

**THE STATE TRADING CORPORATION OF INDIA LIMITED**  
**BIDDING & CONTRACT DOCUMENTS**

Supply , Installation, Testing Commissioning (SITC) of pipes and associated auxiliaries after dismantling of existing Pipes and associated auxiliaries for Fire Hydrant System and deluge system in Jawahar Vyapar Bhawan, 1-Tolstoy Marg, Delhi

## INDEX

SL.NO.	Description	Page Nos. From – To
1	Notice Inviting Tender	3-4
2.	Instruction for filling e tender	5-6
3	Definition	7-8
4	Criteria for technical evaluation	9-10
5	General Conditions of Contract -A	11-14
6	Forms of Tender	15-16
7.	Letter of submission	17-18
8.	Letter for unconditional acceptance of bid	19-20
9.	Past contractual performance	21
10	Articles of Agreement	22-23
11.	Performance Bank Guarantee Format	24-25
12	General Conditions of Contract -B	26-34
13	Financial terms and other terms	35-44
14	Schedule of Fiscal Aspects	45
15	Scope of supply and scope of work	46-60
16	Bill of Quantities ( Price bid)	61-70
17	Data to be filled by contractor	71-72
18	Experience of past work	73

**The State Trading Corporation of India Ltd.**  
**(A Public Sector Undertaking)**

**NOTICE INVITING TENDER- E Tender Process**

Tender Ref: - STC/CO/BPMD/DGM-E/D 129 / Dated 15/9/16

1. Bids are invited in two part bidding process online ( **e-tendering process** ) via open tender process from competent firms , for the work of Supply , installation, testing commissioning (SITC) of pipes and associated auxiliaries after dismantling of existing Pipes and associated auxiliaries for Fire Hydrant System and deluge system in Jawahar Vyapar Bhawan, 1-Tolstoy Marg, Delhi.**The bids have to be submitted on-line only.**

Sr. No.	Particular	Details
1	Bid issue and filling site	www.eprocure.gov.in
2.	Tender document fee	Rs.5000.00 (including Taxes)
3.	Tender floating date	15/9/17
4.	Last Date of issue of tender from STC	06/10/17
5.	Date and time of submission the of signed scanned tender documents with all required documents in the e tender portal, physical submission of financial instrument.	6/10/17 up to 3:00 pm
6.	Date and time of opening of tender ( Technical Bid-I)	6/10/17 at 3:30 pm
7	Venue of opening	eprocure.gov.in.
8	Date and time of opening of Price Bid of tender ( Part-II)	Shall be intimated later to the successful bidders in technical bid.

9.	Amount of earnest money to be deposited (EMD) ( By DD/ Banker's Cheque)	4,25,000=00
10.	Submission of EMD and non-refundable bidding fees	Tender box kept on reception of Jawahar Vyapar Bhawan, Tolstoy Marg, New Delhi-110001, closing time of bid , put in an envelope subscribing name of the contractor and tender details

**Note :-**

1. Any Deviation from tender conditions shall result into technical disqualification.
2. All the tender documents should be signed by the bidder as a token of acceptance and shall be submitted in PDF format on line in two packet system.
3. If the dates mentioned above happens a Holiday in STC, the next working day shall be considered as mentioned date.

**The State Trading Corporation of India Ltd.**

**(A Public Sector Undertaking, G.O.I.)**

**Instruction for filling the e tender**

1 Bids are invited via open tender enquiry process for Supply, installation, testing commissioning (SITC) of pipes and associated auxiliaries after dismantling of existing Pipes and associated auxiliaries for Fire Hydrant System and deluge system in Jawahar Vyapar Bhawan, 1-Tolstoy Marg, Delhi

2. Bids have to be submitted on line only via <http://eprocure.gov.in/eprocure> (the e-procurement portal of NIC (eprocure.gov.in/eprocure)). No bids shall be accepted in hard copy or any other form.

3. For submission of e bids, bidders are required to get them registered with NIC's central Public Procurement ( CPP) portal ( <http://eprocure.gov.in/eprocure>) using class-II/Class –III digital signature certificate. All the details mentioned during registration / enrolment process should be correct / true. Bidders have to abide by all the terms and conditions mentioned during registration process.

4. Any Financial instrument such as tender fee, earnest money deposit ( EMD) and which are required to be submitted in the desired form must reach STC before closure of the tender. The details of financial instrument entered during the e-bid submission should tally with those submitted physically. Otherwise, the bid may be rejected.

5. The bidders are required to upload soft copies of all relevant documents.

6. Bidders are advised in their own interest to submit the on line bids well before the bid document submission end date and time ( as per server system clock of CPP). STC will not be responsible for any delay or the difficulties encountered during submission of bids **at the eleventh hour due to any technical or other problems.**

7. For any queries relating to the process of online bid submission or queries relating to Procurement Portal (eprocure.gov.in), the bidders may contact CPP

Portal Helpdesk on Tel No's.: 1800-3070-2232, 91-7878007972, 91-7878007973, 91-7574889871 and 91-7574889874.

8. Bidders may regularly visit STC website for any information / clarification / addendum / corrigendum etc. related to this tender, processing of bids received, award of job, pre bid meet decisions etc. STC shall not be liable to send any individual information or publish a public notice for any further information regarding this tender in newspapers.

9. Portal for Online Submission [www.eprocure.gov.in](http://www.eprocure.gov.in)

10. Bid Copies along with supporting documents to be submitted : Online

11. Following documents are required to be uploaded online of the bid:

Scanned copy of all the documents as required for bid submission

Scanned copy of demand draft/ banker' s cheque toward bidding fee

Scanned copy of demand draft/ banker' s cheque towards EMD

12. A bidder may modify, substitute or withdraw its e-bid after submission before the last date and time of bid submission. No bids shall be modified, substituted or withdrawn by the bidder on or after the last date and time of bid submission. For modification of e-bids, bidder has to detach its old proposal from e-tendering portal and upload/resubmit digitally signed modified bid.

13. STC may ask the bidders to submit any or all the documents in original submitted as part of their online bid anytime during the bid process

14. If there is a discrepancy between words and figures, the amount in words shall prevail. However, where the amount expressed in words does not represent arithmetically correct total, the amount in figures shall prevail.

15. It shall be the bidder's responsibility to ensure that adequate documentary proof is provided in the bid for each of the technical evaluation

16. The bid document available on e- procurement portal shall be taken as final

## DEFINITIONS

1. "Application" shall mean the request submitted by interested parties for obtaining the bid document.
2. "Bid/Tender" shall mean documents issued by STC to the prospective bidder.
3. "Bid Security/Earnest Money/EMD" shall mean the amount to be deposited by the Bidder with the Bid.
4. "Bid Validity" shall mean the period for which the Bids shall remain valid.
5. "Bidder" shall mean the party participating in the Bidding process pursuant to and in accordance with the terms of this document.
6. "Contract Agreement" shall mean the agreement to be signed between the successful bidder and the nominee of the competent authority on behalf of STC.
7. "Contract Price" shall mean the financial bid of the successful bidder and accepted by the STC.
8. "Date of commencement of work" shall mean the date of start as communicated by Letter of work order.
9. "Defects Liability Period/Maintenance Period" means the period after completion of the contract during which the STC or his authorized representative/Engineer-in-charge will notify to the Contractor any defect noticed in the work and the contractor is liable for, replacing or repair the same as provided under the Terms of the Contract/ Document. Proof of dispatch of letter notifying the defect/intimating the representative of Contractor at site on the last date of Defect Liability period will make the contractor liable for rectifying all such defects. **The defect liability period is 12 Months as defined under the Terms of the Contract/ Document.**
10. "Engineer in Charge (EIC)" means the authorized representative

nominated by STC.

11. "Tender Evaluation Committee" shall mean the committee constituted by STC for the evaluation of the bids.
12. "Letter of Award/Notification of Award" shall mean the letter issued by the STC to the successful bidder inviting him to sign the contract agreement.
13. 'STC' shall mean The State Trading Corporation of India Open having its registered office at Jawahar Vyapar Bhawan, Janpath, Connaught Place, Delhi
14. The Contractor shall mean the sole proprietor, or contractor or company whether incorporated or not, undertaking the works and shall include the legal representative or such individual successors, heirs, administrators or assignees of such sole proprietor, contractor or company, as the case may be or the persons composing such contractor or company of the successor of such contractor or company and the permitted assignees of such individual or contractors or contractors or company.
15. Engineer-in-charge shall mean the officer designated by STC who shall supervise and in charge of the work, and issue necessary instructions at site, on behalf of STC.  
"Performance Security/Performance Bank Guarantee" shall mean the amount to be paid by the successful bidder as per relevant clause mentioned in the tender document.
16. "Work" means Supply, installation, testing commissioning (SITC) of pipes and associated auxiliaries after dismantling of existing Pipes and associated auxiliaries for Fire Hydrant System and deluge system in Jawahar Vyapar Bhawan, 1-Tolstoy Marg, Delhi"Site: shall mean the place where the works under the Contract are to be carried out and the details of which are provided in this document.



17. "Successful Bidder" shall mean the bidder who has been declared technically qualified and the bid has been accepted by competent authority of STC. The successful bidder has to sign the contract agreement.

18. "Scheduled Banks" mean Scheduled Commercial Banks of Govt. of India.

19. Order placing authority means: - The officer who is issuing or Placing detailed work order to the contractor.

Deputy General Manger (Elect.)

The State Trading Corporation of India Ltd.

## Tender Evaluation Criteria

Name of Work- Supply, installation, testing commissioning (SITC) of pipes and associated auxiliaries after dismantling of existing Pipes and associated auxiliaries for Fire Hydrant System and deluge system in Jawahar Vyapar Bhawan, 1-Tolstoy Marg, Delhi.

Following documents must be submitted with technical bid for tender evaluation

### **(A) Technical capability:-**

(I) Three similar works completed each costing not less than Rs 86 Lakhs or two similar work each costing not less than Rs 107 Lakhs or one similar work costing not less than Rs 171 Lakhs in last 7 years ending last day of the month to the bids are invited.

Similar work means the work of Supply, installation, testing, commissioning (SITC) of Pipes and associated auxiliaries for Fire Fighting system / Water supply system in any Govt. / Semi Govt. /PSU / State Govt. / Govt. Autonomous Bodies/ Private sector

(II) The bidder will have to produce satisfactory performance report of the above work experience from order placing authority or higher.

### **(B) Financial capability**

The bidder should be financially capable for execution of the work as per NIT specification.

For this purpose:-

(1) Bidder should have positive **net worth and profitable** during last 3 financial years ( FY-15-16,14-15,13-14) . Documentary proof (balance sheet and Profit and loss account) to be submitted. The balance sheets has to be properly authenticated by Chartered Accountant

(2) The bidder should enclose the Earnest money (E.M.D.) of an amount of Rs. 4,25,000=00 and Rs. 5000=00 as tender fee (including Taxes ) in the form of

Crossed Bank Draft / Bankers Cheque payable to “The State Trading Corporation of India Ltd” payable at New Delhi at the time of bidding.

**(C) Statuary Compliances: - Bidder should upload self-attested scanned copies of the following.**

1. GST No.
2. PAN No.
3. Certificate of Non-Blacklisting /debaring from PSU/Govt. / MNC as per tender Document.
4. Third party insurance (after awarding the work)
5. PF registration
6. MSME/NSIC registration certificate if the bidders wants to avail preferential purchase policy 2012.

Note:-

1. The technical evaluation of the bids shall be done on the basis of above criteria and other documents required in the tender terms.
2. STC reserve the right to verify the certificate(s) submitted by the contractor directly from the issuing authority/authorities/clients or any other firm/party as deemed fit. Bidder should be in a position to produce the original certificate, if required. The bidder will be liable for verification of the documents if asked so.

**INSTRUCTION TO BIDDERS:-**

DEFINITION: - The term 'Corporation' wherever appearing in this specification would mean The State Trading Corporation of India Ltd. and shall include the nominated person authorized to place an order this specification.

**1.0 PREPARATION OF TENDER:-**

1.01 Before submission of the tender, the Bidders are requested to have themselves fully conversant with the "Tender evaluation Criteria and "specification, nature of work, the site conditions and general conditions of contract etc., so that, no ambiguity arises at a later date in this respect. They may visit the site for seeing the actual working conditions and the nature of work. STC will not be responsible for any ambiguity at later stage.

1.02 Only such contractors need to submit bids which meets the criteria as laid down in the tender documents and those can submit satisfactory evidence in that regard.

1.03 The Corporation reserves the right to revise, amend or cancel the tender at any stage of tendering process & also the right to postpone the date for opening of tender without assigning any reason.

1.04 If the Bidder deliberately furnishes wrong information in his tender, the bid would be liable to be rejected out rightly at any stage and the security deposit and/or EMD/ Dues to STC, shall be forfeited.

1.05 Tender document are not transferable. JV (Joint Ventures) contractors are not allowed to participate in the tender.

1.06 No contractor shall be allowed to submit more than one bid either solely or through partnership in other firm. Such contractor shall be debarred for bidding in STC for 2 years. The dues to STC shall be forfeited.

1.07 The Corporation shall not be liable for expenses incurred by the Bidder in the preparation of the tender whether his tender is accepted or not.

1.08. Bids containing any alterations/cuttings/marks of eraser etc even if accompanied by signature shall be liable to be rejected on such grounds.

1.09 Successful L-1 bidder shall be decided on the basis of method specified in price bid, if no method is specified ,decision of L-1 will be done on the basis of total price quoted in the price bid section.

1.10 Tenders submitted by courier/post liable/ manual submission will be rejected. Only electronic submission is accepted.

1.11 Partial bidding shall be rejected.

1.12 The tender is to be furnished in two parts i.e. PART-I (Techno-commercial bid) & PART-II (Price Bid); All the tender document digitally signed accompanied by documents in support of pre-qualifying requirement / tender enquiry , scanned copy of financial instrument ( for EMD and tender fee ) should be uploaded to the <http://eprocure.gov.in/eprocure>

1.13 The Part-I i.e. Techno-commercial Bid will be opened on the scheduled date and time online.

1.14 The bidder whose Part-I (Techno- Commercial bid) bids have been found acceptable, shall be intimated through written communication and / or through telephonically as the case may be. The price bid of these technically qualified bidders shall be opened on the scheduled due date and time on line.

1.15 Intimation regarding date, time of opening of price bid shall be intimated on line to the technically qualified bidders.

1.16 STC reserves the right to accept or reject any bid, and/or to annul the bidding process and reject all bids, at any time prior to award the contract, without thereby incurring any liability from the affected bidder or bidders nor shall STC have any obligations to inform the affected bidder or bidders of the grounds for STC's action.

1.17 STC reserves the right to nominate or replace the Engineering in charge during the currency of contract period or during the tender process.

2.0 Earnest Money Cost of tender document:-

2.01 Before submitting the tender, the Bidder shall deposit an amount as indicated on cover page as earnest money and the cost of tender document in the form of crossed Bank draft / Bankers Cheque payable to the State Trading Corporation of India Ltd payable at New Delhi.

2.02 Any tender not accompanied with EMD and fee of tender document, is liable to be rejected. The bidder has to upload the scanned copy of EMD and tender document fee online and physically submit the EMD and tender document fee in the tender box placed at the reception before /on the tender closing date.

2.03 In case of unsuccessful bidders the earnest money will be refundable on application after award of work to the successful bidder.

2.04 Request for adjustment/appropriation of earnest money/deposits if any already lying with the Corporation in connection with some other tender/orders/works shall not be entertained.

2.05 No interest shall be payable on earnest money deposits.

### **3.0 General Terms:-**

3.01 The Corporation is not liable to accept the lowest or any other bid and shall not assign itself to accept the lowest or any other tender and will not assign any reason(s) for the rejection of any tender or a part there of.

3.02 The tenderer shall treat the details of specification and other tender documents as and confidential and they shall not be reproduced anywhere without the written authorization of the Corporation.

### **4.0 RECEIPT OF TENDERS:-**

4.01 The tenders should be filled on-line as detailed above. No other form of tender submission shall be accepted.

### **5.0 DEVIATIONS:-**

5.01 Bids containing deviations from the specifications and general condition of contract shall be liable to be rejected.

### **6.0 SUBMISSION OF DOCUMENTS ALONG WITH THE BID**

6.01 Part-I deals with technical and commercial particulars and performance of the bidders. The Bidder shall upload all required documents as prescribed in the tender document , pre-qualifying requirement ,scanned copy of signed tender document , scanned copy of financial instrument except price bid with part I, duly digitally signed, acknowledging his acceptance to the terms and conditions of tender.

6.02 Part-II shall be only the "Price Bid Section". The successful bidders in techno commercial evaluation shall be intimated by the Corporation. Price bid shall be opened of only those successful bidders who qualify in techno commercial evaluation.

## **7.0 VALIDITY OF TENDER:-**

The bid shall remain valid for 90 days which will reckon from the date of opening of technical bid. Bids once opened cannot be withdrawn by the bidder at any stage. Bidders mentioning a shorter validity period than specified are liable to be rejected. In case validity period is not stated it will be presumed that the bid is valid for 90 days without obtaining any confirmation from the bidder.

## **8.00 CANVASSING: -**

No Bidder shall canvas any Corporation official or the Engineer with respect to his or other tender. Contravention of the condition will invoke in rejection of the tender.

## **9.0**

In case of a tie in the quoted price, STC reserves the right to assess bidder's capability and capacity to execute the work using in house information including taking in to account such as concurred commitments, past performances etc. and award the job.

**10.** Price shall be quoted in figures as well as in words. If some discrepancies are found between the price given in words and figures, the price quoted in words shall be taken as correct.

Deputy General Manger (Elect.)



## FORMS OF TENDER

The Deputy General Manager (E)

The STC of India Limited,

Jawahar Vyapar Bhawan

1-Tolstoy Marg

Janpath ,New Delhi – 110 001

Ref :- Supply , installation, testing commissioning (SITC) of pipes and associated auxiliaries after dismantling of existing Pipes and associated auxiliaries for Fire Hydrant System and deluge system in Jawahar Vyapar Bhawan, 1-Tolstoy Marg, Delhi.

I/We hereby tender for the execution of the work specified in the under-written memorandum within the time specified at the rates specified therein on item rate basis and in all respects, in accordance with the specifications, drawings, design and instructions supplied in writing by the STC and with such materials as are provided for and in all respects in accordance with such conditions so far as possible.

General description	Tender for “Supply , installation, testing commissioning (SITC) of pipes and associated auxiliaries after dismantling of existing Pipes and associated auxiliaries for Fire Hydrant System and deluge system in Jawahar Vyapar Bhawan, 1-Tolstoy Marg, Delhi
Earnest Money( interest free)	Rs. 4,25,000=00 EMD Refundable on request after ward of work.
Total security deposit ( interest free)	5 % of the awarded contract value.
Period of completion	3 months from the date of issuance of Letter of award
Performance Bank	5 % of the awarded value of the contract , as per

1. I/We hereby distinctly and expressly declare and acknowledge that before the submission of my/our tender, I/We have carefully followed the general instructions and read the detailed specifications and schedule of quantities and clearly understand all the conditions of the contract.
2. I/We have seen the location where the said work is to be done and made such investigations of work required in regard to the materials required to be furnished as to enable me/us to complete the work successfully should this tender be accepted in whole or in part.
3. I/We hereby agree to abide by and fulfill all the terms and conditions annexed hereto. To execute, all the works referred to in the tender documents upon the terms and conditions contained or referred to there in and carry out such deviations as may be ordered at the rates quoted in the tender documents.
4. I/We agree that my/our earnest money shall stand forfeited otherwise if I/We fulfill the condition and start the work the said earnest money shall be retained by STC towards security deposit.
5. I/We agree to keep the offer valid for 90 days (3 months) from the date of opening of price bid.

I/We/am/are

Yours faithfully,

(Bidder)

**PROFORMA – I**  
**Letter for submission of bid**

From:-----

To

The Deputy General Manager  
Building Project and maintenance Division,  
STC of India Ltd.  
Jawahar Vyapar Bhawan  
1, Tolstoy Marg, New Delhi-110001.

Sir,

1. I have examined the conditions as incorporated in the Tender documents for the Execution of work and having visited and examined the site of said work, I/we the undersigned, offer to execute the said works in conformity with the conditions of tender,
2. Should this tender be accepted I/We undertake to commence the work within seven (7) days of issue of the Letter of award for the said work and further undertake to perform whole of the work comprised in the contract in 03 months as stipulated in the tender documents.
3. I/We agree to abide by this tender for a period of 90 days from the date of opening of Bid or such extended period as may be mutually agreed as prescribed in Instruction to Bidders and shall remain binding upon us.

4. A sum of Rs 4,25,000=00 (Rs Four Lakhs Twenty Five Thousand only ) towards Earnest money Deposit in the form of Demand Draft/ Pay Order/Banker's Cheque Bearing No. \_\_\_\_\_ Drawn on \_\_\_\_\_ Dated \_\_\_\_\_ in terms of the Instruction to Bidders enclosed in scanned form on line with Technical Bid and has been physically deposited in STC before the bid opening time.

5. Unless and until an agreement is prepared and executed, this bid together with STC's written acceptance thereof shall constitute a binding contract between us.

6. We understand that STC is not bound to accept the lowest bid and that STC reserve the right to accept or reject any bid, and/or to annul the bidding process and reject all bids, at any time prior to award of contract, without thereby incurring any liability from the affected bidder or bidders nor shall STC have any obligations to inform the affected bidders of the grounds for STC's action.

Name of the representative of the contractor to sign:

(a)-----(b)-----

Or

Name of person having power of attorney to sign the contract (certified true copy of the Power of attorney should be attached)

Yours Faithfully,  
Signature of the Bidder

Permanent address -----

Complete details of the dealing person name and address with designation  
-----

Note : The contractor is to fill up the blanks in above form before signing & submitting the bid. This application is made with full understanding that:

1. Bids submitted by bidders will be subject to verification of all information furnished for pre-qualification during the bidding process.
2. STC reserves the right to amend the scope and value of any contracts bid under this work.

**Signature of Authorized representative of the bidder with stamp**

## PROFORMA – 2

### Letter for Unconditional acceptance of Bid Conditions

**No.**

**Date:**

The Deputy General Manager ( E)  
Building Project and Maintenance Division  
The State trading Corporation of India Ltd.  
Jawahar Vyapar Bhawan,  
1-Tolstoy Marg,  
New Delhi-110001.

**Subject: - Unconditional acceptance of Bid Conditions for tender**

Dear Sir,

1 I/We have read and examined the site and understood all the conditions in the bid documents for the subject work and we hereby unconditionally accept the bid conditions entirely for the said work.

2 I/we hereby submit our bid and undertake to keep it valid for a period of 90 days from the date of opening of bid.

3. I/we undertake to execute the above items strictly in accordance with the requirements and particulars /Specifications stipulated in the bid documents.

4. I/we hereby further undertake that during the said period:

(A) I/we shall not vary/alter or revoke my /our bid during the validity period of Bid.

(B) I/we have quoted for the complete scope of the said work

(C ) I/we undertake to abide by the terms and conditions as stipulated in STC bid documents and as amended thereafter before award of work.

( D ) I/We have not enclosed any condition/deviation to conditions of Bid documents in the envelope containing Price Bid.

5. I/we agree that in an event of conditional bid, the bid is liable to be rejected without assigning any reason whatsoever and the Earnest Money deposit is liable to be forfeited.
6. This undertaking is in consideration of STC agreeing to open my bid, considering and evaluating the same for the purpose of award of work in terms of provision of bid documents.

I submit EMD of Rs 4,25,000=00 through Bank draft/ Banker” cheque No. -----  
----- dated ----- issued by -----  
----- (Name of Bank) along with the Technical Bid.

Signature along with seal of the company of the signatory duly authorized to sign the Bid on behalf of the Contractor

Name -----

Designation-----

Name of Company-----

Date and Postal address-----

Witness:

Signature\_\_\_\_\_

Date\_\_\_\_\_

Name and address & Telephone No.\_\_\_\_\_

### **PROFORMA – 3**

#### **Performa for submission of past contractual performance/declaration by the bidder**

It is submitted that:-

1. We have not made any misleading or false representation in the forms, statements and attachments in proof of the Tender evaluation criteria.
2. We do not have records of poor performance such as abandoning the work, not properly completing the contract, inordinate delays in completion, litigation history or financial failures etc.
3. Our business has never been banned/ Blacklisted by any Central/State Govt. department/Public Sector Undertakings or Enterprises of Central /State Govt.
4. We have submitted all the supporting documents and furnished the relevant details as per the prescribed format.
5. The information and documents submitted with the tender by us are correct and we are fully responsible for the correctness of the information and documents submitted by us.
6. We have not submitted fraudulent document/information either in present or past tenders failing which STC may take action as deemed fit.

Signature of Authorized representative of the tender

Bidder's stamp



## ARTICLES OF AGREEMENT

This agreement made on the \_\_\_\_\_ day of \_\_\_\_\_, Two thousand ..... between “The State Trading Corporation of India **Limited**” ( hereinafter referred to as the Client) and whose registered office is located at Jawahar Vyapar Bhawan, 1-Tolstoy Marg, Janpath, New Delhi –110001 on the one part and M/s. \_\_\_\_\_ (hereinafter referred to as the Contractor) and whose registered office is located at \_\_\_\_\_-----on the other part, WHEREAS the client issued tender for supply installation testing commissioning of pipes and associated auxiliaries in Jawahar Vyapar Bhawan, 1-Tolstoy Marg, Delhi.

AND WHEREAS the bid of the contractor to execute the above work in consideration of the amount Rs. .... ( Rupees.....) and subject to the terms and conditions as set out in the tender documents has been approved by the Client AND THE CLIENT has agreed to pay Rs. ....( Rs.....) to the contractor .

AND WHEREAS the contractor , as per the condition specified in the tender , has deposited a sum of Rs. 4,25 000=00( Rupees Four lakhs twenty five thousand only)towards the earnest Money deposit in the form of Demand draft/ Banker’s cheque bearing No. ....Dated .....drawn at .....

The Contractor has agreed to keep STC and its Directors, officers etc indemnified at all times against any claims/liabilities/proceedings etc from any third party or otherwise arising out of or in connection with the tender documents.

NOW THIS AGREEMENT WITNESSED AS UNDER

That the terms and conditions in the tender documents and award letter No. \_\_\_\_\_ dated \_\_\_\_\_ will form part of the agreement and shall be binding on both the parties.

In witness whereof the parties have caused this agreement to be executed on the day and year first above written.

Binding Signature of the Contractor  
Client

Binding signature of the

In the presence of :

Name:

Name:

Designation

Designation

**(Stamp Paper in the name of the Bank)**

**Schedule 'B'**

## PERFORMANCE BANK GUARANTEE FORMAT

(To be executed by any Nationalized Bank in India having their Branch in the State of End-user Department on stamp paper of Rs.100/-)

Name & Address of the STC (End-user Department)

\_\_\_\_\_

1. Against Tender No. \_\_\_\_\_ dated \_\_\_\_\_ and Contract No. \_\_\_\_\_ Dated - \_\_\_\_\_ (hereinafter called the Contract ) entered into between the STC of India Ltd. Jawahar Vyapar Bhawan ,1-Tolsty Marg, Connaught place, New Delhi \_\_\_\_\_ (hereinafter called **the STC** ) which expression shall, unless repugnant to the context or meaning, thereof include its successors, representatives & assigns and M/s. \_\_\_\_\_ (Name and Complete Address) (hereinafter called the **Contractor** which expression shall, unless repugnant to the context or meaning, thereof include its successors, representatives & assigns) As per terms and conditions of the tender document and contract , the contractor is required to submit a performance Bank Guarantee which is to be 5% of the awarded value at the request of the **Contractor** , we \_\_\_\_\_ (hereinafter referred to as Bank which expression shall include its successors and assigns) unconditionally and irrevocably guarantee to pay to the STC immediately on first demand, the amount of Rupees \_\_\_\_\_ (@ 5% of contract value) without any protest or demur or reference to the **Contractor** if the Contractors fail to perform all or any of their obligations under the said contract. The decision of the Buyer/End user \_\_\_\_\_ or The STC of India Ltd., New Delhi duly communicated in writing to the bank that the **Contractor** has failed to

perform all or any of the obligations under the contract shall not be questioned and be final and conclusive. The said amount of Rupee \_\_\_\_\_ will accordingly forthwith be paid without any conditions or requirement of our proof whatsoever failing which interest @ 15% p.a. on monthly rest basis shall be payable by the Bank to Buyer.

2. It is fully understood that this guarantee is effective for a period up to \_\_\_\_\_ (completion period + 60 days ) and that we \_\_\_\_\_ Bank undertake not to revoke this guarantee during its currency (up to claim period) without the consent in writing of the STC.

3. We \_\_\_\_\_ Bank, further agree that the buyer shall have the fullest liberty, without affecting in any manner or obligations hereunder to vary/extend any of the terms and conditions of the said contract or/extend time of performance by the Contractors from time to time or to postpone for any time or from time to time any of the powers exercisable by the STC against the said Contractors and/or forebear to enforce any of the terms & conditions relating to the said contract and we, \_\_\_\_\_ Bank shall not be released from its liabilities under this guarantee by reasons of any such exercise, variations or extension being granted to the said Contractors or for any forbearance and/or commission on the part of the STC, or any indulgence by the STC, to the said Contractors or by any other matter or thing whatsoever which under the law relating to the sureties would, but for this provision have the effect of so releasing us from our liability under this performance guarantee. We further agree that the validity period of this Performance Bank Guarantee will be extended by us upon receipt of any such request in writing from the Buyer and any charges on account thereof shall be to the account of Contractor

4. We \_\_\_\_\_ Bank further agree that the guarantee herein contained shall not be affected / discharged by any change in the constitution of the said Contractors/STC/Bank.
5. The Guarantee will be governed by Indian Laws and will be subject to the jurisdiction of competent courts in the State of Buyer / End – user India alone.
6. No claim shall be admissible against the Buyer in respect of interest on Performance Guarantee regardless of the time of release.
7. The Bank further agrees that decision of the Buyer as to the failure on the part of \_\_\_\_\_ to fulfill their obligations as aforesaid /or as to the amount payable by the bank to the Buyer shall be final, conclusive & binding on the Bank.
8. This Guarantee will remain in force up to \_\_\_\_\_ (completion period + 60 days) and any demand in respect thereof should reach Bank not later than 10 (Ten) working days (claim period) from the expiry of above validity date.
9. Notwithstanding anything entered hereto Banks liability under this Performance Bank Guarantee shall not exceed \_\_\_\_\_ (in words. Bank is liable to pay the guaranteed amount if Buyer same upon in written claim/demand on or before the expiry date.

FOR \_\_\_\_\_ BANK

ACCEPTED

Witness:-

## **GENERAL CONDITIONS OF CONTRACT- SECTION B**

### **1.0 CONTRACT DOCUMENT**

**1.1** The terms Contract Document means the Notice Inviting Tender, Tender Form, instructions to Tenders, Special Conditions, General Conditions of Contract, Specifications, Price Schedule of Quantities, Scope of work, scope of supply and Drawings and Articles of Agreement and all other items mentioned in the Index page.

### **2.0 COMPETENCY:**

This is an open tender enquiry. The bid has to be signed by the person authenticated by the contractor on all pages with seal of the contractor firm. The entire tender document would form part of the contract till the formal agreement is not executed between STC and contractor.

### **3) INSPECTION OF SITE**

Any site information given in this document is for guidance only. The Bidder is advised to visit and examine the Site of works and its surroundings at his/their cost and obtain at his/their own responsibility, any information that may consider necessary for preparing the Bid and entering into a Contract with the Client, including availability of electricity, water and drainage, where applicable. The contractor is free to raise any clarification /doubts regarding scope of work/ scope of supply etc . STC shall not be liable for such costs, regardless the outcome of the selection process.

### **4) ENTRIES**

All the entries in the tender documents must be in English. They must be hand written in ink only. Any bidder in whom there is over writing or marks of erasure is liable to be rejected. Tender containing any alterations/cuttings/marks of erasers etc. even if accompanied by signatures shall be liable to be rejected on such

grounds. Price Bid to be filled up in figure and words for rate and amount of each item. The mode of bid submission is on-line only

## **5) ADJUSTMENTS**

All compensation or other sum of money payable by the Contractor under the terms of the contract may be deducted from or adjusted against his security deposit, against any sum which may be due or become due to the Contractor by STC on any account whatsoever. Bidder who proposed any alteration in the work specified in the said form of invitation to tender or in the time allowed for carrying out the work or which contains any other conditions of any sort shall be liable to rejection.

## **6) REJECTION OF TENDER**

The Contractor shall fill in the rates tendered in figures as well as words. The amount of each item should be worked out and the requisite total given. The bidders who do not fulfill these requirements, their tender is liable to be summarily rejected.

No alteration made by the bidder in the notice of tender, instructions to the Contractors, in the contract form, in the conditions of contract, in the drawings, in specifications or in quantities accompanying the same shall be recognized, and if any such alterations are made or any special conditions are attached, the tender is liable to be rejected.

STC reserves the right to accept or reject any bid and/or to annul the bidding process and reject all bids at any time prior to award of contract, without thereby incurring any liability from the affected bidder or bidders nor shall STC have any obligations to inform the affected bidder or bidders of the grounds for STC action.

## **7) CHECK RATES & FIGURES**

If on check and verification differences are found between the rates given by the contractor in words and figures or in the amounts worked out by him, the following procedure shall be followed:

7.1 Where there is a difference between the rates in figures and words, the rate which correspond to the amount worked out by the contractor shall be taken as correct.

7.2 Where amount of the item is not worked out by the Contractor or it does not correspond the rate written either in figures or in words then the rates quoted by the contractor in words shall be taken as correct and amount shall be worked out accordingly.

7.3 Where rates quoted by the contractor in figures and words tally but the amount is not worked out correctly. The rates quoted by the contractor shall be taken as correct and not the amount.

#### **8) NON RECOGNITION OF UNWARRANTED CLAIMS**

The contractor shall not in any case after acceptance of a contract rate, be paid any; extra charge for lead involved in transport of materials to site, Installation and hire of T & P sheds.

For materials, in case the sources of materials available. All taxes including octroi toll or sales tax or any other taxes etc. shall be payable by the contractor and no claim whatsoever in this respect shall be entertained.

#### **9) CANVASSING**

Any canvassing in any form in connection with the tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing shall be liable to rejection.

#### **10) AUTHORIZED OFFICER**

If the headquarters of the successful bidder are elsewhere other than in Delhi, he shall have to nominate /depute a duly authorized officer in Delhi from the date of commencement of the work until the work is completed. This officer will coordinate with STC for day today works and will primarily carry out the works under his supervision .Such officer(s) will be authorized to act on behalf of the successful bidder.



### **11) DEPLOYMENT OF TECHNICAL & OTHER STAFF**

The contractor shall deploy the qualified personnel such as project Engineer having experience in related work for the execution of the work .In case, the contractor fails to deploy proper technical staff as aforesaid, he shall be liable to pay to STC of India at the rate of Rs.5000/- per week (Five thousand) for Project Engineer.

### **12) REPLACEMENT /RECTIFICATION IN CONTRACTOR ADDRESS**

Any notice under the Contract shall be deemed to have been served on the successful bidder if served upon his authorized officer or sent by registered letter at his known address. Contractor's authorized officer shall not be changed and shall not leave during the duration of the contract, unless prior consent of the STC . If the STC require the contractor to carry out any replacement/rectification under terms of the contract either during the currency of the contract or after the works are completed, but before the expiry of the Defect Liability Period, the contractor or his duly authorized agent shall carry out the same.

### **13) SUBLETTING**

No part of the contract shall be sublet without the written permission of the Engineer-In-Charge STC.

### **14) CO-ORDINATION**

The successful bidder shall co-ordinate and co-operate with all other agencies appointed by the STC so that the work shall proceed smoothly with least possible delay and to the satisfaction of the STC. Work shall be carried out in such a manner that the work of other agencies operating at the site is not hampered due to any action of the contractor. Proper co-ordination with other agencies will be contractor's responsibility. In case of any dispute, the decision of STC shall be final and binding on the contractor.

### **15) ACKNOWLEDGEMENT OF ACCEPTANCE**

The bidder whose tender is accepted will acknowledge the consent of the order within a week's time from the date of receipt of such a written order, intimate to

the Engineer-in-charge of his acknowledgement. Bidder's failure to furnish such acceptance within the stipulated time shall give right to the Engineer-in-charge to revoke the acceptance of tender without any further notice to bidder.

#### **16) SIGNING OF CONTRACT AGREEMENT**

After acceptance of the tender, the bidder shall sign the necessary contract agreement within 15 days of the detailed work order. In case of delay, the earnest money may be forfeited and the tender may be cancelled at the discretion of the STC.

#### **17. SAFETY CODE, LABOUR CAMPS SANITARY ARRANGEMENTS**

The contractor shall follow the Safety Code and Model Rules for the Protection of health and sanitary arrangement for workers as prescribed by the CPWD as regard to safety code and first aid facilities. Contractor shall be fully responsible for safety of his workers and in case of any accident/mishap the entire responsibility shall be on the contractor.

Deterrent penal and legal action shall be taken in the event of any failure on the part of the contractor to discharge the safety obligations as determined by the STC.

#### **18. PAYMENT OF WAGES BY THE CONTRACTOR**

The contractor shall directly pay to Labour employed by him and shall be solely responsible for following all Government rules and regulations applicable for employment.

#### **19. REMOVAL OF PERSON**

The Engineer-in-charge may require the contractor to remove from the site of the work any person or persons in the contractor's employment who have been found to be incompetent or due to misconduct and the contractor shall forthwith comply with such requirement/instructions.

#### **20. ARBITRATION**

In the event of any dispute arising between the Parties in relation to or under this Agreement, the same shall be settled by Arbitration conducted in accordance

with the Rules of Arbitration of ICA, New Delhi. The decision of the Arbitration Tribunal shall be final and binding. The venue for the Arbitration shall be New Delhi. The Arbitral Award shall be enforced in accordance with the provisions of the Arbitration & Conciliation Act 1996”.

**21. Jurisdiction:** - Courts in New Delhi shall have exclusive jurisdiction.

## **22. LIEN IN RESPECT OF CLAIM IN OTHER CONTRACTS**

Any sum of money due and payable to the contractor (including the security deposit refundable to him) under the contract may be withheld or retained by way of lien by the STC in respect of payment of a sum of money arising out of or under the same or any other contract made by the contractor with the STC.

It is an agreed term of the contract that the sum of money so withheld or retained under this clause by the STC will be kept withheld or retained as such by the STC or till his claim arising out of the same contract or any other contract is either mutually settled or determined by the arbitration clause or by the competent court, as the case may be and that the contractor shall have no claim for interest or damages whatsoever on this account or any other ground in respect of any sum of money withheld or retained under this clause and duly notified as such to the contractor.

## **23.00 The Indemnity Clause**

The Contractor shall at all times indemnify and keep STC and its Directors, officers etc. indemnified against any claims /liabilities/proceedings etc. from any third party in respect of any damages or compensation payable in consequences of any accident or injury sustained or suffered by its employees/workmen or agents or by any other third party resulting from or by any action, omission or operation conducted by or on behalf of the Contractor.

The Contractor shall at all times, indemnify and keep STC and its Directors , officers etc. indemnified against any and all claims of the Employees, Workman, agent(s), sub-contractor if permitted by the Engineer in charge, employed

engaged or otherwise working for the Contractor, in respect of wages, salaries, remuneration, compensation or the like.

All claims regarding indemnity shall survive the termination or expiry of the Contract and shall be recoverable from Performance Bank Guarantee (PBG) in addition to any other means.

#### **24) WATER & POWER FOR INSTALLATION**

STC shall provide power & water at one point for the proper execution of the work free of cost under normal circumstances. In case STC is not in a position to supply the water and/or power, the Contractor will make his own arrangement so that the work does not suffer. However, no claim of the contractor whatsoever shall be entertained by STC on this account.

#### **25 ) COMPLIANCE OF LABOUR LAWS**

The contractor shall abide by the Contract Labour, (Regulation and Abolition) Act, 1970, and Contract Labour ( Abolition and Regulation) Central Rules 1971. The Contractor shall comply with the provisions of Payment of Wages Act, 1936. Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923. Industrial Disputes Act and other applicable regulations and other labour laws applicable to Contract Labour as mentioned below:

1. Industrial Disputes Act;
2. Industrial Establishment (Standing Orders) Act,
3. Trade Unions Act;
4. The Factory Act;
5. Employees Provident Fund & Miscellaneous Provision Act
6. Employees State Insurance Act;
7. Workmen's Compensation Act'
8. Payment of Gratuity Act;
9. Minimum Wages Act;
10. Payment of Wages Act;
11. Equal Remuneration Act,

12. Payment of Bonus Act,
13. National/Weekly Holidays Act,
14. Inter-state Migrant Workmen (Regulation of Employment and of service conditions) Act.
15. The contractor whose tender is accepted and who employs or employed 20 or more workers on any day of the preceding 12 months in various contracts, that he may have in other departments/establishments of STC shall obtain a valid License under the Contract Labour (R&A) Act 1970 and the Contract Labour (Regulation and Abolition) (Central) Rules 1971 before the commencement of the work and continue to have a valid license until the completion of the work.  
Any failure to fulfill this requirement shall attract the penal provisions of the Act, which includes imprisonment for a term which may extent to three months or with fine or both.
16. No Labour below the age of 18 shall be employed on the work.
17. The contractor shall pay to the labour employed by him wages not less than the minimum wages in accordance with the notification for minimum wages issued by Govt. of NCT of Delhi (Labour Department) or Central Govt., whichever is higher from time to time
18. The contractor shall issue an employment Card to each worker within three days of the employment of the worker. This card shall be maintained up to date.

## **26 ) FORCE MAJEURE**

For the purpose of this Contract, "Force Majeure" means an event which is beyond the reasonable control of STC or the Contractor, is not reasonably foreseeable, is unavoidable and is not brought about by or at the instance of the party claiming to be affected by such events and which caused the non-performance or delay in performance, and which makes a party's performance of its obligations hereunder impossible or so impractical as reasonably to be

considered impossible in the circumstances and includes, but is not open to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood or other extreme adverse weather conditions ( i'e Act of God) , strikes, lockouts or other industrial action (except where such strikes, lockouts or other industrial action are within the power of the party invoking Force Majeure to prevent), confiscation or any other action by Government agencies.

The party which is unable to fulfil its obligations under the present contract must within 24 hours from the day of occurrence of any of the causes mentioned in this clause shall inform the other party of the existence of the circumstances referred to above, which are responsible for causing delays in performance of the contract.

The party affected by an event of Force Majeure shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall take all reasonable measures to minimise the consequences of any event of Force Majeure.

The failure of either party to fulfil any of its obligations under this contract shall not be considered to be a breach of, or default under, the Contract insofar as such inability arises from an event of Force Majeure, provided that the party affected by such an event has taken all reasonable precautions, due care and reasonable alternative measures, all with the objectives of carrying out the terms and conditions of the Contract.

Notwithstanding the above in case of Strike /Labour dispute that prolongs beyond a period of 48 hours, the Contractor is required to inform STC about the same, on account of which STC reserves the right to get the work done from any other agency at the risk and cost of the Contractor.

## **27. TERMINATION**

Notwithstanding anything elsewhere provided herein and in addition to any other right or remedy of STC under the contract or otherwise, including right of STC for compensation for delay, the Engineer-in-charge may, without prejudice to his

right against contractor in respect of any delay, bad workmanship or otherwise or to any claims for damage in respect of any breach of the contract and without prejudice to any rights or remedies under any of the provisions of this contract or otherwise and whether the date for completion has or has not elapsed by intimation in writing, absolutely determine the contract.

Default or failure by the contractor in any of the under mentioned cases, including but not open to the following shall be the basis of taking action under this clause of the contract:

- 1) Failure to provide at the job site, sufficient labour, material, equipment, machinery, and/or facilities required for the proper and/or due execution of the work or any part thereof;
- 2) Failure to execute the works or any of them in accordance with the contract
- 3) Disobedience of any order or instruction of the Site Engineer and/or Engineer-in-charge.
- 4) Negligence in carrying out the work or carrying out of work found to be unsatisfactory by the Engineer-in-charge.
- 5) Abandonment of the works or any part thereof;
- 6) Failure to execute the contract in terms of the form of the Contract forming part of the Tender Documents within 10(ten days) of notice in this behalf from STC.
- 7) If the contractor is incapable of carrying out the work;
- 8) If the contractor misconduct in any manner;
- 9) If there is any change in the constitution of the contractor (if a contractor) or in the circumstances or organization of the contractor, which is detrimental to the interests of STC.
- 10) Dissolution of the contractor (if a contractor or commencement of liquidation) or winding up (whether voluntary or compulsory) of the contractor (if a company) or appointment of a receiver or Manager of any of the contractor's assets and/or

insolvency of the contractor (if a sole proprietorship) or of any partner of the contractor (if a contractor);

11) Delay in execution of work, which in opinion of Engineer-in-charge shall delay the completion of work beyond the stipulated date of completion;

12) Distress, execution, or other legal process being levied on or upon any of the contractor's goods and/or assets;

13) Death of Contractor (if an individual);

14) If the contractor or any person employed by him shall make or offer for any purpose connected with the contract any gift, gratuity, royalty, commission, gratification or other inducement (whether money or in any other form) to any employee or agent to STC.

15) If the contractor shall assign or attempt to assign his interest or any part thereof in the contract.

16) In case of violation of terms and conditions of the tender, violation of any stator regulations, local laws etc. STC shall reserve the right to terminate the contract.

The decision of the General Manager (Admn.), STC as to whether any of the events/contingencies mentioned in aforesaid clauses entitling STC to terminate the contract has occurred shall be final and binding upon the contractor and shall be non-obligation. The reason for the termination stated in the notice of termination shall be final and binding upon the contractor and shall be non-arbitral. The jobs left however by the contractor shall be got done at his risk and cost through the other agencies and the contract shall be determined accordingly.

17) If the Bidder deliberately gives wrong information in his tender, is liable to rejection at any stage. In such cases the deposited dues with STC shall be forfeited by the Corporation



## **28) CLEARANCE OF SITE**

The contractor shall have to remove all Melba and other unwanted material from site of work before handing over the installation to the STC. The work shall not be treated as complete in all respects unless these requirements are fulfilled by Contractor. In the event of contractor failing to do so, the STC shall have right to get the site cleared at Contractor's cost.

## **29.) WORKING SCHEDULE**

Normally the work will be carried out during working hours however for early completion of the work , the contractor may request STC for allowing extra hours during day, night, Saturday or Sunday including holidays.

## FINANCIAL TERMS AND OTHER TERMS

### 1.0 CONTRACT SUM

**1.1** The Term Contract Sum” means: - This is an item rate contract. The decision of L1 in this tender shall be taken on the basis of the grand total of the cost quoted.

**1.2** Contractor shall strictly conform to the specifications, schedule of rates, general and special terms and conditions if any, and any other matter contained in the tender documents issued by the STC.

**1.3** The value of estimated cost, Earnest Money and Performance Guarantee, Security Deposit are as follows:

- A) Earnest Money : Rs 4,25,000=00
- B) Performance Bank Guarantee : 5 % of awarded value as per STC format
- C) Security Deposit : 5% of the awarded value

### 2.0 SECURITY DEPOSIT (S.D.)

**2.01** The successful bidder will have to deposit a security amount @ 5% of the contract value through DD/ Bankers cheque, in favour of The State Trading Corporation of India Ltd., Payable at Delhi within 15 days from the letter of award or work order issued from STC. Amount of EMD already deposited shall not be adjusted in this Security deposit amount. EMD will be refunded on request.

**2.02** Unless otherwise specifically required to be retained / forfeited by STC in part or full, the security deposit shall be refundable on the request of the contractor after satisfactorily completion of the free warranty period (Defect liability period) of 12 months to the satisfaction of the STC.

**2.03** If the contractor fails and neglects to observe or perform any of this obligation. it will be lawful for the STC to forfeit either in whole or in part, at its absolute discretion, the security deposit furnished by the contractor.

**2.04** No interest shall be payable on such deposit.

### **3.0 PERFORMANCE BANK GUARANTEE (PBG )**

The bidder shall guarantee among other things, the following:-

- (a) Quality, Strength and performance of the material used.
- (b) Safe electrical and mechanical stress on all parts used under all specified condition of operation.

(C) The bidder shall submit an irrevocable performance guarantee amount which will be 5 % of awarded value in addition to security deposit against the proper performance of the equipment/ material. The performance guarantee amount will have to be deposited within 15 days of issue of detailed award letter in the form of Bank Guarantee. The performance bank guarantee amount will be valid up to the completion date of project plus 60 days beyond.

### **4.0 WORK OPEN TO INSPECTION**

All work under or in course of execution or being executed in pursuance of the contract shall at all times be open to inspection and supervision of the Engineer-in-charge and his authorized subordinates, and the contractor shall at all times during the usual working hours, and at all other times at which reasonable notice of the intention of the Engineer-in-charge or his subordinate to visit the works shall have been given to the contractor, either himself be present to receive order and instructions, or have a responsible agent duly accredited in writing, present for that purpose. Order given to the contractor's agent shall be considered to have the same force as if the same had been given to the contractor himself.

### **5) REJECTION OF DEFECTIVE MATERIAL**

5.1 If on test, any portion of the "Supply , installation, testing commissioning (SITC) of pipes and associated auxiliaries after dismantling of existing Pipes and associated auxiliaries for Fire Hydrant System and deluge system in, or their accessories are found to be defective or not fulfilling the intent or the meaning of the specifications, the same shall be replaced with a new one OR be repaired or

rectified either during or after the completion of the work but before the expiry of defect liability period to the entire satisfaction of STC , **at no cost to STC.**

5.2 In case the contractor fail to remove the defects, within 7 days, STC reserves the right to take necessary remedial measures through other agencies and all expenses thus incurred would be recovered from the contractor.

## **6) APPROVAL OF MATERIALS**

All materials articles and workmanship shall be subject to the approval of the Engineer-in-charge.

## **7) CONTRACTOR TO DEPLOY LABOUR AND MATERIAL**

The contractor shall deploy at his own cost all labor and all consumable material tools and plants, appliances, implements, ladders, tackle, scaffolding etc. requisite for the proper execution of the work and whether included in the specifications or other documents forming part of the contract or referred to in the conditions or not, or which may be necessary for the purpose of entirely satisfying the engineer-in-charge.

The work is to be carried out as per the specifications in the tender and relevant standards. The material should be got approved before start of work.

All the equipment/material used shall be one of the stipulated makes in order of preference as per approved list of material.

Agency will be responsible to test & commission the entire installation .The work shall be executed without any loss/damage to the STC's properties.

## **8) CERTIFICATION OF COMPLETION**

The work shall not be considered as completed until the Engineer-in-charge has certified in writing that the works have been completed and the guarantee period shall commence from the date of such certificate after handing taken over by STC. Partial completion will not be issued.

## **9). TIME AND EXTENSION FOR DELAY**

If in the opinion of the General Manager ( GAD) the works is delayed by:

**a) Force majeure**

- b)** Reasons of civil commotion, location combination of workers on strike or lock-out affecting any of the building trades;
- c)** In consequence of the contractor for not having received in due time necessary instructions from the Engineer-in-charge for which he shall have specifically applied in writing.
- d)** The Contractor shall immediately give notice thereof in writing to the Engineer-in-charge but shall nevertheless use constantly his best endeavors to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-charge to proceed with the works

Request for rescheduling of date of completion and extension of time, to be eligible for consideration, shall be made by the contractor in writing immediately after the happenings of the event causing delay. The contractor may also, if practicable, indicate in such a request the period for which extension is desired.

- (e)** In such case, the Engineer-in-charge may give a fair and reasonable extension of time and reschedule the completion date. Such extension shall be communicated to the contractor by the Engineer-in-charge in writing within 10 days of receipt of such a request.
- (f)** Time extension shall be sole prerogative of STC and no claim of contractor shall be entertained if time extension is not granted.

#### **10). COMPENSATION FOR DELAY**

If the contractor fails to maintain the required progress as mentioned in appendix or to complete the work and clear the site on or before the contract or extended date of completion, he shall, without prejudice to any other right or remedy available under the law to the STC on account of such breach, pay as 1% per

week up to maximum @ 10 % of the delayed part of work as compensation or penalty.

## **11.0 PAYMENT**

- (a) No advance payments shall be made to the contractor. Payment shall be released on pro rata basis on monthly basis after supply, installation testing, commissioning of the equipment. Final payment shall be made only on the basis of detailed measurements on actual basis considering completion of the project. Payment to the contractor shall be made through NEFT mode only for which Bank charge necessary shall be borne by the contractor.
- (b) Final payment shall be released as per recommendation of Engineer in charge competent authority and deductions of statutory dues and as per the status of works carried out.

## **12. SUBMISSION OF BILL:-**

A bill shall be submitted by the contractor each month on or before the date fixed by the Engineer-in-charge for all the works executed in the previous months, and the Engineer-in-charge shall take or cause to be taken the requisite measurement for the purpose of having the same verified and the claim as far as admissible to be adjusted.

## **13) MEASUREMENTS**

Measurements shall be in metric system and running account bills as per schedule of rates shall be prepared and submitted for the work done based on joint measurements

## **14.0 RATES**

**14.01** The tender rates shall include the cost of materials, labor, installation, testing, commissioning, loading, unloading, shifting, supervision, tools & tackles, transport, contingencies, breakage, wastage, sundries, scaffolding etc. and maintenance during defect liability period for one year for complete installations of pipes and associated auxiliaries for Fire Hydrant System and deluge system in

Jawahar Vyapar Bhawan, 1-Tolstoy Marg, Delhi Whether specifically mentioned or not.

**14.02** If the rates of any item(s) is/are left blank by the bidder, the same shall be treated as zero and it will be presumed the bidder has already accounted the rates in other items against the blank items and the contractor shall have to carry out that item work within stipulated cost.

#### **14.03 TAXES & DUTIES**

**All statutory taxes as applicable, will be reimbursed extra on providing original challans as documentary evidence of deposition of the same to the statutory body.**

#### **15.0 DEVIATION/VARIATION EXTENT/EXTRA ITEMS/SUBSTITUTED ITEMS AND PRICING:**

##### **15.01 GENERAL**

The Engineer-in-charge shall have power (i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the site or for any other reasons provided the same are recorded in writing and proper approval is obtained thereof and the contractor shall be bound to carry out the works in accordance with any instructions given to him in writing signed by the Engineer-in-charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same condition in all respects including price on which he agreed to do the main work. The contractor will be bounded to accept the rates finalized by STC for extra items. The firm has to intimate the rates prior to supplying to STC.

**The cost of total extra items shall not be allowed beyond 10% of the total contract value.**

#### **15.02 DEVIATION IN QUANTITY**

STC reserve the right to order the contractor to SITC of the some equipment mentioned in contract up to a value not **exceeding 15% of total contract value**, on the same rates, terms and conditions. The order for enhancing the quantity will be placed latest within 1 month from the date of completion of the project.

It is to also added here that engineers in charge may ask to alter the deviation in quantity considering site requirement at his own during currency of the contract if the value of the total works remains with in the total accepted cost of the project.

#### **16) DRAWINGS, MAINTENANCE MANUALS ETC.**

On the award of work, the contractor shall immediately proceed with the preparation of General Arrangement drawings, single line diagrams, schematic for the project, detailing the equipment that are to be installed and the ancillary works that are to be carried out. Four sets of all such working drawings shall be submitted to the Engineer in charge, for his approval to ensure that the works will be carried out in accordance with the specifications and drawings, including such changes as may have been mutually agreed upon. All the drawings shall be received by the STC for his approval, within 10 days of the award of work. The approval of the drawings by the STC representative shall in no way relieve the contractor from his obligations to provide a complete and satisfactory Replacement of pipes and associated auxiliaries for Fire Hydrant System and deluge system.

as per intent and purposes as laid down in the specifications, any omissions and/or errors shall be made good or rectified whether or not the drawings are approved prior to the completion of the work the contractor shall furnish to STC, Four sets of a comprehensive manual, describing all components, furnishing list of installation for the operation and maintenance of the (SITC) of complete system.



Successful contractor after receipt of order must furnish detailed bar chart showing various activities with respect to time and he must organize co-ordination meeting at site to review the progress of his work.

### **17) AS BUILT DRAWINGS**

On completion of the work in all respects, the contractor shall supply 4 sets of as built drawings indicating the completed work with detailed specifications used for various equipment as to the satisfaction and verification of the Engineer in charge. Final bill will not be paid for non-submission of the same.

### **18) TEST & INSPECTION**

- a. Before the dispatch of the material to STC, the contractor shall inform STC that the material is ready for inspection. The contractor shall arrange the inspection at the venue as indicated. After the detailed checking/ testing in appropriate laboratory of the material and consequent approval of the testing Engineer as per the standard test procedures laid down in the IS / relevant standards thereafter as per instructions of STC Engineer. The inspecting officer shall inspect the material as per the technical specification of the tender document. Partial inspection of the material will not be entertained. Once the material is inspected and cleared for dispatch by inspecting engineer, the contractor shall arrange to deliver the same material at site in intact condition. The poor quality of material shall be rejected. However such tests at any laboratory during any stage of contract period does not absolve the responsibility of the contractor for proper functioning of the material during execution and afterwards also.
- b. All the cost including travelling, lodging, boarding of inspecting engineer will be borne by the supplier/contractor. The entire test either on the field or outside concerning the execution of the work and supply of materials by the contractor shall be carried out by the contractor at his own cost.

- c. The work is subject to inspection at all times by the STC and or its authorized representative. The contractor shall carry out all instructions given during inspection and shall ensure that the work is being carried out according to the technical specifications of this tender. The technical documents will be furnished to him during the performance of the work and the relevant codes of practice.
- d. The contractor shall provide for purpose of inspection access all tools and gazettes required for inspection.
- e. All results of inspection and tests will be recorded in the inspection reports. Performa of which will be approved by the STC. These reports shall form part of the completion documents.
- f. Any work not conforming to the execution of drawings, specifications or codes shall be rejected forthwith and the contractor shall carry out the rectification at his own cost.
- g. STC reserve the right to waive off such inspections and may accept the test reports also if available from genuine laboratory / established labs for the tests which are not feasible to carry out.

## **19) GUARANTEE**

The contractor shall guarantee that all the equipment, materials and components supplied, fabricated, designed and installed by him shall be free from defects due to faulty design, material or workmanship. The period of the guarantee shall be (12) twelve months from the date of handing over the complete work. During this period any or all components /equipment pertaining found to be defective shall be replaced with a new one, at no extra cost. The contractor shall provide the necessary personnel and tools for fulfilling the above guarantee.

If the above is not carried out within a reasonable time, then STC may arrange to do the same at the contractor's risk and cost, without prejudice to any other rights.

## **20) PAINTING**

All equipment/ancillary items, supports, clamps, saddles etc. will be painted in approved manner, using colors scheme as approved by the STC.

## **21) SAFE CUSTODY AND STORAGE**

Safe custody of all machinery and equipment supplied by the contractor shall be his own responsibility till the final taking over by the employer. The contractor should, therefore, employ sufficient staff for watch and ward at his own expenses. STC may, however, allow the contractor to use the temporary storage, of his equipment if such spaces are ready and available.

## **22) INTERPRETATION**

In interpretation of specifications, the following orders of decreasing importance shall be followed:

- 13.1.1.1 Schedule of quantities
- 13.1.1.2 Technical specifications
- 13.1.1.3 Schedule of Fiscal aspects
- 13.1.1.4 Special conditions of contracts
- 13.1.1.5 General conditions of contract

Matters are covered by the specifications given in this contract, as a whole shall be covered by relevant and latest Indian Standard codes/CPWD code in case of any disputes. If such codes on a particular subject have not been framed or crossed with the specifications of this tender, the decision of the STC shall be final and binding.

## **23) Comprehensive Operation & Maintenance during Defects Liability Period**

## **A) COMPLAINTS**

The contractor shall receive calls for any and all problems experienced in the operation of the system installed under this contract, attend to these within 4-5 hours of receiving the complaints and shall take steps to immediately correct any deficiencies that may exist.

## **B) REPAIRS/REPLACEMENT**

In case any defect is observed pertaining to cameras or other equipment /component, the same shall necessarily be required to be replaced with a new one whereas in cases of any other defect, immediate service, repairs and maintenance shall be carried out within the defect liability period. The period for replacement of defective part is 5 days else STC may take the works through any other agency at the risk and cost of the contractor.

The replacement parts and labor shall be supplied promptly free of charge to STC.

## **C ) Un-Attending Defects**

If the contractor does not repair the defect as indicated in clause B within the stipulated time asked by the Engineer in charge, STC shall be free to get the repairs done at the risk and cost of the Contractor, through the dues pending with STC or any other means possible.

## **24) SCAFFOLDINGS**

The contractor shall allow the usage of the scaffoldings etc. for the inspections and also to the other agencies employed by the STC for execution of other works in a proper manner. No charge shall be made by the contractor to other agencies for the same.

**25)** The tendered rates shall be inclusive of all necessary items required to complete the work whether mentioned or not.

**26)** The equipment and materials to be supplied shall conform minimum to the technical details of the material attached with the tender.

**27) Certificate of inspection** – the Contractor shall obtain and deliver to the STC, all the certificates of inspection and approval by the local statutory authorities concerned (if required), at site before putting the system into operation. The inspection fee shall be paid by the contractor. License fee will be paid by STC.

**28) DEFECT LIABILITY PERIOD**

The contractor shall guarantee the installation for a period of 12 months against defective materials and workmanship from the date of taking over by the STC and shall rectify or replace the defective material or workmanship without any extra cost to the STC as provided under the terms of the contract /Tender document without any delay. If the contractor fails to attend the defects within the period as asked by STC, then the STC has right to get it done at the risk and cost of contractor without giving any further notice. Effective date of completion of work shall be considered after handing over of the entire installation of STC even if, the equipment are installed and put into use in phases, accordingly the defect liability period shall start only from the date of completion and taking over of the entire installation by STC.

**29) All Internal & External Electrical/Mechanical/Civil works etc., for proper installation of all the equipment is under contractor's scope** and it should be executed as per CPWD specifications stipulated and/or general specifications for works of and to the entire satisfaction of the Engineer-in-charge by the contractor without any extra cost to STC.

## SCHEDULE OF FISCAL ASPECT

1	Earnest money ( E.M.D.) to be deposited	Rs. 4,25,000=00
2)	Time of completion	3 months from the date of issue of Letter of award
3)	Date of commencement	From the date of issue of Letter of award
4)	Compensation for delay (Liquidated damages)	1% per week for the <b>delayed section</b> , subject to max. of 10% of contract value.
5)	Security Deposit	5 % of the value of work awarded within 15 days from Letter of award
6)	Performance Bank Guarantee	5% value of awarded value within 15 days from date of Letter of award
7)	Release of Security deposit	After satisfactory expiry of Defect Liability Period of 12 months
8)	Defect Liability Period	12 months from the date of completion and handing over.
9)	Terms of payment	The payment shall be made <b>on pro rata on monthly basis</b>

## SCOPE OF WORK

1. STC has considered that existing Fire Hydrant and Deluge system has over-lived its life and no more reliable during emergent conditions hence it has been decided to replace the existing Fire Hydrant and Deluge system in ditto except Pumping system Including supply pipe lines from Pump house for makeup tank and main fire tank, replacement of Fore bay hydrant pipes to the main hydrant system . The pumping system seems in working conditions and needs overhauling however the firm has to put the complete system in good working system after the completion of works .Firm is advised to visit the site before quoting. The work is intended to replace the aged and corroded fire hydrant and deluge system in Jawahar Vyapar Bhawan with the new pipe lines and associated accessories as per B.O.Q. and specifications along with major overhauling of pumping system including all supply of material needed for the purpose.
2. Following motors and pumps are presently installed in JVB  
**Hydrant system:** - Comprising of various Pumps, Motors , Electrical panels , Power wiring, Control wiring ,connected to various equipment as detailed below
  - Hydrant Multistage horizontal Diesel Engine (connected with the Hydrant Pump) Make Kirloskar , Model 855-F, 180 HP ,
  - Hydrant Multistage horizontal Main Fire Pump and motor -180HP, Make Kirloskar ( 1 No.),
  - Hydrant Multistage horizontal Jockey Pumps and motors ( 2 Nos.) – 20 HP each Make Kirloskar**--Deluge Fire Protection system:** - The system comprises Deluge Pump capacity 55 KW –1 No., Make Kirloskar.

**Works:-**

As on date all the pumps and motors and pumps are well running system.

The contractor shall be required to do the following works as detailed below

- (a) Capital overhauling of all the motors and pumps including replacement of bearings, gland packing seals, impellers etc if required without any extra cost.
- (b) To put on auto mode of diesel engine system, main fire pumps, hydrant jockey system, and deluge system for all zones for which all necessary auto start panels, electrical wiring, accessories, inter-wiring Checking of electrical terminals, contact points of the starters/contractors, and relays installed in various control panels. etc. shall be under contractor scope without any extra cost.
- (c) The contractor is not required to replace the pumps, motors as the same are in running condition.

**3. Civil and Electrical Works :** - All Minor or Major civil works necessary for installation of equipment, frame work , works necessary in New Hydrant System, white washing, Plastering, dismantling and installation of Brick/ stone Cladding etc., Creation of space for Pipes, pipes lying with accessories, in the wall shall be under contractor's scope. Likewise all necessary supports or the material mentioned under B.O.Q together with necessary fittings for renovation of firefighting system. All the material shall be supplied of make mentioned.in conformity with the Indian IS Codes as applicable



(a) Dismantling of existing M.S. pipe (Horizontal & Vertical) along with Union, Bend, Tee etc. and disposing the same within the premises of Jawahar Vyapar Bhawan as per direction of Engineer-in-charge. The installed material is enlisted in the enclosure

b). Dismantling of floor tiles and shifting of RCC slab fixed on pipe tranches i/c stacking of serviceable material and disposal of unserviceable material out of the premises of Jawahar Vyapar Bhawan as per direction of Engineer-in-charge.

c). Dismantling of existing valve viz. Gate valve, NRV, Sluice valve, Air release valve along with Pressure Gauge, Hose reel Drum etc. & stacking in the premises of Jawahar Vyapar Bhawan & re-fixing of same with fittings viz. flanges, nut bolts, tees, elbow, bends etc. complete.

d). Dismantling of existing Installation Control valve with Gong bells, water turbine & stacking in the premises of Jawahar Vyapar Bhawan & re-fixing of same Valve with fittings viz. flanges, nut bolts, tees, elbow, bends etc. complete.

e). Dismantling of existing Internal Hydrant & stacking in the premises of Jawahar Vyapar Bhawan & re-fixing of same Hydrants with fittings viz. flanges, nut bolts, tees, elbow, bends etc. complete.

f). Providing and laying in position cement concrete of specified grade including the cost of centring and shuttering:-

1.1.5.3 (1 cement: 1.5 coarse sand: 3 graded stone aggregate 20mm nominal size)

g). Steel work welded inbuilt up sections/framed work i/c cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.

h). Supplying, installation, testing & commissioning of 200 mm dia & 8 mm thickness M.S. pipe 'C' class confirming to IS:3589 grade-330 and its necessary fittings like flanges, nut bolts, gasket etc. i/c fabrication of "Metre bend/Elbow" wherever required and painting

i). Supplying, installation, testing & commissioning of M.S. pipe 'C' class of Jindal Hissar/Tata/Sail make confirming to IS:1239 part-1 (1990) and its necessary fittings like flanges, nut bolts, gasket etc. i/c fabrication of "Metre bend/Elbow" wherever required and painting with synthetic enamel paint (two or more coats) or Bitumen paint (wherever required) on new work and also on the meeting point of existing & new work with P.O. red paint or Bitumen paint (wherever required) over a priming coat of approved steel primer complete as per direction of STC.

(i) 150 mm  $\varnothing$  (5.40mm thick) (ii) 100 mm  $\varnothing$  (5.40mm thick) (iii) 80 mm  $\varnothing$  (4.85mm thick) (iv) 50 mm  $\varnothing$  (4.47mm thick) (v) 25 mm  $\varnothing$  (4.05mm thick)

j). Providing and applying one coat of 4mm thick PYPKOTE or COATEC anti rust pipe protection including lap of 25mm to make an impermeable layer on MS pipe in trenches complete as required.

(i) 200 mm  $\varnothing$  (ii) 150 mm  $\varnothing$  (iii) 100 mm  $\varnothing$

k). Supply & laying / laying / installing of all the materials required to carryout above said works, job including all consumables are also in the scope of work of contractor. Nothing shall be paid extra on this account.

l). Contractor shall get approved the sample of materials before supply at site.

m). As works are to be carried out in locations where offices of the constituents of Jawahar Vyapar Bhawan are functioning, contractor has to work in such manner that constituents face minimum disturbance. For this purpose contractor may have to work in late hours or after office hours or on holidays including Sundays etc. after taking permission from STC

n). The work shall be carried out in such a way that no damage to the property of STC Building occurred and in case of any damage to the same contractor is liable to replace / provide the same.

**4.** The Successful bidder would be required to submit the following drawings within a period of 10 days of award of work for approval before commencement of work

All general arrangement drawings

Complete lay out dimensions for every unit / group of units with dimensions required for erection purposes .Any other drawing information not specifically mentioned above deemed to be necessary for the job by the contractor.

The successful bidder should furnish well in advance four copies of detailed instructions and manuals of manufacturer or all items of equipment regarding installation , adjustments , operation and maintenance i/c preventive maintenance and troubleshooting together with all other relevant data sheets, spare parts catalogue and workshop procedure for repair , assembly and adjustment etc. all in triplicate.

A 3 phase 415 v, 50 Hz, supply will be given to the firm free of cost, for ETC work. Similarly water supply will be given to the firm at one point.

**5.** The firm is advised to take the measurements with utmost care at their own and STC will in no way be responsible for any measurement error or for any data (supplied by STC). Some New locations may be created/ deleted for installation of pipes of Fire Hydrant system

**6.** Conducting all necessary tests at manufacturer's works and also after completion of erection specified hereinafter to full satisfaction of STC. All test gadgets, instruments; test weights etc. necessary for conducting test at site shall be arranged by the Contractor. All test certificate/ load test certificate should be acceptable to STC.

**7.** The contractor shall make available workmen required to carry out these jobs and as and when his supervisor gets intimated. The contractor shall ensure the availability of a mobile no. at his supervisor round the clock.

**8.** Each Pump should be tested for at least 60 second day. Discharge of water should be from Hydrant or through a test line. Unnecessary sound and vibration should be noted and corrected.

9. Hydrant externally and terrace shall be tested with hose and branch pipe. The jet shall be operated for at least 2 minutes. Hose shall be dried before rolling.
10. First Aid Hose Reels shall be tested by swinging it on its support and partly opening the hose and discharge of water for 60 seconds. Each Hose shall be tested. There shall be no leakage from MS piping or from clips holding rubber or even from rubber pipe. Hose pipe shall be rolled back uniformly, line by line.
- 11 . First Aid Hose Reel shall be extended to full length and water discharged for 120 seconds. The pipe shall be rolled back uniformly, line by line.
12. Hydrant on each floor shall be tested with hose and branch. The Agency shall make all arrangements for disposal of water in the premises so that there is no damage.
13. The contractor shall have to dismantle the existing Hydrant system and deluge system keeping all safety precautions as required at their own. NO T&P, man power, assistance shall be provided by the department for this work . The works shall be carried out as per direction of engineer in charge to avoid any hassle in the building considering the fact that the building is a working building.
- 14. The dismantled material will be the property of the contractor.** The contractor will have to assemble the dismantled material at one place in the building suitably allowed by STC, The said dismantled material will be allowed to out of the building only after ensuring that gate passes have been issued from STC.
15. STC reserve the right to stop the works at any stage if it seems proper for STC, due to negligence of the contractor in any respect e.g. not following the safety norms etc. The stoppage of work or delay for such reasons shall not be counted on STC account.
16. The contractor will be responsible not only for his own men and material but also for the security of the equipment/ materials of the STC The cost of repair/replacement of equipment damage due to mishandling by the worker of

the contractor will be deducted from the contractors bill after loss assessment by STC. The assessment of the STC will be final and binding on the contractors

**17.** The contractor shall not dismantle and remove any items without the knowledge of the Engineer in charge. Dismantled items shall be the property of the contractor.

**18.** Contractor shall get approved the sample of materials before supply at site.

As works are to be carried out in locations where offices of the constituents of Jawahar Vyapar Bhawan are functioning, contractor has to work in such manner that constituents face minimum disturbance. For this purpose contractor may have to work in late hours or after office hours or on holidays including Sundays etc. after taking permission from STC

The work shall be carried out in such a way that no damage to the property of STC Building occurred and in case of any damage to the same contractor is liable to replace / provide the same. NOC/approval of concerned departments as applicable shall be the contractor responsibility.

## **19.0 SPECIFICATION**

### **19.01 Pumps**

The firm has to assess the condition of the existing pumps and will have to carry out the capital maintenance greasing , replacement of bearings , overhauling etc

### **19.02. C I Sluice Valve**

C I components of the sluice valve shall be of Grey cast iron conforming to IS 210. The valves shall be flanged having solid wedge gate valve, inside screw, hand wheel with open-close indications etc all conforming to IS 780 but of nominal pressure rating of PN 1.6 as per TAC norms. The valves shall be supplied with a pair of matching flanges, nuts, bolts,

washers, rubber insertion etc.

### **19.03 . CI – Non return valve ,CI Non return valve, Ball type, flanged .**

#### **GI 'C' Class Pipe and Fittings**

All GI 'C' Class Pipes shall be as per IS 1239 (heavy/medium quality as mentioned in the schedule of items up to 150 mm N B, as per IS 3589 (minimum 8 mm thick) above 150 mm N B, and the fittings shall be of all welded construction, butt weld type flanges shall conform to IS 6392 and gaskets of synthetic moulded rubber approved by Fire Standard.

Pipes under existing garden areas shall be laid underground at a depth of 1 mtr (approx) and laying shall be as per layout drawing, excavation, back filling of earth, cutting holes in existing structure where necessary, providing puddle collars/pipes as required & making good the damages including making the concerned portion of the structure water tight.

Erection of over ground piping shall be complete with necessary pipe supports hangers with MS angles/plate/nut bolts/clamps etc with fabrication as required including providing MS puddle pipes/collars as required for punctures through walls/slabs etc.

Erection of pipe lines shall also include chipping of wall; making holes inside RCC or brick walls, slabs and necessary civil works for restoration of the surface after completion of erection. The quoted tender rate shall include all the above works, as well as the cost of route markers for underground pipe lines as per specifications, to be approved by BOI.

#### **19.04 Pressure Gauges**

(a) Pressure gauges with siphon, controlling cocks etc shall be of approved make having pressure range, bourdon material and dial size as specified in schedule of items.

## **(b)Pressure Switches**

Pressure switches with accessories shall be of approved make and design.

### **19.05 Landing Valves (Hydrant Valve)**

Gun metal landing valve (internal/external Fire-Hydrants) with oblique type single outlet as per schedule of quantities complete with hose coupling adaptor of 63 mm size, instantaneous spring lock arrangement and blank cap with chain conforming to IS 5290. External Fire-Hydrants to be provided with stand posts as specified in schedule of quantities. Orifice plates may be provided where inlet pressure is required to be reduced as per WBFS requirement.

### **19.06 Branch Pipe**

Gun metal, short type, instantaneous pattern branch pipe to suit fire hose delivery coupling of 63 mm size complete with G M nozzle of 20 mm nominal size conforming to IS 903.

### **19.07. Hose with Coupling**

63 mm nominal internal dia hose, rubber lined woven-jacketed coupling with Type-II (Reinforced Rubber lined type) of IS 636, fire fighting delivery hose 15/7.5 M long each, fitted with gun metal coupling of 63 mm size with multi serrated tail and double instantaneous spring lock arrangement comprising of male half at one end and female half at other end complete with rubber cup washer and conforming to IS 903.

### **19.08 . Hose Reel**

Swinging hose reel conforming to IS 884 & comprising of 3 ply rubber hose of length specified in schedule of items, 20 mm (3/4") nominal bore (25 kg/cm<sup>2</sup> /350 psi bursting pressure), mild steel pressed reel with 170

degree swinging, nozzle of G M chromium plated, with non-jamming controlling handle which shall stay at the 'ON' 'OFF' position as set, wall brackets with 'U' shaped reel carrier made of CI complete with 25mm NB G M valve at the inlet, and orifice plate (if necessary for reducing pressure).

### **19.09. Fire-Brigade Connections**

Fire-Brigade connections (inlets) to hydrant Ring main shall be with one number of 63 mm instantaneous inlets for each connection as per TAC norms. Other aspects of the connection shall be as per IS 904.

### **19.10. Painting**

All external steel surfaces shall be thoroughly cleaned to remove rust, scale etc before applying the primer.

All underground piping shall be provided protective wrappings as per IS norms.

All over ground piping/hose boxes/landing valves/hose reel, M S frames etc shall be painted with two (2) coats of RED LEAD primer or equivalent synthetic enamel paint (two or more coats) or Bitumen paint (wherever required) on new work and also on the meeting point of existing & new work with P.O. red paint or Bitumen paint (wherever required) over a priming coat of approved steel primer complete as per direction of STC. followed by two coats of Post Office Red coloured Synthetic enamel finish paint.

c. All other equipment shall be given a red oxide/zinc chromate primer and two (2) coats of synthetic enamel.

### **19.11 SPECIFICATION (ELECTRICALS)**

Electric Motor driven fire pump shall start automatically through preset pressure switch to be located on the fire ring main at the lowest point at basement set for a maximum of 7 kgs/cm<sup>2</sup>.

ii) Stopping of fire pump shall be manual as well as automatic, as



described in 1.3.3.

- iii) Audio visual alarm shall be on when fire pumps starts/stops.
- iv) Power supply 'ON' indication shall be provided in the Fire Pump Control Panel.

### **19.12 Cables**

All power cables shall be multi core, 1100 V grade, PVC insulated, PVC sheathed, aluminium conductor cables manufactured and tested as per IS 1554 and ISI marked. All control cables shall be multi core, 1100 V grade, PVC insulated and overall PVC sheathed with copper conductor manufactured and tested as per relevant IS and ISI marked. Armoured power and control cables shall be only considered.

### **19.13 Installation accessories and earthing materials**

One lot of installation accessories and earthing material shall be installed for equipment and cables and earthing of equipment.

**19.14** The firm has to arrange “D “ Check maintenance of attached diesel Engine set with all associated accessories from OEM of the diesel Engine set .The works including replacement of battery of DG sets and will have to put the DG pump set in Electrical circuitry as per fire norms in auto mode . All the Electrical/ Electronic settings will have to as per fire norms. The work is comprehensive in nature in this regard. The firm will have ensured all corrective steps as necessary as per Fire norms. All electrical panels associated with the DG engine set / Hydrant system should be in working conditions as per norms. The decision of Engineer shall be final and binding.

## **20. LIST OF APPROVED MANUFACTURERS**

The contractor shall use materials in their works subject to inspection prior to dispatch, by STC or his authorized representative of any

materials, as deemed necessary in accordance with the following list. All materials not otherwise specified shall be in accordance with the latest Indian Standard Specification, where such exists and prior approval of STC. The contractor shall be bound to offer sample of materials, which are claimed to be conforming to IS Specifications, for testing at an approved Test Laboratory. The firm shall arrange the testing of the material in any approved lab in present of STC representative , however STC reserve the right to waive off such tests but the contractor will have to submit the test certificates in that condition. **All the expenses for testing the material including to and For Travel, lodging, lab fee etc. shall be borne by contractor.**

Contractor shall purchase all materials from the makers or their authorized stockiest only. Necessary documentary evidences must be produced to the STC or their authorized representative on demand. Contractor shall be bound to supply items of any make of the items as per the choice of the STC without any extra price. The list below is just an indicative and firm has to ensure to follow the relevant Indian Standard strictly in each item.

Sr. No	Materials	Indicative Make/Brand
1.	Antivibratory Pads	Matther &Platt / Grandfos/CRI
2.	CI Valves	Audco/Upadhyay/Kirloskar
3.	GM Valves	Mather and Platt / Grandfos/CRI
4.	Hydrant valves, Fire Brigade connections, GM branch pipes, couplings etc	Ghosh Engg/Minimax/Fireshield or any good brand with ISI Certification
5.	Fire Hoses	Jayashree' / New age/ CRC

6.	Hose cabinet	16 Gauge or above (sample cabinet to be Approved).
7.	Power/Control Cables	Polycab/Havell's/ Finolex
8	Push buttons	L & T/Siemens/Schneider
9.	Pressure Gauge	H Guru/Fiebig.
10.	Pressure Switches	Indfoss/Switzer/Danfoss
11	Auto Transfer switch	Havells/ GE/ Emersion
12.	Indication Lamps	L&T / Siemens/ Schneider / Havells
13.	Ammeter and Voltmeter , Selector switch	Automatic Electric /Rishabh / IMP/ Kaycee
14.	DOL/ Star delta , Contactors , relays, Aux. Transformers , SPP,MCCB ,Sequence current sensing	L&T / Siemens/ Schneider / Havells/ ABB
15.	Pipes MS/GI	Tata/ Jindal Hissar /SAIL
16.	Gun metal Valves	Leader/Sant/Zoloto
17.	Single headed hydrant Valves , Four way Fire Brigade inlet and shut off valves	Superx/Getech /Sukan
18.	Rubber pipe for hose reel	Jyoti/ Gates / Mitra /New age
19.	Sluice and Non return Valve	Kirloskar/ HD/ New age/ Sant
20.	Enamel paintings of pipes	Asian/ Goodlas Nerolac/ICI/ Berger
21.	Paint Primer	Asian/ Jenson Nicholson /Berger

22.	Fasteners	Haiti / Fischer
23.	Weld Rod	Advani/ Esab/Ador
24.	Ball valve, RB( itali )	Rotostar /Zoloto/Cim/Sant
25.	Butterfly Valve	Kirloskar/Audco /KSB
26.	Rubber Gasket	CIC/ Varuna
27.	Hose Drum	New age /Eversafe/Sukan/ Superex
28.	Mechanical seal	Duramettalic/sealol/ Kirloskar
29.	Strainer	Emerald/Grandpix
30.	Wafer type Non return Valve	Kirloskar/ New age /C&R / Advance
31.	Neulite Branch Pipe	Newage/ Minimax/ Angus
32.	Nus and Bolts	Lakshmi / Unbrako

## 21. CODES AND STANDARDS FOR PUMPS AND MOTORS

### 21.1 PUMPS

21.1.1 The pumps shall perform to the standards and codes as given below:

21.1.2 IS:1520 Horizontal centrifugal pumps for clear, cold and fresh water.

21.1.3 BS:599 Methods of testing pumps.

21.1.4 PTC:8 ASME Power Test Codes - Centrifugal Pumps.

### 21.2 MOTOR

21.2.1 The following codes shall be applicable for the motor.

21.2.2 IS:325 Induction motors, three-phase

21.2.3 IS:900 Induction motors, installation and maintenance, code of practice for

21.2.4 IS:7816 Guide for testing insulation resistance of rotating machines.

21.2.5 IS:4029 Guide for testing three phase induction motors.

## 22.0 FIRE FIGHTING ACCESSORIES

### 22.0 First Aid Hose Reel

22.1 The Hose Reel shall be drum type with hub wheel ties. The supply pipe shall be of aluminium alloy and be a part of the suspension assembly. The drum shall rotate freely on the assembly. The drum shall be fabricated from GI sheet of minimum 18 gauge thickness.

### **23.0 External Hose Cabinets**

23.01 Each hydrant / Fire Brigade inlet shall be housed in a Hose Cabinet of 0.6 M x 0.45 M x 0.3 M. The Hydrant Cabinet shall hold single headed hydrant, 2 nos. Hoses and 1 no. Branch pipes or Fire Brigade Inlets.

24.0 A brick pedestal with brick wall complete with plaster shall also be constructed for supporting the hose box. All surfaces shall be plastered with 1 : 4 ratio ( 1 cement : 4 fine sand ) mortar.

25.0 **Air Vessel** : Re-conditioning of Air Vessel with all necessary fixture as required.

### **26.0 Pressure Gauge**

26.1 The Pressure Gauge shall be constructed of die cast aluminum. It shall be weather proof with an IP 55 enclosure. It shall be a stainless steel Bourden tube type Pressure Gauge with a scale range from 0 to 16 Kg / CM square and shall be constructed as per IS: 3624.

### **27.0 Painting**

27.1 All Hydrant and Sprinkler pipes shall be painted with post office red colour paint. All pipes shall first be cleaned thoroughly before application of primer coat. After application of primer coat two coats of enamel paint shall be applied. Each coat shall be given minimum 24 hours drying time. No thinners shall be used. Wherever required all pipe headers shall be worded indicating the direction of the pipe and its purpose such as " TO RISER NO. 1 " etc. All necessary protection to adjacent objects shall be taken by the Contractor. Flanges, Nuts, bolts, Gate and Non Return Valves shall not be painted.

IS:554. Dimensions for pipe threads where pressure tight joints are required on the threads.

IS:638. Sheet rubber jointing and rubber insertion jointing.

**28.0** Any contradiction /clarification in scope of works or related to the supply of material described in the tender document, shall be resolved by the STC . The decision of the engineer in charge shall be final and binding to the contractor without any extra cost. It is presumed that the contractor has visited the site prior to quoting the bid.

THE STATE TRADING CORPORATION OF INDIA LIMITED  
JAWAHAR VYAPAR BHAWAN, TOLSTOY MARG, NEW DELHI  
JVB; NEW DELHI

**Price Bid**  
**(BILL OF QUANTITY)**

Supply , installation, testing commissioning (SITC) of pipes and associated auxiliaries after dismantling of existing Pipes and associated auxiliaries for Fire Hydrant System and deluge system in Jawahar Vyapar Bhawan, 1-Tolstoy Marg, Delhi

**(A) FIRE HYDRANT SYSTEM**

S.No.	Description	Unit	Qty.	Rate	Amount
1.	Providing & fixing black steel pipes to IS:3589 (8mm thick) including all fittings like Anchor Fasteners, couplings, bends, elbows, Tees etc. welding as required, painting with one coat of Red Oxide Primer and two or more coats of Synthetic Enamel Paint to give an even shade, cutting holes and chases in brick or RCC walls and making good complete.				
	A) 200 mm dia	Mtrs	275		
	B) 250mm dia	Mtrs	31		
	C ) 300 mm dia	Mtrs	100		
2.	Providing & fixing black steel pipes to IS:1239 (Heavy Class) including all fittings like Anchor Fasteners, couplings, bends, elbows, Tees etc. screwed joints as required, painting with one				

	coat of Red Oxide Primer and two or more coats of Synthetic Enamel Paint to give an even shade, cutting holes and chases in brick or RCC walls and making good complete.				
	A) 150 mm dia	Mtrs	800		
	( B ) 100 mm dia	Mtrs.	100		
	( C ) 25mm dia	Mtrs.	65		
3.	Providing & fixing standard mild steel flanges screwed or welded complete with 1.5mm thick compressed asbestos gasket, nuts, bolts and washers.				
	A) 300 mm dia	Each	56		
	B) 250 mm dia	Each	18		
	C) 225mm dia	Each	08		
	D) 200mm dia	Each	136		
	E) 150mm dia	Each	196		
	F) 100mm dia	Each	156		
	G) 80mm dia	Each	14		
4.	Providing & fixing gunmetal fire hydrant valve 100mm inlet with double outlets with individual controls and fitted with 63mm dia instantaneous female couplings on each outlet complete with office flange	Each	78		



	as required, blank cap and chain locations, as per drawings (inlet flanged to IS :5290-1969 Class C).				
5.	Providing & fixing First Aid Fire Hose Reel wall mounting swinging type fitted with 36.5 meter x 12mm dia high pressure Dunlop Hose to IS:5132 with 5mm outlet gunmetal nozzle with shut off valve (IS: 884-1969)	Each	78		
6.	Providing & fixing 63mm dia 15mm long rubberized fabric lined hose including gunmetal male & female instantaneous type coupling approved by Fire Authority, machine wound with GI wire complete in all respects hose to IS:636 Type II and coupling to IS:903-1975 with ISI Certification.	Each	326		
7.	Providing & fixing standard short size gunmetal branch pipe with gunmetal nozzle 16 mm dia outlets with standard instantaneous type 63mm dia coupling.	Each	163		
8.	Providing & fixing standard Fireman's Axe with heaving insulated rubber handle.	Each	78		
9.	Providing & laying Black steel pipes to IS:1239 (Heavy Class) including all fittings like coupling, elbows, bends, Tees, etc. complete including earth work and pipe protection as per specifications.	Mtrs.	350		
		Mtrs.	50		

	A) 200 mm dia  B) 80 mm dia				
10.	Providing & fixing stand post fire hydrants conforming to IS:908 with 63 mm dia gunmetal instantaneous type single outlet. CI duck foot bend and flanged riser or required height complete.	Each	07		
11.	Providing & fixing gunmetal fourway collecting head with 63mm dia instantaneous type inlet and 150mm dia flanged outlet with built in check valve for Fire Brigade connection to underground tank and Fire Risers (IS:904-1965).	Each	06		
12.	Providing & fixing single acting air valve with screwed inlet 25mm dia.	Each	06		
13.	Providing & fixing gunmetal fullway valve with CI wheel, screwed female ends conforming to IS:778-1971 Class-III for Hose Reels.  A) 20 mm dia	Each	78		
14.	Providing & fixing cast steel double flanged horizontal type non-return valves including nuts, bolts, 1.5mm thick compressed asbestos gasket complete to BS:1868.				
	A) 200 mm dia	Each	03		

	B) 150 mm dia	Each	02		
	C) 100mm dia	Each	01		
15.	Providing & fixing cast steel double flanged sluice valves with wheel complete nuts, bolts, 1.5mm thick compressed asbestos gasket (Kirloskar, Burn or IVC to API 600 Class 300).				
	A) 300 mm dia	Each	03		
	B) 250 mm dia	Each	02		
	C) 225mm dia	Each	02		
	D) 200mm dia	Each	14		
	E) 150mm dia	Each	06		
	F) 100mm dia	Each	09		
	G) 80mm dia		07		
16.	Constructing brick masonry chamber 120 x 120 x 100 cms. Inside with 75 Class designation brick work in cement mortar 1:5 (1 cement : 5 fine sand) for valves and sluice valves with CI frame and cover 60 X 45 cms. RCC top slab 1:2:4 (1 cement : 2 coarse	Each	11		

	<p>sand : 4 graded stone aggregate 20mm nominal size) necessary excavation. Foundation concrete 1:5:10 mix (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement as per standard design.</p>				
17.	<p>Providing &amp; fixing MS structural work fabricated from standard sections e.g. MS rounds, angles, channels including cutting to size, drilling, welding, fixing and welding to insert plates in RCC structural members as directed by Engineer-in-Charge including cutting and making good walls and floors complete with one coat of primer and two coats of black enamel paint.</p>	Tonne	06		
18.	<p>Providing &amp; fixing Anchor Blocks of concrete 1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) for CI specials including necessary excavation, shuttering and centering complete.</p>	CUM	05		
19.	<p>Providing &amp; fixing 400 mm dia MS plate 8mm thick rolled and welded pipe suction header with four inlets of 200 mm dia and two outlets of 225mm dia, one outlet of 200 mm dia and one outlet of 100mm dia. All</p>	Mtrs.	10		

	outlets and ends with flanges connections blank flanges as required common for Fire Hydrant & Sprinkler System including painting with one coat of Red Oxide Primer and two or more coats of synthetic enamel paint to give an even shade.				
20.	Providing & fixing 400 mm dia Delivery Header fabricated from 8mm thick MS plate rolled and welded, suitable for 14.6 kg/Sq.cm. working pressure, painted with one coat of red oxide primer and two or more coats of synthetic enamel paint to given an even finish (for Fire Hydrant Pumps) with two inlets of 200mm dia, one inlet of 100mm dia, one outlet of 300mm dia, one outlet of 250mm dia, one outlet of 200mm dia including interconnection with the Sprinkler Delivery Header. All outlets and inlets to be provided with MS flanges, the cost of which shall be included in the rate of Header.	Mtrs.	08		
21.	Providing & fixing 200 mm dia Delivery Header fabricated from 8mm thick MS plate rolled and welded, suitable for 14.6 kg/Sq.cm. working pressure, painted with one coat of red oxide primer and two or more coats of synthetic enamel paint to give an even finish (for Sprinkler Pump) with	Mtrs.	06		

	two inlets of 200mm dia, two outlet of 150mm dia including cost of MS flanges for all inlets and outlets complete.				
22.	<p>Providing &amp; fixing 100 mm dia SS Pressure Reducing Valves for the following duties :-</p> <p>LIQUID TO BE HANDLED WATER</p> <p><b>D) <u>MIDDLE ZONE</u></b></p> <p>Inlet pressure = 14.6 kg/Sq.cm.  Outlet pressure=11.5Kg/Sq.cm.</p> <p>Rate of flow through Valve = 2800 LPM</p> <p><b>E) <u>LOWER ZONE</u></b></p> <p>Inlet pressure = 14.6 kg/Sq.cm.  Outlet pressure=8.5Kg/Sq.cm.</p> <p>Rate of flow through Valve = 2800 LPM</p> <p><b>F) <u>SPRINKLER SYSTEM</u></b></p> <p>Inlet pressure = 14.6 kg/Sq.cm.  Outlet pressure=5Kg/Sq.cm.</p> <p>Rate of flow through Valve = 2250 LPM</p>	Each	01		
		Each	01		
		Each	01		

23.	Providing & fixing resilient rubber neoprene lined single arch vibration eliminators suitable for raw water up to 45 deg. C. temperature working pressure 14.6 kg and test pressure 22 kg per square centimeter .				
	A) 200 mm dia	Each	07		
	B) 100 mm dia	Each	01		
24.	Providing & fixing fire hose cabinet fabricated from 16 gauge MS sheet with single or double glazed front door and locking arrangement, painted Fire Red with stove enameled paint "Fire Hose" written on front including necessary supports pprox.. size 900 x 600 x 300 mm deep (to house two lengths of canvas hose with couplings, branch pipe and nozzle for external hydrants).	Each	07		
25.	Providing & fixing fire hose cabinet fabricated from 16 gauge MS sheet of fully welded construction with hinged double front door and locking arrangement and partially glazed with 4mm thick glass, stove enameled Fire red finish with "Fire Hose" written on front suitable to house 4 x 15 M canvas hose with couplings, two branch pipes one Fireman Axe, First Aid Fire Hose Reel and one Fire	Each	12		

	Extinguisher (for basements only).				
26.	Providing & fixing suction strainer with MS flanged connection 200mm dia and 1000 mm long fabricated from 16 gauge brass sheet with 3mm slots.	Each	04		
27.	Major Overhauling of Pumps and Motors on comprehensive basis (including supply of spares needed for the same if any)	No.	06		
28.	Testing, commissioning of Fire hydrant – motors, pumps, including materials repairs, major overhaul. -20 HP- Jockey , -180 HP main Fire pump -180 hp diesel engine and Pump.	each	03		
29	<b>Total</b>				
30	Buy Back Cost of dismantled material of existing Fire Hydrant along with Dismantling of existing fire Hydrant system	Lot	01		
31.	<b>G. Total ( 29-30)</b>				
In words Rs. .....					



**(B) Fire deluge system**

Sr. No.	description	Unit	Qty.	Rate	Amount
1.	Providing and fixing Black steel pipes to IS 3589(8.00 mm thick) including all fittings like anchor fasteners, couplings, bends elbows, tees etc. welding as required. Painting with one coat of red oxide primer and two or more coats of synthetic enamel paint to give an even shade, cutting holes and chases in brick or RCC Walla and making good complete.				
	(a)200 mm	mtr	200		
	(b) 225 mm	mtr	5		
2.	Providing and fixing Black steel pipes to IS 1239 – heavy class including all fittings like anchor fasteners, couplings, bends elbows, tees etc. welding as required. Painting with one coat of red oxide primer and two or more coats of synthetic enamel paint to give an even shade, cutting holes and chases in brick or RCC Walla and making good complete.				
	(a) 150 mm	mtr	450		
	(b) 100 mm	mtr	75		
3.	Providing and fixing standard Mild steel flanges screwed or welded complete with 1.5 mm thick compressed asbestos gasket , nuts , bolts and washers				

	(a) 225 mm	Each	4		
	(b) 200 mm	Each	42		
	(c) 150 mm	Each	86		
	(d) 100 mm	Each	12		
4.	Providing and fixing single acting air valve with screwed inlet 25 mm dia.	Each	01		
5.	Providing and fixing cast steel double flanged sluice valve with wheel complete with bolts , nuts, 1.5 mm thick compressed asbestos gasket API 600 CLASS 300				
	(a) 225 mm		1		
	(b) 200 mm		3		
	(c) 150 mm		7		
	(d) 100 mm		2		
6.	Providing and fixing cast steel double flanged horizontal type non return valves ( including Nuts, Bolts, 1.5.Mm Thick Compressed Asbestos Gasket Complete To B.S. 1868)				
	(a) 200 mm		1		
7.	Providing and fixing M.S. Structural work fabricated from standard sections E.C.M.S. rounds angles, channels, including cutting , to size drilling , welding , fixing and welding to insert plates, in RCC structural members as Directed by Engineer in charge , including cutting and making good walls and floors complete with one coat of primer and two coats of black enamel paint.	Tonne	1.8 tonne		
8.	Providing and fixing resilient rubber neoprene lined single				

	arch vibration eliminator suitable for raw water up to 45 deg c temperature, working pressure 14.6 kg/cm <sup>2</sup> and test pressure 22 kg/cm <sup>2</sup>				
	(a) 225 mm dia	No.	1		
	(b) 200 mm dia	No	1		
9.	Providing and fixing Horizontal single / Multi stage single/ multi outlet pumping set with bronze impeller with C.I. Body and connected by flexible coupling to a totally enclosed Fan cooled I.M. mounted on a common structural base plate with all pump accessories complete as per specification's motor to be suitable for 415 V , 3 phase , 50 cycles AC supply . capacity 2250 LPM head 70 m, H.P. 60	No.	1		
10.	Providing and Fixing pressure switch for starting pump on drop of 1kg/cm <sup>2</sup> pressure	each	1No.		
11.	Providing and fixing electrically operated shut off valves ( Normally closed) with appropriate number of heat detectors, digital temperature scanners suitable to take the required number of incomers from heat detectors ( the valve to be opened when the temperature crossed the pre set limit ) wiring from detectors to scanners and flush mounted panel				

	complete				
	(a) For 100 mm dia pipe	No	1		
	(b) For 150 mm dia pipe	No	1		
12.	Providing 5 mm dia holes at 900 mm centers along the length of heavy class mild steel pipes 100 mm and 150 mm dia	meters	450		
13.	Major overhauling of pump and motor ( 55 kw ) of deluge system including all servicing and material, testing the afterwards	No	1		
14.	Total				
15.	Buy Back Cost of dismantled material of existing Fire Deluge system along with Dismantling of existing fire Deluge system	Lot	1		
16.	G.Total .( 14-15) (Rs.)				
	In words Rs.				
	.....				
	.....				

**( C ) Total A(31) + B(16) = Rs .....**

**In words Rs**

.....

**Signature, Name and seal of the**

**bidder**

1. The price comparison shall be done on the basis of ( C ) i:e Total Cost of the work A(31) + B(16)

2. All statutory taxes as applicable will be reimbursed extra on providing original challans as documentary evidence of deposition of the same to the statutory body.

3. No other format of price submission shall be accepted. Bidder should sign on every page of the bid.
4. The bidder is required to quote for the complete work, though STC reserve the right to award the work in full or in part.
5. Bidder quoting for only one part of the above shall not be considered.
6. The offer shall be valid for 90 days from the date of tender opening.
7. Leaving an unfilled entry in the price bid against any term shall mean as Zero cost and the bid shall be evaluated accordingly.
8. Cost of dismantled material shall be treated as "Sale of scrap" by STC. Tax liability shall be borne by the contractor accordingly.

(Deputy General Manager –E )  
State Trading Corporation of India Ltd

**State Trading Corporation of India Ltd.**

**(Data to be filled by the bidder)**

**Name of the Contract / Work:** - Supply , installation, testing commissioning (SITC) of pipes and associated auxiliaries after dismantling of existing Pipes and associated auxiliaries for Fire Hydrant System and deluge system in Jawahar Vyapar Bhawan, 1-Tolstoy Marg, Delhi

Sr. No.	Particulars	
1.	Name and Address of the Firm	
2.	Details of <b>Similar</b> Past work experience	
3.	Annual turnover of last three 03 (FY) years (Rs.)	
	2015-16	
	2014-15	
	2013-14	
4	Average Annual turnover of last three 03 FY as above years (Rs.)	
5.	GST No.	

6.	P.F No.	
7.	PAN No.	
8.	Net worth during last above 3 Financial years as above	
9.	Satisfactory performance certificates for the mentioned works	
10	Non- Black-listing certificate, Affidavits enclosed	
11.	Registration No. for MSME/NSE for availing the benefit of preferential purchase policy	
12.	Details of tender document fee (Rs. 5000.00 ( including Taxes)	
13.	Details of EMD (Rs. 4.25 Lakhs)	
14.	Complete Bid document signed , filled ( wherever necessary) and stamped as a token of acceptance	

**-The bidder has to upload the scanned and digitally signed copies of all relevant documents as mentioned above.**

**Price bid (Bill of quantities ) has to be quoted and put in separate envelope online . Technical bid and Price bid have to be put up in separate folders online only.**

### Summary of Past Work Experience

Sr No.	Name of Work Order awarding organisation	PSU/ GOVT./ Semi Govt./ State PSU/Autono mous body	Value of the work ( annual basis) Rs. Lacs	Duratio n ( from.. to....)	Details, nature of work ( as per requirement of satisfaction for Tender evaluation criteria	Satisfact ory completi on certificate attached (Y/N)
1.						
2.						
3.						

Name and Signature of Contractor with seal

Note: - Separate sheets may be attached for furnishing the past work details