



DELHI STATE CANCER INSTITUTE

*-a centre par excellence in the service of humanity
(an autonomous institution under the Govt. of NCT of Delhi)*

Dilshad Garden, Delhi 110 095 (India)

TeleFax: +91-11-2211 0505 E-mail: dsci.delhi@yahoo.co.in Web: www.dsci.nic.in

(Office of the Chief Engineer, DSCI)

Name of Contractor : _____
Date of Application : _____
Tender Issued on : _____
Date of Receipt of Tender : _____
Date of Opening of Tender : _____

DELHI STATE
CANCER INSTITUTE

PART - I

TECHNICAL BID

FOR

**WORK OF DESIGN SUPPLY, INSTALLATION, TESTING COMMISSIONING
& OPERATION OF LIFTS AT SERVICE BLOCK AND DHARAMSHALA,
IN DELHI STATE CANCER INSTITUTE, DILSHAD GARDEN, DELHI-110095**

GOVT. OF NCT OF DELHI

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NOTICE INVITING TENDER

Sealed Item Rate Tenders are invited on behalf of Director, DSCI in two stage bid system in two envelopes (Part-I Technical bid Part-II Price Bid), from eligible bonafide lift Manufacturing companies of financial standing and reputation and fulfilling the pre-qualifying requirements detailed below for the work at Delhi State Cancer Institute, Dilshad Garden, Delhi-110095

S. No.	Name of work	Estimated Cost In lacs	Cost of Tender	Earnest Money In lacs	Time of completion	Experience of executing 3 similar works or 1 similar work during Last 7 Yrs.
1.	Design, Supply, Installation, Testing & Commissioning of Lifts at Service Block and Dharamshala in Delhi State Cancer Institute as per Cat 'A' list for lifts of CPWD	Rs.41.53/- lacs	Rs.500/-	Rs.83060/-	9 Months	40%for 3works 60% for 2works 80% for 1works

Earnest money in favour of DSCI has to be deposited in the shape of Demand Draft / FDR of scheduled bank valid up to 90 days from the date of opening must accompany with application for issue of tender. The tenderer must submit the copies of valid VAT Registration, TIN no. issued by trade and taxes department along with copy of VAT return of last quarter and Experience / Completion Certificates etc. at the time of application for issue of tender document. Other terms and conditions can be seen in the tender document.

Original certificates should be brought for verification on the day of opening of Part-I of tender. Tender document can be obtained from the office of Chief Engineer, Delhi State Cancer Institute, Dilshad Garden, Delhi-110095, against application on all working days between 10.30 AM to 4.00 PM up to 07/07/10. Tender document in two envelopes (Technical Bid + Price Bid) shall be received up to 3.00 P.M. on 14/07/10 Part-I and Part-II (Technical Bid) of Eligible tenderers will be opened on 14/07/10. The Director DSCI reserves the right to reject any / all the tenders without assigning any reasons and can Award the work to more then one tenderers.

CHIEF ENGINEER, DSCI



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NOTICE INVITING TENDER

Item rate tenders are invited on behalf of the Director of DSCI from approved and eligible Manufacturers for the work of Design, Supply, Installation, Testing and commissioning of Lifts at Delhi State Cancer Institute, Dilshad Garden, Delhi -110095

1. The work is estimated to cost Rs.41.53 lacs. This cost, however, is given merely as a rough guide.
2. Tender will be opened to eligible Manufacturer provided they produce definite proof from the appropriate authority which shall be to the satisfaction of the competent authority.
3. Conditions for Works. For works estimated to cost up to Rs.10crore three similar works each costing Rs. 16.61 lacs or two Similar works each costing Rs. 24.91 lacs or one similar work costing Rs.33.22 lacs during last seven years ending on the last day of the month previous to the one in which the tenders are invited.
4. Agreement shall be drawn with the successful tenderer on prescribed DSCI Form No. 7/8, tenderer shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.

The time allowed for carrying out the work will be 9 Months from the 7th day after the date of written orders to commence the work 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.

5. The site for the work is available. Receipt of applications for issue of forms will be stopped by 1600 Hrs, four days before the date fixed for opening of tenders. Issue of tender forms will be stopped three days before the date fixed for opening of tenders.
6. Tender documents consisting of plans, specifications, the schedule of quantities of the various classes of work to be done and the set of terms and 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 Chief Engineer between hours of 11.00 A.M. & 4.00 P.M. every day except on Sunday and Public Holiday. Tender documents, excluding standard form, will be issued from his office, during the hours specified above, on payment of Rs. 500/- in cash (upto 7/07/2010).
7. The tenderer must produce an Income-Tax clearance certificate in the revised form as modified under Ministry of Finance O.M. No. 67/30/69 ital dated 02.07.1970 as amended from time to time. The tenderer must provide VAT Registration and VAT clearance certificates and original documents of Registration of appropriate class along with photocopy duly attested with DSCI officer not below the rank of EE at the time of opening of Tender, other wise tender will not be opened in the absence of requisite certificates.
8. Tenders, which should always be placed in sealed envelope, with the name of work and due date written on the envelopes, will be received by the Chief Engineer up to 3.00 P.M. on 14/07/10 and will be opened by him or his authorized representative in his office on the same day at 3.30 P.M. (Technical Bid)

9. The tender shall be accompanied by earnest money, of Rs.83060/- in Draft/Deposit at Call receipt of a Scheduled Bank issued in favour of DSCI _____ the amount being credited to DSCI. 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.
10. Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenderers 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 and 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 rates at which stores, tools and plant, etc. will be issued to him by the DSCI and local conditions and other factors having a bearing on the execution of the work.
11. The competent authority on behalf of Director, DSCI does not bind himself to accept the lowest or any other tender, and reserves it right to reject any or all of the tenders received without the assignment of any reason. The competent authority also reserves its right to allow to the Central Government, Public Sector Enterprises a purchase preference with reference to the lowest valid price bid where the quoted price is within 10% of such lowest price, other things being equal. All tenders, in which any of the prescribed conditions are not fulfilled or are incomplete in any respect, are liable to be rejected.
12. 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 be rejected.
13. The competent authority on behalf of Director of DSCI, reserves to himself the right to accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.
14. The contractor shall not be permitted to tender for works in the DSCI 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 Assistant Engineer (both inclusive). He shall also intimate the name of the 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 Delhi State Cancer Institute in the Department Govt. of Delhi. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this department.
15. No Engineer of gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of DSCI, 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 DSCI in writing. The 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 DSCI as aforesaid before submission of the tender or engagement in the contractors service.
16. The tender for the works shall remain open the acceptance for a period of 90 (Ninety) days from the date of opening of tenders, if any tenderer withdraws his tender before the said period or makes any modifications in the terms and conditions of the tender

which are not acceptable to the department, then the DSCI, shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest moneys as aforesaid.

17. 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 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 there to.
 - b. Standard DSCI form 8.
18. If any tenderer submits, false information, and / or documents his, earnest money deposit shall be forfeited as per rule and such tenderer will be black listed for future tendering in DSCI for a period of two years.
19. A pre Bid Meeting shall be held in the office of Chief Engineer for seeking any classification before Tendering on 09/07/2010 at 3:00PM.



**SIGNATURE OF CHIEF ENGINEER
For & on behalf of Director of DSCI**



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(Office of the Chief Engineer, DSCI)

ITEM RATE TENDER AND CONTRACT FOR WORKS

Name of Work : Construction of Delhi State Cancer Institute, Dilshad Garden, New Delhi-110095

Sub Head : Design, Supply, Installation, Testing and Commissioning of Lifts at Service Block and Dharamshala in Delhi State Cancer Institute, Dilshad Garden, Delhi-110095

(a) To be submitted by 3.00 P.M. on 14/07/10 to Chief Engineer, Delhi State Cancer Institute, Dilshad Garden, Delhi-110095.

(b) Technical Bid to be opened in presence of tenderers or their representative who may be present at 3.30 P.M. on 14/07/10 in the office of Chief Engineer, Delhi State Cancer Institute at the above mentioned address.

Issued to _____

Signature of officer issuing the documents _____

Designation _____

Date of issue _____

TENDER

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

I / We hereby tender for the execution of the work specified for the Director of DSCI within the time specified in schedule "F", via, schedule of quantities and in accordance in all respect with the specifications designs, drawings and instructions in writing referred to in rule-I of general rules and directions and in Clause 11 of the Conditions of contract and with such material as are provided for, by, and in respect in accordance with, such conditions so far as applicable.

I / We agree to keep the tender open for 90 days after the opening of financial bid there of and not to make any modifications in the tender conditions.

A sum of _____ is hereby forwarded in Demand Draft / Deposit at call Receipt of a Scheduled Bank as earnest money, if I/we, fail to commence the work specified I/We agree that the said Director of DSCI or his successors in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money 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, up to 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 forms.

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

I / We agree that should I/we fail to commence the work specified in the above memorandum, an amount equal to the amount of the earnest money mentioned in the form of invitation of tender shall be absolutely forfeited to the Director of DSCI and the same may at the option of the competent authority on behalf of the Director of DSCI be recovered without prejudice to any other right or remedy available in law out of the deposit in so far as the same may extend in terms of the said bond and in the event of deficiency out of any other money due to me/us under this contact or otherwise.

Date _____

Signature of Contractor

WITNESS:

Postal Address:

ADDRESS:

Telephone No. :

TELEPHONE NO:

Fax:

OCCUPATION:

Email:

ACCEPTANCE

The above tender (as modified by you as provided in the letter mentioned here under) is accepted by me for and on behalf of the Director of DSCI for a sum of Rs. _____ (Rupees _____)

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

- i)
- ii)
- iii)

For or In Behalf of Director, DSCI

Date: _____



**Chief Engineer
DSCI, Delhi**

PROFORMA OF SCHEDULES

SCHEDULE 'A'

Schedule of Quantities (Attached – Page Nos. 53 & 54)

SCHEDULE '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

SCHEDULE 'C'

Tools and plants to be hired by the contractor

S. No.	Description	Hire charges per day	Place of issue.
1.	2.	3.	4
As per actual requirement			

SCHEDULE 'D'

Extra schedule for specific requirement / documents for the work, if any

SCHEDULE 'E'

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

CLAUSE 10 CC

Component of Cement –
expressed as percent of total value of work : 'Xc' _____%.

Component of Steel –
expressed as percent of total value of work : 'Xs' _____%.

Component of civil (except cement & steel) / Electrical
construction Material 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 : Construction of Delhi State Cancer Institute, Dilshad Garden, Delhi-110095

Sub Head : Design, Supply, Installation, Testing and Commissioning of Lifts at Service Block & Dharamshala in Delhi State Cancer Institute, Dilshad Garden, Delhi-110095

Estimated cost of work Rs. 41.53 lacs

i) Earnest Money: Rs. 83060/-

ii) Performance Guarantee: 5% of tendered value.

iii) Security Deposit: 5% of tendered value and same would be deducted @ 10% from each running bills till 5% of tender value achieved.

GENERAL RULES & DIRECTIONS

Officer inviting tender

Chief Engineer

Maximum percentage for quantity of items of works to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3

See below

Definition:

2 (v) Engineer-in-Charge

Chief Engineer/Representative

2 (vii) Accepting authority

Chief Engineer

2 (x) Percentage on cost of materials and labour to cover all overheads & profits.

15%

2 (xi) Standard Schedule of Rates

Market Rates

2 (xii) Department

DSCI, Delhi

9 (ii) Standard DSCI contract from

DSCI from 8 (2005) as modified & corrected up to date.

Clause : 1

i) Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance, in day

15days

ii) Maximum allowable extension beyond the period provided in (i) above in day

7 days

Clause : 2

Authority for fixing compensation under clause 2 Chief Engineer

Clause : 2A

Whether Clause 2A shall be applicable YES / NO

Clause : 5

Number of days from the date of issue of letter of acceptance for reckoning date of start 7 days

Miles ones(s) as per table given below:-

S. 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.			
2.			

S. No.	Financial Progress	Time Allowed in days (from date of start)	Amount to be with-held in case of non achievement of milestone
1.	1/8 TH (of whole work)	1/4 TH (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.	3/8 TH (of whole work)	1/2 (of whole work)	
3.	3/4 TH (of whole work)	3/4 TH (of whole work)	
4.	Full	Full	

Time allowed for execution of work Ninth Months

Authority to give fair and reasonable extension for completion of work. Chief Engineer

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.

Clause : 10CC

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

Clause : 11

Specification to be followed for execution of work CPWD Specifications

Clause : 12

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

12.5 Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for foundation work N. A.

Clause : 16

Competent Authority for deciding reduced rates Chief Engineer (E)

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	Words
1.	Graduate Engineer	Elect/ Mech.				Rs. 20000/- PM	Rs. Twenty Thousand only per monthly
2.							

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 _____ printed by C.P.W.D. N. A.
- 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. N. A.
- for works with estimated cost put to tender more than Rs. 5 Lakhs. 2% plus / minus. N. A.
- (b) Bitumen all works. 2.5% plus only & nil on minus side. N. A.
- (c) Steel Reinforcement and structural steel sections for each diameter, section and category 2% plus / minus. N. A.
- (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 Contractor	
		Excess beyond Permissible variation	Less use beyond the permissible variation
1.	Cement	<u>N. A.</u>	<u>N. A.</u>
2.	Steel reinforcement		
3.	Structural Section		
4.	Bitumen issued free		
5.	Bitumen issued at stipulated fixed price		

1. GENERAL CONDITIONS OF CONTRACT

- 1.1 **DEFINITIONS:** In the tender documents (as hereinafter defined) the following words and expressions shall have the meaning(s) hereby assigned to them except where the context otherwise requires.
- a) **DSCI:** DSCI means Director, DSCI, Delhi, who have invited the Tenders for the works described in the Notice Inviting Tenders.
 - b) Engineer-in-charge for Electrical items of works : Chief Engineer, DSCI
 - c) Accepting Authority : Chief Engineer, DSCI
 - d) Department : DSCI New Delhi.
 - e) Format of Contract : DSCI Form 8 (2005) as modified and amended up to date.
 - c) **CONTRACTOR:** 'THE CONTRACTOR' shall mean the individual or firm or company whether incorporated or not, undertaking the works and shall include legal representatives of such individual or person composing such firm or company, or the successors of such firm or company as the case may be and permitted assignee of such individual or firm or the company.
 - f) **CONTRACT OR CONTRACT AGREEMENT OR AGREEMENT:** Means the Agreement and all attached exhibits and documents referred to there in and all terms and conditions referred to there of.
 - g) **EFFECTIVE DATE OF CONTRACT:** Means 7th (Seventh) day from the date of award of work or the date specified in CONTRACT AGREEMENT or such later date as may be agreed to, in writing from time to time by DSCI.
 - h) **DATE OF COMPLETION:** Means the date specified in CONTRACT here to or such later date as may be agreed to in writing from time to time by DSCI.
 - i) **AWARD:** Shall mean the acceptance by the DSCI of the Tender submitted by CONTRACTOR and the grant there under of the work to be performed in accordance with the terms stated in the AWARD.
- 1.2 The CONTRACTOR, whose tender is accepted, shall carryout and complete all the works under this CONTRACT in accordance with the provisions of the contract agreement and the directions and to the entire satisfaction of DSCI. The DSCI shall issue from time to time the further drawings and/or written variations/instructions details/directions for the due and proper guidance of the CONTRACTOR, and the same shall be honoured and followed in the work. Incase, any damages are done by the contractor to the already existing works and / or the works being currently executed by other agencies at site, the same shall be rectified / repaired / replaced as per original specifications / materials etc. at his own cost.
- 1.3 The CONTRACTOR'S rate shall provide for all materials, labour T&P machinery P.O.L. required for the execution of all items of works. The contractor's rate shall also include the costs for pumping out or bailing out water from any sources such as rains, floods etc. removal of slush, debris, malba and disposal of dismantled C.C. / R.C.C. outside site premises. The rates shall also include the costs of all taxes, duties, Service Tax, Toll Tax, Excise Duty, VAT / Sales Tax, CST, Works Contract Tax or Sales tax on works contract, royalties etc. at prevailing rates. Any variation in the rates or fresh levy shall be to DSCI account and shall be payable extra as applicable. The CONTRACTOR shall arrange for necessary Duties / Tax forms as applicable under prevailing / future rules & regulations for entry of his materials, plants and equipments etc. into Delhi, at his own cost. The DSCI shall not entertain any claims on such accounts.

- 1.4 The CONTRACTOR shall set out all the works and shall be responsible for the true and perfect setting out/positions, levels dimensions etc. as shown in Drawings. Any error or mistake ever noticed during the progress of work, shall be rectified by the CONTRACTOR at his own cost.
- 1.5 All materials to be used in the work shall be as per the specifications applicable and shall be got approved from the ENGINEER-IN-CHARGE before incorporating them / their Procurement at site. Unsound materials / works shall be removed or dismantled at his own cost and replaced free of cost. All the tests of materials / water etc. shall be done at CONTRACTOR'S cost in Approved Laboratories, to be indicated by DSCI.
- 1.6 ENGINEER-IN-CHARGE shall have free access to all works at all times. All measurements and quantities of work done shall be verified by "ENGINEER-IN-CHARGE" jointly with CONTRACTOR'S Representative.
- 1.7 The CONTRACTOR shall be responsible to provide all Technical & Personal Supervision duly supported by his skilled / unskilled workers, T&P Machinery etc. for the proper execution of works. A qualified Engineer at least with Diploma in Mechanical Engg. with minimum 8-10 years experience shall be available for supervising the works on all working days, from the CONTRACTOR'S side.
- 1.8 The ENGINEER-IN-CHARGE have the rights to ask for removal or replacement of any unsuitable incompetent or misconducting person / worker of the CONTRACTOR.
- 1.9 The CONTRACTOR shall not assign or sublet this work to any other agency directly or indirectly without the approval of the DSCI.
- 1.10 The CONTRACTOR shall execute the work or deploy labour in compliance to all local rules and regulations enforced by various government / administrative authorities. The CONTRACTOR shall obtain 'CONTRACTOR'S all risk policy' for an amount equivalent to contract value plus ten (10%) percent for indemnifying the DSCI against any claims / damages on account of fire, theft, loss of property within site limits, third party claims, payable @ Rs. one Lac (Rupees One Lac Only) per event / accident / person, subject to a minimum of Rs.20000/-(Rs. Twenty Thousands) apart from the provisions under labour and workmen compensation acts at his own cost. The said insurance policy shall be in the name of DSCI and shall be deposited with the DSCI. The policy shall be valid and in force till the end of defect liability period.
- 1.11 In case the CONTRACTOR fails to complete the works in time or fails to proceed with the stipulated progress of the work, the DSCI shall serve a written show-cause notice to the CONTRACTOR giving him 10 days time to explain the reasons for such failure / delay. If the explanations of the CONTRACTOR are not found satisfactory and the work suffers, the DSCI shall be at liberty to terminate this contract and to settle the payment of the CONTRACTOR and shall be free to get balance work completed from any other agency through direct / indirect labour and material deployment themselves. The CONTRACTOR shall not cause any hindrance for such completion by any other party on behalf of the DSCI.
- 1.12 The CONTRACTOR shall be allowed 9 Months from the date of commencement of work, which shall be reckoned from the date of letter of award of work. For any delays solely attributable to the contractor, the liquidated damages limited to **maximum 10%** of the contract value @ **1%** per week shall be levied. The time allowed for execution of this WORK shall be the essence of the CONTRACT, IF CONTRACTOR delays in commencing or in execution of WORK as aforesaid, DSCI without prejudice to any other right to remedy, shall be at liberty to forfeit the Earnest Money. If WORK is delayed apart from Force Major conditions by any other condition which in the absolute discretion of DSCI is beyond the control of CONTRACTOR then upon happening of any such event involving delay, CONTRACTOR shall immediately give notice thereof in writing to DSCI, but shall nevertheless use constantly his best endeavor's to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of DSCI to proceed with WORK. Request for extension of time to be

eligible for consideration shall be made by CONTRACTOR in writing within 14 (Fourteen) days of the happening of the event causing delay along with explaining the reason for delay and extension. CONTRACTOR shall also, if applicable, indicate in such a request the period for which extension is desired. DSCI may give a fair and reasonable extension of time for completion of WORK.

- 1.13 Any disputes arising out of this contract shall be referred to the Director whose decisions shall be final, binding and conclusive.
- 1.14 The CONTRACTOR shall comply to all safety rules, Indian / State Electricity Authority Rules, labour rules, workmen compensation act, minimum wages act, building bye laws, rules and regulations of local authorities or state / central government as applicable to the works. The CONTRACTOR shall bear all the Taxes, royalty, octroi as applicable for such works.
- 1.15 The quantities given in the Bill of Quantities are tentative for estimation purposes and can vary to any extent and the CONTRACTOR shall not be eligible for any claims/ revision of Rates.
- 1.16 The CONTRACTOR shall submit RA Bills / Final Bill in triplicate based on joint measurements taken by the ENGINEER-IN-CHARGE and as per the schedule of payment or rates approved. Part rates may be allowed for incomplete jobs as per the direction of the DSCI. The DSCI shall pass and certify the Bills on the basis of measurements within the reasonable time for its payment. The necessary security deposit and T.D.S. or any other recoveries in Terms of the contract etc. shall be deducted by the DSCI from such payments. The DSCI shall have power to hold / revise any certificate if the works are not carried to their satisfaction.
- 1.17 The CONTRACTOR shall obtain virtual completion certificate from the ENGINEER-IN-CHARGE as soon as the works are completed as per the CONTRACT and to the entire satisfaction of the ENGINEER-IN-CHARGE.
 - a) Defects Liability Period shall be Twelve (12) calendar months after completion of the works as certified. Any defects in material or workmanship observed in the entire work during execution or work or within defect liability period shall be notified in writing by the DSCI to the CONTRACTOR and shall be replaced and / or rectified by him at his own cost within time as specified by DSCI.

This period shall constitute warranty period.
 - b) To facilitate prompt attention to the defects the CONTRACTOR shall employ a team of tradesmen like Electricians, Fitters and Labours covering all trades along with necessary materials and spares. A supervisor will also be available along with the maintenance team to take instructions from DSCI. The maintenance team will be available through out the defects liability period. The composition of the tradesmen will vary according to the nature of recurring defects noticed in the Lifts.
 - c) Incase of default the DSCI may employ any other person to rectify or make good such defects. All expense consequent there on or incidental thereto shall be borne by the CONTRACTOR and shall be recoverable from him by the DSCI and shall be deducted from R/A bills.
 - d) If any defective works have been done or material supplied by any sub CONTRACTOR employed, the CONTRACTOR shall be liable to make good in the same manner as if such work or material has been done or supplied by the CONTRACTOR. The CONTRACTOR shall remain liable under the provisions of this clause notwithstanding the signing by the ENGINEER-IN-CHARGE of any certificate or passing any account.

- e) The DSCI shall also certify at the end of the defects liability period regarding the state of rectification pointed out and attended to by the CONTRACTOR during defect liability period & it's successful completion; the DSCI shall issue orders for release of the security deposit.

The release of security deposit shall be as per clause 2.3 and to be reckoned from the date of virtual completion.

- 1.18 The CONTRACTOR has to keep the site neat and clean. The malba / debris arising out of this job/ work is to be cleaned periodically as directed by the ENGINEER-IN-CHARGE. At the time of handing over, The CONTRACTOR has to clean the site of all malba / debris, labour huts, stores, temporary structures. The DSCI is at liberty to clean the site and debit the cost to CONTRACTOR'S bill if the CONTRACTOR does not follow the instructions in this regard.

- 1.19 The CONTRACTOR shall plan & execute the works under this contract, in coordination with the Civil Work CONTRACTOR(s) already working at site and as per the directions of the ENGINEER-IN-CHARGE. The CONTRACTOR shall give every reasonable facility to other CONTRACTORS and other special trade's men who may be working on site for the DSCI.

- 1.20 The Site office, Storage shall be established by the CONTRACTOR at a place assigned by ENGINEER-IN-CHARGE within premises. Contractor shall construct the stores at his own cost and he shall be responsible for watch and ward of his materials / installation etc.

- 1.21 The total project management including, Billing, programmed/ planning and scheduling etc. shall be computerized.

- 1.22 No child labour shall be allowed at site.

1.23 FIRE OFFICERS APPROVALS:

It shall be the responsibility of the CONTRACTOR to obtain all approvals and to meet all mandatory requirements of Delhi Fire Services and any other authority concerning operation of lifts, provision of firemen's switch, indicative marking etc.

1.24 LICENCE:

Inspection fee for the inspection of the Lift by the Lift Inspector shall be payable by the CONTRACTOR. The CONTRACTOR shall provide all necessary arrangements for inspection of the Lift by the Lift Inspector. All necessary assistance and follow up for obtaining license will be responsibility of the CONTRACTOR.

1.25 APPROVALS:

Statutory approvals wherever required such as approval and NOC from Delhi Fire Service and approval from Lift Inspector etc. shall be obtained by CONTRACTOR. CONTRACTOR will pay any licensing fee or submission fee payable to statutory authorities for obtaining above approvals etc.

1.26 APPENDIX HEREINBEFORE REFERRED TO SPECIFICATION:

- 1.26.1 Supply and fixing of steel work like machine supports, bearing plates, buffer supports and separator girders. Facia Plates, Nuts / Bolts, Rag Bolts, Angles, T'S & any other structural steel required for installation and running of lift including supply and fixing of MS angles at site level at each floor level including MS ladder in lift-pit to be included in the offer.

- 1.26.2 Minor Building work - To be included in the offer.
- 1.26.3 Scaffolding - To be included in the offer.
- 1.26.4 Over-Head Beams - To be excluded from the offer. (Lifting hook shall be provided by DSCI)
- 1.26.5 Site Test - As per IS: 4666: 1968 Clause 24.3
- 1.26.6 Free Maintenance - 1 (One) Years by CONTRACTOR.

NOTE: CONTRACTOR MUST ENSURE FIXING OF STEEL WORK IN SUCH A MANNER SO THAT NO RCC WALL OR OTHER STRUCTURE MEMBERS ARE DAMAGED.

- 1.26.7 Warranty - 12 months from the date of handing over on pro-rata basis
- 1.26.8 Insurance of Materials - Cost to be included.
- 1.26.9 Completion Time - 9 Months.
- 1.26.10 Validity of Tender - 90 Days.
- 1.26.11 Taxes (Sales Tax, VAT, Excise, Octroi etc.) - All inclusive F.O.R. destination.
- 1.26.12 Terms of Payment - As per Tender / Agreement Terms & Conditions.
- 1.26.13 Safety - As per Tender stipulations.
- 1.26.14 Type of Buffers - Spring / Hydraulic Buffers.

ONE YEAR'S FREE MAINTENANCE & OPERATION IN 3 SHIFTS

The scope includes Twelve (12) months free maintenance & Operation in 3 shifts. The Period of this free maintenance & operation will be deemed to commence on the date the installation is completed and acceptance granted by DSCI as commissioned. The date of Commencement of this service will remain unchanged irrespective of any delay in Building completion, availability of permanent supply, inspection, taking over or commencing use of the Lift.

Maintenance will consist of monthly examinations and any necessary adjustment and lubrication of the equipment by competent employees under CONTRACTOR'S direction and supervision. The required supplies and parts will be furnished except such parts as may be needed because of negligence, misuse, or accidents not caused by CONTRACTOR. All work(s) will be performed during CONTRACTOR'S regular working hours of his regular working days.

2. COMMERCIAL TERMS & CONDITIONS

- 2.1 The prices shall remain firm for the contractual period. However, in case the project is delayed beyond the above period due to reasons not attributable to the contractor IEEMA price variation shall be applicable.
- 2.2 **MOBILISATION ADVANCE** – No Mobilisation Advance is Payable
- 2.3 **RETENTION MONEY/SECURITY DEPOSIT** – Retention Money / Security Deposit at the rate of 5% of the value of the work done shall be deducted from RA Bills. The Earnest Money Deposit shall be accounted for in the Security Deposit. The Security

Deposit amount shall be released on successful completion of one year of the Defect Liability Period. (Total defect liability period 1 year).

2.4 EXTRA ITEMS/ADDITIONAL WORK - The rates for any extra items/additional works under this contract agreement shall be fixed as under:

- a) In case similar item exists in the Bill of Quantities, then the same rates shall be adopted and paid.
- b) If no such similar item exists, then the rate shall be based as per the actual cost of materials (excluding cost of materials being supplied by DSCI to be incorporated into works) and reasonable lab our and including applicable Taxes plus 15% contractors profits and overheads. The CONTRACTOR shall submit the original challans / vouchers / Bills for all such materials considered in the Analysis of rates for their proper scrutiny by DSCI.

2.5 WATER & ELECTRICITY:-

Only Water shall be supplied free of cost by the DSCI at one point only. Any further distribution shall be arranged by the CONTRACTOR at his own cost. The CONTRACTOR shall arrange his own supplies of Electricity; required for the execution of the works under this contract; at his own cost; and shall make adequate / suitable arrangements of dieselized equipment & diesel generating set at his own cost to keep up the Schedule of completion. Nothing extra shall be payable on this account, and such causes, shall not be accounted for delays in completion of works.

However, three phase power supply shall be provided by DSCI free of cost whenever required at the time of testing and commissioning.

2.7 TRAINING OF DSCI'S PERSONNEL

- a) The Contractor shall train the DSCI's Personnel to become proficient in operating the equipment installed. Training shall be done before the expiry of the defects liability period.
- b) The period of training shall be adequate and mutually agreed upon by the DSCI and Contractor.
- c) The DSCI's Personnel shall also be trained for routine maintenance work and lubrication, Overhauling, adjustments, testing, minor repairs and replacement.
- d) Nothing extra shall be paid to the Contractor for training the DSCI's personnel.

2.8 TENDER DRAWINGS

For guidance of the Tenderer, Sketches are enclosed with these tender documents. These drawings are broadly indicative of the work to be carried out. These drawings are not "Construction drawings" and details indicated there in are for guidance only and are liable to be modified by the ENGINEER-IN-CHARGE during actual construction. No claim whatsoever shall be admissible on account of changes that may be introduced by the ENGINEER-IN-CHARGE / DSCI.

3. RULES FOR SAFETY & LABOUR WELFARE

The CONTRACTOR shall comply with the safety and Labor Welfare Rules, as given hereunder and as per the Rules framed by State/Central Govt. from time to time :-

3.1. First Aid Post:-

The CONTRACTOR shall provide and maintain in a readily accessible place First Aid appliances including adequate supply of sterilized dressings, gauge, cotton wool and requisite medicines, as prescribed in the Factory Rules of the place in which work is carried on. In case of a large work place the First Aid Post shall be run by a trained compounder. In case of accident, the CONTRACTOR shall provide suitable transport to facilitate removal of urgent cases to Hospitals etc.

3.2. Safety Equipment:-

All necessary personal safety equipment such as Helmets, Protective footwear, protective goggles/eye shields, Life Jacket, Gas masks etc. As considered adequate by the ENGINEER-IN-CHARGE shall be available for use of persons employed on the Site and maintained in a condition suitable for immediate use; and the CONTRACTOR shall take adequate steps to ensure proper use of equipment by those concerned.

- a. Workers employed on mixing asphaltic materials, cement and lime mortars/concrete shall be provided with protective footwear and protective goggles.
- b. Those engaged in handling any material which is injurious to eyes shall be provided with protective goggles.
- c. Those engaged in welding works shall be provided with welder's protective eye-shields.
- d. Stone-breakers shall be provided with protective goggles and protective clothing and seated at sufficiency safe intervals.
- e. When workers are employed in sewers and manholes, which are in use, the CONTRACTOR shall ensure that manhole covers are opened and manholes are ventilated at least for an hour before workers are allowed to get into them. Manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to public.
- f. The CONTRACTOR shall not employ men below the age of 18 and women on the work of painting with products containing lead in any form. Whenever men above the age of 18 are employed on the work of lead painting, the following precautions shall be taken:-
 - i. No paint containing lead or lead products shall be used except in the form of paste or readymade paint.
 - ii. Suitable face-masks shall be supplied for use by workers when paint is applied in the form of spray or a surface having lead paint dry rubbed and scrapped.
 - iii. Overalls shall be supplied by the CONTRACTOR to workmen and adequate facilities shall be provided to enable working painters to wash during and on cessation of work.

3.3. Safety precautions:-

Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The CONTRACTOR shall provide all necessary fencing and lights to protect public from accidents and shall be bound to bear expenses of defence of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damage and costs which may be

awarded in any such suit, action or proceedings to any such person or which may with the consent of the Contractor be paid to compromise any claim by any such person.

3.3.1 Electricity Driven Portable Tools

Permission is to be obtained from the nominated person before any contractor or subcontractor's electrical hand tools can be connected to the electricity supply.

Connection must be by 3 core cable and 3 pin plugs and sockets, except when tools are double insulated on a 2 wire supply. Where the supply is 3 phase, 4 core cable and 4 pin plugs and sockets with earth connections must be used.

Makeshift connections are prohibited.

The use of extensions cables is discouraged, but sometimes necessary.

Portable electric lamps must be the 'gripper' type with caged wire protection for the bulk and precautions as laid down under section 36-37 of the Factories act, 1948 must be observed.

In damp conditions and confined space conditions, voltage must not exceed 25V, supplied from a double wound transformer.

In all cases, with the exception of double insulated tools, the metal work of the tools part be effectively earthed, also any flexible metallic cable coverings must be earthed.

Temporary supply shall be tapped from a source panel, which is properly fabricated and permanently fixed and effectively earthed.

Each tapping shall have a ELCB of 100mA rating and shall be taken through a armored sheathed multi-core cable or for distance up to 10 Mtr. through un-armored multi-core sheathed cable with in built earth wire or earth wires clamped to the cable. All 3 phases' connections shall have double earth wires.

3.4. Scaffoldings:-

Suitable Steel scaffolds shall be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short period work as can be done safely from ladders. When a ladder is used an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well, suitable footholds and hand-holes shall be provided on the ladder and the ladders shall be given an inclination not steeper than 1/4 to 1(1/4 horizontal and 1 vertical).

3.5. Guard Rails:-

Scaffolding or staging more than 3.25 meters above the ground or floor, swung or suspended from an overhead support or erected with stationery support, shall have a guard rail properly attached, bolted, braced and otherwise secured at least 1 meter high above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends thereof with only such openings as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.

3.6. Rigid Design:-

Working platform, gangways, and stairways shall be so constructed that they do not sag unduly or unequally, and if height of a platform or gangway or stairways is more than 3.25 meters above ground level or floor level, it shall be closely boarded, have adequate width and be suitably forced, as described in sub-para 3.5 above.

3.7. Openings Guarded: -

Every opening in floor of a building or in a working platform shall be provided with suitable means to prevent fall of persons or materials by providing suitable fencing or railing with a minimum height of 1 meter.

3.8. Hoisting Machines:-

Use of hoisting machines and tackle including their attachments, anchorage and supports shall conform to the following:-

- a.
 - i) These shall be of good mechanical construction, sound material and adequate, strength and free from patent defects and shall be kept in good repair and in good working order.
 - ii) Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength, and free from patent defects.
- b. Every crane driver of hoisting appliance/operator shall be properly qualified and no person under the age of 21 years shall be incharge of any hoisting machine including any scaffold winch or to give signals to the operator.
- c. In case of every hoisting and of every chain ring hook, shackle swivel and pulley block used in hoisting or lowering or as means of suspension, safe working load shall be ascertained by adequate means. Every Hoisting machine and all gear referred to above shall be plainly marked with safe working load. In case of a hoisting machine having a variable safe working load, each safe working load and the conditions under which it is applicable shall be clearly indicated. No part of any machine or of any gear referred to above in this paragraph shall be loaded beyond safe working load except for the purpose of testing.
- d. In case of usage of an DSCI supplied machine, safe working load shall be notified by the ENGINEER-IN-CHARGE. As regards CONTRACTOR'S machines the CONTRACTOR shall notify safe working load of each machine to the ENGINEER-IN-CHARGE whenever he brings it to Site of work and get it verified by the ENGINEER-IN-CHARGE.

3.9. Safe-Guards for Moving & Dangerous Parts:-

Motors gearing, transmission, electric wiring and other dangerous parts of hoisting appliance shall be provided with efficient safe guards; hoisting appliance shall be provided with such means as will reduce to the minimum risk of accidental descend of load. Adequate precautions shall be taken to reduce to the minimum risk of any part of a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energized, insulating mats, working apparel such as gloves, sleeves and boot, as may be necessary, shall be provided. Workers shall not wear any rings, watches and carry keys or other materials which are good conductors of electricity.

NOTE:

All scaffolds, ladders First aid Equipments/Machines and other safety devices mentioned or described herein shall be maintained in a safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities shall be provided at or near places of work. Necessary warning sign boards in Red/White paint, with proper lighting arrangements for nights are to be provided at prominent locations. The arrangements for providing and maintaining all such safety and labour welfare rules etc., shall be done at CONTRACTOR'S own cost and expenses.

SPECIFICATIONS

A. GENERAL SPECIFICATIONS

1. The Lift Installation works shall be carried out in accordance with following standards IS: 1860:- Code of practice for Installation, Operation and Maintenance of Electrical Passenger and Good Lifts. IS: 3534:- Outline dimensions of Electric Lifts. IS: 4666:- Specification for Electric Passenger and Good Lifts. BS: CP 407-1978 Safety code for elevators dumbwaiters, escalators and moving walks. American National Standards Institution. Lift Installation work shall be in conformity with National Electrical Code with up to date amendments. All Electrical work shall be carried out in accordance with the provision of Indian Electricity Act 1910 & Indian Electricity Rules 1956 amended up to date. The work shall also conform to Indian Standard Code of Practice for the type of work involved. It shall also be in conformity with regulations and requirements of the Local Electricity Supply Authority and Fire Insurance regulations so far as these becomes applicable to the installation.

Wherever this Tender Specifications call for a higher standard of material and or workmanship than those required by any of the above mentioned regulations and specifications then the particular specifications given here under shall take precedence over the said regulations and standards.

2. The work shall be executed and measured as per the dimensions given in the Bill of Quantities. Drawings, Designs, Specifications etc. The abbreviations used shall mean as under :-

//	-	Inch (25.4mm)
/	-	Foot (12 inches or 30.48cms)
Sq. Ft.	-	Square Feet
Sq. Mt (M ²)	-	Square Metre.
Cu. Ft.	-	Cubic Feet.
Cum (M ³)	-	Cubic Metre.
Kg.	-	Kilograms (Equivalent to 1000 gms)
T.(M.T.)	-	Tonne (Equivalent to 1000 Kgs.)
No.	-	Numbers.
Cm.	-	Centimetre.
M or R.M.	-	Metre or Running Metre.

3. CONTRACTOR'S DRAWINGS :-

- a) **Drawings provided to the CONTRACTOR :-** The CONTRACTOR will receive from the ENGINEER-IN-CHARGE the documents and drawings listed together with any further drawings issued under conditions of contract and other relevant documents.
- b) **Shop Drawings :-** The Contractor shall prepare and furnish Shop Drawings in quadruplicate at no extra cost for the approval by the **ENGINEER-IN-CHARGE** before commencing fabrication/manufacture of the equipment. Such shop drawings shall be based on the requirements laid down in the specifications

and as per site conditions. The manufacture of equipment shall be commenced only after the shop drawings are approved in writing by the **ENGINEER-IN-CHARGE**. The Contractor shall submit shop drawings for Hoist way details of Hoist way beam, Electrical power points and cable size etc. i.e. all the works not in their scope but to be carried out by others.

- c) **Builder's Work Drawings:** - The CONTRACTOR shall provide drawings showing the exact dimensions and locations of all holes, ducts, recesses, access points, etc. These drawings shall also specify all necessary Builders' Work in connection with movement precaution, sound and thermal protection etc.
- d) **As Built Drawings and Working and Maintenance Instruction Manuals:-** The CONTRACTOR shall provide to the ENGINEER-IN-CHARGE prior to the time of completion of the works as defined in the Conditions of Contract. As Built Drawings and Working and Maintenance Instruction Manuals for all elements within the scope of work. Immediately on completion of any relevant works the CONTRACTOR shall prepare two sets of "As Built" drawings of such works for their approval by ENGINEER-IN-CHARGE. These drawings shall be a complete record of the works showing the positions and dimensions of all elements executed within the CONTRACTOR'S scope of work.

The CONTRACTOR shall provide the ENGINEER-IN-CHARGE for approval two bound sets of Working and Maintenance Instruction Manual for all services, installations and equipment installed. The Working Maintenance Instruction Manuals and preventive maintenance schedule shall contain all manufacturers' operating and maintenance instructions, and detailed drawings of all equipment supplied. The detailed drawings do not require to be specially prepared, and can comprise copies of the Manufacturer's shop drawings with suitable titles and reference numbers added. The exact scope details of the Operating Instructions shall be agreed with the ENGINEER-IN-CHARGE.

After approval by the ENGINEER-IN-CHARGE the CONTRACTOR shall forward to the four copies of the approved "AS BUILT DRAWINGS" & Working and Maintenance Instructions Manuals and four prints and one reproduceable copy of each drawing. Drawings files on computer disk shall also be forward.

- (e) **Approval of Drawings:-**
- i) All drawings prepared by the CONTRACTOR shall be submitted to the DSCI within ten days from actual date of award of letter in phased manner agreed and approved by DSCI and this will be the only accepted and contractual method. The DSCI shall check and approve these drawings in a reasonable time and issue them to the CONTRACTOR as "Approved for Construction". Such approval shall not relieve the CONTRACTOR of responsibility for any discrepancies, errors or omissions in their submittals.
- ii) If the DSCI instruct the re-drawing, alteration or amending of any of the submitted drawings which, in his sole opinion, do not properly interpret the intent of the Contract or for any reason do not comply with good Engineering practice, then the CONTRACTOR shall ensure the carrying out of the DSCI's instructions and no claim for extra payment shall be allowed for any reason in this respect.
- iii) Should the DSCI instruct the alteration or amending of any drawing prepared by Contractor/Manufacturer, then the CONTRACTOR shall ensure that this is done immediately in order to avoid any delay to the construction programme

and no claim for extra payment or extension of time for completion of the works shall be allowed for any reasons in this respect.

- iv) The CONTRACTOR shall prepare a detailed programme for the production of the drawings / supply of materials/ deployment of skilled and unskilled worker month wise and information required immediately upon receipt of the DSCI order to commence the works. The programme, which will be subject to the scrutiny of the DSCI who may alter or amend it as he sees fit, shall be compatible with the programme for the construction works. The programme shall show the following in details:-
- a) Dates on which the CONTRACTOR shall commence the drawings/ materials/ deployment of skilled and unskilled worker.
 - b) Dates on which the CONTRACTOR shall submit the drawings / materials/ deployment of skilled and unskilled worker to the DSCI.
 - c) Reasonable period for the DSCI to check and approve the submitted schedule of drawings / materials/ deployment of skilled and unskilled worker.
 - d) Date of commencement of the relevant as appropriate in their proper sequence.
 - e) All trades and / or elements as appropriate in their proper sequence.
 - f) Key approval dates for long delivery items.
 - g) Any other information the DSCI may request.

No related manufacturer or installation shall be taken-up in hand until & unless co-ordination drawings, together with any explanatory literature, are approved in writing by the DSCI.

The detailed programme shall reflect the requirements for production of information to permit timely co-ordination with all trades and other agencies working at site.

NOTE: - The CONTRACTOR'S failure to comply with the provisions of this clause shall be deemed to constitute a default of his obligations under the contract.

- v) All drawings shall be produced using AUTOCAD and a disk file copy shall be submitted in addition to any prints specified at each stage of approval. Drawings by the CONTRACTOR shall be prepared in a clear and proper manner, with adequate size so that the drawings will be easily legible even when reproduced on a reduced scale. The drawing shall be drawn in black ink on a white background to facilitate printing bearing at the bottom right corner the approval, Contract reference, Scale; title block and number etc.
- vi) All drawings by the CONTRACTOR shall be orientated to match the design drawings and shall have a key plan identifying the location or area of the works to which they apply. They shall also bear indication and make reference to the geographical co-ordinates of the site.
- vii) When a drawing is revised, the particulars of the current revision shall be clearly marked or circled, to facilitate checking. All prior revision numbers and reference of drawings possibly superseded by current issue shall also be clearly shown.

- viii) When drawings are submitted for approval without complying with these requirements, they may be rejected.
- ix) The CONTRACTOR shall submit to the DSCI a disk copy and two prints of each drawing or document. If the drawing or document is approved, one print will be returned to the CONTRACTOR bearing the "Approved for Construction" Mark which may also bear the provision "subject to". The CONTRACTOR shall then submit further disk copy, four prints and one reproducible copy of the approved drawing or document to the DSCI. If the drawing is not approved, one copy will be returned to the CONTRACTOR, bearing the "Not Approved" mark for resubmission.
- x) Re-submission of drawings not approved shall be made using the same procedures as in the original submission.
- xi) The CONTRACTOR shall ensure that drawings etc. submitted for approval are forwarded in sufficient time to allow the DSCI a reasonable time to examine them and to meet the approved drawing production programme.
- xii) The CONTRACTOR shall ensure that drawings are submitted at regular intervals, on an even flow basis, with sufficient and reasonable time prior to the date required for approval to permit amendments to be made.
- xiii) If during the course of construction, revisions to approved details are required, the CONTRACTOR shall amend all Drawings affected and resubmit for approval, following the procedure described above, ensuring that the working drawings are at all times an accurate reflection of work on site.

Note: The provision of the above Working Maintenance Instruction Manuals shall form part of the Contract obligations, which shall not be deemed to be complete in respect of virtual handing over to the DSCI's representative until they are received and approved by the Chief Engineer (E) DSCI.

- 4. The works shall be carried out in accordance with the with Lift Work, Architectural Drawings and Structural Drawings, to be issued by DSCI / ENGINEER-IN-CHARGE as "GOOD FOR CONSTRUCTION". The Lift Works Drawings, Structural Drawings and Architectural Drawings shall have to be properly Co-related before executing the works.

5. QUALITY OF MATERIALS & GENERAL STANDARDS OF WORK:-

The CONTRACTOR under this contract commits himself to use first class materials and assumes full responsibility for the quality of all materials incorporated or brought for incorporation in the work. The work shall be executed in accordance with the best Engineering practice and as per directions of ENGINEER-IN-CHARGE.

6. BAR CHART FOR EXECUTION OF WORK :-

The Contractor shall submit within one week of the acceptance of the tender, a BAR Chart to DSCI, which shall indicate the planning for the execution of the entire work under the contract within the stipulated time given for completion. This shall be scrutinized by the DSCI. The mutually agreed BAR-CHART shall be binding on the Contractor for progress of the work & for completion by the due date.

The Contractor shall during the entire tenure of site work, provide accurate monthly reviews of BAR-CHART showing work targets & completed works for discussions with the DSCI.

Contractor's shall maintain a register of daily deployment of Skilled/Unskilled Labour etc. on various activities and get it signed from ENGINEER-IN-CHARGE on daily basis and shall produce before the DSCI as and when asked for.

7. SITE MEETING

Contractor should attend regularly the site meetings as and when required presently being conducted on weekly basis. The meeting shall be attended by an authorised person of not less than General Manager's rank. Absence without prior permission shall invite a penalty of Rs. 5000/- for each such absence.

8. CIVIL WORKS TO BE DONE BY LIFTS CONTRACTOR

Contractor shall provide /carry out the following at his own cost.

- a. The quoted rates shall be inclusive of all the works in hoist way pertaining to installation of elevators including providing required scaffolding except lighting of hoist way.
- b. Steel items such as machine beams, bearing plates and buffer support channels, or any steel required for erection and commissioning etc. cutting holes, grouting with cement concrete and finishing smooth etc.
- c. A suitable vertical iron ladder for access to the pit.

9. WORK NOT INCLUDED IN LIFTS CONTRACT

Works not included in Lift contract but to be furnished by the DSCI in accordance with Local Codes and Regulations and the approved drawings of the Lift Contractors :

- a. A legal hoist way, properly framed and enclosed, including a pit of proper depth with drains and water proofing, if required. The hoist way and pit walls will be treated and white washed to minimize accumulation and circulation of dust.
- b. A hoisting hook in the machine room, to hoist equipment during installation and to facilitate maintenance in the future.
- c. A properly lighted and ventilated fire resistant machine room, including floors, access door, ladders and guards as required with walls, floor and ceiling treated and painted to minimize accumulation and circulation of dust.
- d. Pouring and finishing of machine room floor after elevator machine and relevant equipment have been set in place by elevator contractor.
- e. Painting, except of elevator materials. The hoist way and pit walls will be treated and painted to minimize accumulation and circulation of dust.
- f. Electric feed wires to the terminals of the elevator control panel including necessary main line switches, circuit breakers or lights in the middle of the hoist way and light with switch in the pit and through out the hoist way as required and outlet and switches in the machine room for the elevator signal equipment. However, the cables from the Lift Room Panel to the Lift Control Panel of contractor shall be to the account of contractor.

10. OBTAINING CLEARANCES/CERTIFICATES FROM AUTHORITIES

- 10.1 The Contractor shall arrange, stage wise as may be required, for submitting all the required documents and drawings, for execution and installation of the Lifts, their inspection and obtaining approval/ completion certificates with respect to his works, required for use and connection of the utilities and occupation of the building from the concerned statutory Authorities. The Contractor shall obtain and deliver to the

ENGINEER-IN-CHARGE, on completion of the works, the final inspection and approval from the concerned Authorities including certificate for operation.

- 10.2 The contractor shall warrant that all actions taken by him in the execution of the contract shall conform with all applicable Local City, State and Central Government laws, Ordinances and Regulations. The Contractor shall defend and keep ENGINEER-IN-CHARGE /DSCI harmless from loss, cost or damage by reason of any actual or alleged violation of any statutory requirements.

11. FEES/CHARGES/DEPOSITS TO BE PAID TO AUTHORITIES

The fees/charges/deposits to be paid to authorities towards scrutiny, inspection, connection charges and security deposit shall be paid by the Contractor and reimbursed by the ENGINEER-IN-CHARGE on submission of documentary evidence by the Contractor.

12. PROJECT EXECUTION AND MANAGEMENT

The Contractor shall ensure that senior planning and erection personnel from his organisation are assigned exclusively for this project. They shall have minimum 10 years experience in this type of installation. The Contractor shall appoint one erection engineer and one senior supervisor posted at site on full time basis.

For quality control and monitoring of workmanship, contractor shall assign at least one full time engineer who would be exclusively responsible for ensuring strict quality control, adherence to specifications and ensuring top class workmanship for the installation.

The contractor shall arrange to have mechanized and modern facilities of transporting material to place of installation for speedy execution of work.

13. GUARANTEE AND MAINTENANCE

13.1 Guarantee

The elevator contractor shall guarantee all equipment parts, materials and workmanship furnished for the installation. The elevator contractor warrants for a period of 12 months from the date of acceptance to replace all failed part or parts exhibiting unusual wear and tear during guarantee period and shall be replaced without any cost to the DSCI, such replacement shall be factory approved new, equal or better than original. All labour, tools, materials, transportation, insurance, etc. required in performance of guarantee shall be at the elevator contractor's expense.

13.2 Maintenance

The elevator contractor shall maintain the elevator system in a first class and safe manner during guarantee period. Such maintenance shall be for the entire elevator system except when failure occurs due to work performed by others. Responsibility entails daily inspection by the supervisor / technician and unlimited call back service including nights, weekends and holidays.

Apart from the above this maintenance shall include 1 visit by Engineer per month the first 9 months from the date of acceptance of the elevator system. Call back service shall be provided for emergencies, and responded within 2 Hrs.

Engineer's Visits for the next Ninth months shall be not less than 1 per fortnight with visit timings adjusted so as not to coincide with the busiest usage period. Call back service shall be responded with in 2 Hours and service involving more than one stalled or erratic elevator shall be immediately provided regardless of the time of day or night. Emergency call back service for trapped passengers shall be responded to within 10

minutes. There shall be no compensation for call back service regardless of the hour/ day, etc.

The elevator contractor shall maintain the elevator system in a professional, first class manner and keep and maintain elevator machine room and equipment in a neat workman like order.

The contractor shall anticipate demand on supplies and parts and keep an inventory of a reasonable number of spare parts, at his own cost, on site in a self provided lockable metal cabinet.

14. PAINTING

All exposed metal work furnished under these specifications, unless otherwise specified, shall be shop primed and properly painted. Shop coats of paint that have become marred during shipment or erection, shall be cleaned off with mineral sprits, wire brushed and spot painted over the affected areas, then coated with enamel paint to match the finish over the adjoining shop painted surface.

15. IMPORT LICENSE

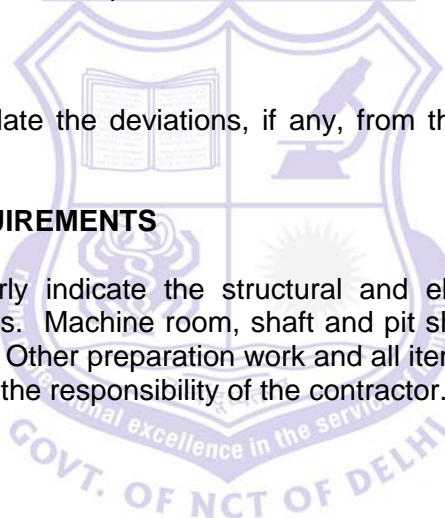
Should any import license be required for import of any component, the contractor shall make his own arrangement for the same. The DSCI's shall not undertake any responsibility for import of components.

16. DEVIATIONS

Contractor shall stipulate the deviations, if any, from these Technical Specifications, and reason thereof.

17. STRUCTURAL REQUIREMENTS

Contractor shall clearly indicate the structural and electrical requirements for the installation of elevators. Machine room, shaft and pit shall be provided by the DSCIs through other agency. Other preparation work and all items of supply and installation in the hoist way shall be the responsibility of the contractor.



B. PARTICULAR SPECIFICATIONS

I. PASSENGER LIFTS:-

1. General:

The lifts shall be A.C. variable voltage variable frequency micro processor controlled.

2. Size & Speed:

2.1 The Passenger lift should be for 13 persons.

2.2 Machine speed shall be 1 m/s

3. Stops & Openings:

i) GF, 1st Floor, 2nd Floor, 3rd Floor & Terrace (5 stop)

4. Travel:

4.1 The travel of lifts shall be as follows:

a) Total Travel distance for passenger lift shall be 18 M 5stops and 5opening.

4.2 Tenderer shall note that all dimensions are as indicated in the enclosed drawings and his design shall be based on the same .These specifications have been based on Indian standard and equipments available locally as per Indian codes and rules. Equipment from other countries will be acceptable if it is of better quality and competitive in price and conforms to International Standards .The size of hoist way and car enclosure will, however be the same as specified namely.

Configuration of Lifts shall be as following

(a) (i) Passenger lift	:	13 Passenger(890 kg)
(ii) Car Entrance	:	900 X 2000mm

5. Driving Mechanism:

5.1 The lift shall be provided with A.C, variable voltage, variable frequency, microprocessor controlled motion and drive control system. The tenderer shall indicate the model No. name of manufacturer and country of origin being provided, and the cable size required.

6. Operation:

6.1 Operation shall be duplex full collective for passenger lifts.

6.2 Each car shall be arranged so that momentary pressure of one or more of its buttons shall cause that car to start.

6.3 A car cannot be started unless the car door is in the closed position and all hoist way doors for that car are locked in the closed position.

6.4 All the lifts shall be provided with fireman switch.

7.0 Operation with Attendant:

7.1 When the key switch is in position of "without Attendant" the elevator shall operate as described above.

7.2 With the key switch in the position of "with Attendant" the direction lights and buzzer shall be operative and "up" direction and the "down" direction buttons in the regular car operating panel shall be effective for the attendant operation.

- 7.3 When on attendant operation, the car and hoist way doors shall open automatically at each stop but the closing of the above shall be subject to the "up" or "down" direction buttons.
- 7.4 As a visual signal to the attendant, the "up" or "down" direction-jewel shall illuminate upon registration either car or landing calls to indicate the travel direction of the car. The attendant shall operate the lift normally in the direction indicated by the direction-jewel. Travel may be realised by the pressure of a car button for a landing in that direction from the car and the direction button in the car operating panel for that direction.
- 7.5 When the key-operated independent service switch is "on" the corresponding car shall operate only from its car button and shall be entirely independent of the other car. The other car shall then operate as a Simplex Collective Elevator responding to its own car calls and all landing calls.
- 7.6 The pressure of direction button shall cause the doors to close and start the car in the direction desired, provided a car on landing call is registered for the direction. If pressure of the direction button is released before the car starts, the doors shall reopen. After the car has started, the direction button can be released and the car shall answer car and landing button calls.
- 7.7 Continuous pressure of the non-stop button shall cause the car to by-pass all landing calls and respond only to registered car calls.
- 7.8 In order to have a car available at the main floor while both lifts are in operation "with Attendant" a "down" light signal shall be registered. Automatically in the first car which clears all its calls. This signal shall indicate to the attendant that this car should be started "down" and pressure of the "down" direction button shall move the car automatically to the main floor.
- 7.9 The car shall also have emergency stop and alarm push buttons. In the machine room manual Cranking device shall be provided.
- 8.0 Machine & Location:**
- 8.1 Without requirement of machine room on Top.
- 8.2 Machine speed shall be 1M/S for Passenger lifts.
- 9.0 Buffers:**
- 9.1 Car and counter weight buffers shall be of hydraulic/ spring type and shall be mounted on steel supporting channels.
- 10.0 Guide & Fastenings:**
- 10.1 Planned heavy duty steel tee-sections as specified in IS - 1173 shall be provided as car and counter-weight guides. Steel sections of guides shall be tongued and grooved to provide smooth joints.
- 10.2 Guide Rail brackets shall be fixed to the wall by anchor fasteners. Adequate steel brackets of suitable design and spacing shall be provided, so that guides shall not deflect more than 5 mm. under normal operation.
- 11.0 Counter-Weight:**

11.1 Counter-Weights shall consist of iron ore weights in structural steel frame. Counter weight shall be equal to the weight of the car plus 40% of the contract load.

11.2 A metal wire mesh counter-weight guard at the bottom of the hoist way.

12.0 Ropes & Sheaves:

12.1 Hoisting ropes shall be multi-strand traction steel with hemp core. The size and number of ropes shall be as required for achieving a factor of safety of not less than ten. The ratio of diameter of driving sheave shall be minimum 40 times the diameter of ropes.

12.2 Governor ropes shall be of multi-strand steel wire.

12.3 In case a diverter is to be used it should be suitably mounted. The machine and Vee sheave shall be suitably mounted on a common bed plate with isolation pads.

13.0 Hoist way Entrance:

13.1 Each hoist way door shall be equipped with a hoist way door interlock by a cam on the car.

14.0 Door Operator:

14.1 Door operator shall be positive acting and powered by an V3/F/Device motor rigidly connected to the door. Operator shall simultaneously open the car and hoist way doors and maintain the doors fully open or closed at each door step. Door operators shall be suitable for Attendant/Automatic operation and shall be provided with solid state panel using Traces for operational control. The panel should be mounted on Car Top.

14.2 The equipment shall consist of a machine on the elevator car operating the car door when the car is stopping at a landing. The car door and hoist way door shall be mechanically connected and shall move simultaneously in opening and closing.

14.3 The car door and the hoist way door shall be power opened and power closed and shall be checked in opening and closing with an oil cushioning mechanism built into the gear unit.

14.4 Each hoist way door shall be provided with an interlock which will prevent movement of the car away from the landing until the doors are locked in the closed position.

14.5 An electric contact for the door shall be provided which shall prevent car movement away from the landing unless the door is in the closed position.

14.6 Necessary switches shall be provided in the lift machine room to control the operation of the doors.

14.7 The car door and the hoist way shall open automatically as the car is stopping at a landing. The closing of the car door must occur before the car can be started. Doors can be stopped and reversed during their closing motion.

15.0 Controls:

15.1 A controller shall be provided to control starting, stopping and the speed of the lift motor which shall also automatically apply the brake if any of the safety devices operate or the power fails from any cause.

- 15.2 Controls shall be A.C. Variable voltage Variable Frequency Drive System. The inverter and Data Net work system shall be provided with micro processor based control.
- 15.3 Lift motor control system shall be closed-loop control system using solid state device and electronic speed pattern generator to command the motor speed, with digital speed feedback from a velocity transducer and load compensation circuits.
- 15.4 In normal operation, the electromagnetic brake shall only be applied when the lift has come to a complete standstill. The brake shall hold the lifts in position at every landing, and shall provide stopping without any jerking effect.
- 15.5 Load compensation circuits shall also be included to further improve upon the leveling accuracy. The leveling shall be ensured within 15 mm.
- 15.6 The acceleration and deceleration shall be adjustable.
- 15.7 A reverse phase relay shall be provided on the controller which shall be designed to protect the lift equipment against phase reversal and phase failure.

16.0 Hall Position Indicator:-

- 16.1 Digital car position indicators in Halls and luminous hall buttons shall be provided on all the floors.

17.0 Car:-

- 17.1 The car frame/sling shall be fabricated from steel angle or channel section and be separate from the lift car. The safety gear positioned below the sling shall be of gradually applied type which can be released by lifting the car. This safety gear shall be operated by an over speed governor located in the motor room. The governor tension weight shall be provided with a built-in switch to detect broken rope. Car sheet steel thickness 1.65 SWG MS and 2 mm. for floor.
- 17.2 Car enclosures shall be duco painted.
- 17.3 A flush type Stainless Steel "car operating panel" with the following devices shall be fitted in all the cars:
- Bank of call buttons corresponding to landings served.
 - Alarm button.
 - Fan /Blower switch.
 - Open door button.
 - Close door button.
 - "Up" & "Down" direction indicators.
 - Key operated switch for "Attendant" and "Automatic" operation.
 - A non-stop button.
 - Fire mains switch shall by-pass all landing calls and lift will travel to ground floor in case of fire.
 - A stop switch to stop the car at some particular floor.
 - Provision in car to be connected with P.A. System & FIRE CONTROL ROOM.

l) Overload panel along with audio /visual indication.

The car panel shall be provided such that it can swing open when released from the top of the car to gain full and easy access to all the terminals behind the car station and also provide easy access for flex terminations coming up from the inside of the car.

Non-stop service, should be achievable with a separate coded push button in the car. A load weighing device shall be provided to by-pass landing calls, should the load of the lift reach 90% of the full contract load.

The fan switch shall be a toggle switch. Fan shall be isolated with vibration isolators from the car and the sling. The "up" and "down" reversal buttons and key operated inspection switch shall be provided on a maintenance control device on top of the lift car.

In case of "Attendant" operation of the car indicator on the car station shall be provided for the attendant to know on which landing the call has been registered to answer that call.

If the sole control of the lift is to be retained on the car station, a car preference switch shall be provided to ignore all landing calls.

17.4 A digital car position indicator shall be provided in each car indicating the landing at which the car is stopped or passing.

17.5 Car entrance shall be protected by stainless steel doors of the same size as landing doors. Door opening shall be as follows:

(a) Passenger Lifts shall be provided with automatic centre opening sliding doors (two speeds).

The door shall be provided with safety shoe, high speed door operators, sheave type two point hangers, and tracks as specified.

17.6 Car enclosure will be provided with arrangement for fixing of Internal Telephone. Car shall have a provision for communication with main control room.

17.7 The landing doors shall be MS powder coated with the desired colour.

18.0 Car Safety and Governor:-

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

19.0 Door Hangers & Tracks:-

19.1 For each car and each landing sliding door sheave type two point suspension hangers complete with of steel and shall include shielded ball bearing rollers shall be provided to take the upward thrust section with smooth surface.

20.0 Safety Shoe:-

20.1 A safety shoe (one on each panel of car door) shall extend the full height of the projection beyond the front edge of the car door.

- 20.2 Should this shoe touch a person or object while the car door is closing the car and hoist way doors shall return to the open position. The doors shall return to the expiration of a predetermined interval and thereafter close automatically.
- 21.0 Infra red light curtain shall be included in the lift. In case the infrared curtain be obstructed, due to any person / object, it shall effect the doors to reverse the closing operation and open the doors till the time the obstruction is removed.
- 22.0 **Brake:-**
- 22.1 The direct current brake shall be spring applied and electrically released and designed to provide smooth stops under variable loads.
- 23.0 **Micro Self-Leveling:-**
- 23.1 The lifts shall be provided with a Micro-Self-Leveling feature that shall automatically bring the car to the floor landings. This Micro-Leveling shall within its zone, be entirely automatic and independent of the operating device and shall correct for over-travel or under-travel and rope stretch.
- 24.0 **Painting:-**
- 24.1 All lift metal work shall be given one shop coat of rust inhibiting paint in the factory and painted with finishing coats on site. Any damage caused during erection of the equipment shall be repaired to restore it to required finish.
- 25.0 **Fire Protection:-**
- 25.1 To prevent fire from spreading by means of the lift well, lift well enclosure should be fire resisting. A vent of size 0.2 sq. m. should be provided at the top of the lift well enclosure to allow any accumulation of smoke there in to escape to the open air. The machine room should be constructed of a suitable grade of fire resisting material and precautions should be taken to minimize spread of fire from the machine room into the lift well.
- 26.0 **ELECTRICAL EQUIPMENT AND WIRING**
- 26.1 **Scope:-**
- 26.1.1 The scope of this section comprises supply, installation and wiring of all electrical equipment including control wiring. Power supply at 415 V, 3 phase, 50 Hz, 4 wire with double earthing will be supplied by the DSCI in the machine room with a MCCB in sheet steel enclosure for each lift. All further wiring to motors and controllers, hall buttons, alarm bell, car position indicators etc. shall be provided by the lift Contractor.
- 26.1.2 A separate DB shall also be provided in the lift machine room for lighting, socket outlets, drilling machine, etc. by the Electrical Contractor.
- 26.1.3 Lift machine room may be ventilated.
- 26.2.0 **Wiring:-**
- 26.2.1 All wires and cables shall be insulated with polyvinyl chloride base insulation rendered flame retardant armoured and rated for 1100 volt service and suitable for use in dry and wet locations. Makes of wires and cables shall be subject to the approval of the Chief Engineers DSCI before delivery.
- 26.2.2 All control wiring shall be of copper.

- 26.2.3 Wires and cables subject to movement and abrasion shall be protected by flexible galvanized steel conduit.
- 26.2.4 Traveling cables shall be of best grade for the service and shall originate at steel junction boxes in hoist way and at steel junction boxes on the car, hung so that the proper size loop may be obtained. they shall have a fire and moisture resistant outer covering and contain a steel supporting strand. Traveling cables shall be suitably suspended to relieve strains in individual conductors. Traveling cables shall be provided for telephone, signals, controls, lights, fans, alarm bell, emergency circuit, music and communication with control room etc.
- 26.2.5 Earthing of all equipment is in the scope of the contractor.

27.0 SCHEDULE OF REQUIREMENTS

Schedule of Requirements shall be as attached herewith:-



SCHEDULE OF REQUIREMENT
PASSENGER LIFT (HOSPITAL)

1. Capacity / Weight : 13 Person (900 Kg.)
2. Quantity : 2Nos.
3. Speed : 1MPS
4. Type of Drive : ACV³F
5. Location of Machine Room : ABOVE
6. Travel : 18 Mtrs Approx.
7. Serving : Ground to Terrace Floor (5
8. Floors : 5 Floors
9. Well Size : 1400 X 1400
10. Car Size (Approx.) : 1100DEEP X 1350mm HIGH
11. Car Enclosure : Stainless Steel Panels in mono rock finish/Etched Finish & Glass at back side.
12. Flooring : Granite / Marble 20 mm thick
13. Electric Light : Compact fluorescent light – 2 Nos.
14. Fan : 300 mm sweep twin blower
15. No. of Car Entrance : One location front
16. Car & Hostway Entrance Door : Centre opening power door in Stainless Steel finish – Design as / Arch Approval.
17. Clear Entrance : 700mm WIDE X 2000 mm HIGH
18. Operation : Automatic
19. Control : Full collective (Duplex Controller) with 16 bit micro processor with or without Attendant
20. Indicator (Car & Landing) & Features :
 - Digital direction and position.
 - Signal Fixture in SS finish.
 - Inverter based emergency light.
 - System capable of with standing +10% to -20% supply voltage fluctuation.
 - Fireman switch.
 - VF door operator.
 - Inverter based emergency alarm.
 - Hall Lantern & Gong
 - Inverter based, press & speak intercom.
 - Self leveling accuracy of +/- 5 mm.
 - Full Ht. car operating panel with space for lift inspector's certificates.
 - Load weighing device.
 - Full height Infrared curtain.
 - Adjustable guide shoes
 - In-built Voltage Stabilizer, Pressure Limit Switch, Ladder, facia plate, car top railing.
 - Digital Temperature Indicator
 - Provision for Music, & Scrolling Indication in Car.
 - Brail Button
 - Hand Rail
21. Head Room :
22. PIT Depth : 1600 mm

SPECIFICATION AND TECHNICAL DATA FOR 13 PASSENGER LIFTS

SPECIFICATION FOR THE WORK

The work shall be executed in strict conformity to CPWD General Specification for Electrical works (Part III –Lifts) 2003 (amended up to date) and the modification there to as indicated here in these specifications, technical or other wise.

1. TYPE OF LIFT

13 Passenger Lift.

2. LOAD & SPEED

About 900 Kg. @ 1 M.P.S.

3. TRAVEL

GF, 1st floor, 2nd floor, 3rd Floor & Terrace.

4. STOPS AND OPENINGS

5 Stops, 5 openings (All opening on same side).

5. POWER SUPPLY

415 Volts, 3 phase 50 Hertz alternating current.

6. CONTROL

A.C. Variable voltage Variable frequency (Micro processor based).

7. OPERATION

Full collective duplex control (with/without Attendant)

8. MACHINE

Without Machine Room

9. CAR SIZE

About 1100mm wide X 1350mm deep inside dimension (Capacity)

10. HOISTWAY AVAILABLE

About 2100mm wide X 2500mm deep inside dimensions.

11. CAR ENCLOSURE

Stainless steel car Panels in mono rock finish & glass at back side.

12. CAR ENTRANCE

Protected by Centre Opening sliding stainless steel doors in painted finish clear opening about 700mm (wide) X 2000mm (high).

13. DOOR OPERATION

Automatic

14. SIGNAL

Combined Luminous hall button and digital hall position indicator at all floors car operating panel with luminous buttons digital car position indicator in car battery operated alarm bell and emergency light "Fireman's switch at main lobby" interphone system. Automatic Rescue Device, Elevoice-voice Simulation system overload warning Device. All signals fixtures in stainless steel faceplates.

15. SPECIFICATIONS

C.P.W.D Specification for Electrical work is (Part-III Lifts & Escalators)-2003.

16. OVERHEAD

17. LANDING ENTRANCE

a) Location of landing Entrance.

All landing entrance on same side on all floors.

b) Size

Protected by Centre Opening sliding steel doors in painted finish clear opening about 700mm (width) X 2000mm (High)

18. CONSTRUCTION DESIGN AND FINISH

(A) Flooring.

Granite / Marble 20 mm thick.

(B) Ceiling

Crafted from mild steel with power saving fluorescent tubes / bulbs, fan diffusers.

(C) Ventilation

Cabin fan suitably concealed behind the false ceiling to throw air evenly as Per CPWD Specification for lifts-2003

(D) Lighting.

Interior indirect lighting of the car shall be done with suitable number of power saving tubes evenly distributed in car as per CPWD Specification for Lifts-2003.

(E) All auxiliary switches as per CPWD specification for Lifts 2003.

19. ENVIRONMENT CONDITIONS AT SITE OF INSTALLATION: AS IN DELHI

(a) Additional item if any steel items to be provided by the tenderer.

All the steel items such as machine supports, beams buffer supports, faciplates etc as required shall be provided by the tenderer at his own cost. Nothing extra shall be payable on this account

(b) By the Department.

The structures beams indentor should modify as required before taking in their negotiations if required.

(c) Proposed Drawing.

Attached.

20. ADDITIONAL CONDITIONS

All the lifts shall also be used as multi purpose lifts as passenger lifts. The control arrangements shall be capable of such provision. Fireman's switch will be provided in each lift.

Fireman's switch at the lower ground floor level shall be provided to enable the fire service personnel to operate the lift in case of emergency.

The fire lift shall be operated by simple toggle or button switch situated in glass fronted box, fixed adjacent to the lift at the entrance level. When the switch is "ON" all landing call points shall become in-operative and the lift will be on car control only or in a priority control device. When the switch if "OFF" the lift will return to the normal working.

The work "FIRE LIFT" shall be conspicuously displayed in flourscent paint on the fire lift landing doors at each floor level. The lift can, however be used for other purpose under normal condition. The minimum requirements in additions to the general requirement for lifts given above.

The depth of the pit available at site is 1.6 mtrs only the contractors has to design the lift equipment to suit the available depth of the pit.

21. WORKS TO BE DONE BY THE TENDERER

In addition to manufacturer, supply, installation, testing and commissioning of lift i/c all auxiliary equipment following works shall be deemed to be included within the scope of work to be done by the tenderer.

- a) Lift shall be manufactured as per the site condition keeping in view the depth of pit available and nothing extra in this account will be paid. The existing pit depth is 1.60 mtr.
- b) All minor building works necessary for installation of equipments such as making of opening in walls/floors, either of RCC or brick masonry etc. and plastering them to original condition and finish. The scope of minor building work include all grouting of foundation concrete pads to formed or made as base for supporting R.S Joists etc. grouting and enchoring of all boards clamps, supports foundation bolts, installation in position of R.S Joints in the machine room, lift wall or in the pit. Such works shall exclude cutting or marbles work land construction of partition wall wherever involved.
- c) Supply of necessary R.S Joists of angle iron supporting bracket etc. for installation of the lift, either in the machine room or at other places as may be necessary including their installation in position.
- d) All electrical works except bringing in main connection and earth connection to the machine room termination suitable switch fuse unit/board. All electrical works i/c inter connection from this switch board and loop earthing from the bar to be provided in the machine room, shall be done by the successful tenderer.
- e) Responsibility to ensure safety of lift materials against pilferage and damage till the installation is handed over to the consignee.
- f) All scaffolding and T & P as may be necessary in this hoist way during erection work.

- g) Temporary barricades with caution boards at each landing to prevent accident during execution or work.
- h) Supply and installation of landing fascia plates made of steel car apron plates, sill support angle with necessary clamps, foundation bolts supports etc as are necessary in connection with the installation of the lift.
- i) Steel ladder to be provided for access to lift pit wherever required under regulations.
- j) To provide necessary guarding in all moving parts of the elevator equipment as per WWJSS (International standards).
- k) To prepare finalized layout drawings, based on the survey of the elevator hoistway showing the general arrangement of the lift well, machine room and sectional elevation.

22. PAINTING

The contractor shall not employ women and men below the age of the 18 years on the work of painting with products contain leads, in any corm. Whenever work of lead painting is carried out the following principals must be observed for each use.

- a) While lead, sulphate of lead, or product containing these pigment, shall not be used in painting operation, except in the form of paste of paint ready for use.
- b) Measures shall be taken, whenever required in order to prevent danger arising out from the application of a paint in the form of spray.
- c) Measures shall be taken, whenever practicable to prevent danger arising out from dust caused by dry rubbing down and scrapping.
- d) Adequate facilities shall be provided to enable working painters to wash during the occasion of work.
- e) Suitable arrangement shall be made to prevent clothing put on during working hours, spoiled by painting materials.
- f) Overall rubbish shall be worn by working painters during the whole of working period.

Installation with regard to special hygienic precautions to be taken in the painting trade shall be distributed to working painters.

23. INSPECTION, TESTING AND ACCEPTANCE

- A) Initial inspection by department at work.

The department will inspect the stores at the works of the manufacturer on the specific request from them for the components are ready for inspection. The inspected material duly stamped and insured shall be dispatched to site by the manufacturer.

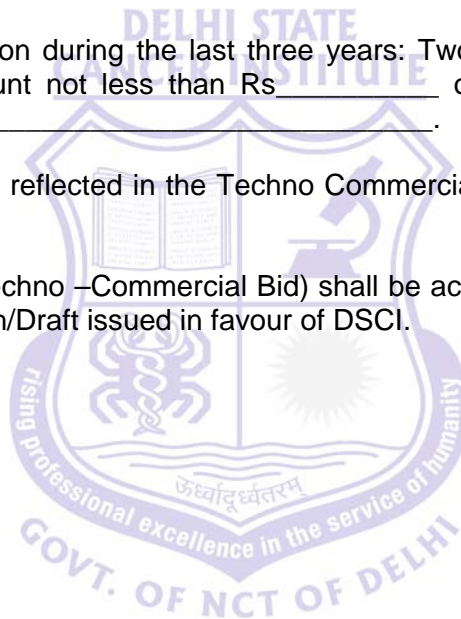
- B) Care of building

Care shall be taken in building/stacking of material to avoid damage to the building. In completion of the lift installation contractor shall move all debris and leave the machine room and other areas used by him in a clean state.

- C) The testing of the equipments meant to be used at site will be arranged by the manufacturer at works itself. The manufacturer will bear all the expenses to be incurred i.e. Airfare, boarding and lodging of the officers carrying out the inspection.

EVALUATION CRITERIA FOR ELIGIBILITY

1. The applicant / tenderer should be in the lift manufacturing business for minimum period of seven years in the present name and style as on date of submission of Tender in 'A' category of CPWD.
2. The applicant should have executed works of similar nature and should be capable of undertaking job as mentioned in the detail of item.
3. The applicant should have sufficient number of technical and administrative qualified staff for the proper execution of the contract. The applicant should submit a list of these employees stating clearly how these would be involved in this contract.
4. The applicant's present performance of the works in hand should be satisfactory. This should be certified by an officer not below the rank of an Chief Engineer.
5. The applicant minimum financial turns over and physical out turn should be as below.
 - (a) Average annual financial turn over (Gross) within the last three years duly audited by Chartered Accountant or verified by Income Tax Authority, years for which no turn over is shown would also be considered for working out average _____.
 - (b) Satisfactory completion during the last three years: Two similar nature of work, duly certified by an amount not less than Rs _____ official not below the rank of Chief Engineer or _____.
6. All the technical data reflected in the Techno Commercial Bid shall also be taken into account.
7. The tender (Part-I Techno –Commercial Bid) shall be accompanied by earnest money of Rs. _____ in cash/Draft issued in favour of DSCI.



IMPORTANT CONDITIONS:

1. SUBMISSION AND OPENING OF TENDERS

- A) Complete tender documents are purchased from Deptt. I/C the concerned Schedule of work there if indication of price duly signed for acceptance of all terms and conditions.
- B) Complete technical particulars must be as per general specifications for Electrical works.
- C) A bar chart indicating proposed programme of supply and installation of lift showing specifically the following items of work by which the tenderer proposed to complete the work within stipulated period.
 - (i) Supply of equipment.
 - (ii) Installation of Lift.
- A. Any financial implication due to non acceptance of conditions and /or changes proposed by tenderer in their bid, as pointed out by the department, shall be given immediately, in any case, before the date fixed by the department. Delay in providing clarifications as asked for by the department, is liable for rejection of his tender.
- B. It should be clearly understood by the tenderers that no further opportunity shall be given to them to modify or withdraw any stipulation at a stage when the prices bid is known to all short listed tenders.

2. RATES

The rates quoted by the tenderer in the tender shall be firm inclusive of all taxes duties and levies. Escalation in the rate shall not be permitted for any reasons except due to statutory variation on A/C taxes and duty as per the conditions of contract in for DSCI form 8.

3. TAXES AND DUTIES

Being an indivisible work contract, no sales tax / VAT shall be payable.

- (a) Sales tax / VAT on individual items of materials and equipment as may necessary shall be paid by the contractor directly to the supplier and the same shall not be separately reimbursed to him.
- (b) The tenderer shall clearly indicate the quantum of excise duty included in the tender. The tenderer should also give rate of excise duty and the amount of each component/components bases on which he has assessed the excise duty in his tendered amount. The information shall be furnished in the tender.
- (c) The excise duty shall payable to the contractor only on production of satisfactory proof by the contractor having paid that quantum of excise duty to the government. He shall also furnish necessary certificate may be prescribed by the Engineer-in-charge in this regards.
- (d) Any statutory variation (plus/minus) in the excise duty from the quantum indicated in the tender shall be applicable as such in actual payment towards the excise duty component for the purposes.
- (e) No Octroi shall be paid separately.

4. TERMS OF PAYMENT

- 4.1 70% payment shall be released on supply of complete lift material with accessories at site on satisfactory conditions specifications on prorated basis.

- 4.2 20% shall be released on installation and testing and commissioning of the lifts.
- 4.3 5% payment will be released after the lift is put into operation and the necessary certificate from the lift Inspector of Delhi Government is got obtained by the contractor. The fees for inspection shall be by the contractor.
- 4.4 5% payment shall be released after the satisfactory completion of the guarantee period i.e. 12 months. In case the contractor wants to get 5% release, it can be released only after providing a Bank Guarantee pertaining FDR of the equivalent amount for a period of 12 months from the date of completion pledged in favour of DSCI.
- 4.5 The material for which detailed specifications are not provided in the tender and are not available in the CPWD specifications, shall be in adherence to Indian Standard Specifications shall be required, however the decision of Engineer-in-charge shall be final and binding.

NOTE:

1. The contractor rates referred to in this para (5) means the rates for each item of work in the Schedule of works and any addition, substituted and deviated items of work under this contract.
2. The percentage indicated above will apply to individual equipments and materials where the individual item in the schedule of work are further broken up for the purpose of payment and so indicate in the price bids of the tenders.
3. The shaft for the lifts at the Machine Room will be provided by the Department. At present the Civil work has started. The contractor while quoting shall provide details of the shaft required as well as of the Machine room so that it could be taken care of during the construction. The other Civil works shall be done by the lift contractor as per actual site requirement.

The approximate size of the shaft has been given in the specification attached with the NIT. However, if any special requirement for the shaft and the Machine Room must be indicated separately while submitting the tenders

5. TENDERER ARE ADVISED TO VISIT THE SITE BEFORE TENDERING

6. MOBILISATION ADVANCE

No Mobilisation advance shall be paid for the work.

7. COMPLETION PERIOD:- 9 Months

Information to be supplied by the Department.

For any lift installation carried by these specifications, the information as per specification shall be supplied to the tenderer together with two sets of complete drawings showing the plan and sectional elevation of lift well and the machine room.

8. WATCH AND WARD OF MATERIALS AND EQUIPMENT

The contractor shall on supply of material and equipment for bonafide use of work at site, shall continue to be responsible for their safe custody till they are installed on position, tested, commissioned and handover to the Engineer-in-charge. The contractor shall furnish unstamped receipt to the Engineer-in-charge for all the items of the materials and equipment so supplied at site before taking payment for the same.

9. GUARANTEE

The supplier shall guarantee the entire lift installation as per specification. All the equipment shall be guaranteed for one year from the date of acceptance of the installation against unsatisfactory performance or brake down due to defective manufacture or installation. The installation shall be covered by the conditions that whole installation or any part there of found defective within one year from the date of take over shall be replaced or repaired by the contractor free of charge as decided by the department.

The Guarantee shall cover the following:-

- (a) Quality, strength & workmanship of the materials and equipment used.
- (b) Safe electrical and mechanical stress or all parts of the equipment under all specified condition of operation.
- (c) Satisfactory performance including the replacement to be done in accordance with the maintenance instruction and schedules.
- (d) Performance figures and other values as specified in the schedule of guaranteed technical particulars.
- (e) Prompt service during maintenance period for repairs & breakdowns i.e. / with in 24 hours from the time of complaint reported.
- (f) Attending to consequential damages to consignment of lift items supplied and installed due to defective workmanship. Materials designs etc. in any part from manufacturers works should not be more than 8 hours delay in attending to break downs/defects reported in station where the tenderer has his service organization. At other places the contractor shall specify/his service period along with his tender and this shall be strictly adhered to.

10. CONTRACTORS LIABILITY FOR DAMAGES CAUSED AND IMPERFECTIONS NOTICED WITHIN THE MAINTENANCE PERIOD

If the contractor or his working people or servants shall break, deface, injure or destroy any part of the building in which they may be working, or any building, road herb fence, enclosure, water pipe, cables, drains, electric or telephone posts or wires, trees grass land, or cultivated ground continuous to the premises on which the work or any part of it is being executed, or if any damage shall happen to the work in progress from any cause whatever, or if any defect, shrinkage or other faults appear, in the 12 months after certificate final or otherwise of its completion of its completion given by the Engineer-in-charge, arising out of defective or improper materials of workmanship, contractor shall upon a receipt of notice in writing on the behalf make the same good at his own expenses, or in default, the Engineer-in-charge may cause the same to be made good by other workman and deduct the expense from any sum that may be then or any time thereafter may become due to the contractor, or from his security deposit.

10. AFTER SALES SERVICE

Lift supplier shall ensure adequate and prompt after sale services, in the form of maintenance personnel and spares as and when required. Particular attention shall be taken to ensure the spares are easily available during the normal course of life of the installation and 24 hours call back service may be provided.

11. PERFORMANCE SECURITY

Within 10 days of the receipt of Letter of Acceptance from the Chief Engineer DSCI, a performance security in the form of Annexure-A for an amount of 10% (ten percent) of the Contract Price. This will be in addition to security deposits.

In any one of the following form to guarantee the faithfully performance of the contract.

- a) In the shape of small savings scripts/Deposits/Accounts valid in India for the required contract period and pledged in favour of DSCI. The scripts / Deposits / Accounts will have necessary transfer endorsement, or
- b) A demand draft or pay order Payable at New Delhi drawn in favour of DSCI, New Delhi on any Indian Nationalized Bank located in India or
- c) Bank Guarantee or irrevocable letter of credit form a local or a foreign Bank acceptable to the DSCI, New Delhi. Such guarantee or letter of credit shall be issued through or counter guaranteed by an Indian Nationalized Bank located in India.

On due performance and completion of the contract in all respect, the performance security will be returned to the successful bidder without any interest.

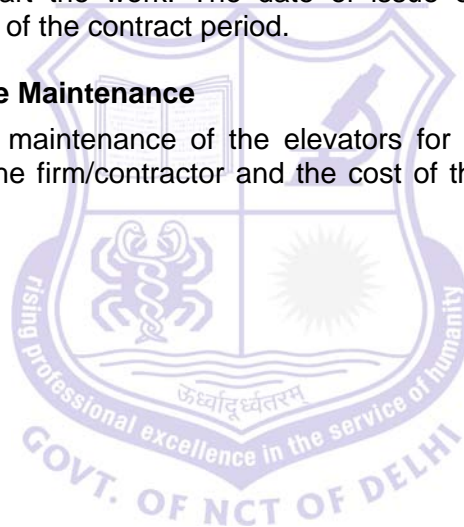
Failure of the successful bidder to furnish the performance shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security (earnest money), in which event the Chief Engineer (Electrical) may make the award to the next lowest evaluated bidder.

On acceptance of the performance security by the Chief Engineer (E) a commencement order and hand over the possession of the work site to the contractor to start the work. The date of issue of which, shall constitute the commencement of the contract period.

12.

Comprehensive Maintenance

Comprehensive maintenance of the elevators for a period of 5 years shall be carried out by the firm/contractor and the cost of the same be mentioned in the schedule.



BANK GUARANTEE

1. In consideration of the Director of DSCI (hereinafter called "DSCI") having agreed to exempt _____ (hereinafter called "the said contractor(s)") from the demand, under the terms and conditions of an Agreement No. _____ dated _____ Between _____ and _____ for _____ the work _____ (hereinafter called the said Agreement") of security deposit for the due _____ by the said contractor(s) of the terms and conditions contained in the said Agreement, on production of Bank Guarantee _____ for Rs. _____ (Rupees _____) we _____ (indicate the name of Bank), (hereinafter referred to as "the Bank") at the request of _____ contractor(s) do hereby undertake to pay to the DSCI and amount not exceeding Rs. _____ on demand.
2. We _____ do hereby undertake to pay _____ (Indicate the name of Bank) the amounts due and payable under this guarantee without any demur, merely on a demand from the DSCI stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.
3. We undertake to pay to the DSCI any money so demanded notwithstanding any disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor(s) shall have no claim against us for making such payment.
4. We _____ (indicate the name of Bank) further agree the guarantee herein contained shall remain in full force and effect during period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the DSCI under or any virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till Engineer-in-charge on behalf of the DSCI certifies that the terms and conditions of the said agreement have been fully and properly carried out by the said contractor(s) and accordingly discharge this guarantee.
5. We _____ (indicate the name of Bank) further agree with the DSCI that the DSCI shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time from time to time any of the power exercisable by the DSCI against the said contractor(s) and to forebear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contractor(s) or for any forbearance act or omission on part of the DSCI or any indulgence by the DSCI to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to surctics would but for this provision, have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the constitution of the bank or contractor(s).
7. We _____ lastly undertake not to revoke this guarantee except with the previous consent of the DSCI in writing.

8. This guarantee shall be valid upto _____ unless extended on demand by DSCI notwithstanding anything mentioned above, out liability against this guarantee is restricted to Rs. _____ (Rupees _____ only) and unless a claim in the writing is lodged with us within ninth months of the date of expiry or to extended date of expiry of this guarantee all our liability under this guarantee shall stand discharged.

Date the _____ day of _____ for _____ (indicate the name of bank)

I/we confirm that the specifications and conditions appended in the tender documents have been fully examined and fully cognizance taken there in arriving at the percentage, unit price and total amount tendered same contained there in my/our tender.

CONTRACTOR

CHIEF ENGINEER



IMPORTANT INSTRUCTION FOR TENDERERS

The tenderers shall use three envelopes in the following manner while submitting the tender.

1. Envelope No. 1 shall contain proof of eligibility such as copies of Registration papers, Experience Certificate/s as mentioned in the press notice and tender documents, valid ITCC, STCC/VATCC, Sales Tax / VAT Registration (Works contract) valid as on date, all documents duly attached by the tenderers and earnest money in the prescribed manner. This envelop shall be sealed and superscribed as "earnest Money and Eligibility Documents".
2. Envelope No.2 shall contain Technical bid issued by DSCI duly completed filled and signed by the tenderer. This envelop shall be super scribed as "Technical Bid".
3. Envelope No.3 shall contain Price bid issued by DSCI duly completed and filled by tenderer. This envelop shall be superscribed as "Price bid".
4. All envelopes shall be kept in a big envelop duly sealed and superscribed name of work and name of tenderer.
5. Date of opening of Tender as mentioned in form 8 may be treated as date & time of opening of envelopes marked Earnest money and Eligibility document. The tender shall bring all the original documents for verification.
6. Envelope containing "Price bid" of eligible tenderers shall be opened at a later date with the prior intimation to them after verifying the Technical bid. The tenderers without the Earnest money and eligibility required for the work shall be summarily rejected. The tenderes therefore must carefully ensure his eligibility as per stipulated conditions before submitting the tender.
7. If any tenderes submits false information or documents, his earnest money deposit shall be forfeited and he shall also be black listed by the Corporation for two years.
8. The Director DSCI reserves the right to reject all/any tender without assigning any reason and can award the work more than one tenderer.
9. DSCI taken no responsibility for delay, loss or non receipt of tender document sent by post/Talex/Courier. Tenderers are requested to bring original copies for verification of ITCC, STCC/VATCC, Eligibility Certificate, Experience Certificate. etc.

CHIEF ENGINEER

DECLARATION BY THE TENDERER

SIGNATURE OF THE CONTRACTOR

QUALITY CONTROL IN LIFTS & ITS FURTHER MAINTENANCE

The installation of lift should contain to the specification given below.

CPWD General Specification for electrical works (Part-III lifts) 2003

Bombay lift Act-1939 and Bombay lift rules-1958 and amended up to date or local lift Act, as applicable.

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

Guidelines for outline dimensions of electric lifts IS-14665 (Part-I): 2000.

Code of practice for earthing IS-3043

Rules for design installation, testing and operation of lifts, escalators and moving parts IS-1735 - 1975

Delhi Fire Prevention and Fire Act-1986 and safety rules – 1987

Electrical aspects of lifts and escalator services are contained in section 14D, part I of National electrical code-1985 (BIS Publication).

FOLLOWING SCHEDULE OF INSPECTION ARE TO BE CARRIED OUT.

- a) Initial inspection at the works of the manufacturer.
- b) Inspection during building construction.
- c) Pre-installation checks.
- d) Inspection during lift equipment erection.
- e) Tests of lift installation.

Additional information to be furnished by the Tenderer for the works executed by them during the last 5 years.

The details with regards to the sub-standard items of work. i.e. carried out below specification and their acceptance thereof as a Reduction Item Statement.

Details of works completed beyond the stipulated period of completion with levy of compensation.

Details of work rescinded by the Department.

Information on any litigation/arbitration cases.

Information with regard to any criminal case lodged or going on against them.

The above information required for in the enclosed form 'A' should be furnished against the respective columns in the form. If the information is furnished in a separate document, reference to same should be given against the respective columns in the form. If information is Nil it should also be mentioned as 'Nil' or 'No such cases'. If any particular is not applicable in case of the tenderers. It should be stated 'not applicable'. However, the tenderers are cautioned that not giving complete information called for in the above said form required, not giving it in clear terms or making any change in the prescribed form may result in the tenderers being liable to be rejected.

FORM – A

WORKS COMPLETED DURING THE LAST THREE YEARS

Sl. No.	Name of Work	Department	Cost of Work	Stipulated date as per contract		Actual Date of Completion
				Date of Start	Date of Completion	

Sl. No.	Reduction Item Amount, if any	Work rescinded, if any	Information about any criminal case, if any	Information on litigation / arbitration cases, if any	Remarks



DELHI STATE CANCER INSTITUTE

-a centre par excellence in the service of humanity
(an autonomous institution under the Govt. of NCT of Delhi)

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PART – II

NAME OF WORK: Design, Supply, Installation, Testing and Commissioning of Lifts at Service Block and Dharamshala in Delhi State Cancer Institute, Dilshad Garden Delhi-110095

S. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1.	PASSENGER LIFTS FOR HOSPITAL Design, manufacturing, testing at works, supply and delivery, receiving, unloading, storing, inspection, handling, assembling, installing in correct assigned position, effecting proper connections, testing and commissioning of following capacity passenger-lifts, having speed of 1MPS 4 + 4 approx. with ACV ³ F drive, duplex control complete in accordance with attached specifications and drawings as required with Car, Car Door & Hoistway Door in stainless steel finish of desired colour.				
i.	Passenger Lift (13 person)	Set	2		
2.	Operation of above 13 Passenger lifts for period of 12 Months after complete installation.	Set	2		
3.	Comprehensive maintenance of above lift for 5 Years after completion and handing over of Lifts	Job/yrs	5yrs		



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PART – II

FINANCIAL BID

FOR

NAME OF WORK: Design, Supply, Installation, Testing and Commissioning of Lifts at Service Block and Dharamshala in Delhi State Cancer Institute, Dilshad Garden, Delhi-110095

S.No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1.	PASSENGER LIFTS FOR HOSPITAL Design, manufacturing, testing at works, supply and delivery, receiving, unloading, storing, inspection, handling, assembling, installing in correct assigned position, effecting proper connections, testing and commissioning of following capacity passenger-lifts, having speed of 1MPS 4 + 4 stops. with ACV ³ F drive, duplex control complete in accordance with attached specifications and drawings as required with Car, Car Door & Hoistway Door in stainless steel finish of desired colour.				
i.	Passenger Lift (13 persons)	Set	2		
2.	Operation of above 13 Passengers for period of 12 Months after complete installation.	Set	2		
3.	Comprehensive maintenance of above lift for 5 Years after completion and handing over of lifts.	Job/yrs	5 yrs		