

The State Trading Corporation of India Ltd.
(A Public Sector Undertaking)
Under the Ministry of Commerce and Industry (Govt. of India.)

Tender /Bid document for

Two part bidding process for **open e-bidding process** from competent Bidder/contractors/firms , for the work of Comprehensive routine, breakdown, operation & Maintenance of water cooled (2x 750 TR), Air cooled (1x 175 TR) and associated system of Central HVAC (Heat , Ventilation & air conditioning) system installed at Jawahar Vyapar Bhawan,1-Tolstoy Marg, Connaught Place , Delhi.

It is to be noted that bidder shall not disclose any Confidential Information to any third party without STC's prior written consent. All Confidential Information is and shall remain the property of the STC which has supplied it to the Bidder and Bidder shall not use, or permit to be used, any Confidential Information of STC other than in connection with the purpose contemplated by this Tender/EOI/Bid Document. Confidential information shall not be limited to the Tender Documents or any Invitation to offer but covers communications between STC and Bidder/s pertaining to the period starting from bidding process and up to selection of the successful bidder or the period as decided by STC at its sole discretion.

Contact person for any clarification.

R K Avasthi (DGM-Electrical)/Rajesh (Manager-Elect.)
The State Trading Corporation of India Ltd.
1-Tolstoy Marg, Jawahar Vyapar Bhawan,
Connaught Place, New Delhi-01
Ph -011-2346-2400
E mail : rkavasthi@stclimited.co.in/rsingh@stclimited.co.in,

Bid Ref : - STC/CO/BLD-E/F01117/2019/D 728 / Dated 14/05/19

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The State Trading Corporation of India Ltd.

(A Public Sector Undertaking)

NOTICE INVITING BID- E Bid Process

Bid Ref: - STC/CO/BLD-E/F01117/2019/D 728 / Dated 14/05/19

1. Bids are invited in two part bidding process **online (e-bidding process)** via open bid process from competent Bidder/contractors , for the work of Comprehensive routine, breakdown Maintenance of water cooled (2x 750 TR), Air cooled (1x 175 TR) and associated system of Central HVAC (Heat , Ventilation & air conditioning) system installed at Jawahar Vyapar Bhawan,1-Tolstoy Marg, Connaught Place , Delhi.
2. **. The bids have to be submitted on-line only.**

Sr. No.	Particular	Details
1	Bid issue and filling site	www.eprocure.gov.in
2.	Bid document fee	Rs.1000.00 (including GST)
3.	Bid floating date	14/05/19
4.	Last Date of issue of bid document	03/06/19
5.	Last Date and time of submission of scanned bid documents with all necessary documents on the e bid portal	03/06/19, 3:00 PM
6.	Date and time of opening of bid (Technical Bid-Part-1)	03/06/19 , 3:30 PM
7	Venue of opening	eprocure.gov.in.
8	Date and time of opening of Price Bid of bid (Part-II)	Shall be intimated later to the successful bidders in technical bid.
9.	Amount of earnest money to be deposited (EMD)	Rs. 1,00,000=00
10.	Submission of EMD and non-refundable	The EMD & tender fee (if

	bidding fee.	<p>applicable) have to be deposited online prior to closing time of bid, as per below. The details of the same have to be uploaded with tender document.</p> <ol style="list-style-type: none"> 1. Name of Bank :- Indusind Bank, Barakhamba Road, New Delhi-110001 2. Name of beneficiary :- The State Trading Corporation of India Ltd., New Delhi-110001 3. Account No. :- 200000550077 4. IFSC:- INDB0000005
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Note :-

1. Any Deviation from bid conditions shall result into technical disqualification.
2. All the bid documents should be signed by the bidder as a token of acceptance and shall be uploaded in PDF format on-line in two packet system.
3. If the dates mentioned above happens to be 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-bid

1. Bids are invited via open bid process for Comprehensive routine, breakdown Maintenance of water cooled (2x 750 TR), Air cooled (1x 175 TR) and associated system of HVAC (Heat , Ventilation & air conditioning) system installed at Jawahar Vyapar Bhawan,1-Tolstoy Marg, Connaught Place , Delhi.
2. Bids have to be uploaded 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 and true. Bidders have to abide by all the terms and conditions mentioned during registration process.
4. The details of financial instrument (Tender fee, EMD) needs to be uploaded during the e-bid submission and it should tally with the amount received as required, 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 upload the on line bids well before the bid document submission end date and time (as per server system clock of CPP). STC shall 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 bid, 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 bid in newspapers.

9. Portal for Online Submission www.eprocure.gov.in
10. Scanned copy of all the documents as required for bid submission have to be uploaded online only. No physical submission of documents will be required for bid submission.
11. 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-bidding portal and upload/resubmit digitally signed modified bid.
12. STC may ask the bidders to submit any or all the documents in original as part of their online bid anytime during the bid process.
13. 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.
14. It shall be the bidder's responsibility to ensure that adequate documentary proof is provided in the bid for each of the technical evaluation criteria. Bidder has to satisfy STC for ensuring sufficiency of documents necessary for tender evaluation at his cost if so desired by STC.
15. The bid document available on e- procurement portal shall be taken as final. STC reserves the right to ask for more document as "Clarification/supporting" only for verification of the uploaded documents. Decision of STC will be final and binding in this regard.

DEFINITIONS

1. "Application" shall mean the request submitted by interested parties for obtaining the bid document against the tender notice inviting bid.
2. 'Bid document or the tender document shall mean the documents (including notice inviting tender) issued by STC in respect to the bidding to the prospective bidder. And the corresponding document submitted by the bidder under his application /"Bid
3. 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" 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 as 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 its 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.
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 agreement.
13. 'STC' shall mean The State Trading Corporation of India Limited having its

registered office at Jawahar Vyapar Bhawan, 1-Tolstoy Marg Connaught Place, Delhi

14. The Contractor shall mean the sole proprietor, or firm or company, 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 who shall be in charge of the work, and issue necessary instructions at the site, on behalf of STC.
16. "Performance Security/Performance Bank Guarantee" shall mean the security amount to be paid by the successful bidder as per relevant clause mentioned in the bid document. provided by the contractor for performance of the contract
17. "Work" means Comprehensive routine, breakdown Maintenance of water cooled (2x 750 TR), Air cooled (1x 175 TR) and associated system of Central HVAC (Heat , Ventilation & air conditioning) system installed at Jawahar Vyapar Bhawan, 1-Tolstoy Marg, Connaught Place , Delhi.
18. "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.
19. "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 agreement.
20. "Scheduled Banks" mean Scheduled Commercial Banks of Govt. of India.
21. Order placing authority means: - The officer who is issuing or Placing detailed work order to the contractor
22. GST :-Any tax imposed under the Goods and service Tax

Tender Evaluation Criteria.

NAME OF WORK :- Comprehensive routine, breakdown, Operation & Maintenance of water cooled (2x 750 TR), Air cooled (1x 175 TR) and associated system of Central HVAC (Heat , Ventilation & air conditioning) system installed at Jawahar Vyapar Bhawan,1-Tolstoy Marg, Connaught Place , Delhi. Only those Bidder/contractors will qualify in techno commercial Evaluation/ Technical Evaluation (Part-1), who possess the following minimum pre-qualifying requirements. The prospective bidders have to upload self-attested documents in PDF format in support of their qualification.

1. The bidder should have following experience of Operation and Comprehensive Maintenance in following area in any PSU/ Government./ Semi Government./ State Public sector undertaking/ Government Autonomous bodies during last 7 years preceding from 30/04/19.
 - (a) Operation and Comprehensive maintenance for Central water cooled/air cooled HVAC plant of totalling minimum 1250 TR capacity in a single location/installation/office.

The bidder may be asked for detailed contract document/work order(s) for the verification of the above during tender evaluation process.
 - (b) The bidder must be the authorized dealer /service provider or having Consent/MOU from OEM of Chillers (M/s Carrier) for comprehensive AMC of high pressure side of HVAC system for site (STC) to ensure genuine services. Documented proof must be uploaded.
2. A certificate of satisfactory completion by the order placing authority or higher authority shall only be considered against the works submitted for experience purpose at Sr. No.-1.

For the contractors worked in STC, satisfactory performance certificate during their final one year must be enclosed for this purpose.
3. The bidder should be financially capable for execution of the work as per NIT specifications.

For this purpose Average annual turnover during last three financial years (2017-18, 2016-17, 2015-16), should be at least Rs 20 Lakhs .for the verification purpose, financial statement i:e Profit & Loss account (P & L) sheet and Balance sheets for above Years should be uploaded . These financial statements should be properly authenticated by Chartered accountant.
4. Experience of having successfully completed the similar works (works mentioned at Sr. No 1) during last 07 years counted proceeding from 30/04/19 -
 - (a) Three (03) nos. of similar completed works each costing not less than the amount equal to Rs. 21 lakhs per year
“ Or”
 - (b) Two (02) Nos. of similar completed works each costing not less than

the amount equal to Rs. 26 lakhs per year

“ or “

- (c) One(01) No .of similar completed work costing not less than the amount equal to Rs. 41 lakhs per year.

Similar work means Comprehensive routine, breakdown, Operation & Maintenance of water cooled/ Air cooled and associated system of Central HVAC (Heat , Ventilation & air conditioning) of minimum total capacity of 1250 TR in single location/office.

5. Bidder should upload the following with the bid.

- (a) Copy of GST Registration
- (b) Copy of PF registration
- (c) Copy of PAN card
- (d) Certificate of Non-Blacklisting /debarring from PSU/Govt. / MNC as per bid document
- (e) ESI Registration
- (f) Electrical License from statutory authority for voltage level 3 phase 415 v minimum.
- (g) Proof of depositing EMD, Tender fee online or Registration with MSME/NSIC for availing preferential purchase policy 2012. (For availing exemption from EMD and bid fee).
- (h) Authorized signatory certificate.
- (i) Complete bid document (scanned, signed by bidder) as a token of unconditional acceptance of bid document.

Note:-

- 1. The technical evaluation of the bids shall be done on the basis of above criteria. Further the bidder should also follow other terms of the tender documents.
- 2. STC reserve the right to verify the certificate(s) submitted by the contractor directly from the issuing authority/authorities/clients or any other Bidder/contractor/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 fails, STC reserve the right the reject the bid at any stage.

PROFORMA – I
Letter for submission of bid

From:-----

To

The Deputy General Manager (Elect.)
General Administration Division-Building Cell
The STC of India Ltd.
Jawahar Vyapar Bhawan
1, Tolstoy Marg, New delhi-110001.

Sir,

1. I have examined the conditions as incorporated in the Bid 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 bid,
2. Should this bid 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 for a period of 12 months within the period specified under bid documents/contract. If I do not commence the work at site within 07 days from the date of award of work, STC may take punitive action against me as deemed fit including debarring/ Holidaying / Blacklisting , for 2 years and/or Forfeiture of EMD .
3. I/We agree to abide by this bid for a period of **60 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. I/We agree to inform you that whenever there is a change in my permanent, correspondence address for communication including electronic mail, I/we will inform STC immediately. I/We also agree that communication through electronic

mail as mentioned in my bidding KYC form will be as good as by registered/
speed post

5. I/We agree that 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 work, 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.
7. Name of the One representative of the Bidder/contractor at site
 - (a)-----Sign
 - (b)----- Sign

Yours Faithfully,

Signature of the Bidder (who will sign the agreement with
STC)

Permanent address -----

.....

Local address:-----

.....

Email address

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 bids submitted by bidders will be subject to verification of all information furnished for bid evaluation during the bidding process.

Signature of Authorized representative of the bidder.

PROFORMA – 2

Letter for Un-conditional acceptance of Bid Conditions

The Deputy General Manager (Elect.)
General Administration Division
The State trading Corporation of India Ltd.
Jawahar Vyapar Bhawan,
Tolstoy Marg,
New Delhi-110001.

Subject: Unconditional acceptance of Bid Conditions

Dear Sir,

1. I/We have read and examined 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 undertake to execute the above items strictly in accordance with the requirements and particulars /Specifications stipulated in the bid documents.
3. 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 after bid submission.
 - (b) I/we have quoted for the complete scope of the said work
4. I/we undertake to abide by the terms and conditions as stipulated in STC bid documents and as amended thereafter before award of work.
5. I/We have not enclosed any condition/deviation to conditions of Bid documents in the envelope containing Price Bid.
6. 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.
7. This undertaking is in consideration of STC to open my bid and considering and evaluating the same for the purpose of award of work in terms of provision of bid documents.

Name -----

Designation-----

PROFORMA – 3

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

This is to certify that We, M/s. _____ in submission of this offer confirm that

1. We have not made any misleading or false representation in the forms, statements and attachments in proof of the bid evaluation criteria.
2. We do not have records of poor performance such as abandoning the work, not properly completing the contract, work in-completion, fail to comply statutory compliances related to any contract, inordinate delays in completion, litigation history with STC 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 during last 3 years proceeding from the last date of bid submission. .
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 bid 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 any fraudulent document/information either in present or past bids due to which, STC can invokes its right to disqualify us/me or take any action as deemed fit such as forfeiture of EMD/ debarring of business for 2 years.
7. There has been no judgement/award by tribunals/orders if any against us/me pertaining to cheque bounce/dishonour/damage or commercial disputes.

Signature of Authorized representative of the bid

Bidder's stamp

General Conditions Section "A"

INSTRUCTION TO BIDDERS:-

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

1.0 PREPARATION OF BID:-

1.01 Before submission of the bid, the Bidders are requested to have themselves fully conversant with the Tender Evaluation Criteria "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.

1.02 Only such persons/firms/company need to submit bids which meets the Tender evaluation criteria as laid down in the bid documents and which can submit satisfactory evidence in that regard.

1.03 The Corporation reserves the right to revise, amend or cancel the bid documents prior to the date notified for closing to the bids & also the right to postpone the date for presentation and opening of bid without assigning any reason.

1.04 The terminated/debarred/ Black listed bidders from any Govt./Semi Govt./ /PSUs/. are not allowed to participate in the bid (Performa 3).

1.05 If the Bidder deliberately furnishes wrong information in his bid, the bid would be liable to be rejected out rightly at any stage and the security deposit and/or EMD shall be forfeited and/or may be debarred for business for 2 years.

1.06 Bid document are not transferable. JV (Joint Ventures) firms/companies are not allowed to participate in the bid. Not more than one bid for the work shall be submitted by one contractor.

1.07 The Corporation shall not be liable for expenses incurred by the Bidder in the preparation of the bid whether the bid 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 (First Lowest) bidder shall be decided on the basis of price quoted in the price bids section as dictated therein.

1.10 Bids submitted by courier/post / manual submission shall be rejected. Only electronic submission (online) is accepted.

1.11 Part Bid submissions shall be rejected. .

1.12 The bid is to be furnished in two parts i.e. PART-I (Techno-commercial bid) & PART-II (Price Bid); All the bid document digitally signed accompanied by documents in support of tender evaluation criteria / bid enquiry , scanned copy of financial instrument (for EMD and bid fee) should be uploaded to the <http://eprocure.gov.in/eprocure> . Price bid section (Part II) has also to be uploaded in PDF format on e-mode only in separate folder (online). No other document has to be attached with Price bid. .

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

1.14 The bidder who's Part-I (Techno- Commercial bid) bids have been found acceptable, shall be intimated via e-procurement portal for opening of price bid opening.

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 work 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 bid process.

2.0 Earnest Money ,Cost of bid document:-

2.01 Before submitting the bid, the Bidder will have to deposit EMD, Tender document fee, online prior to closing time of bid, as per below. The details of the same have to uploaded with tender document.

1. Name of Bank :- Indusind Bank, Barakhamba Road, New Delhi-110001
2. Name of beneficiary: - The State Trading Corporation of India Ltd., New Delhi-110001
3. Account No. :-200000550077
4. IFSC:- INDB0000005

2.02 Any bid not accompanied with EMD or cost of bid document is liable to be rejected unless they are exempted under any notification / rule. Those bidders exempted for depositing EMD/tender fee have to upload scanned copy of relevant certification of the same .

2.03 In case of unsuccessful bidders the earnest money will be refundable on application after award of work to the successful bidder. Bid document fee is non-refundable.

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

2.05 No interest shall be payable on earnest money deposits.

2.06 Participation in the bid process without cost of bid document and/EMD shall be permitted only for those Bidder/contractors who are exempted /notified via any statutory/ Govt. body. Those firms should deposit the concerned notice /document/Certificate showing exemption, along with the bid submission. Purchase and Price Preferential policy 2012, as declared by the Central Govt. regarding MSEs (Micro and small Enterprises) /MSMEs / NSIC shall be followed for exempting bidders for EMD, Tender fee.

2.07 The bidder shall treat the details of specification and other bid documents as private and confidential and they shall not be reproduced anywhere without the written authorization of the Corporation

3.0 RECEIPT OF BIDS:-

3.01 The bids should be filled on line as detailed above. No other form of bid/document submission shall be accepted.

4.0 DEVIATIONS:-

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

6.0 VALIDITY OF BID:-

The bid shall remain valid for 60 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 60 days without obtaining any confirmation from the bidder.

8.01 CANVASSING: - No Bidder shall canvas any official/Officer with respect to his or other bid. Contravention of the condition will result in rejection of the bid.

GENERAL CONDITIONS

SECTION – B

The bidder shall be deemed to have carefully examined & made himself fully conversant with the general conditions, specifications, schedules, scope of work and site conditions etc. before submitting the bid. If he has any doubt as to the meaning of any portion of the general and special conditions of bid specifications or about any point regarding site conditions, he may seek necessary clarification before submitting his offer/bid from the State Trading Corporation of India Limited.

1.00 ACCEPTANCE OF BID:-

STC is not bound to accept the lowest bid or any other bid and may accept or reject any bid, and/or annul the bidding process and reject all bids, at any time prior to award of work, without thereby incurring any liability from the affected bidders nor shall STC have any obligation to inform the affected bidder or bidder of the grounds for STC's action.

2.0 CONTRACT DOCUMENT

The order placed under specifications given under the Bid document /Notice for invitation shall be governed by terms and conditions as incorporated in this tender document specifications and as given in the 'Work order' and its Annexure (s). The terms and conditions specified under contract in this section if differ from the terms as indicated in the work order and its Annexure(s), the later shall prevail. For the due fulfilment of the performance of the award of the work, the contractor shall execute an agreement in duplicate in the prescribed format (attached in the bid document) on non-judicial stamp paper worth **Rs. 1000/-** (Purchased on the name of " The State Trading Corporation of India Limited" by the contractor) . Such agreement shall be executed & signed by the authorized representative of the contractor on each page thereof. The original copy is to be executed on the non-judicial stamp paper. The remaining copy may be executed on simple paper. Such complete agreement along with the bid document shall be required to be submitted to the STC within a period of 15 days from the dispatch date on the detailed work order from STC. No payment to the contractor shall be released by STC without execution of the agreement. One copy of the accepted agreement duly signed by STC representative officer shall be given to the contractor for his reference.

The documents to be submitted along with the agreement shall include the followings:-

- (i) Detailed work order and its annexure.
- (iii) NIT and bid document

All the charges in respect of execution of the agreement shall be borne by the contractor.

3.00 CORRESPONDENCE: -

All correspondence pertaining to the work order in respect of any clarification required on the terms and conditions, contract, scope of work etc, should be addressed to the Deputy General Manager-Electrical, STC of India Ltd. New Delhi.

4.00 CHANGE OF NAME OF BIDDER / CONTRACTOR: -

4.01 At any stage after bidding, the order placing authority shall deal with bidder / contractor only in the name and at the address under which he has submitted the bid. All the liabilities / responsibilities for due execution of the contract shall be that of the contractor. Under no circumstances he shall be relieved of any obligations under the contract. STC may however, at its discretion deal with the agent / representatives / sister concern and such dealing shall not relieve the contractor from his responsibilities / obligations / liabilities to the STC of India Ltd. under the contract. Any change/ alteration of name / constitution / organization of the contractor shall be duly notified to the order placing authority. Order placing authority reserves the right to terminate the contract in case of such notification. In the event of such termination, the STC of India Ltd. may get the portion of work or whole piece of work, not executed by the contractor or done in violation of the contract; get it executed from elsewhere at the risk and cost of the contractor. In such condition, security deposit of the contractor will be forfeited.

5.00 SUB-Contracting: -

No sub-contracting by the contractor shall be accepted. Any sub-contracting shall be treated as a breach of contract and conditions of this agreement, and the security deposit, if any, shall be forfeited.

6.00 INTERPRETAION OF CONTRACT: -

The contract shall in all respect be deemed to be and shall be construed and interpreted in accordance with the laws on India.

7.00 ACCEPTANCE OF THE ORDER: -

The acceptance of the detailed work order by the final bidder should be conveyed to STC within 07 days of receipt of the order failing which it will be presumed that the terms and conditions incorporated in the detailed work order have been accepted by the contractor.

8.0 SECURITY DEPOSIT: -

8.01 The successful bidder shall have to deposit a security amount @ 10% of the contract value for one year contract period which should be deposited online as detailed in the document, in account of The State Trading Corporation of India Ltd., New Delhi within 07 (seven days) after award of work. Amount of Earnest Money Deposited (EMD) shall not be adjusted in this Security deposit amount and will be returned on request of the bidder. In case of non-deposition of security deposit as mentioned, STC reserve the right to cancel the bid and EMD deposited will be forfeited, further such contractor will be debarred for business for 2 yrs. STC reserve the right to recover the cost of publication of advertisement from such debarred bidders from any other deposits of the bidder. Further in case of those bidders who have availed EMD, Tender fee exemption under MSME preferential purchase policy 2012, STC reserve the right to pursue suitable statutory body for taking necessary action including Blacklisting , debarring from business etc against such defaulters bidder as deemed fit.,

8.02 Unless otherwise specifically required to be retained / forfeited by STC of India Ltd. in part or full, the security deposit shall be refundable on the request of the contractor after one year of completion of the entire contract **to the satisfaction of the STC of India Ltd.** and on submission of annual return of EPF, ESI, Other statutory dues, and annual contribution slips of individual workers engaged during the term of contract. STC reserve the right to get cross check the validity of deposit of statutory dues in respective statutory body(s) at contractor's cost.

8.03 If the contractor fails and neglects to observe or perform any of the obligation/ conditions under the contract it will be lawful for the STC of India Ltd.to forfeit either in whole or in part, at its absolute discretion, the security deposit and/or other deposits or securities, furnished by the contractor.

8.04 No interest shall be payable on such deposit.

9.00 FORCE MAJEURE CONDITIONS: -

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 limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood or other extreme adverse weather conditions, 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.

10-ContractPeriod

The contract period will be **one year** from commencement of the work. The Engineering in charge reserve the right to extend it for an extra period of one year or

till the new contract gets finalized whichever is earlier on mutual consent, on the same terms & conditions.

11.00 MODE OF PAYMENT: -

11.01 The contractor will submit the monthly bill in duplicate to Engineer In charge of work. The same will be verified by engineering section and forward to Finance wing of STC of India Ltd for releasing the payment through RTGS mode. The Bank fee for this RTGS facility shall be borne by the contractor. The Contractor shall have to submit the following self-attested documents along with the bill.

1. Self-attested copy of bank Challan of PF, ESI Deduction and deposited in the bank/ statutory body of one month before.
2. Monthly attendance sheet of workers of present month
3. Monthly statement/ return of PF, ESI contributions with name of workers & PF Account numbers etc. and PF, ESI undertaking in duplicate of one month before
4. Payment sheet of one month before.
5. Self attested copy of labour license if applicable at site.
6. Self attested copy of insurance cover note.
7. Undertaking in respect of depositing GST (Goods and service Tax) regularly by Contractor as per norms.

-The Contractor will have to provide Pay Slip to every labour/ worker every month at the time of payment indicating PF A/c No. with PF Deduction amount and amount of Overtime as per Labour laws. The contractor has to make regular payment of workers through online except during emergency conditions such as due to inadvertent delay in account opening either due to worker or due to contractor.

-STC reserve the right to get the records cross checked from the originals documents as per need of STC.

11.02 100% payment after making necessary deduction (towards security deposit, Income tax & other if any) shall be made by ,STC against satisfactory performance of work done on monthly basis on the recommendation of the Engineer in charge. Under no circumstances, the contractor shall withheld/ delay the wages payment of workers for want of release of payment /reimbursement from STC.

12.00 RATES:-

- 12.01 The contract is comprehensive in nature .The contractor has to complete the works through competent persons along with supply of material and both these are inseparable components. The quoted rates shall be Bidder/contractor in all respect inclusive of all taxes, duties, labour charge, Tools and Plants (T&P) consumable, insurance, statutory levies except GST. GST shall be paid extra by STC of India Ltd. as per extant rules, subject to furnishing of documentary proof. The payment to the contractor shall be lump sum amount including all and no extra payment shall be made on any part of the work.
- 12.02 The contractor shall pay minimum wages to their employee/workers as per Central Govt. Rules along with PF (@12%) and ESI @ 4.75% or as per extant rules. Minimum number of man power along with their quality has been mentioned in the contract document
- 12.03 The contractor will have to get themselves registered under GST ,Labour department (for engaging labourers at site) before start of work and will submit the documentary proof of monthly deposit of GST, and also give an undertaking that if the GST deposited is refundable on any grounds or like Input Tax credit under GST ,by Concerned Govt. Dept. the same shall be deposited in STC of India Ltd.
- 12.04 Any **new** statutory duties /levies/ taxes imposed or the variation in rates of the existing duties/levies/ taxes by Gazette Notification during the contract period, shall be borne by STC of India Ltd on documentary evidence of deposition of the same .
- 12.05 In the event of increase of minimum wages or in the rates of any statutory dues or imposition of any new statutory obligation to the engaged man power by Central Govt., the Bidder/contractor shall have to comply the statutory requirement which will be reimbursed correspondingly by STC and vice versa action for any decrease.

13.00 LIABILITY OF THE CONTRACTOR:-

The contractor is required to carry out the works as per direction of Engineer in charge and contractual terms, conditions. The Engineer-in-charge or his representative will check the work claimed in the bill raised before any recommendation for releasing payment to the Contractor. STC reserve the right to deduct any amount suitable as deemed fit for uncompleted works.

14.WAGES : -

Contractor shall ensure and will be solely responsible for payment of wages and other dues latest by 7th of the following months to the personnel deployed by him as per statutory provisions and shall fully comply with the rules laid under payment of wages act and enforced from time to time, irrespective of the payment released from STC. The contractor shall keep and up to date account of deployment of labour and payment of their wages etc, which will be produced for inspection to the Engineer-in-charge/representative as and when desired by him.

The Contractor shall have to give statutory Bonus to their workers/ labour as per provisions of Bonus Act.

The Contractor will pay Overtime to the workers as per prevailing rules and no extra payment shall be made to the contractor on this account.

The STC of India Ltd. shall not be responsible in any manner for any Act or Omission of the workers engaged by the contractor and the contractor shall indemnify STC in this regard. No claim in this regard shall be entertained by STC of India Ltd. If by virtue of any law in force. If STC of India Ltd. is made to pay any amount by way of penalty / damage / fine etc. the same shall be recovered from the Contract's dues.

15. PROVIDENT FUND (PF) & ESI :-

The contractor shall have to get himself registered with the concerned PF commissioner before start of work.

The contractor shall have to submit a certificate every month to the Engineer In charge that he has an establishment covered under the Employees Provident Funds and Miscellaneous Provisions Act 1952, and is having a separate code number with the provident fund commissioner and also that the provident fund contribution in respect of all the employees employed by him, under the contract, along with employer's share of contribution etc, has been deposited with the Provident Fund Authorities and shall also submit certified photo copies of the Bank Challan of deposits with all relevant details.

In absence of above the contractor shall deposit employee's as well as employer's contribution / other charges in the respect of all employees engaged by him for the said work with STC of India Ltd. along with the details of the employees, their wages and the amount of contribution as per PF rules every month. In case of failure, STC of India Ltd. shall be entitled to withhold 25% from the amount of his bills till the regularization of such discrepancies notwithstanding the above, the contractor has to comply with provisions 36-B of the EPF scheme 1952. .

The Contractor will give annual contribution slips of individual workers engaged during the term of contract as issued by PF department.

Contractor will be responsible to make deduction towards the contribution of provident fund (PF) from such contract labour engaged by him who may be covered under provident fund Act in accordance with the provisions of EPF scheme 1952.

Contractor shall arrange to open PF accounts in the name of the labour engaged by him immediately from first month **after deployment of persons at his own cost.**

16. EMPLOYEES STATE INSURANCE (ESI) : -

It is sole responsibility of the contractor to get his workmen insured under Employees State Insurance Act (ESIC) 1948 & 1950 /workmen compensation Act & Rules, while at work, as required by relevant rules and regulations of workmen compensation and shall pay compensation, as per Act and provision / rules made there under.

17. ISSUE OF GATE PASSES , UNIFORM, SHOES TO WORKERS ENGAGED BY CONTRACTOR:-

After award of the contract the successful contractor will furnish the list of Supervisor, labour to be engaged by him indicating their particulars with passport size photo graph to the Engineer-in-charge for arranging gate passes which should be required to be produced for security check every time before entry into the Jawahar Vyapar Bhawan The said gate passes should always displayed by the labour during working hours in the Jawahar Vyapar Bhawan.

Contractor shall submit ID proof of each employee duly issued by him and attested by STC.

Contractor shall also get ID verification through local police authorities and submit the same within one month period from the date of commencement of work order if required for security purpose by STC of India Ltd. time to time.

Contractor should ensure that the engaged man power should wear the uniform while on duty, issued by the contractor (at no cost to STC) during the currency of the contract with the badge of his contractor. No manpower would be allowed on duty without uniform.

The contractor would also disburse a pair of safety shoe at the start of the contract within one month for the engaged labour at no cost to STC. No manpower would be allowed on duty without safety shoes.

18.0 OBLIGATION OF THE CONTRACTOR:-

18.01 The contractor labour/person shall be available along with the material / T&P required for the work during the entire period as prescribed in bid document. All the tools and materials shall be provided by the contractor for manual loading / unloading and transportation of material. One person will be nominated as supervisor by the contractor and supervisor will keep contact with Engineer-in-charge at all time and comply with the instructions as given by the Engineer-in-charge or his authorized representative in relation to execution of work.

18.02 The contractor shall coordinate daily with the Engineer In-charge so as to provide maintenance works assistance as may be required. The routine maintenance work shall be planned one day in advance. However the breakdown works shall have to be attended at short notice / at any time as per direction of Engineer-in-charge. The contractor will have to do maintenance works during off hours /night hours or holidays as directed by STC depending upon the circumstances/requirement at site , without any extra cost to STC.

18.03 The normal working hours in Jawahar Vyapar Bhawan (JVB) shall be generally from 9.00 AM to 6.00 PM or as prescribed by the Engineer In-charge ,in general shift. However the work may also be required to be done in one or more shifts/ round the clock in case of emergency breakdowns or as required for running of systems of Jawahar Vyapar Bhawan smoothly.

It may be noted that one of our owner of the building operated 7 days a week and till 8 PM, to which contractor will have to operate the system without any extra cost to STC.

18.04 The contractor shall depute required workers for providing assistance for routine, breakdown and capital maintenance work. The work may be carried out at any place / site in JVB. The work shall be carried out through experienced persons duly approved, who are conversant with the nature of work involved. In case any worker / personnel is found unsuitable by site in charge the same shall be replaced by another suitable person without any cost to STC.

19.0 TOOLS & TACKLES, EQUIPMENT -

All required general tools, tackles, equipment for carrying out the works shall be arranged by the contractor at his own cost. Any damage to the STC of India Ltd shall be recovered from the contractor.

20.0 CONSUMABLES: -

All the consumable shall be arranged by the contractor at his own cost and consumables such as rope, spanners, pliers, hacksaw blades, soap cakes, waste cloth, gunny bags, cotton waste, screw driver, torch, tester hand gloves, battery cells insulation tape, cotton tap, multi-meter, testing lamp and cell, Sanitary & Plumbing & Plumbing, carpentry tools etc., necessary for maintenance purpose shall be kept in ready stock by contractor. Refilling of Refrigerant is under the scope of the contractor without any cost to STC. The contract is " All in all " type without any exception i e comprehensive in nature in totality . Every component of the system must work satisfactorily during the currency of the contract ,either by proper maintenance or replacement without any cost to STC as to the satisfaction of STC.

21.0 CONTRACTOR'S RESPONSIBILITY:-

21.01 Supervision and control of the work / job will be contractor's responsibility.

21.02 Contractor shall be solely responsible to obtain and abide by all necessary licenses / permissions from the concerned authorities as required under the various Labour laws, legislations including Labour license from the competent authority under the **Contract Labour (Regulation and Abolition) Act, 1971.**

Supervision, control and regulation of condition of the workmen engaged by the contractor shall be his responsibility and STC Of India Ltd.. will have no direct connection with the workers of the contractor.

22.0 The work / job shall be executed exclusively in accordance with details, instructions as specified by the Engineer-in-charge. Contractor shall be bound to discharge its obligation in compliance with various statutory enactments including , Employees State Insurance Act, 1948 , Employees Provident Fund And Misc. Provisions Act, 1952 , Factories Act, 1948 , Industrial Disputes Act, 1947 , Payment of Bonus Act, 1965 , Payment of Gratuity Act, 1972 , The Trade Unions Act, 1926 , Laws related to wages , Laws related to child labour , Law related to contract labour , Maternity Benefit Act, 1961,Payment of Wages Act. 1936, Minimum Wages Act. 1948, Employees liability Act. 1938, any modification thereof and any other law relating thereto and rules made there under from time to time.

23. The Contractor shall ensure checking of all relevant records to, Labour Inspector, PF Inspector once in a year/ as desired by concerned Officer and submit the report of the same to Engineer In charge.

Maintaining Records As Per The Factories Act. 1948/ Labour Laws:

The contractor will maintain the following records and will make it available for Verification, inspection as per The Factories Act. 1948/ Labour Laws as and when asked by the Engineer In charge . He will adhere to labour laws of state/central Govt. and other statutory laws/rules.

- Payment Register/wages slip.
- Overtime Register in Form No.11 /OT slip/OT card.
- Actual worker register in form No. 13.
- Attendance Register.
- Leave with wages register in form No. 16.
- Register of compensatory holidays in Form No.10 (Prescribed under rule-81)
- Notice of periods of work for adult worker in Form No.12(Prescribed under rule-84)
- Health check-up register of worker employed in Form No.19 (Prescribed under rule-14)
- Register of leave book in Form No.17 (Prescribed under rule-93)

The Contractor shall have to provide mobile phone with incoming & outgoing facility to their Supervisor during execution of work. The complete details having name of Supervisors with Mobile number is to be given to Engineer In charge before start of work. If any changes in above, same shall be communicated in advance to the Engineer In charge. The workers should be asked to give their mobile number to the Engineer In charge..

- The Contractor shall remove all T&P and material from Site after completion of work and same shall be deposited in Contractor store etc. The scrap material shall be the property of the contractor if the material was being provided by the contractor for replacement else will be property of STC. The same shall be deposited by the Contractor in the respective (Contractor / STC) Stores/ Site Stores within 3 days after completion of the work as per direction of Engineer In charge.
- The waste material shall be disposed off by the Contractor within 3 days after completion of the work as per direction of Engineer In charge.
- The work area under the contract of the Contractor shall remain always clean at any time during the contract period. The contractor will arrange necessary T&P and labour for cleaning of work area and equipment etc. as per direction of Engineer In charge.

- The Contractor shall have to carry out works instructed during Sunday [weekly offs and Gazetted holidays too] if the need arises at site at no cost to STC.
 - On failure of the contractor in complying with any of the directions in the bid document/ Award of work/Contract, the STC of India Ltd. may at its discretion either cancel the contract or impose such penalty as deemed fit, which may be recovered from the security deposit or other amount payable to the contractor against this contract agreement or any other payment due to him and/ or may take legal recourse for such recovery. The decision of the Joint General /General Manager (GAD) shall be final and binding on the contractor.
- The Contractor will also take proper care for other equipment nearby to the working place and will also ensure **no damage is caused to them**. The Contractor will also ensure proper fencing/ to cover the openings/dug-out and to put Sign Board [For Dangerous/ Work in Progress] at the place, to avoid any incident before leaving the work under pending

24.00 CONTRACTOR'S RESPONSIBILITY TOWARDS THEFT: -

The contractor will be responsible in case he/they or their workmen are found committing theft. An FIR will be lodged with Police against the delinquent(s) & concerned contractor & penalty of **Rs. 5000/-** (Rs. Five Thousand Only) will be imposed/ recovered in each case as token penalty beside the recovery. However, in case of any such incident such contractor will be black listed and no work shall be awarded to him for a further period of three years & all the existing contracts will be liable to be cancelled.

25.00 MEDICAL CHECKS UP & CARE:-

The contractor shall be fully responsible for providing safety equipment, First Aid and emergency medical treatment to his employees. The contractor shall make necessary arrangement for this purpose.

The contractor shall submit health check-up report in form No.19 of workers employed by him at least once in twelve months period.

Free and Comprehensive medical treatment to be provided by the Contractor to all workmen found to be suffering from an occupational disease, ailment until cured or until death. Services of the workmen not to be terminated during illness and to be treated as if on duty.

Compensation to be paid by the contractor to workmen suffering from any occupational disease, ailment or accident in accordance with the provisions of workmen's Compensation Act 1923 or ESI scheme as effective during the contract.

26.00 SAFETY DEVICES: -

The contractor shall provide all the required safety appliances to the workers / staff as may be warranted for safety of the workers during the course of the work. Safety devices like Safety belt, Safety Helmet, Safety Shoes, Ear protector, welding glass, welding gloves, Asbestos gloves etc. shall be provided for use by workers during work.

The contractor shall provide personal protective equipment conforming to the IS mentioned below -

(a) Safety helmets conforming to IS-2925: 1984

(b) Safety Belts conforming to IS-3521: 1983

(c) Eye and face protection devices conforming to IS-8520:1977and IS-8940:1978

(d)Hand and body protection devices conforming to

(1) IS-2573: 1975

(2) IS-6994: 1973

(3) IS-8807: 1978 (4) IS-8519: 1977

27. LIABILITY FOR DAMAGES: -

27.01 If due to contractor's negligence and / or non-observance of safety and other precautions, any accident / injury occurs to any other person / public, the contractor shall have to pay necessary compensation & other expenses.

27.02 If due to contractor's negligence and/ or non-observance of safety precautions, damage is caused to the property of STC of India Ltd. , the same will be recovered from the running bill of the contractor or from his security deposit.

28.00 WITH HOLDING PAYMENT:-

The STC of India Ltd may withheld the whole or part of any payment for work claimed by the contractor, which in the opinion of the Engineer In charge necessary to protect STC from loss on account of: -

A. Defective work not remedied or guarantees not met.

B. Claims filed against the contractor.

C. Failure of the contractor to make due payment for material or labour employed by him.

D. Damage to another contractors/ STC of India Ltd property or its tenants, Co-owners

E. Insufficient / Unsatisfactory progress.

When grounds for withholding of payment are removed, to the satisfaction of Engineer in charge the payment of the amount due to the contractor shall be arranged by the STC of India Ltd.

29.00 REGARDING PERSONNEL OF CONTRACTOR: -

29.01 *The Engineer in charge shall be at liberty to object about the working of the Supervisor or any person employed by the Contractor for execution of work on account of misconduct / incompetence /negligence by way of Notice in writing addressed to the Contractor.*

On receipt of such Notice from Engineer in charge, the Contractor shall remove the person so objected and shall provide a suitable replacement within 24 hours of such Notice at its own Cost and expense”.

29.02 Contractor/ his representative / supervisor shall abide by all general rules and regulations in force on the site and to any special conditions imposed by the local administration. The general discipline of the Jawahar Vyapar Bhawan shall be maintained.

30.00 PENALTY FOR DELAY IN EXECUTION OF WORK.

Contractor has to discharge his duties timely as per terms & conditions laid down in the contract. In case of any default or delay on the part of the contractor for not completing the work in time as per requirement of work, recovery shall be made from his running bills as described below.

30.01 In case the contractor does not supply the required, Tools and Plants (T&P and / or consumables, , a deduction at the rate of Rs. 5000/- per day shall be made for the period in which contractor becomes defaulter to the maximum limit of 10% of the contract value.

30.02 In case the contractor does not provide **supervisor** to meet the requirement of contract at work site a deduction as a penalty at the rate of **Rs. 1000/-** per day shall be made for the period in which contractor becomes defaulter to the maximum limit of 10% of the contract value. In case contractor deploys lesser number of other persons as described in tender, a penalty of Rs. 500/ per person per day will be imposed along with deduction of wages of that man power.

30.03 In case of breakdown / shut down /emergency maintenance work for which the contractor fails to do any work or part thereof due to his negligence within the prescribed time period given by the Engineer In charge,, STC will be at liberty to recover penalty from the contractor @ ½ % **per hour** after stipulated time subject to a **maximum of 10%** value of the particular work as per the decision on Engineer In charge.

30.04 In case of Maintenance work to be done daily and found incomplete during checking due to one or other reasons, the suitable penalty as decided by the Engineer In charge ,maximum up to 10% of the contract value ,shall be imposed till the work completed to the full satisfaction of Engineer- in-charge.

31.0 ACTION FOR NEGLIGENCE AND DEFAULT OF CONTRACTO

31.01 If the Engineer-in-charge feels that the work is important and of emergent nature and no extra time is admissible even on penalty basis, the work of breakdown /exigencies shall got done through another agency at the risk and cost of the contractor and the amount involved in attending to such breakdown/ exigency will be borne by the contractor.

31.02 If it is found that the lapse on the part of the contractor are repeated every day and there is no improvement in the working, in-spite-of informing the contractor by Engineer-in-charge verbally and /or in writing form time to time and/or also making deductions under aforesaid clause, the order placing authority in addition to exercising his option to terminate the contract by serving 7-days' notice to the contractor can get the work done from other agency at the risk and cost of contractor and shall also reserve the right to recover losses from running bill of the contactor and / or security deposit or otherwise including various legal proceedings.

32.00 ENGINEER IN CHARGE: -

The work shall be carried out under the guidance of the Joint General Manager - GAD, STC of India Ltd. .New Delhi (who is the Engineer in charge of this contract) and his authorized representative Manager/s –Electrical.

33.00 TAX DEDUCTIONS: -

The tax deduction at applicable rate will be made from the running bills of the contractor by ,STC(I) Ltd. New Delhi.

34.00 DISPUTES: -

In case of any dispute, the matter shall be referred to the Director (Personnel), STC of India Ltd, New Delhi and the decision given by him shall be final and binding on both the Parties.

35.00 OTHERS: -

(a) Domestic LPG Gas cylinder shall not be allowed in the Jawahar Vyapar Bhawan for any cutting and welding works.

(b) Electricity and water will be provided by the STC of India Ltd. free of cost at any one point available at site to execute the contract.

(c) The contractor shall not keep/leave waste material/ debris/ garbage at the site of work after completion of the job. The waste material should be removed and disposed to a place to be indicated by the Engineer In charge. The contractor's bill shall not be verified unless the work site has been completely cleaned of all the waste materials/debris.

Disposal shall be done as per hazardous waste management rule under the mandates of applicable law . In case the site is not cleared immediately and final disposal of waste is not done within one week period then a penalty of Rs. 2000/- per day may be imposed.

36.00 CONTRACT VALUE: -

The amount mentioned is subject to completion of entire work as per Schedule and is payable to the contractor on normal course but the quantities are tentative/indicative only. The work may increase or decrease as per actual requirement during the contract period. The payment shall be made for actual work done satisfactorily. STC of India Ltd. does not guarantee for payment of entire Work Order amount.

37.00 TERMINATION OF CONTRACT: -

STC of India Ltd. reserve the right to cancel the contract at any moment without assigning any reason and the contractor will have no claim in this regard.

If the contractor fails to carry out work satisfactorily under contract, STC of India Ltd at its discretion can get the work done by another party or parties at the risk and cost of contractor without prejudice to the right of STC of India Ltd under the terms & conditions of contract and any expenditure involved in this regard shall be recovered from the contractor. In such a case, STC reserve the right to black listing the Bidder/contractor.

38.00 The contractor shall be required to deposit the amount of recoveries finalized within a period of **30 days** of receipt of intimation failing which the dues shall be recovered from the securities and financial hold of the contractor including any amount owed to contractor available with the STC of India Ltd. In case, where the amount of recoveries against the Bidder/contractor exceeds its financial hold, securities and payable /due of the contract including its financial hold with STC, the STC of India Ltd. will be at liberty to effect such recoveries out of the such securities and payables due of the contractor including its other financial hold and future receivables towards pending payments of the Bidder/contractor/contractor available with other PSUs or through legal course of action

39.00 The Indemnity Clause

1. The contractor will indemnify STC of all legal/other obligations of the professional / employees deployed for STC work.
2. STC also shall stand absolved of any liability on account of fraud or breach of trust
3. STC shall also be indemnified from any act or from any factual concealment causing thereby damage or any legal proceedings against STC by any third party or contractor's deployed employees.
4. The contractor shall also undertakes to keep STC harmless and indemnified from any loss or costs resultant from any decree/award/orders /directions /penalties obtained/enforced against the STC or implicating STC as a liable body/ entity / person for such enforcement or making such decree/award/direction/orders/penalties effective. Also, the STC shall be indemnified from any consequential act taken by STC in order to protect its interest or in order to defend any suit or legal action for itself or for on behalf of contractor, to the extent of cost/legal expenses/interest imposed upon.
5. The contractor shall indemnify and compensate STC, if the STC as principal employer under the contract Labour (Regulation & Abolition) Act, 1970 becomes liable to assume any liability towards the work force engaged by the contractor. In that event, the provisions relating to recovery as provided in the relevant clauses of the said Act shall be applicable into.

The Contractor shall at all times indemnify and keep STC indemnified against any claims 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 indemnified STC against any and all claims by Employees, Workman, agent(s), 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 Security Deposit in addition to any other means.”

40.00 Jurisdiction of Courts- The agreement will be governed by the laws and procedure established by the Government of India, within the framework of applicable legislation and enactment made from time to time. All the legal disputes between STC and the contractor shall be governed by the courts/tribunals/forums situated in Delhi and shall have the exclusive jurisdiction, to entertain such disputes.

THE STATE TRADING CORPORATION OF INDIA LIMITED
JAWAHAR VYAPAR BHAWAN, TOLSTOY MARG, NEW DELHI
(A Public sector Undertaking)

System Description and Scope of Supply and Scope of work

Following system is installed in Jawahar Vyapar Bhawan. The list is prepared with care however the bidder is advised to get it cross checked from the site and bidder will be fully responsible for any discrepancies if notices at later stage without any responsibility on STC.

1. This contract is comprehensive in nature without any exception in services and supply of material. The contractor has to execute the works as per direction of the Engineer in charge and/or bid document however , in case of any interpretation of discrepancy, the decision of STC shall be final..
2. The contractor has to assure to deploy following minimum number of man power with their respective qualification including all /relievers for operation and routine cleaning of the equipment. This is minimum requirement and contractor must enhance the deployment of man power as per site requirement as to maintain the system smoothly without any cost to STC . STC will reimburse any statutory benefit only to the minimum number of man power as described below though contractor will have to comply all statutory compliances for all the engaged man power at site. The above man power must have following respective minimum qualifications or higher. STC will not object if this man power assist is maintenance works also without sacrificing the operation of the system.

Sr. No.	Category	Name of post	No. of persons	Minimum qualification
1.	Highly skilled	Plant Supervisor	1	Diploma in Electrical/ Mechanical/Refrigeration/HVAC Engineering
2.	Skilled	Plant Operator	3	ITI in Electrical/ Mechanical/Refrigeration/ HVAC Engineering
3.	Semi-skilled	Assistant Operator	3	Minimum 5 years' Experience of Refrigeration/ HVAC Plant operation

4	Unskilled	Helper	1	Minimum 8 th pass
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3. It shall be the responsibility of the Bidder/contractor to get the works executed through the man power who are qualified to perform the job. If the quality of the works carried out is not as per standard methods to the satisfaction of Engineer in charge , STC reserves the right to get the work repeated by the said manpower or through any other agency at no cost to STC or at the risk and cost of the Bidder/contractor .No extra payment shall be made to the contractor.
4. The Bidder/contractor shall keep machines in well maintained conditions
5. Any person misbehaving or involved in ill- legal activities or detrimental to STC property or unsuitable to the job assigned shall have to be replaced by the contractor immediately upon information from STC.
6. All statutory rules and regulations should invariably be followed by the bidder/contractor otherwise it shall be deemed as non-compliance of the contract condition and action as per contract hall be invoked against the Bidder/contractor.
7. The Works shall be carried out as per OEM manual guide of the equipment or as per relevant IS standards or as per direction of the Engineer in-charge. The works / material rejected by the engineer in charge shall have to be carried out by the contractor again at no cost to STC and it shall be binding to the Contractor. If no directions are issued by STC, then maintenance will be carried as per following
- (a) Civil Works:- CPWD Specification 2009 Vol-I & II
- (b) Electrical works :- Latest CPWD General Specification Part I to Part VII
8. The Bidder/contractor shall do routine and breakdown maintenance of the systems installed under STC premises. Generally the works of welder is needed inside the shaft to which safety and security is prime importance
- 9. High side of the system will have to be maintained by the OEM M/s carrier only for which the contractor will have to engage M/s carrier as service provider from the first day of the contract period, at no extra cost to STC, failing which STC reserve the right to terminate the contract instantly and Security deposit, EMD of contractor will be forfeited along with banning/Blacklisting the contractor for 2 years. Those Bidder/contractors who have not deposited EMD, Security deposit Concerned MSME , statutory body will be informed to take punitive action against such default. any expenditure of the process to award the work**

10. Scope of supply: - The Bidder/contractor shall supply all the spares and consumables needed to carry out the Operation and maintenance work at site. The routine spares and probable breakdown spares shall be kept ready in the store of the Bidder/contractor round the clock and the Bidder/contractor shall arrange the spares as directed by the Engineer in charge. The supplied material must be proprietary and genuine or the approved list in NIT or as approved by the site in charge. Inferior quality material shall not be accepted and the Bidder/contractor shall have to produce the test certificate of the material if required by the Engineer in charge. The decision of Engineer in charge shall be final and binding. The material supplied must be warranted for a period of one year for proper performance at site. The poor performer material shall have to replace by the Bidder/contractor free of cost with in warranty / guarantee period and if the Bidder/contractor do not replace the poor quality material by the approved material well with in time, STC will be free to take up the work at the risk and cost of the Bidder/contractor.

11. **Exclusion in the scope of supply and services :** - The contract is comprehensive in nature i.e “all in all “, hence there is **No exclusion of the material or services will be there** The Bidder/contractor shall have to supply all the material that is needed for proper maintenance including all Civil, mechanical, HVAC material, electrical, electronic, software etc. Bidder/contractor will supply all material including all types of consumables, viz. Sheet metal ducting, grills/diffusers, masonry work, carpenter work and welding work connected with above replacement of any major equipment such Copper pipe Compressor Oil and Refrigerant , Filters etc free of cost to STC.

12. Maintenance schedule: - The routine maintenance plan shall be intimated to the Engineer in charge well in advance; however the schedule of maintenance shall be needed to be approved by the Engineer in charge. The Bidder/contractor will have to follow the instruction of the Engineer in charge regarding the maintenance schedule. Minor / Major maintenance of the major equipment's shall be carried out during off hours of the building for the sake of convenience of the occupants of the building. The workmanship shall be guaranteed for one year .The maintenance or the testing of the equipment should be informed prior to the engineer in charge and the tests shall be carried out as per the instructions of the site in charge or as per relevant IS, However the decision of the site in charge will be final and binding.

The breakdown maintenance shall be carried as and when required as per the need of the site.

13. Guidance of maintenance: - Following is the guidance of the maintenance that are required minimum for up keeping the system in healthy condition. However the Engineer in charge shall reserve the right to alter the plan/ scheme /frequency/ equipment under consideration for maintenance for proper maintenance.

(A) The following inspection items ensure that HVAC plant is operating reliably and efficiently through the cooling season.

- a) Checking operation of controls.
- b) Checking oil and refrigerant levels.
- c) Recording operating conditions.
- d) Logging and reporting repairs and parts those are required.
- e) Carry out leak test of system.
- g) Complete service inspection report forms
- h) Check three-phase voltage and current balance.

B. MAJOR MAINTENANCE:

The contractor will carry out at least 1 (one) Major Service overhauling of HVAC System per year during winter season as decided by STC. Following are the works for the major overhauling (indicative only)

- a) Complete cleaning of evaporator by acidic solutions, pressure testing .
- b) Complete cleaning of cooling by acidic solutions, pressure testing .
- b) Cleaning contacts or recommending replacement.
- c) Meggering the motor.
- d) Checking all terminals and tightening connections.
- e) Checking overloads.

Review the control panel for the following Items:

- a) Running diagnostic check of motor control panel.
- b) Checking safety shutdowns operation.
- c) Checking all terminals and tightening connections.
- d) Checking display data accuracy and set points.

Checking the system for the following Items:

- a) Conducting a leak check and identifying leak sources.
- b) Recording the condition of sight glasses.
- c) Checking the refrigerant cycle to verify the proper operating balance.

d) Checking condenser water and chilled water heat transfer.

General items included:

- a) Repairing insulation removed for inspection and maintenance procedures.
- b) Cleaning equipment and surrounding area upon completion of work.
- c) Consulting with the operator.
- d) Reporting deficiencies and repairs required.
- e) Complete service inspection Report Form.

9. Facilities by STC “Following facilities shall be provided by STC to the Bidder/contractor during the contract period. STC will allow use of building services like telephones, parking, etc. STC will provide lockable space in plant room for site use.

14. The contractor is required to submit fortnightly/ monthly report in respect of routine/preventive services and regular services/repairs carried out for installation(s) to Engineer-in –charge without extra cost to STC .

15. The contractor shall maintain complaint register for receiving complaints from STC representatives/staff, log books for these DG installations and other records.

16. Liaising with any statutory/ Govt. agency for obtaining the various licenses pertaining to works described in Contract shall be under Contractor’s responsibility. However the fee shall be reimbursed by STC on actual basis to the concerned authority.

17. During the currency of contract if some part of the system gets out of the scope of work (viz Lifts for renovation or firefighting system etc.,) STC reserve the right to curtail the scope of work as per its need and accordingly the monthly bill may be reduced on rational / proportional basis on which no claim of the contractor will be entertained.

18.00 Delivery :- Any Rewound items. shall be delivered within 7 days and in emergency within 3 days.

19.00 Guarantee :-

Contractor shall provide guarantee for satisfactory performance in respect of workmanship and material for a period of twelve months or installation whichever is later. If any motors / Pump /*equipment* fails within guarantee period due to any reason then the contractor will get it repaired again at his own cost.

System description

Following HVAC system is installed in Jawahar Vyapar Bhawan. The list is prepared with care however the bidder is solely responsible for any discrepancy if notices at later stage e without any responsibility on STC.

S.No.	Item Description	Unit	Qty.
	Main Equipment		
1	Chilling Machine	set	2.00
1	<p>Centrifugal Water Chilling Units each complete with 750 TR actual capacity centrifugal compressor with motor, starter panel free standing/ machine mounted, water cooled condenser,duly insulated chiller, flow switch at chiller and condenser, vibration isolators, integral refrigerant piping and wiring, BMS interface , accessories as required and called for, automatic and safety controls mounted in central micro-processor based console panel and all mounted on a steel frame complete , Motor set suitable for 415±10% 50 cycles. 3 phase AC supply and motor cable terminal box shall be suitable to connect Aluminium Cabling. Refrigerant used HFC-134A</p>		
	<p>Condenser Water OUT 97.5°F Fouling factor 0.001 FPS Water flow rate: 3000 USGPM Unit Shall run Through VFD Maximum Power Consumed : Not greater than 0.68 KW/TR at above conditions</p>		

2)	Screw type water chilling unit highly energy efficient of minimum 175 TR Capacity(nominal) complete with Semi-hermetic screw compressors, motor, Factory insulated chiller, AIR cooled condenser, vibration isolators, integral refrigerant piping and wiring, flow switch at chiller , first charge of refrigerant and lubricant, microprocessor control panel, accessories as required and called for, automatic and safety controls and all mounted on a steel frame as per specifications. Motor shall be suitable for 415 ± 10% V, 50Hz, 3ph AC supply. The chiller is BMS compatible for software integration.	Nos.	1.00
3)	FRP Induced draft cooling tower of following capacity complete with sump & steel ladder and other accessories required to make it fully functional. The starter, isolating switch & panel near cooling tower along with power cabling, control wiring and earthing is included in main electrical panel .The fan/ fan motor is isolated from the cooling tower structure using spring isolators of suitable deflection properties. Cooling tower is complete with axial fan & TEFC, IP-55 motor weather proof and 720 RPM fan. The fan motor is compatible to operate with VFD.		
	Entering water Temperature: 97.5 deg F Leaving water temperature: 90 deg F CAPACITY :900 TR Water Flow Rate : 3000 USGPM	Set	2.00

4)	<p>Split casing centrifugal pump sets with bronze impeller for condenser water recirculation complete with TEFC Sq. Cage induction motor with Class 'F' insulation, base plate, vibration isolators, mechanical seal etc</p> <p>All the pumps mentioned below shall be complete with vibration isolators (spring mounted type), mechanical seals, gland drain connections and shall be suitable for 415+/- 5% volts, 50 Hz , 3 phase AC power supply). Nos. CDWP-1-3)</p> <p>Water flow rate : 3000 USGPM Head : 82 ft wg Motor HP : 90 HP(min)</p>	Set	3.00
5)	<p>Split casing centrifugal pump sets with bronze impeller for chilled water recirculation complete with TEFC Sq. Cage induction motor with Class 'F' insulation, base plate, vibration isolators, mechanical seal as per following parameters.</p> <p>All the pumps mentioned below are complete with vibration isolators (spring mounted type), mechanical seals, gland drain connections and shall be suitable for 415+/- 5% volts, 50 Hz , 3 phase AC power supply).The chilled water pumps include thermal insulation & cladding. (Tag Nos. PCHWP;1-3)</p> <p>Water flow rate :1500 USGPM Head : 40 ft wg Motor HP :25 HP(min)</p>	Nos.	3.00
6)	<p>Split casing secondary chilled water centrifugal pump sets with bronze impeller for chilled water recirculation complete with TEFC Sq. Cage induction motor with Class 'F' insulation, base plate, vibration isolators, mechanical seal etc & All the pumps mentioned below are complete with vibration isolators (spring mounted type), mechanical seals, gland drain connections and are suitable for 415+/- 5% volts, 50 Hz , 3 phase AC power supply). Minimum efficiency of pump shall not be less than 75 %.The chilled water pumps shall include thermal insulation & cladding.</p>	Nos.	3.00

	<p>Secondary Circuit chilled water pumps complete with variable frequency drive including one standby, dedicated logic controller downloaded with parallel pumping software, differential pressure sensor/transmitters. System is complete with all accessories to make it functional and compatible with the building management system</p> <p>The pump logic controller is capable of accepting analog inputs from flow sensor/ transmitter to provide lowest KW draw based on efficiency optimisation program & multiple differential pressure sensor/ transmitters . Controller shall be capable of accepting input from flow sensor transmitter to ensure end of the curve protection.</p> <p>(Tag Nos. SCHWP;1-3) Water flow rate :1500 USGPM Head 85 ft wg Motor HP : 50 HP(min)</p>	Nos.	
7	<p>Split casing centrifugal pump sets with bronze impeller for chilled water recirculation complete with TEFC Sq. Cage induction motor with Class 'F' insulation, base plate, vibration isolators, mechanical seal etc .All the pumps mentioned below are complete with vibration isolators (spring mounted type), mechanical seals, gland drain connections and shall be suitable for 415+/- 5% volts, 50 Hz , 3 phase AC power supply).The chilled water pumps include thermal insulation & cladding.</p>		
	<p>(Tag Nos. CHWP;1-2) Water flow rate :420 USGPM Head : 90 ft wg Motor HP :15 HP(min)</p>	Nos.	2.00
8)	<p>Hot Water Generator Hot Water Generator as per specifications. Capacity : 300 KW Status : 2(W) + 0(S) Flow rate : 1050 USGPM EWT/LWT : 118 Deg F/ 120 Deg F</p>	Nos.	2.00
	B :- AIR CIRCULATION SYSTEM		
	<p>Double skinned floor Mounted Air Handling Units Double skinned chilled water Air</p>		

	<p>handling unit horizontal type fabricated out of extruded aluminium section with 0.6mm pre - plasticized / pre - coated Galvanised steel sheet outside & 0.6 mm plain Galvanised steel sheet inside with backward curved centrifugal blower, blower section and blower motor TEFC type suitable for operation on 415 volts + 10%, 50 Hz + 5% AC supply, 6 Row cooling coil made of aluminium finned copper tube with coil section, pre - filter section with non woven synthetic media for 10 micron particle size with an efficiency of 90%, MERV 13 filter section with filters stainless steel drain pan made out of 22 G sheet duly insulated Complete with motor and belt drive package etc. without face and bypass dampers. The AHU panels are insulated with 23mm thick & 36 Kg/m³ density PU foam. The motor & blower assembly are mounted on aluminium extruded section only.</p>		
1.1	Tag No. AH- 1 to 3		
	<p>Air Quantity : 40000 CMH Static Pressure : 65 mm wg Coil Rows Deep :6 Motor HP :15</p>	Nos.	3.00
1.2	Tag No. AH- 4		
	<p>Air Quantity : 22500 CMH Static Pressure : 65 mm wg Coil Rows Deep :6 Motor HP :10</p>	Nos.	1.00
1.3	Tag No. AH- 5 To 36		
	<p>Air Quantity : 21000 CMH Static Pressure : 65 mm wg Coil Rows Deep :6 Motor HP :10</p>	Nos.	32.00
1.4	Tag No. AH-37 TO 52		
	<p>Air Quantity : 19000 CMH Static Pressure :65 mm wg Coil Rows Deep : 6 Motor HP : 7.5</p>	Nos.	16.00

2	Inline Fans Inline Fans (of 47entila. 0.18 HP) .Each fan is complete with centrifugal blowers, totally enclosed fan cooled motor. Fan motor is suitable for single phase, 220 +/- 6% V, 50 Hz AC supply. Item is complete with starter & cabling.		
2.1	Duty :Exhaust Air Quantity :200-400 CFM Static Pressure : 30 mm wg	Nos.	51.00
2.2	Duty :Exhaust Air Quantity :500CFM Static Pressure : 30 mm wg	Nos.	68.00
3	Tube Axial Flow fans		
3.1	Tube axial flow fans:- Each fan is direct driven.. Fan motor issuitable for 3 phase, 415+/- 10% V, 50Hz AC supply . Fan is complete with gravity louvers.Duty: Lift Well pressurization Air Quantity : 25000 CFM Static Pressure : 30 mm wg Motor Rating : 15.0 HP	Sets	4.00
4	CLOSED TYPE EXPANSION TANK		
	Closed type expansion tank for chilled water application duly pressurized complete with piping connections, safety relief valve, drain valve , pressure gauge complete . Water Volume : 1.4 Cum Safety Working Pressure: 10 Bar	Nos.	1.00
5	AIR SEPARATOR		
	Air separator capability automatic air purging arrangement etc duly insulated complete , working pressure 10 bar. Line Size : 300 mm Design Flow:3960 USGPM	Nos.	1.00
6	FAN COIL UNITS		

	Fan Coil Units blow through type , each complete with Three Row deep cooling coil, one or more centrifugal fan(s), cleanable type aluminium filters .FCUs are double drain tray sandwiched type. The item includes control wiring between thermostat, and valve actuator as well as power wiring with 5/15 A switch and socket outlet complete as required.(Motor HP : 0.12 (Approx.) Capacity : 2.5 TR(ductable) Air Quantity : 1000 CFM	Nos.	100.00
	PIPING WORK		
1	CONDENSER WATER MS heavy class pipes(C Class- as per IS 1239-79, Part I and IS 3589 upto date ammendments) , and installed with welded all joints, provided and fixed with all necessary fittings such as bends, elbows, tees, reducers, flanges, sockets, required supports etc .-of following sizes		
1.1	600 mm dia MS Pipes	M	As per site
1.2	500 mm dia MS Pipes	M	-Do-
1.3	350 mm dia MS Pipes	M	-Do-
1.4	300 mm dia MS Pipes	M	-Do-
1.5	250 mm dia MS Pipes	M	-Do-
1.6	200 mm dia MS Pipes	M	-Do-
2	Butterfly valves		
2.1	500 mm dia Valves	Nos.	3.00
2.2	350 mm dia Valves	Nos.	14.00
2.3	350 mm dia Valves (motorised valve with actuators, control wiring as reqd)	Nos.	4.00
2.4	250 mm dia Valves	Nos.	2.00
3	Dynamic/ automatic balancing valves		
3.1	350 mm dia Valves	Nos.	4.00

4	Check valves		
4.1	350 mm dia Valves	Nos.	3.00
5	Pot strainer		
5.1	500 mm dia MS Strainer	Nos.	1.00
6	Providing and fixing of Y strainer		
6.1	350 mm dia MS Strainer	Nos.	1.00
7	CHILLED WATER PIPING MS, C Class pipes (as per IS 1239-79, Part I and IS 3589 up to date amendments) with joints, providing and fixing in position necessary fittings like bends, elbows, tees, reducers, sockets, supports, vibrating isolator etc fabricated to site. The insulation is with unfaced PUF pipe section of density 36 kg/ Cu.m , wrapped in polythene sheet retained by GI wire netting and finished with 24 guage 49entilati cladding etc.		
7.1	450 mm dia MS Pipes (50 mm thick pipe section insulation)	M	As per site
7.2	400 mm dia MS Pipes (50 mm thick pipe section insulation)	M	-Do-
7.3	350 mm dia MS Pipes (50 mm thick pipe section insulation)	M	-Do-
7.4	300 mm dia MS Pipes (50 mm thick pipe section insulation)	M	-Do-
7.5	250 mm dia MS Pipes (50 mm thick pipe section insulation)	M	-Do-
7.6	200 mm dia MS Pipes (50 mm thick pipe section insulation)	M	-Do-
7.7	150 mm dia MS Pipes (50 mm thick pipe section insulation)	M	-Do-
7.8	125 mm dia MS Pipes (40 mm thick pipe section insulation)	M	-Do-
7.9	100 mm dia MS Pipes (40 mm thick pipe section insulation)	M	-Do-

7.10	80 mm dia MS Pipes pipe section insulation)	(40 mm thick	M	-Do-
7.11	65 mm dia MS Pipes pipe section insulation)	(40 mm thick	M	-Do-
7.12	50 mm dia MS Pipes pipe section insulation)	(40 mm thick	M	-Do-
7.13	40 mm dia MS Pipes pipe section insulation)	(40 mm thick	M	-Do-
7.14	32 mm dia MS Pipes pipe section insulation)	(40 mm thick	M	-Do-
7.15	25 mm dia MS Pipes pipe section insulation)	(40 mm thick	M	-Do-
8	Aluminium Cladding			
	Aluminium cladding with 24 Gauge aluminium sheet with overlap on joints and fixed with self tapping screws etc on chilled water/ hot water piping on the terrace , inside AHU rooms, plant room as per specifications.		SQM	As per site
9	Butterfly valves duly insulated as per specifications			
9.1	450 mm dia Valves		Nos.	1.00
9.2	400 mm dia Valves		Nos.	4.00
9.3	300 mm dia Valves		Nos.	1.00
9.4	250 mm dia Valves		Nos.	25.00
9.5	250 mm dia Valves (motorised valve with actuators, control wiring as reqd)		Nos.	2.00
9.6	200 mm dia Valves		Nos.	4.00
9.7	150 mm dia Valves		Nos.	1.00
9.8	125 mm dia Valves		Nos.	10.00
9.9	100 mm dia Valves		Nos.	1.00
9.10	80 mm dia Valves		Nos.	6.00
9.11	65 mm dia Valves		Nos.	98.00
9.12	50 mm dia Valves		Nos.	1.00
9.13	40 mm dia Valves		Nos.	1.00

9.14	32 mm dia Valves	Nos.	1.00
10	Dynamic/ automatic balancing valves as per specifications(duly insulated)		
10.1	250mm dia Valves	Nos.	4.00
10.2	200mm dia Valves	Nos.	1.00
10.3	125 mm dia Valves	Nos.	1.00
11	Pressure independent type 2 way Balancing and modulating Control valves duly insulated in a single Unit of Valve with PN16 Rating. DN 15 to DN 32 Brass Body. DN 40 & above shall be Grey Iron or cast iron Body with flanged Ends Connection Duly mounted with Modulating actuator IP40 or above suitable for 24V AC. The actuator shall be equipped to transmit a transduced flow feedback signal in 4-20 Ma format to the BMS. Valve shall be selected for maximum water flow rate of AHU/FCU.		
11.1	250mm dia Valves	Nos.	5.00
11.2	200mm dia Valves	Nos.	1.00
11.3	150 mm dia Valves	Nos.	1.00
11.4	125 mm dia Valves	Nos.	1.00
11.5	100 mm dia Valves	Nos.	1.00
11.6	80 mm dia Valves	Nos.	3.00
11.7	65 mm dia Valves	Nos.	49.00
11.8	50 mm dia Valves	Nos.	1.00
11.9	20 mm dia Valves	Nos.	100.00
12	Check valves duly insulated as per specifications:-		
12.1	250 mm dia Valves	Nos.	6.00
12.2	125 mm dia Valves	Nos.	2.00

13	Y strainer duly insulated as per site		
13.1	250 mm dia Strainer	Nos.	6.00
13.2	150 mm dia Strainer	Nos.	1.00
13.3	125 mm dia Strainer	Nos.	2.00
13.4	100 mm dia Strainer	Nos.	2.00
13.4	100 mm dia Strainer	Nos.	1.00
13.5	80 mm dia Strainer	Nos.	3.00
13.6	65 mm dia Strainer	Nos.	49.00
13.7	50 mm dia Strainer	Nos.	1.00
13.8	32 mm dia Strainer	Nos.	1.00
14	Gate Valves duly insulated as per site		
14.1	50 mm dia Valves	Nos.	2.00
14.2	40 mm dia Valves	Nos.	2.00
14.3	32 mm dia Valves	Nos.	2.00
14.4	25 mm dia Valves	Nos.	1.00
14.4	25 mm dia Valves	Nos.	1.00
15	DRAIN PIPING GI medium class, installed with screw joints including the necessary fittings duly insulated with 25 mm thick PUF pipe section of 32 kg/cum 52entila and as per site		
15.1	100 mm dia	M	As per site
15.2	50 mm dia	M	-Do-
15.3	40 mm dia	M	-Do-
15.4	32 mm dia	M	-Do-
15.5	25 mm dia	RM	-Do-

16	Industrial type pressure gauges with Gun metal valves for isolation and necessary fittings, for the ease of maintenance and operation	Nos.	As per site
17	Stem mercury in glass filled industrial thermometers	Nos.	-Do
18	Auto air vents of suitable approved sizes	Nos.	-Do-
19	Ball Valves duly insulated as per site		
	32 mm dia Valves	Nos.	6.00
20	Ball Valves with Strainer and duly insulated as per site 32 mm dia Valves	Nos.	6.00
21	Snap acting thermostat for FCUs	Nos.	100.00
22	UVGI SYSTEM Duct mounted factory assembled ultra violet germicidal eradication system of 99.99% kill rate of air borne mold ,spores,bacteria,viruses & odour etc.Specification of UVGI sysem as per the site		
22.1	40000 CMH	Nos.	3.00
22.2	22500 CMH	Nos.	1.00
22.3	19000 CMH	Nos.	16.00
22.4	21000 CMH	Nos.	32.00
23	Chilled water expansion tank of 3 mm thick MS sheet duly insulated of size 1mx1mx1m with all necessary pipe connection as per site.	Nos.	1.00
	D :- Air DISTRIBUTION		
1a	Sheet metal ducts in accordance as per site, GI sheet material confirm to IS 277		
1.1	0.63 MM (24 gauge) Galvanized Sheet Steel	SQM	As per site

1.2	0.8 MM (22 gauge) Galvanized Sheet Steel	SQM	-Do-
1.3	1.0 MM (20 gauge) Galvanized Sheet Steel	SQM	-Do-
1.4	1.25 MM (18 gauge) Galvanized Sheet Steel	SQM	-Do-
2	Supply, fabrication, installation fabricated Duct as per SMACNA standards.		-Do-
2.1	0.63 MM (24 gauge) Galvanized Sheet Steel	SQM	-Do-
2.2	0.8 MM (22 gauge) Galvanized Sheet Steel	SQM	-Do-
2.3	1.0 MM (20 gauge) Galvanized Sheet Steel	SQM	-Do-
2.4	1.25 MM (18 gauge) Galvanized Sheet Steel	SQM	-Do-
3	Square shape ceiling diffusers with removable core.		
3.1	Extruded aluminium construction, powder coated with volume control damper	SQM	As per site
3.2	Extruded aluminium construction, powder coated without volume control damper	SQM	As per site
4	Extruded aluminium powder coated supply / return air grills as per site		
4.1	Extruded aluminium construction, double louvered, powder coated with volume control damper.	SQM	As per site
4.2	Extruded aluminium construction, double louvered, powder coated without volume	SQM	-Do-
5	Extruded aluminium powder coated linear grills as per site		
5.1	200 mm wide	M	As per site
5.2	150 mm wide	M	-Do-
5.3	100 mm wide	M	-Do-
5.4	80 mm wide	M	-Do-
6	Volume control damper for linear grills.	SQM	-Do-

7	Extruded aluminium powder coated linear diffusers	SQM	-Do-
8	GSS volume control dampers for ducts	SQM	-Do-
9	Aluminium powder coated fresh / exhaust air louvers complete with damper and aluminium wire mesh bird screen	SQM	-Do-
10	Fire Dampers		
10.1	Galvanised sheet fire dampers of 90 minutes fire rating and as per the site. The fire damper is complete with limit switch . The fire damper is located in the supply / return air ducts spaces and as per site .	SQM	As per site
10.2	Accessories Motorised actuators, control panels & associated control wiring	Set	As per site
11	Air curtains for toilet doors .The air curtains shall be suitable for door size of 1000 mm W x 2100 mm H.	Set	119.00
1	- INSULATION Thermal insulation with rigid fibre glass pre laminated with aluminium foil and density as per site		
1.1	50 mm thick	SQM	As per site
1.2	25 mm thick	SQM	As per site
2	19 mm thick closed cell polyethylene foam insulation with UV barrier treatment for ducts exposed to weather as per site	SQM	As per site
3	External thermal insulation with closed cell polyethylene foam as per the site		
3.1	10 mm thick insulation for return air ducts	SQM	AS per site
3.2	13 mm thick insulation for supply air ducts	SQM	As per site

4	Accoustic lining within the ducts as per site		
4.1	50 mm thick	SQM	As Per site
4.2	25 mm thick	SQM	-Do-
5	Acoustic treatment on walls and ceiling of AHU rooms & plant room with resin bonded glass wool having density of 32 kg/cum wrapped with tissue paper , fixed on wall/ceiling in frame work made out of 22 guage GI channel covered with 0.80 perforated aluminium sheet and finally braced with aluminium beading of 25mm x 2mm flat fixed with 56entilat plated screw etc. complete as per site		
5.1	50 mm thick 56entilat lining	SQM	As per site
6	Underdeck insulation with TF quality expended 56entilation insulation of density 18 kg/cum and thickness 50 mm by cleaning the surface,thick layer bitumen on the one side on insulation borad and fixing and bracing them on ceiling.		
6.1	50 mm thick	SQM	As per site
	ELECTRICALS		
1 1.1	MAIN MOTOR CONTROL CENTRE (FOR HVAC SYSTEM EQUIPMENT) Free standing, dust and vermin proof, compartmentalised Motor Control Centre fabricated out of 2/1.60 mm thick steel sheet and finished in powder coat of approved shade. A solid bus bar shall be provided at the bottom of the panel. The panels shall be suitable for 415 Volts, 50 Hz, 3 Phase, 4 wire supply system. The Panel drawing shall be approved before proceeding with the fabrication. The panel shall be compatible for integration with BMS system with required NO+NC contacts. All voltmeters and ammeters shall be digital type. The main panel shall be suitable for 31 MVA fault level. All outgoing shall be provided with		

stop/manual/auto/selector switch to facilitate operation through BMS

INCOMING

2 Nos.2000 Amps TPN EDO ACB(50 KA),with o/c & s/c release. 1 SeT (R,Y,B) Phase indication Lamps with protection fuse 1 Set Ammeter of suitable range with 3CT and selector switch 1 No. voltmeter 0-500 V with selector switch and control MCBs

BUSCOUPLER

1 No 2000 Amps TPN EDO ACB with u/v release

OUTGOING

1 Nos. outgoing to air cooled chiller panel comprising

1 Nos.800 Amps TPN MCCB(50 KA),with o/c & s/c release. 1 SeT (R,Y,B) Phase indication Lamps with protection fuse 1 Set Ammeter of suitable range with 3CT and selector switch 1 No. voltmeter 0-500 V with selector switch and control fuse

2 Nos. Chiller feeders each comprising

1 Nos.1250 Amps TPN EDO ACB(50 KA),with o/c & s/c release. 1 SeT (R,Y,B) Phase indication Lamps with protection fuse 1 Set Ammeter of suitable range with 3CT and selector switch

Suitable for 3 Nos. 3.5 c x 400 sqmm armoured aluminium conductor cable connection

	<p>3Nos. Primary Chilled Water Pumps feeders each comprising 25 HP Chilled water pump feeder 1 No. 63 Amps TPN MCCB – 25 KA 1 Set ON/OFF/Trip indication Lamps with protection fuse 1 Set Ammeter of suitable range with 1CT 1 Set Start/stop Push Button 1 No. 25HP star delta Starter Star/delta starter should be with overload protection with built in single phasing protection with all starter</p> <p>3 Nos. Secondary Chilled Water Pumps feeders each comprising 50 HP Chilled water pump feeder 1 No.200 Amps TPN MCCB – 25 KA 1 Set ON/OFF/Trip indication Lamps with protection fuse 1 Set Ammeter of suitable range with 1CT 1 Set Start/stop Push Button</p> <p>3 Nos. Condenser Water Pumps feeders each comprising 1 No.90 HP Condenser water pump feeder 1 No. 250 Amps TPN MCCB – 25 KA 1 Set ON/OFF/Trip indication Lamps with protection fuse 1 Set Ammeter of suitable range with 1CT 1 Set Start/stop Push Button 1 No. 90 HP Star Delta Starter</p>		
	<p>2 Nos. Cooling Towers feeders (multi blower cooling tower) 1 No. 10.0 HP Cooling Tower Motor feeder 1 No. 32 Amps TPN MCCB – 25 KA 1 Set ON/OFF/Trip indication Lamps with protection fuse</p>		
	<p>1 Set Ammeter of suitable range with 1CT 1 No.VFD 10.0 HP 1 Set Start/stop Push Button</p> <p>2 Nos. Hot Water Generator feeders 2 Nos. 300 KW Hot Water Generator feeders each comprising 1 No. 630 Amps TPN MCCB – 50 KA 1 No. Ammeter with 3 CTs & selector switch</p>		

	Panel shall have 10 % spare space		
1.1.1 1.1.2	1 No. 2500 Amps bus bar of aluminium conductor 1 No. earth bus of AL conductor	Set	1
1.2	<p>Free standing, dust and vermin proof, compartmentalised Motor Control Centre (Suitable for outdoor application) fabricated out of 2/1.60 mm thick steel sheet and finished in powder coat of approved shade. A solid bus bar shall be provided at the bottom of the panel. The panels shall be suitable for 415 Volts, 50 Hz, 3 Phase, 4 wire supply system. The Panel drawing is approved before proceeding with the fabrication. The panel is compatible for integration with BMS system with required NO+NC contacts. All voltmeters and ammeters are digital type. The main panel is suitable for 31 MVA fault level. All outgoing are provided with stop/manual/auto/selector switch to facilitate operation through BMS Suitable for 2 Nos. 3.5 c x 300 sqmm armoured aluminium conductor cable connection</p> <p>INCOMING</p> <p>1 Nos.800 Amps TPN MCCB(50 KA),with o/c & s/c release. 1 SeT (R,Y,B) Phase indication Lamps with protection fuse 1 Set Ammeter of suitable range with 3CT and selector switch 1 No. voltmeter 0-500 V with selector switch and control MCBs</p>		

	<p>OUTGOING</p> <p>1 Nos. Chiller feeders(1W+0S) feeders each comprising</p> <p>1 Nos.630 Amps TPN MCCB(50 KA),with o/c & s/c release.</p> <p>1 SeT (R,Y,B) Phase indication Lamps with protection fuse</p> <p>1 Set Ammeter of suitable range with 3CT and selector switch (suitable for 2 Nos. 3.5 c x 300 sqmm cables)</p> <p>2Nos. Chilled Water Pumps feeders each comprising</p> <p>15 HP Chilled water pump feeder</p> <p>1 No. 63 Amps TPN MCCB – 25 KA</p> <p>1 Set ON/OFF/Trip indication Lamps with protection fuse</p> <p>1 Set Ammeter of suitable range with 1CT</p> <p>1 Set Start/stop Push Button</p> <p>1 No. 15HP star delta Starter</p> <p>Star/delta starter is with overload protection with built in single phasing protection with all starter</p>		
	<p>Panel shall have 10 % spare space</p> <p>1 No. 1000 Amps bus bar of aluminium conductor</p> <p>1 No. earth bus of AL conductor</p>	Set	1
2	<p>LOCAL DISCONNECT PANELS</p> <p>Supply, installation ,testing and commissioning of local disconnect panels wall mounted type made out of 2.0 mm thick steel sheet duly painted and comprising of following. The panel is compatible for integration with BMS system with required NO+NC contacts. Meters are digital type.</p> <p>All outgoing are provided with stop/manual/auto selector switch to facilitate operation through BMS.</p> <p>Incomer : 1 No. 32 Amp 4P MCB</p> <p>Outgoing: 1 No. TPN MCB 32 A</p> <p>3 Nos. 16 A 2 pole MCB</p> <p>1 Set Phase indication lamps with protection fuse.1 No. ON indication lamp with protection fuse.1 Set ‘Start/ Stop’ push button.</p> <p>1 No. 24 Volt Transformer.(for AHU panels only)</p> <p>1 No. Ammeter of suitable range with 1CT Power Connectors</p>		

	Voltmeter and ammeter with selector switch Time delay relay for delayed automatic restart of air handling unit motor(0-180 Sec)		
2.1	Wiring for micro switch for starting/stopping the fan when fire damper closes Necessary internal wiring as per site equipment /motor to panel shall be included. FOR AHUs UP TO 7.5 HP , 3 PHASE MOTOR 7.5 HP VFD	Sets	16
2.2	FOR AHUs OF 15 HP , 3 PHASE MOTOR Incomer : 1 No. 63 Amp 4P MCCB Outgoing: 1 No. TPN MCCB 63 A 3 Nos. 16 A 2 pole MCB,1 Set Phase indication lamp with protection fuse. 1 No. ON indication lamp with protection fuse. 1 No. Ammeter of suitable range with 1CT,1 Set 'Start/ Stop' push button. 1 No. 24 Volt Transformer. 15 HP VFD	Sets	3
2.3	FOR AHUs OF 10 HP , 3 PHASE MOTOR Incomer : 1 No. 32 Amp 4P MCB Outgoing: 1 No. TPN MCB 32 A 3 Nos. 16 A 2 pole MCB,1 Set Phase indication lamp with protection fuse. 1 No. ON indication lamp with protection fuse. 1 No. Ammeter of suitable range with 1CT.,1 Set 'Start/ Stop' push button. 1 No. 24 Volt Transformer. 10 HP VFD	Sets	33
	Outgoings For 4 Nos. 15 HP Liftwell pressurisation fans each feeder comprising 1 No. TPN MCCB- 63 A 1 No. Phase indication lamp with protection fuse 1 No. ON/OFF indication lamp with protection fuse. 1 No. Ammeter of suitable range with 1CT 1 Set 'Start/ Stop' push button. 1 No. 15 HP Star delta Starter		

	<p>For 4 Nos. 10.0 HP Liftlobby pressurisation fans each feeder comprising 1 No. TPN MCCB- 32 A ,1 No. Phase indication lamp with protection fuse 1 No. ON/OFF indication lamp with protection fuse. 1 No. Ammeter of suitable range with 1CT ,1 Set 'Start/ Stop' push button. 1 No. 7.5 HP DOL Starter,For 2 Nos.7.5 HP staircase pressurisation fans each feeder comprising</p>		
	<p>1 No. TP MCCB- 32 A,1 No. Phase indication lamp with protection fuse 1 No. ON/OFF indication lamp with protection fuse. 1 No. Ammeter of suitable range with 1CT,1 Set 'Start/ Stop' push button.1 No. 7.5 HP DOL Starter 10% spare feeders is provided. 1 No. 350 amps aluminium bus bar</p>	Set	1
4.0	<p>AHU Panel Cubical type compa-centralised floor mounted free standing type with separation system as per IS 8623 part 1415 V , 50 Hz 3phase 4 wire supply , moisture ,dust 7 vermin proof AHU panel board made from 2 mm , thick CRCA sheet steel duly power coated in approved colour ,complete with protection release /relay computer compatible Energy Analyser , LED indication lamps , CTs interconnection/control wiring & fuses bus bars removable gland plate on top & bottom MV danger notice plate and following incomer & out going feeder completes per specification . Incomer 630A 4P 35 KA MCCB -1 set Bus bar</p>		
	<p>800A, 415 V three Phase 4wire color coded non adhesive PVC insulated electrolytic Al conductor bus bar Out going 63 A FP MCCB -2Nos 32 A FP MCB-30 Nos</p>	Set	2

5.0	Power Cabling		
5.1	Supply, laying, testing and commissioning of 1.1 KV PVC insulated , PVC sheathed ,armoured cable of aluminium conductor complete with end termination with brass compression glands, aluminium lugs, identification Tags, clamps etc.as per site		
5.1.1	400 sqmm x 3.5 core aluminium conductor armoured cable	M	As per site
5.1.2	240 sqmm x 3.5 core aluminium conductor armoured cable	M	-Do-
5.1.3	185sqmm x 3.5 core aluminium conductor armoured cable	RM	-Do-
5.1.4	50 sqmm x 3.5 core aluminium conductor armoured cable	RM	-Do-
5.1.5	35 sqmm x 3.5 core aluminium conductor armoured cable	RM	-Do-
5.1.6	25 sqmm x 3.5 core aluminium conductor armoured cable	RM	-Do-
5.1.7	16 sqmm x 3/3.5 core aluminium conductor armoured cable	RM	-Do-
5.1.8	10sqmm x 3 core aluminium conductor armoured cable	RM	-Do-
5.1.9	6 sqmm x 3 core aluminium conductor armoured cable	RM	-Do-
5.1.10	6 sqmm x4 core aluminium conductor armoured cable	RM	-Do-
5.1.11	4 sqmm x4 core aluminium conductor armoured cable	RM	-Do-
5.1.12	4 sqmm x 3 core aluminium conductor armoured cable	RM	-Do-
6.0	Control cabling		As per site
6.1	1.1 KV grade PVC Insulated, PVC Sheathed copper conductor armoured control cables complete with brass compression glands, copper lugs, identification tags, clamps etc. as per site		
6.1.1	2 core x 2.5 sqmm	M	As per site
6.1.2	3 core x 2.5 sqmm	M	As per site

6.1.3	6 core x 1.5 sqmm	RM	As per site
6.1.4	12 core x 1.5 sqmm	RM	As per site
7.0	Earthing		
	GI Stripe from earth electrode as per site for Earth Continuity :		
7.1	1x32x6 mm GI Strip	M	As per strip
7.2	1x25x5mm GI Strip	M	As per site
7.3	1x6 SWG GI Wire	M	As per site
7.4	1x 8 SWG GI wire	RM	As per site
	Cable Trays		
8	Ladder type cable trays made of GI slats, 75 mm high and 2.0 mm thick, complete with clamps and suspension arrangement comprising of 10 mm dia GI rods complete as per site		
8.1	600 mm wide	M	As per site
8.2	450 mm wide	M	-Do-
8.3	300 mm wide	M	-Do-
8.4	150 mm wide	M	-Do-
1.0	Building Management System (BMS) and allied systems as per an all-time fully integrated system, (which is used for monitoring building AHUs, cooling plant, light, power system, fire system and security system) i.e compatible with the fire , security , light etc. BMS Computer System: PC (Pentium Core 2 Duo processor 3 GHz or better), 2GB RAM, 52X DVD Writer, 22" TFT Colour monitor, 180GB HDD SATA, Microsoft Bus mouse with pad, 2serial, 1 parallel port, Windows XP / Windows 7 operating system, 104 Keyboard, Expansion Bus with spare Slot, with original license, protection & restore key, includes LAN Card, USB ports	No.	1

2.0	BMS System Software : Web Based Graphical Software meeting the requirements in the Given I/O Summary and technical specifications including configuration and facility to create / provide the graphic mapping for all I/O Summary points , animate the Graphics, Navigation between pages, display of logs, changing the time zones, popup alarms, configurable password protection for Building Mgmt System as per Specifications. Software shall be able to communicate with Lonworks, Bacnet, Modbus devices simultaneously, with unlimited user & Point license capacity. Same software can be utilized as programming / commissioning software of DDC, NAC etc	No.	1
3.0	Web Based Router / Network Area Controller interfacing the DDC controllers and Integrators for the system with PC. It has capacity to store trends & program backup. It should be BTL & UL Listed.	Lot	1
4.0	Web Based Integrator for interfacing for Chiller machine	Lot	1
4.1	Web Based Integrator for interfacing for VFD	Lot	1
5.0	Automation stations / DDC Controller with I/O module etc., The controllers shall be 16 bit microprocessor based standalone and net workable type with real time clock. The DDC's shall be capable of peer to peer communication without help of system interface controller or PC. With locable MS mounting cabinets duly powder coated connector strip, internal wiring and space to house controller & relays, connector strip current transformer, MCB, internal wiring. (Contractor shall confirm his I/O provision w.r.t requirement on basis of data point) on Lonworks		
5.1	DDC Panel for Chiller Plant Room	Lot	1
5.2	DDC Panel for AHUs	Nos	1

5.3	DDC panel for 66entilation system	Nos	1
1.0	Immersion temp sensor for CHW line	Nos	9
2.0	Outside Temp & Humidity Sensor	Nos.	1
3.0	Water Level Switches for Water Tanks	Nos.	3
4.0	DP Switch Air for Monitoring Blower, Fan ETC	Nos.	110
5.0	Duct Type Temp Sensor	Nos.	52
6.0	Water Flow Switch	Nos.	4
7.0	Water Flow Meter	Nos.	1
C) 1.0	Conducting , Wiring and cabling of following cables:		
1.1	2 Core 1.0 Sqmm, PVC Insulated, PVC sheathed ATC conductor multistranded, F-10 Cable	M	As per site
1.2	3 Core 1.5 Sqmm, PVC Insulated, PVC Sheathed ATC conductor multistranded, cable for Powering DDC , Actuators, F-10 Cables	M	As per site
1.3	2 Core 1.0 Sqmm, PVC Insulated, PVC Sheathed ATC conductor multistranded, twisted & Shielded (Aluminium foil) cable, for communication (F-10 Cables)	M	As per site
1.4	ISI Mark 1.6 mm thick MS conduit on surface/recess including cutting/filling chases along with conduit accessories etc. complete as per site		
a)	25 mm dia	M	As per site
c)	Steel reinforced PVC quoated flexible pipe with all coupler & Clamps	RM	As per site
	CIVIL WORKS		
1.0	Associated civil works like foundation of equipment in AC plant room, air handling units, air cooled chiller including structural supports etc, making and dressing of AC openings and as required to make the system functional.	LOT	1

Data to be supplied by the bidder

NAME OF WORK :- Comprehensive routine, breakdown, operation & Maintenance of water cooled (2x 750 TR), Air cooled (1x 175 TR) and associated system of Central HVAC (Heat , Ventilation & air conditioning) system installed at Jawahar Vyapar Bhawan,1-Tolstoy Marg, Connaught Place , Delhi

Sr. No.	Particular		Yes/No
1.	Name and complete Address of the Bidder/contractor		
2.	Bank account details –Name of Bank		
3.	Annual turnover (Balance sheet & Profit and Loss account)	FY2017-18 (Rs.).....	
		FY 2016-17(Rs.).....	
		FY 2015-16 (Rs.).....	
4.	Average Annual Turnover (Rs.) of 3 years as above		
5.	GST No.		
6.	P.F No		
7.	PAN No.		
8.	ESI Registration No.		
9.	Work order details	Fill separate sheet	
10.	Satisfactory service certificate		
11.	Earnest money Deposited (EMD) details		

12.	Bid Fee details		
13.	Self-attested certificate of Non-blacklisting from PSUS/Govt./MNC		
14.	Complete bid document properly filled and signed with stamp		
15.	Registration No. (Certificate) under MSME/NSIC body if the bidder avails the benefit of being a MSME/ NSIC unit.		
16.	Authorized dealer /service provider or having Consent/MOU from OEM of Chillers (M/s Carrier) for comprehensive AMC of high pressure side of HVAC system for site (STC) to ensure genuine services. Documented proof must be uploaded.		
17	Electrical License from statutory authority for voltage level 3 phase 415 v minimum.		
18	Authorized signatory certificate.		

Summary of Past Work Experience

Sr. No.	Name of Work Order awarding	PSU/ GOVT./ Semi	Value of the work	Duration (from.. to....)	Details, nature of work (as	Satisfactory completion certificate
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	organisation	Govt./ State PSU/MNC & Private institutions	(annual basis) Rs. Lacs		per requirement of satisfaction for PQR	attached (Y/N)
1.						
2.						
3.						
4.						

Name and Signature of bidder with seal

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

Know Your Customer (KYC) Policy

The information sought in KYC format are not required during the bidding process

- a. STC, before awarding any work order/contract or entering into any agreement/contract//MOU, etc. with any potential party, **shall mandatorily obtain certain information**/documents about the party as mentioned in the KYC Form annexed to this policy.

- b. The details required in the KYC Form are minimum basic requirement and STC may ask for additional details/documents from the party keeping in view the specific nature of the transaction, if necessary.
- c. STC shall not deal with a party, who refuses to share the requisite details in KYC Form. For such parties, STC reserve the right to cancel the award of work and/or holidaying/blacklist/debar from future tenders for a period of 3 years.
- d. STC may cross verify the KYC details furnished by the party through available means and the party will have no objection to the same nor will it hold STC responsible for the same in any manner whatsoever.
- e. Providing KYC details shall not confer any right upon the party to seek orders/contracts from STC and the same shall solely be on commercial consideration and as per applicable rules/guidelines/procedures, etc. of the Company as well as GOI or any other authority.
- f. The KYC details of all existing and new parties shall be updated at least once every year.
- g. This policy shall not apply to dealings with Govt. departments/entities/CPSEs.
- h. Bidders are requested to go through the required information that will be sought before the award of the contract. **The information sought in KYC format are not required during the bidding process.**
- i. Interested bidders may seek KYC format available online on STC's website or may ask directly from the officers inviting the bids so as to nullify any confusion at later stage.

AGREEMENT

This agreement made on the ____ day of _____, Two thousand between "The State Trading Corporation of India Limited" (hereinafter referred to as the Client) as per terms of the bid document and annexures including general conditions, its STC 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 as per terms of the bid document and annexures including general conditions, its STC desires certain works to be executed by the contractor viz. “ _____ ” in considerations of *the amount of Rs.* _____ (Rupees _____ in words) and subject to such terms and conditions as set out in the bid documents (Bid No. _____ dated _____) which shall form part of the contract.

Whereas in consideration of the payments to be made by the Client as per terms of the bid document and annexures including general conditions, its STC to the Contractor as hereinafter mentioned the contractor hereby agrees with the Client as per terms of the bid document and annexures including general conditions, its STC to perform the for the work of Comprehensive routine, breakdown Maintenance of water cooled (2x 750 TR), Air cooled (1x 175 TR) and associated system of Central HVAC (Heat , Ventilation & air conditioning) system installed at Jawahar Vyapar Bhawan,1-Tolstoy Marg, Connaught Place , Delhi. in conformity with the provisions of the agreement.

Whereas the Client as per terms of the bid document and annexures including general conditions, its STC, agrees to pay the contractor in consideration of the performance of the work of Comprehensive routine, breakdown Maintenance of water cooled (2x 750 TR), Air cooled (1x 175 TR) and associated system of Central HVAC (Heat , Ventilation & air conditioning) system installed at Jawahar Vyapar Bhawan,1-Tolstoy Marg, Connaught Place , Delhi. such amounts as may become payable under the provisions of the agreement at the times and in manner prescribed by the agreement. Whereas clauses in an agreement are meant for the purpose of what has transpired between the parties for the formation of the contract/agreement and how the consideration passes in between as such building cell division is kindly look into the same and mention the whereas clause as from the Notice of invitation and then bid of the contractor and when the same is accepted , what was the purpose of the bid and for what purpose it is accepted and then for what purpose the award of work is issued to the contractor and thereafter intention of the parties the reduce the same into an agreement.

NOW THIS AGREEMENT WITNESSED AS UNDER

That the terms and conditions in the bid documents(Annexure-A) and award letter (Annexure-B) 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.

Signature of the Contractor

Signature of the representative of STC

Name:

Name

Designation

Designation

In the presence of ::

Signature

Signature

Name:

Name:

Designation

Designation

Price Bid

1. BOQ (PRICE BID) UPLOADED BY STC TO BE USED ONLY FOR SUBMISSION OF PRICE.
2. THIS BOQ TEMPLATE MUST NOT BE MODIFIED/REPLACED BY THE BIDDER AND THE SAME SHOULD BE UPLOADED AFTER FILLING THE RELEVANT COLUMNS, ELSE THE BIDDER IS LIABLE TO BE REJECTED FOR THIS TENDER. BIDDERS ARE ALLOWED TO ENTER THE BIDDER NAME AND QUOTED PRICE PER ANNUM WITHOUT GST ONLY.
3. AT THE TIME OF UPLOADING OF BOQ BY BIDDER, THE FILE NAME FOR UPLOADING THE BOQ (PRICE BID) SHOULD REMAIN THE SAME AS IT WAS DOWNLOADED FROM THE CPP PORTAL.

BOQ UPLOADED BY STC–

Tender Inviting Authority: THE STATE TRADING CORPORATION OF INDIA LIMITED

Name of Work: TENDER FOR COMPREHENSIVE ROUTINE, BREAKDOWN, OPERATION & MAINTENANCE OF WATER COOLED (2X 750 TR), AIR COOLED (1X 175 TR) AND ASSOCIATED SYSTEM OF CENTRAL HVAC (HEAT , VENTILATION & AIR CONDITIONING) SYSTEM INSTALLED AT JAWAHAR VYAPAR BHAWAN,1-TOLSTOY MARG, CONNAUGHT PLACE , DELHI.

Contract No: STC/CO/BLD-E/F01117/2019/D 728 / Dated 14/05/19

Name of the Bidder/ Bidding Firm / Company :				
PRICE SCHEDULE				
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)				
NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quoted Price per Annum- Without GST To be entered by the Bidder in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	13	53	55
1	Description			
1.01	Comprehensive routine, breakdown, operation & maintenance of water cooled (2x 750 TR), Air cooled (1x 175 TR) and associated system of Central HVAC (Heat, Ventilation & air conditioning) system installed at Jawahar Vyapar Bhawan,1-Tolstoy Marg, Connaught Place , Delhi, as per tender terms and conditions GST (Goods and service tax shall be paid extra as per actual)		0.00	INR Zero Only
Total in Figures			0.00	INR Zero Only
Quoted Rate in Words			INR Zero Only	

Note

The price comparison shall be done on the basis of price quoted above

1. **Goods and service tax shall be paid extra by STC (I) Ltd as per rules, on providing documentary proof of Deposition. The contractor will have to provide input credit of GST if arises.**
2. No other format of price submission shall be accepted. Bidder should sign on every page of the bid

3. The bidder is required to quote for the complete work, though STC reserve the right to award the work in full or in part.
4. No over writing is allowed , over writing shall be summarily rejected
5. In case of discrepancy between words and fig, in rate quoted, the rates quoted in works shall be final
6. Bidder/contractor has to quote the final rates only, all including discount/ rebate etc. Any separate discount/ rebate quoted shall not be considered.
7. The offer shall be valid for 60 days from the date of bid opening.
8. Leaving an unfilled entry in the price bid against any term shall mean as Zero cost and the bid shall be evaluated accordingly.
9. KYC information has to be provided by the contractor before the execution of the agreement.
10. Price bid has to be uploaded in separate envelope. Putting price bid along with technical bid will lead to rejection of the bid summarily.