The maintenance, routine as well as preventive for one year from the date of taking over the installation as per manufacturers recommendation shall be carried out and the record of the same shall have to be maintained.

29.0 **Interpreting Specifications**

In interpreting the specifications, the following order of decreasing importance shall be followed in case of contradictions:

- (a) Schedule of quantities
- (b) Technical specifications
- (c) Drawing (if any)
- (d) General Specifications
- (e) Relevant IS or other international code in case IS code is not available.

TECHNICAL PARTICULARS

Sl. No.	Particulars of Details
A.	General : <ol style="list-style-type: none"> 1. Name of Manufacturer 2. Country of Manufacture 3. Capacities (Persons/Weight) 4. Service 5. Speed of Travel 6. Height of Travel 7. No. of Floors served 8. No. of openings 9. Positions of counterweight 10. Type of leveling method
B.	Machine: <ol style="list-style-type: none"> 1. Position of Machine 2. Motor 3. Electric supply particulars for which it is suitable for operation
C.	Brake <ol style="list-style-type: none"> 1. Type
D.	Car and Doors: <ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> (a) Size (b) Operation (c) Construction, Design & finish 8. Landing Doors: <ol style="list-style-type: none"> (a) Size (b) Operation (c) Construction, Design & finish
E.	Safety Devices: <ol style="list-style-type: none"> 1. Car safety-type 2. Counter weight safety-type 3. Door inter locks in car-type 4. Door locks in landing-type
F.	Other Safeties included in the offer:

WORKS TO BE DONE BY THE CONTRACTOR

In addition to the manufacture supply, installation, testing and commissioning of the equipments following works shall be deemed to be included within the scope of the work to be done by the contractor.

- 1.1 All minor building works necessary for installation of equipments such as making of openings in walls/floors, either of RCC or brick masonry etc. and restoring them to original condition and finish. The scope of minor building work includes all grouting of foundation, concrete pads to be formed or made as base for supporting R.S. Joists etc. grouting and anchoring of all the boards, clamps, supports foundation bolts, installation in position of R.S. Joists in machine room, lift well, or in the pit. Such works shall exclude cutting of marble work and construction of partition wall where involved.
- 1.2 Supply of necessary R.S. Joists or angle iron support brackets etc. for installation of the lift either in machine room or at other places as may be necessary including their installations in positions.
- 1.3 All electrical works, except bringing in main connection and earth connection to machine room terminated on suitable switch fuse unit/board. All electrical works including inter connection from this switch/board and loop earthing from the earth bar to be provided in the machine room shall be done by the contractor.
- 1.4 Responsibility to ensure safety of all materials against pilferage and damage till the installation is handed over to the consignee.
- 1.5 All scaffolding as may be necessary in the lift well during erection work and subsequently removal.
- 1.6 Temporary barricades with caution boards at each landing to prevent accident during execution of work.
- 1.7 Supply and installation of landing facia plates made of steel, car apron plates, sill support angles with necessary clamps, foundations bolts supports etc. as necessary in connection with the installation of the lift.
- 1.8 Steel ladder to be provided for access to lift pit wherever required under regulations.

2. Co-ordination with other agencies:

The successful contractor shall coordinate lift installation work with other contractor/agencies engaged in construction of building if any and exchange freely all technical information so as to make the execution of work smoothly.

3. Completeness of tender:

All fittings, equipments, unit, assemblies and accessories, hardware, foundation bolts, terminal lugs for electrical connections, cable glands, junction box and items which are useful and necessary for efficient assembly in operation and installation shall be deemed to have been included in the scope of work. The installation shall be complete in all details whether such details have been mentioned in the specification or not.

4. Information to be supplied by the contractor after award of work:

Within a period by 4 weeks from the date of receipt of letter of acceptance the contractor shall provide the department his programme/ bar chart for submission of preliminary drawings, manufacturing of equipments, installation, testing, commissioning and handing. This should be correlated with the building competition programme. The contractor shall be required to submit in triplicate the following drawings and information within 4 weeks period for approval of the department before commencing the work:-

- (a) All general arrangement drawings
- (b) Details of foundations for equipments, load data, locations etc. of various assembled equipments as may be needed by other agencies for purpose their work. The data will include breaking load on guides, reactions of but on lift pits, reaction on support points in machine room, lift well etc.
- (c) Complete layout dimension for every unit/group of units with dimensions required for erection purpose.
- (d) Any other drawing/ information not specifically mentioned above but deemed to be necessary for the job by the contractor.
- (e) List of items to be carried out by the department in accordance with tender accepted.

5. Commencement of work:

As soon the preliminary drawings are approved, the contractor should commence the work. The contractor shall also send sets of final drawing to the department who shall return one copy.

NETAJI SUBHAS INSTITUTE OF TECHNOLOGY
AZAD HIND FAUJ MARG: SECTOR-3,
DWARKA, NEW DELHI-110078

Name of Work: Providing, Installation, Testing and Commissioning of Lifts in Library Block of NSIT.

S. No.	Name of the Work	Qty.	Unit	Deviation in Specification of Items	
				Yes	NO
1.	<p>Supply, Installation, Testing & Commissioning of 1000 Kg capacity freight, electric traction lift having contract speed of 1.0 Meter per second serving different floors in the exiting lift shaft as per detailed specifications attached and as under complete with all the equipment accessories.</p> <p>(Make:- OTIS / KONE / SCHINDLER / MITSUBISHI / JOHNSON / OMEGA /ESCON /THYSSEN KRUP).</p> <p>Location of Lift: Library Building – 2 Nos.</p> <p>i) Speed – 1.0 Meter per second ii) Floor – First Floor + 3 Floor iii) Travel – 9.9. Meter (approx.) iv) Stop & Opening – 4 Stop & 4 Opening (all opening be same side) v) Controller – A.C. variable voltage and variable frequency. vi) Automatic Rescue Device (ARD) complete with dry maintenance free batteries as required. vii) Operation - Microprocessor based simplex selective–collective (with without - attendant) viii) Power: 415 Volts \pm 10%, 3 Phase 4 wire 50 Hz AC system. ix) Car Enclosure: Stainless Steel scratch proof (Moon Rock Finish). x) Type of Doors: a) Car : Power operated, central opening, horizontal sliding stainless steel scratch proof (Moon Rock Finish). Landing doors: Power operated, central opening, b) horizontal sliding stainless steel scratch proof (Moon Rock Finish). xi) A hand rail not less that 600mm long at 900mm above floor level to be fixed adjacent to control panel in the lift car. xii) Voice announcement system in the car to announce the position of the elevator in the hoist way as the car passes or stops at floor served by the elevator. xiii) a) Combined Luminous Hal Button and Digital Hall Position indicator. b) Battery operated Alarm Bell and Emergency Light c) Firemen switch d) Infra-red door Curtain-Full screen. e) Integral full height car operating panel with luminous buttons, Digital car position indicator with direction arrows, with overload warning indicator, and intercom facility. xiv) Flooring: Steel Checquered Plate flooring (minimum 6 mm thick) as per manufacturer’s standards.</p>	2 Nos.	Each		

S. No.	Yes	Yes	Unit	Deviation in Specification of Items	
				Yes	NO
2.	<p>Supply, Installation, Testing & Commissioning of 4 passenger (272 Kg) electric traction lift having contract speed of 1.0 Meter per second serving different floors in the existing lift shaft as per detailed specifications attached and as under complete with all the equipment accessories. (Make:- OTIS / KONE / SCHINDLER / MITSUBISHI / JOHNSON / OMEGA /ESCON /THYSSEN KRUP).</p> <p>Location of Lift: Library Building – 1 Nos.</p> <p>i) Speed – 1.0 Meter per second ii) Floor – First Floor + 3 Floor iii) Travel – 9.9. Meter (approx.) iv) Stop & Opening – 4 Stop & 4 Opening (all opening be same side) v) Controller – A.C. variable voltage and variable frequency. vi) Automatic Rescue Device (ARD) complete with dry maintenance free batteries as required. vii) Operation - Microprocessor based simplex selective-collective (with/without – attendant) viii) Power: 415 Volts \pm 10%, 3 Phase 4 wire 50 Hz AC system. ix) Car Enclosure: Stainless Steel scratch proof (Moon Rock Finish). x) Type of Doors: a) Car : Power operated, central/side opening, horizontal sliding stainless steel scratch proof (Moon Rock Finish). b) Landing doors: Power operated, central/side opening, horizontal sliding stainless steel scratch proof (Moon Rock Finish). xi) A hand rail not less that 600mm long at 900mm above floor level to be fixed adjacent to control panel in the lift car. xii) Voice announcement system in the car to announce the position of the elevator in the hoist way as the car passes or stops at floor served by the elevator. viii) a) Combined Luminous Hal Button with brail inscriptions and Digital Hall Position indicator. b) Battery operated Alarm Bell and Emergency Light c) Firemen switch d) Infra-red door Curtain-Full screen. e) Integral full height car operating panel with luminous buttons, Digital car position indicator with direction arrows, with overload warning indicator, and intercom facility. xiv) Flooring: Decorative Flooring as per manufacturer’s standards.</p>				
		1 Nos.	Each		

Contractor Signature

Executing Engineer (C)/M

FINANCIAL BID/ PRICE BID

For the work

of

**Name of Work: Providing, Installation, Testing and
Commissioning of Lifts in Library Block of NSIT.**

Schedule of Quantity

Name of Work: Providing, Installation, Testing and Commissioning of Lifts in Library Block of NSIT.

S. No.	Name of the Work	Qty.	Unit	Rate(Rs.)	Amount(Rs.)
1.	<p>Supply, Installation, Testing & Commissioning of 1000 Kg capacity freight, electric traction lift having contract speed of 1.0 Meter per second serving different floors in the exiting lift shaft as per detailed specifications attached and as under complete with all the equipment accessories. (Make:- OTIS / KONE / SCHINDLER / MITSUBISHI / JOHNSON / OMEGA /ESCON /THYSSEN KRUP).</p> <p>Location of Lift: Library Building – 2 Nos.</p> <p>i) Speed – 1.0 Meter per second ii) Floor – First Floor + 3 Floor iii) Travel – 9.9. Meter (approx.) iv) Stop & Opening – 4 Stop & 4 Opening (all opening be same side) v) Controller – A.C. variable voltage and variable frequency. vi) Automatic Rescue Device (ARD) complete with dry maintenance free batteries as required. vii) Operation - Microprocessor based simplex selective–collective (with without - attendant) viii) Power: 415 Volts \pm 10%, 3 Phase 4 wire 50 Hz AC system. ix) Car Enclosure: Stainless Steel scratch proof (Moon Rock Finish). x) Type of Doors: a) Car : Power operated, central opening, horizontal sliding stainless steel scratch proof (Moon Rock Finish). Landing doors: Power operated, central opening, horizontal sliding stainless steel scratch proof (Moon Rock Finish). b) xi) A hand rail not less that 600mm long at 900mm above floor level to be fixed adjacent to control panel in the lift car. xii) Voice announcement system in the car to announce the position of the elevator in the hoist way as the car passes or stops at floor served by the elevator. xiii) a) Combined Luminous Hal Button and Digital Hall Position indicator. b) Battery operated Alarm Bell and Emergency Light c) Firemen switch d) Infra-red door Curtain-Full screen. e) Integral full height car operating panel with luminous buttons, Digital car position indicator with direction arrows, with overload warning indicator, and intercom facility. xiv) Flooring: Steel Checquered Plate flooring (minimum 6 mm thick) as per manufacturer’s standards.</p>	2 Nos.	Each		

S. No.	Name of the Work	Qty.	Unit	Rate(Rs.)	Amount(Rs.)
2.	<p>Supply, Installation, Testing & Commissioning of 4 passenger (272 Kg) electric traction lift having contract speed of 1.0 Meter per second serving different floors in the existing lift shaft as per detailed specifications attached and as under complete with all the equipment accessories. (Make:- OTIS / KONE / SCHINDLER / MITSUBISHI / JOHNSON / OMEGA /ESCON /THYSSEN KRUP).</p> <p>Location of Lift: Library Building – 1 Nos.</p> <p>i) Speed – 1.0 Meter per second ii) Floor – First Floor + 3 Floor iii) Travel – 9.9. Meter (approx.) iv) Stop & Opening – 4 Stop & 4 Opening (all opening be same side) v) Controller – A.C. variable voltage and variable frequency. vi) Automatic Rescue Device (ARD) complete with dry maintenance free batteries as required. vii) Operation - Microprocessor based simplex selective–collective (with/without – attendant) viii) Power: 415 Volts \pm 10%, 3 Phase 4 wire 50 Hz AC system. ix) Car Enclosure: Stainless Steel scratch proof (Moon Rock Finish). x) <u>Type of Doors:</u> a) Car : Power operated, central/side opening, horizontal sliding stainless steel scratch proof (Moon Rock Finish). b) Landing doors: Power operated, central/side opening, horizontal sliding stainless steel scratch proof (Moon Rock Finish). xi) A hand rail not less that 600mm long at 900mm above floor level to be fixed adjacent to control panel in the lift car. xii) Voice announcement system in the car to announce the position of the elevator in the hoist way as the car passes or stops at floor served by the elevator. viii) a) Combined Luminous Hal Button with brail inscriptions and Digital Hall Position indicator. b) Battery operated Alarm Bell and Emergency Light c) Firemen switch d) Infra-red door Curtain-Full screen. e) Integral full height car operating panel with luminous buttons, Digital car position indicator with direction arrows, with overload warning indicator, and intercom facility. Flooring: Decorative Flooring as per manufacturer’s standards.</p>	1 Nos.	Each		

Contractors Signature

Executing Engineer (C)/M