



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 : _____

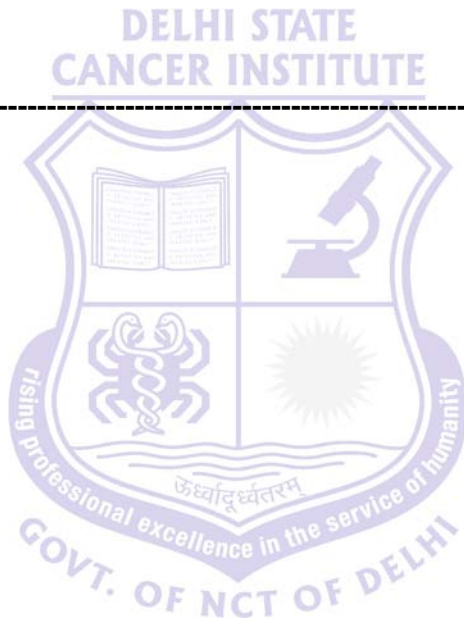
DELHI STATE
CANCER INSTITUTE
FOR

**INSTALLATION OF FIRE SPRINKLER & DETECTION SYSTEM AT SERVICE BLOCK
OF DELHI STATE CANCER INSTITUTE, DILSHAD GARDEN, DELHI-110095**



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NOTICE INVITING TENDER

Sealed Item Rates Tender are invited on behalf of Director, DSCI from specialized firms/ Contractors enlisted in appropriate class of CPWD and have carried out three similar works each of value not less than 40% of the cost put to tender or two similar works each of value not less than 60% of the cost put to tender or one similar work of value not less than 80% of the cost put to tender in last 7 years ending on last day of the month previous to one in which tenders are invited.

Name of the Work	Estimated Cost (Rs.)	EMD (Rs.)	Time Allowed	Cost of tender (Rs.)	Last date of Sale of Tender	Last date Receipt of tender	Date & time of Opening of tender	Form No.
Installation of Fire sprinkler & Detection System at Service Block of Delhi State Cancer Institute	1215050/-	24300/-	45 days	500/-	30/08/10 (upto 2:00 P.M)	31.08.10 at 3:00 P.M	31.08.10 at 3:30 P.M	08

The earnest money of Rs. 24300.00 (Rupees Twenty four thousand three hundred Only) has to be submitted along with tender in the form of pay order/call deposit of schedule bank issued in favour of Delhi State Cancer Institute, Dilshad Garden. Tenderer is required to submit self attested copies of TIN, PAN & Service Tax along with application and latest return of DVAT & experience certificate Tender document are also available on website www.dsci.nic.in & www.delhigovt.nic.in.

Work has to be carried out as per convenience of hospital timing (odd hours) & also working on holidays as per programme given by hospital authorities without any extra financial or other benefit.

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 specialized firms for the work of Installation of Fire sprinkler & Detection System at Service Block of Delhi State Cancer Institute Dilshad Garden, Delhi -110095

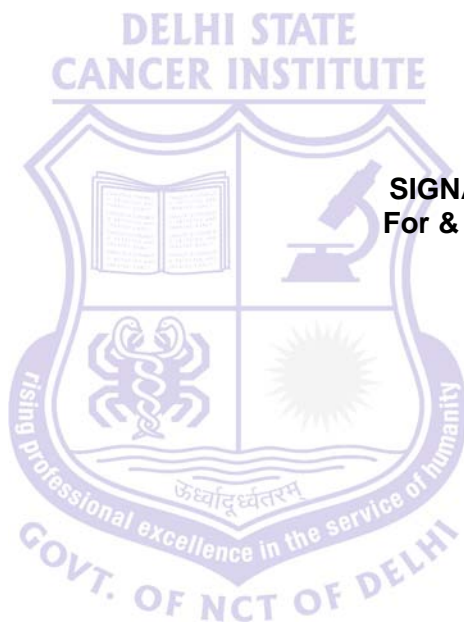
1. The work is estimated cost Rs.1215050.00. This cost, however, is given merely as a rough guide.
2. Tender will be opened to eligible specialized firms/contractors provided they produce definite proof from the appropriate authority which shall be to the satisfaction of the competent authority.
3. Conditions for Works. For works estimated to cost Rs. 1215050.00 three similar works each costing Rs. 4.86 lacs or two Similar works each costing Rs. 7.29 lacs or one similar work costing Rs. 9.72 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. 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 45 days 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 30/08/2010).
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 form 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 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 31/08/10 and will be opened by him or his authorized representative in his office on the same day at 3.30 P.M.

9. The tender shall be accompanied by earnest money, of Rs.24300.00 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 tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining at his own cost all materials, tools 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 for 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:
- 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.
 - 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.



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: Installation of Fire sprinkler & Detection system at Service Block of Delhi State Cancer Institute, Dilshad Garden, New Delhi-110095

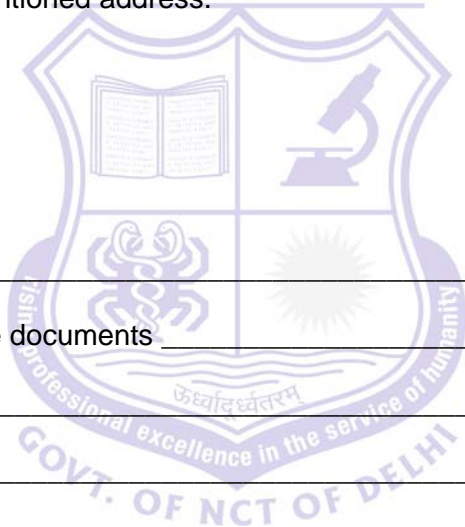
1. To be submitted by 3.00 P.M. on 31/08/2010 to Chief Engineer, Delhi State Cancer Institute, Dilshad Garden, Delhi-110095.
- (b) Tenders to be opened in the presence of tenderers or their representative who may be present at 3.30 P.M. on 31/08/2010 in the office of Chief Engineer, Delhi State Cancer 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 **Rs.24300.00** 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. 29 - 31)

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 : Installation of Fire Sprinkler & Detection System at Service Block of Delhi State Cancer Institute, Dilshad Garden, Delhi-110095

Estimated cost of work Rs. 1215050.00

i) Earnest Money: Rs. 24300.00

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 : 3

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.			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.			
4.			

Time allowed for execution of work 45 Days

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

Clause : 4

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 : 5

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

N. A

Clause : 6

Specification to be followed for execution of work CPWD Specifications

Clause : 7

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 : 8Competent Authority for deciding reduced rates Chief Engineer (E)**Clause : 9**

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 : 10

- 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 shall be payable by the CONTRACTOR. The CONTRACTOR shall provide all necessary arrangements for inspection. All necessary assistance and follow up for obtaining clearance from Chief Fire Officer 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. Completion Time | - | 45 days. |
| 2. Validity of Tender | - | 90 Days. |
| 3. Taxes (Sales Tax, VAT, Excise, Octroi etc.) | - | inclusive F.O.R. destination |
| 4. Terms of Payment | - | As per Tender / Agreement Terms & Conditions. |
| 5. Safety | - | As per Tender stipulations. |

2. 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.

2.1 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.

2.2 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.

3.4 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.

Make-shift 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.

3.5 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).

3.6 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.

3.7 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.

3.8 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.

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.
 - 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/Service Tax on individual items of materials and equipment as May necessary shall be paid by the contractor directly to the supplier statutory authorities 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. TENDERER ARE ADVISED TO VISIT THE SITE BEFORE TENDERING

5. MOBILISATION ADVANCE

No Mobilisation advance shall be paid for the work.

6. COMPLETION PERIOD:- 45 Days

7. 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.

8. 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.

9. 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 5 % (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.

ADDITIONAL CONDITIONS

1. Tender documents will be issued to only those firms whose applications are approved by the competent authority.
2. The Tenderers are advised not to deviate from the technical specifications/items, commercial terms and conditions of NIT like terms of payment, guarantee, arbitration, clause, escalation.
3. Necessary clarifications required by the department shall have to be furnished by the tenderer within the time given by the department for the same. The tenderer will have to depute his representative to discuss with the officer (s) of the departments as and when so desired. In case, in the opinion of the department a tenderer is taking undue long time in furnishing the desired clarifications, his bid will be rejected with making any reference.
4. **Acceptance of Tender**
The departments reserve the right to reject any or all the tenders without assigning any reason. The department may call for fresh tenders with or without modification in the tender form from the same firms whose applications are already approved by the competent authority.
5. **Rates**
The rates shall be inclusive of all taxes, levies, packing, transportation, handling etc. Nothing extra shall be paid. Octroi exemption certificate shall be issued by the department if requested by the contractor. However, the department will not be responsible in case octroi exemption is not granted to the contractor.
6. **Water & Power**
Water and power will be made available to the contractor for execution of the work free of cost.

OR

The department will not supply water and power and power for execution of the work. However, the same shall be made available for testing and commissioning.
7. **Material Approval**
The material brought at site shall be approved by the Engineer-in-charge before use in the work. In case during execution any material being used in the work is found not as per agreement specifications, Engineer in charge may issue instruction to the contractor to remove the material from site and the contractor will be bound to do so.

Chief Engineer
DSCI

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

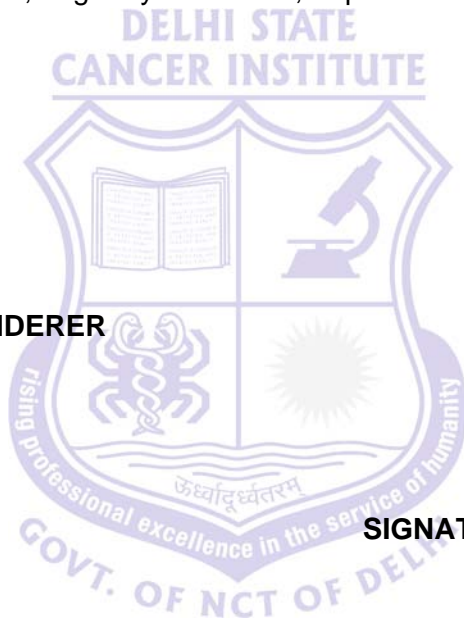
CHIEF ENGINEER



IMPORTANT INSTRUCTION FOR TENDERERS

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

1. Envelope 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. If any tenderer 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.
3. The Director DSCI reserves the right to reject all/any tender without assigning any reason and can award the work more than one tenderer.
4. 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

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

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FIRE SPRINKLERS & DETECTION SYSTEM FOR SERVICE BLOCK

S.NO.	DESCRIPTION	QTY.	UNIT	RATE (RS.)	AMOUNT (RS.)
A)	AUTOMATIC SPRINKLER SYSTEM				
	SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF :-				
1	MILD STEEL BLACK PIPE (IS: 1239 PART-I) MEDIUM CLASS INCLUDING CUTTING, SCREWING, WELDING ETC. COMPLETE WITH FORGED STEEL TEES, BENDS, ELBOWS, FLANGES, REDUCERS, CLAMPS HANGERS ETC. INCLUDING CUTTING HOLES AND CHASES IN BRICK OR RCC WALLS/SLABS AND MAKING GOOD THE SAME COMPLETE INCLUDING PAINTING WITH ONE COAT OF PRIMER AND TWO OR MORE COATS OF SYNTHETIC ENAMEL PAINT OF APPROVED MAKE AND SHADE.				
A)	100 MM DIA	48	RM		
B)	80 MM DIA (JINDAL)	125	RM		
C)	65 MM DIA	60	RM		
D)	50 MM DIA	75	RM		
E)	40 MM DIA	30	RM		
F)	32 MM DIA	45	RM		
G)	25 MM DIA	450	RM		
2	CAST IRON GEAR/HAND LEVER OPERATED MULTI PURPOSE SOFT SEATED WAFER BUTTERFLY VALVE HAVING CENTRIC DISC CONSTRUCTION ONE PIECE BODY, REPLACEABLE SEAL PN-1.6 PRESSURE RATING, SS-304 SHAFT, COMPLETE WITH MATCHING FLANGES. (KARTAR, SANT,ZOLOTO)				
A)	80 MM DIA.	3	EACH		
3	GUN METAL BALL VALVE ISI MARKED SCREWED TYPE TESTED TO 30 KG/CM ² PRESSURE (IS-778-1984) OF FOLLOWING SIZES :				
	(A) 50 MM DIA.	0	EACH		
	(B) 25 MM DIA. (ZOLOTO)	4	EACH		
4	15 MM DIA. QUARTZ BULB (3MM) QUICK RESPONSE TYPE G.M. SPRINKLER HEAD SUITABLE TO OPERATE AT 68 ^o C. (UL/LPC LISTED/APPROVED). (H.D)				
	A) Q.R. PENDANT / UPRIGHT TYPE IN BRASS FINISH / CHROME FINISH.	200	EACH		
5	SUPPLY & FIXING OF 25 MM DIA S.S (304) ONE PIECE LEAK TESTED HOSE ASSAMBY (UL LISTED)				
	0.9 MTR LONG. (IMPOTED)	150	EACH		
6	SUPPLY, INSTALLATION TESTING & COMMISSIONING OF FLOW INDICATING SWITCHES FOR SPRINKLERS INDICATION ON COMMAN ANNOCIATION				

	PANEL. (SYSTEM SENCER)				
	80 MM DIA	3	EACH		
7	SINGLE HEADED, GUN-METAL ISI MARKED OBLIQUE PATTERN HYDRANT LANDING VALVE WITH 80 MM DIA. FLANGED INLET AND 63 MM DIA. INSTANTANEOUS TYPE FEMALE OUTLET COMPLETE WITH GUN-METAL CAP. AND G.I. CHAIN, TWIST RELEASE TYPE LUG AND ALL ACCESSORIES AS PER IS: 5290-1983 (TYPE `A').	4	EACH		
8	FIRST-AID FIRE HOSE REEL WALL MOUNTING SWINGING TYPE COMPLETE WITH DRUM, BRACKET, 25 MM DIA. STOP VALVE AND 20 MM DIA. X 36 M LONG HIGH PRESSURE HOSE REEL TUBING AS PER IS:444 WITH GUN-METAL SHUT-OFF NOZZLE HAVING 5 MM DIA. ORIFICE. THE HOSE REEL SHALL STRICTLY CONFIRM TO IS: 884: 1985.	4	EACH		
9	NON-PERCOLATING FLEXIBLE HOSE (RRL TYPE - `A') ISI MARKED (IS:636) 63 MM DIA. X 15 M LONG COMPLETE WITH INSTANTANEOUS TYPE GUN-METAL 63 MM DIA. ISI MARKED MALE AND FEMALE COUPLINGS (IS:903) BOUND AND RIVETED TO HOSE PIPE WITH COPPER RIVETS AND 1.5 MM DIA. COPPER WIRE.	8	EACH		
10	GUN-METAL 63 MM DIA. SHORT BRANCH PIPES WITH 16 MM DIA. NOZZLES, ISI MARKED (IS:903).	4	EACH		
11	SUPPLY ,INSTALLATION, TESTING & COMMISSIONING OF DUAL CHAMBER, DUAL SOURCE INOZATION TYPE SMOKE DETECTORS(UL/FM/LPC/TAC LISTED/ APPROVED) COMPLETE WITH JUNCTION BOX & ORIGINAL BASE.				
		NOS.	60		
12	SUPPLY ,INSTALLATION, TESTING & COMMISSIONING OF HEAT DETECTOR RATE OF RISE CUM FIXED TEMPERATURE DETECTORS(UL/FM/LPC/TAC LISTED/ APPROVED) COMPLETE WITH JUNCTION BOX & ORIGINAL BASE.				
		NOS.	2		
13	SUPPLY ,INSTALLATION, TESTING & COMMISSIONING OF MANUAL BREAK GLASS PUSH BUTTON TYPE CALL POINT COMPLETE WITH AUXILIARY CONTACT LAMP, FRONT GLASS PUSH BUTTON, GLAND HAMMER ETC, STRICTLY AS PER IS: 2189				
		NOS.	4		
14	SUPPLY ,INSTALLATION, TESTING & COMMISSIONING OF REMOTE RESPONSE INDICATORS COMPLETE AS PER IS : 2189-1988,				
		NOS.	4		
15	SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF ELECTRONIC ALARM SOUNDER IN				

	METALLIC BOX COMPLETE AS PER IS: 2189	NOS.	4		
16	SUPPLY ,INSTALLATION, TESTING & COMMISSIONING OF MAIN FIRE ALARM CONTROL PANEL 6- ZONE, TAC APPROVED COMPLETE WITH BATTERIES, BATTERY CHARGER ETC.ALL OTHER ACCESSORIES STRICTLY AS PE IS; 2189-1988 .	NOS.	1		
	PROVIDING AND FIXING OF PVC INSULATED COPPER				
	CONDUCTOR ISI MARKED ARMoured CABLE IS;1554				
	A) 2X 1.5 MM2	MTRS.	1500		
	TOTAL AMOUNT				



(Harjeet Singh)
Chief Engineer