



Bharat Sanchar Nigam Limited

(Electrical Wing)

Office of

Executive Engineer (E)
BSNL Electrical Division III,
Ground Floor, Kelleys Telephone Exchange
Kelleys, Chennai-10
Ph.No.044-26474545,26476767

TENDER DOCUMENT

Name of Work: Annual comprehensive maintenance of AFD & Alarm system in TE Adyar, Chennai. (For 2019-20) Recall

NIT No. 67 /EEE/ED-III/BSNL/CH/19-20

This tender document contains **42 pages (Forty Two)** pages only

(To be filled in by the Contractor)

Name of the Agency

Address

.....

.....

Telephone No. of agency:

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INFORMATION AND INSTRUCTIONS FOR BIDDERS

The Executive Engineer (Elect), BSNL,ED-III, Chennai on behalf of the CMD,BSNL invites Item rate bids from eligible bidders in Single bid system for the following work:

1	Name of work	Annual comprehensive maintenance of AFD & Alarm system in TE Adyar,Chennai.(For 2019-20)Recall
2	Estimated cost put to tender	Rs.66,516/- (Excluding GST)
3	Earnest Money	Rs. 1,330/-
4	Period of completion	Twelve month
5	Tender Fee(Non-refundable)	Rs.150/- (+) GST 18%
6	Last date & time for submission of tender	Up to 15:00 Hrs. on 28-01-2020
7	Date and time for opening of tender	15:30 Hrs. on 28 -01-2020

ELIGIBILITY CRITERIA

The bidders satisfying the following conditions:

(a) Financial Norms:

Average annual turnover during the last 3 years, ending 31st March of the previous financial year, should be at least 30% of the estimated cost put to tender.

AND

(b) Physical Norms:

BSNL enlisted contractors in Electrical category of respective class as per their tendering limits.

OR

The manufacturer/ authorised dealer/OEM of any of the makes of major equipments included in the NIT. The letter of authorisation from the manufacturer in original/photo copy attested by BSNL executive will be submitted.

OR

Experience of having successfully completed similar works in BSNL comprising of either substation or air conditioning service as part of scope of work during last 7 years ending last day of month previous to the one in which applications are invited, should be either of the following :

Three similar successfully completed works costing not less than the amount equal to 40% of the estimated cost put to tender.

OR

Two similar successfully completed works costing not less than the amount equal to 60% of the estimated cost put to tender.

OR

One similar successfully completed work costing not less than the amount equal to 80% of the estimated cost put to tender.

NOTE: Similar work Means "AMC / Repair of AFD and Alarm System "

IMPORTANT INSTRUCTIONS TO BIDDERS DOWN LOADING THE TENDER DOCUMENT FROM WEB SITE

The bidders, who have down loaded the tenders from the web site, shall read the following important instructions carefully before quoting the rates and submitting the tender documents.

1. The tenderer should see carefully and ensure that the tender document containing all the pages as per the index has been down loaded for making required entries. The balance pages of Standard BSNL EW8 form will be attached with the agreement after the award of work.
2. A clear print out of tender document shall be taken on good quality A4 size paper and the printer settings, etc., shall be such that the document is printed as appearing in the web and without any change in format, number of pages, etc., and shall also ensure that no page is missing. Only original computer printout of the document shall be used. Photocopy shall not be accepted.
3. In case of any doubt in the downloaded tender, the same shall be got clarified from the Engineer in charge calling the NIT before submission.
4. The name of the bidder shall be filled on the relevant pages of tender document and all the pages shall be invariably signed. (With stamp)
5. The tenderer shall ensure that the downloaded tender document is properly stitched before submitting the document.
6. There shall be no correction / addition / alteration / omission made in the text of the downloaded tender document. If found otherwise, the same shall be treated as non-responsive and rejected.
7. The tenderer shall sign the declaration enclosed before submitting the tender.
8. The tenderer shall submit the tenders in 2 covers marked as No.1 and No.2. The tenderer shall submit the credentials for meeting the eligibility conditions along with the cost of the tender fee and EMD in the prescribed format as detailed in NIT, along with a covering letter on his printed letter head stating the details of enclosures in the **first cover**. The credentials shall be self-attested. The **second cover** shall contain the price bid. The rates and amounts should be filled in the schedule of work attached thereto.
9. The **cover-1** shall contain the following.
 - a. Tender Fee in the prescribed format
 - b. EMD in the prescribed format
 - c. Certificate of Financial Turnover from Chartered Accountant if applicable
 - d. Documents fulfilling Eligibility criteria (Please note that in case the bidder is authorised by the manufacturer, the original authorisation letter is to be scanned and uploaded)
 - e. Enlistment certificate issued by BSNL if applicable
 - f. Electrical license issued by TN Govt. if applicable
 - g. GST Registration Number details
 - h. PAN Card
 - i. EPF and ESI Registration certificate if applicable
 - j. Certificate of work experience issued by client department (Form 'C') if applicable

Not submitting the above documents in Cover-1, the Cover-2 will not opened

2. The **Cover-1 and 2** shall be deposited in the tender box available in the office of tender opening authority, by all the bidders before **3:00 PM on 28 /01/2019** the tender opening date, failing which the tender shall not be opened.

BSNL EW-6
Bharat Sanchar Nigam Limited
Electrical Wing

Electrical Division: **ED-III, Chennai**

Sub Division: **Stores**

Item rate tenders on single bid system are invited on behalf of CMD, BSNL for the work of **"Annual comprehensive maintenance of AFD & Alarm system in TE Adyar, Chennai. (For 2019-20) Recall"** from the eligible bidders as per NIT notification. The enlistment of the bidders should be valid on the opening date of tender. In case the date of opening of tender is extended, the enlistment of bidder should be valid on the original date of opening of tender.

1. Tenders which should always be placed in sealed covers with the name of the work written on the envelope will be received and opened by the tender opening authority as per the date and time mentioned in **INFORMATION AND INSTRUCTIONS FOR BIDDERS. Unsealed tenders will be summarily rejected.**
2. Intending bidder is eligible to submit the bid provided that he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority as per the eligibility conditions mentioned in the NIT notification page.
3. The work is estimated to cost **Rs.66,516/-** This estimate, however, is given merely as a rough guide.
4. Agreement shall be drawn with the successful bidder on prescribed form as amended up to the date of opening of tender. Bidder shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
5. The time allowed for carrying out the work will be **One Month** from the 10th day after the date of written order to commence the work.
6. The site for the work is available / or the site for the works shall be made available in parts. The successful bidder shall execute the work in coordination with other agencies working in the campus.
7. The bid documents consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website **Chennai.bsnl.co.in** at free of cost. The BSNL EW-8 document can be seen from the web site **Chennai.bsnl.co.in** at free of cost.
8. The Tender Fee in the form of Demand Draft issued by the Nationalized / Scheduled bank authorized by the Reserve Bank of India, drawn in favour of **BSNL, Chennai Telephones** payable at **Chennai**. The validity of the tender cost in the form of DD shall be **60 days** from the date of opening.
9. The Earnest money deposit (EMD) in the form of Demand Draft / FDR / BG (BG is only for Air Conditioning, Diesel Engine Alternator, Lifts, and Sub Station works wherever the amount of EMD is more than Rs.20,000)/ CDR of a nationalized / scheduled bank authorized by the Reserve Bank of India, drawn in favour of **BSNL, Chennai Telephones** payable at **Chennai**. The validity of the EMD in the form of DD shall be 60 days from the date of opening. If the EMD is in the form of CDR/FDR/BG, the validity shall be 180 days from the date of opening. In case of L1 bidder, the validity of CDR/FDR/BG is to be extended up to the observation period as that of the Performance guarantee / Security deposit. Exemption from payment of Tender Fee, Earnest Money and Security Deposit by any other unit/ department shall not hold good for BSNL.

10. The last date for submission of bid is **28 -01-2020 up to 3:00 PM** and the bid submitted shall be opened at 03:30 PM on the day. If a holiday is declared on the tender opening day, the tender will be opened on the next working day.
11. **Performance Guarantee:** The bidder is required to furnish Performance guarantee for an amount equal to 5% of the contract value in the form of bank guarantee/CDR/FDR/DD (of a Nationalized/ Scheduled Bank in a standard format) within two weeks from the date of issue of acceptance letter. This period can be further extended by the Engineer-in-charge up to a maximum period of two weeks on written request of Bidder. The validity period of the performance security in the form of performance bank guarantee shall be: Three Months from the date of actual completion of work, for AMC works; and One year from the date of actual completion of work for all other works. **In case the bidder fails to deposit the said performance guarantee within the stipulated period, including the extended period if any, the Earnest Money deposited by the bidder shall be forfeited automatically without any notice to the bidder and the bidder will not be allowed to participate in the re tendering for the same work.**
12. **Security Deposit:** In addition to Performance guarantee stated above, a sum @ 10% of the gross amount of the bill shall be deducted from each running bill of the contractor till the sum be deducted with the sum already deposited as earnest money, will amount to security deposit of 5% of the contract value of the work. **The security deposit shall be released after an observation period as follows: Three Months from the date of actual completion of work, for AMC works; and One year from the date of actual completion of work for all other works.**
13. If it is found at any stage of tender scrutiny after submission of tender that the bidder has made any correction/addition/alteration/omission intender documents vis-à-vis tender documents available on the website /original Draft NIT in office, the bid shall be treated as non-responsive and shall be summarily rejected and the BSNL shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further, the bidder shall not be allowed to participate in the retendering process of the work.
14. The Tender documents shall not be sent through the Courier/Post. Tender documents received through Courier/post shall not be opened/considered at all. All communication with the bidders shall be in writing. Fax / E-mail shall be covered under this category and considered as adequate means of communication.
15. Intending bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders, the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidder shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the BSNL and local conditions and other factors having a bearing on the execution of the work.
16. The competent authority on behalf of the CMD does not bind himself to accept the lowest or any other tender and reserves to himself the authority to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the prescribed

condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidder shall be summarily rejected. The competent authority on behalf of CMD reserves to himself the right of accepting the whole or any part of the tender and the bidder shall be bound to perform the same at the rate quoted.

17. Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the bidders who resort to canvassing will be liable to rejection.
18. Agreement shall be drawn with the successful bidder on prescribed form. Bidder shall quote his rates as per various terms and conditions of the said form, which will form part of the agreement.
19. The bidder should give a certificate as per the following that none of his/her relative is employed in BSNL units as per **Form 'D'**. In case of proprietorship firm, certificate will be given by the proprietor and for partnership firm certificate will be given by all the Directors of the company.
 - a. Near relatives of all BSNL employees either directly recruited or on deputation are prohibited from participation in tenders and execution of works in the different units of BSNL. The near relatives for this purpose are defined as:
 - i. Members of a Hindu Undivided family.
 - ii. They are husband and wife.
 - iii. The one is related to the other in the manner as father, mother, son(s) & son's wife(daughter-in-law), Daughter(s) & daughter's husband(son-in-law), brother(s) & brother's wife, sister(s) & sister's husband(brother -in-law).
 - b. The company or firm or any other person is not permitted to tender for works in BSNL unit in which his near relative(s) is(are) posted. The unit is defined as SSA/Circle/Chief Engineer/Chief Archt./Corporate office for non-executive employees and all SSA in a circle including circle office/Chief Eng./Chief Archt./Corporate office for executive employees (including those called as Gazetted officers at present). The bidder should give a certificate that none of his/her such near relative is working in the units as defined above where he is going to apply for tender/work, for proprietorship, partnership firms and limited company certificate shall be given by the authorized signatory of the firm. Any breach of these conditions by the company or firm or any other person, the tender/work will be cancelled and earnest money/performance guarantee will be forfeited at any stage whenever it is so noticed. BSNL will not pay any damages to the company or firm or the concerned person. The company or firm or the person will also be debarred for further participation in the concerned unit.
 - c. No employee in BSNL/ Govt. of India is allowed to work as a contractor for a period of two years of his retirement from service without the prior permission. The contract is liable to be cancelled if either the bidder or any of his employees is found at any time to be such a person who had not obtained the permission as aforesaid before submission of tender and engagement in the bidders service.
20. The tender for the work shall remain open for acceptance for a period of ninety (90) days from the date of opening of tenders. If any bidder withdraws his tender before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the tender which are not acceptable to the BSNL, then the BSNL shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest

money as aforesaid. Further the tenderer shall not be allowed to participate in the retendering process of the work.

21. The bidder has to comply with the provisions of EPF and miscellaneous provisions Act-1952 and employees provident fund scheme-1952 as amended up to date in respect of labours/employees engaged by them for this work. Any consequence arising due to non-complying of provisions as specified above shall be the sole responsibility of the firm only. The agency shall give an undertaking to this effect as per **Form 'B'**.
22. **Extension of Validity of tender:** In case, where the letter of award of work cannot be placed within the validity period of the tender, the BSNL can request the bidder to extend the validity of their respective tenders and the Earnest Money deposit by a reasonable period. In such cases, extension of validity of Earnest Money deposit by 30 days beyond the extended validity date of tender should also be asked for. While BSNL can make the request for extension, the tenderer is free to either extend the validity or refuse the request to extend the validity.
23. Rates quoted by the contractor shall be firm and shall be valid for the currency of contract. No cost escalation shall be permitted during the currency of contract.
24. This notice inviting tender shall form a part of the contract document. The successful bidder, on acceptance of his tender by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-
 - a. The Notice Inviting Tender, all the documents including additional conditions, specifications and drawings, if any, forming part of the tender as uploaded at the time of invitation of tender, subsequent amendments issued and the rates quoted at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
 - b. Standard BSNL EW-8 form

c. General Instructions to the Bidders

1. The intending bidder must read the terms and conditions of BSNL-EW 6 carefully. He should only submit his bid, if he considers himself eligible and he is in possession of all the documents required.
2. Information and instructions for bidders posted on website shall form part of bid document.
3. Applicants are advised to keep visiting the above mentioned website from time to time (till the deadline for bid submission) for any updates in respect of the tender documents, if any. Failure to do so shall not absolve the applicant of his liabilities to submit the applications complete in all respect including updates thereof, if any. An incomplete application may be liable for rejection.
4. Even though any bidder may satisfy the above requirements, he would be liable to disqualification if he has:
 - a. Made misleading or false representation or deliberately suppressed the information in the forms, statements and enclosures required in the eligibility criteria document.
 - b. Record of poor performance such as abandoning work, not properly completing the contract, or financial failures / weaknesses etc.
5. If any information furnished by the bidder is found incorrect at a later stage, he shall be liable to be debarred from tendering/taking up of works in BSNL. The BSNL reserves the right to verify the particulars furnished by the applicant independently.
6. GST and any other tax applicable in respect of this contract shall be borne by the bidder himself. The bidder shall quote his rates considering all such taxes. The TDS as per the Govt. regulations will be recovered from the contractor.
7. **Tender Evaluation :**
 - (a) The evaluation and comparison of responsive bids shall be done on the basis of Net cost to BSNL on the prices offered inclusive of packing, forwarding, freight and insurance charges etc., but excluding GST. The bid with lowest net cost as elaborated above will be the L1 bidder.
 - (b) Vendors should furnish the correct GST Rate in the price schedule. If the Input Tax Credit is found to be not admissible at any stage subsequently owing to wrong furnishing of GST Rate, then the vendors will be liable to refund such non-admissible amount, if already paid, along with penalty if charged by the concerned authority.
8. However, pursuant to the constitution (Forty-sixth amendment) act, 1982, if any further tax or levy is imposed by statute, after the last date of receipt of tenders, and the contractors there upon necessarily and properly pays such taxes/ levies, the contractor shall be reimbursed the amount so paid, provided such payment, if any, is not in the opinion of Superintending engineer (whose decision shall be final and binding) be attributable to delay in execution of work within the control of contractor.
9. The Contractor shall, within a period of 30 days of imposition of any further tax or levy in pursuant to the constitution of (Forty sixth amendment) act 1982 give a written notice there of to the Engineer-in-charge that the same is given pursuant to this condition, together with all necessary information relating thereto.
10. **Bye laws Indemnity against liabilities:**
 - a. The bidder shall comply with all bylaws and regulations of the local and statutory authorities

having jurisdiction over the works and shall be responsible for payment of all fees and other charges and giving and receiving all necessary notices and keep the Engineer –in-charge informed about the notices issued and received.

- b. The bidder shall indemnify the department against all claims in respect of patent rights design, trademark or name of other protected rights in respect of any plant, machine, work or materials used for or in connection with the works or temporary works and from and against all claims demands, proceedings, costs, charges and expenses whatsoever in respect of or in relation thereto.
- c. The bidder shall defend all actions arising from such claims and shall himself pay all royalties, License fees, damages, costs and charges of all and every sort that may be legally incurred in respect hereof shall be borne by the bidder.
- d. All liabilities / penal recoveries on matters arising out of tax /levies such as incorrect deductions, discrepancies in the filing of returns, revised assessments by the concerned authorities etc., shall be borne by the bidder.

11. Termination of contract on death of contractor :

Without prejudice of any of the rights or remedies under this contract, if the contractor dies, the Engineer in charge on behalf of the BSNL shall have the option of terminating the contract without compensation to the contractor.

12. Indulging of contractor in criminal /antisocial activities and cases under investigation/charge sheeted by CBI or any other government agencies etc. : If the CBI/Independent External Monitor (IEM) /Income tax/ Sales Tax /GST/ Central Excise/Custom Departments recommend such a course - Action will be taken as per the directions of CBI or concerned department.

13. As a general notion, the terms and conditions/instructions contained in various pages of this document are addressed assuming the bidder as 'Male'.However, the same shall remain and assumed to be addressed in case of 'Female' bidder also, except for the gender centric words, which shall be 'female' centric at appropriate places.

Undertaking to abide by EW 6 & EW 8

"I.....Son/Daughter of
.....Resident of hereby give an
undertaking that I have read the complete bid document and I am aware of all the clauses and sub
clauses of BSNL EW 6 & 8 forms and I confirm that I will abide by all the terms and conditions
available in BSNL EW 6 & 8 forms.

(Seal of the firm)

(Signature of Bidder)

Undertaking regarding EPF provisions

"I..... Son /Daughter of
.....Resident of hereby give an undertaking that

* I/We have employed only ----- persons in our establishment and hence the EPF and Miscellaneous provisions Act, 1952 is not applicable to my / our establishment.

* I/ We have registered as per the EPF and Miscellaneous provisions Act, 1952 and our registration no.** is ----- . We undertake to keep it valid during the currency of contract.

In case at any stage, it is found that the information given by me is false / incorrect, BSNL shall have the absolute right to take any action as deemed fit/without any prior intimation to me".

* strike out whichever is not applicable

**Attach a self-attested photo copy of the above said EPF registration certificate.

(Seal of the firm)

(Signature of Bidder)

Undertaking regarding ESI provisions

"I..... Son of
.....Resident of hereby give an undertaking that

* I/We have employed only ----- persons in our establishment and hence the ESI and Miscellaneous provisions Act,1948 is not applicable to my / our establishment.

* I/ We have registered as per the ESI and Miscellaneous provisions Act, 1948 and our registration no.** is ----- . We undertake to keep it valid during the currency of contract.

In case at any stage, it is found that the information given by me is false / incorrect, BSNL shall have the absolute right to take any action as deemed fit/without any prior intimation to me".

* strike out whichever is not applicable

**Attach a self-attested photo copy of the above said ESI registration certificate.

(Seal of the firm)

(Signature of Bidder)

Performance report of works

1. Name of Agency
2. Name of work
3. Agreement no.
4. Final Value of Work Done
5. Date of start of work
6. Actual date of completion
7. Performance: Satisfactory / Not Satisfactory

Dated:

Executive Engineer or Equivalent

No Near relative working certificate

I..... Son /Daughter of Shri..... Resident of.....
hereby certify that none of my relative(s) as defined in the tender document is/are employed in BSNL unit as per details given in tender document. In case at any stage, it is found that the information given by me is false/incorrect, BSNL shall have the absolute right to take any action as deemed fit/without any prior intimation to me.

(Seal of the firm)

(Signature of Bidder)

Annexure I
MODEL FORM OF BANK GUARANTEE FOR EMD
(For submitting EMD for Air Conditioning, Diesel Engine Alternator, Lifts, and Sub Station Works
wherever the amount of EMD is more than Rs.20,000/-)

Whereas _____ (hereinafter called "the bidder(s)") has submitted its Tender dated _____ for the work _____

_____ KNOW ALL
MEN by these presents that WE _____ OF
_____ having our registered office at _____
(hereinafter called "the Bank") are bound unto _____ (hereinafter called "the BSNL") in the sum of _____ for which payment will and truly to be made of the said BSNL, the Bank binds itself, its successors and assigns by these presents.

THE CONDITIONS of the obligation are:

1. If the Bidder(s) withdraws its Tender during the period of Tender validity specified on the Tender Form: or
2. If the Bidder(s) having been notified of the acceptance of its Tender by the BSNL during the period of Tender validity.
 - (a) Fails or refuses to execute the Contract.
 - (b) Fails or refuses to furnish security Deposit in accordance with the conditions of Tender document.

We undertake to pay to the BSNL up to the above amount upon receipt of its first written demand, without the BSNL having to substantiate its demand, provided that in its demand, the BSNL will note that the amount claimed by it is due to it owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force as specified in the Tender Document up to and including Thirty (30) days after the period of the Tender validity and any demand in respect thereof should reach the Bank not later than the specified date/dates.

Signature of the Bank

Signature of the Witness
Name of Witness

Address of Witness:

ANNEXURE II
PERFORMANCE SECURITY GUARANTEE BOND

In consideration of the CMD, BSNL (hereinafter called 'BSNL') having agreed to exempt _____ (hereinafter called 'the said bidder(s)') from the demand under the terms and conditions of an agreement/Advance Purchase Order No _____ dated _____ made between _____ and _____ for the supply of _____ (hereinafter called "the said agreement"), of security deposit for the due fulfilment by the said bidder (s) of the terms and conditions contained in the said Agreement, on production of the bank guarantee for _____ we, (name of the bank) _____ (hereinafter refer to as "the bank") at the request of _____ (bidder(s)) do hereby undertake to pay to the BSNL an amount not exceeding _____ against any loss or damage caused to or suffered or would be caused to or suffered by BSNL by reason of any breach by the said Bidder(s) of any of the terms or conditions contained in the said Agreement.

2. We (name of the bank) _____ do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the BSNL by reason of breach by the said bidder(s)' of any of the terms or conditions contained in the said Agreement or by reason of the bidders(s)' failure to perform the said Agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee where the decision of BSNL in these counts shall be final and binding on the bank. However, our liability under this guarantee shall be restricted to an amount not exceeding _____.

3. We undertake to pay to the BSNL any money so demanded notwithstanding any dispute or disputes raised by the bidder(s)/supplier(s) in any suit or proceeding pending before any court or tribunal relating thereto our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be valid discharge of our liability for payment there under and the bidder(s)/supplier(s) shall have no claim against us for making such payment.

4. We(name of the bank)_____ further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the BSNL under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till _____ (office/BSNL) BSNL certifies that the terms and conditions of the said Agreement have been fully or properly carried out by the said bidder(s) and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the expiry of TWO/TWO AND HALF/THREE YEARS (as specified in P.O) from the date hereof, we shall be discharged from all liabilities under this guarantee thereafter.

5. We (name of the bank)_____ further agree with the BSNL that the BSNL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said bidder(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the BSNL against the said Bidder(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Bidder(s) or for any forbearance, act or omission on the part of the BSNL or any indulgence by the BSNL to the said Bidder(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Bidder(s)/supplier(s).

7. We (name of the bank) _____ lastly undertake not to revoke this guarantee during its currency except with the previous consent of the BSNL in writing.

Dated the _____ day of _____

for _____ (indicate the name of bank)

Schedule of Quantities

Name of work: Annual comprehensive maintenance of AFD & Alarm system in TE Adyar, Chennai. (For 2019-20) Recall

SI No	HSN / SAC Code	Description of item	Quantity	Unit	Rate per Unit excluding GST	Amount excluding GST	CGST		SGST		IGST		Total Amount including GST
							%	Amount	%	Amount	%	Amount	
1	2	3	4	5	6	7 = (4 x 6)	8	9 = (7 x 8)	10	11 = (7 x 10)	12	13 = (7 x 12)	14 = (7 + 9 + 11 + 13)
1		Comprehensive maintenance of automatic fire detection and alarm system provided in TE Building Adyar comprising of fire alarm panels/detectors/hooters/MCPs/Response indicators/ Cabling and allied items i/c attending to minor faults/ replacements of faulty components/detectors and conduct of periodical checks as per specifications complete as required.	12months	month									
		TOTAL AMOUNT EXCLUDING GST											
		TOTAL AMOUNT INCLUDING GST											
		TOTAL AMOUNT EXCLUDING GST IN WORDS _____ _____											

IMPORTANT NOTES:-

1	The firm shall be responsible to ensure that GST shown in the above columns is correct & Input Tax Credit for the amount shown above is admissible as per GST Act as amended up to date”.
2	Invoice /Bill should be pre-printed as per the GST format.
3	The evaluation and comparison of responsive bids shall be done on the basis of Net cost to BSNL on the prices offered inclusive of packing, forwarding, freight and insurance charges etc., but excluding GST
4	The rates for all items of work shall, unless clearly specified otherwise, include cost of all labour, materials and other inputs involved in the execution of the terms as specified in the scope of work.
5	No advance payments can be made. Stipulations like levy of interest if payment is not made in a specified time are also not acceptable and the payment is governed by the normal BSNL practice.

WORK SPECIFICATIONS

A. GENERAL

1.0 SCOPE OF MAINTENANCE

- 1.1 Maintenance of services in the Technical/ Administrative/ Residential Building(s) as applicable in this contract means that all Services included in the schedule of work are kept in healthy clean and working condition. Specific details of maintenance activities required with regard to each service are detailed under sections pertaining to those service/technical specifications.
- 1.2 Maintenance shall be carried out as per instructions contained herein. However all other forms & instructions to be used shall be as per works instructions / forms & checklists etc., issued by from time to time. Wherever the term maintenance appears in the technical specification, it refers to the service for which comprehensive maintenance is undertaken unless otherwise specified. However the services under operation shall be generally maintained clean.
- 1.3 For the installation where the operation is not carried out round the clock, the firm shall ensure that the installation/inventory under maintenance is intact and any discrepancy/theft are reported immediately to JTO(E)/SDE(E)/ any other authorities concerned with maintenance
- 1.4 After the contract period is over the installation has to be duly handed over to the new agency along with the record of test results of equipments & associated items. Under supervision of SDE (E)/JTO (E) in charge. However installation is to be taken over by the new agency for maintenance within 15 days of award of work.

2.0 METHODOLOGY

- 2.1 It is presumed that contractor will provide minimum qualified staff at the site, which will be adequate to perform routine maintenance functions.
- 2.2 In case of faults beyond the capacity of the staff provided as above, contractor shall immediately provide extra-specialized work force so as to attend to the fault in minimum reasonable time without any extra cost.
- 2.3 At the start of work, firm shall prepare an inventory of service under maintenance jointly with J.T.O (E)/SDE (E), concerned.
- 2.4 Before start of the work complete equipments/services under scope of maintenance shall be thoroughly examined by the agency jointly with SDE(E)/JTO(E) concerned. All Defects/discrepancies should be brought to the notice of the SDE(E)/JTO(E) in writing within first 15 days of award of work. Defects/discrepancies agreed upon by BSNL shall be got attended by the outgoing agency before handing over the site to the new agency. If the outgoing agency fails to correct the defects/discrepancies within 15 days, the same shall be got done by BSNL at the risk and cost of the outgoing agency.
- 2.5 However any defect pointed out beyond 15 days, the agency is responsible for attending to the defects/discrepancies. Where the maintenance is taken over, for the first time, the defects / discrepancies shall be got attended by BSNL.
- 2.6 A complaint / fault Register as per **annexure- IV** shall be kept up-to-date at site by the firm and the same shall be available for checking & verification, wherever operation is also carried.

- 2.7 If during the period of contract, any of the items related to the services covered under the scope of work are added/ altered, all inclusive comprehensive maintenance of the same shall be done by the firm, and the rates will be regularized as per Clause -12 of EW 8. However in case of deletion of any items similar recovery shall be made from the bill of the contractor.
- 2.8 The details in the **annexure III** are approximate to give an idea of services to be maintained. Any variation on higher or lower side shall deem to be included at the initial take over. However the renderers are advised to inspect the site (s) and make them acquainted before quoting.

3.0 **MAINTENANCE PERSONNEL**

Service	Type	Skill requirements	No. of personnel	To be based at
<i>Maintenance of fire detection system.</i>	<i>Semi Skilled</i>	<i>Min. 10th Pass with atleast 2 years experience in the field</i>	<i>Sufficient personnel as per approved maintenance schedule of activity</i>	<i>Contractor's maintenance office with dedicated contact numbers.</i>

- 3.1 The services of the maintenance staff has to be available round the clock throughout the year even on holidays.
- 3.2 Agency shall issue identity cards to the workers and a list of personnel employed together with the copies of such identity cards should be submitted to SDE(E)/JTO(E) concerned. Since the staff are being deputed to vital government installation, the agency shall take necessary steps to verify the antecedents of the staff being deputed to BSNL installation. Any lapse in this regard on the part of the contractor shall result in suitable action as per law.
- 3.3 The workers engaged by firm should maintain proper discipline and good behavior with occupants. The firm shall remove such workers from the site whose behavior is found improper. Engineer – in – Charge's decision shall be final and binding.
- 3.4 Provision of Supervisor shall also be made as per standard form of contract (PWD8) which forms the part of this contract.
- 3.5 The firm and their personnel shall also co-ordinate, operate and feed information on automatic data collection services/automation devices that will be introduced by BSNL at any date during the tenor of contract.

4.0 **MATERIALS AND TOOLS & PLANTS**

- (A) Material 4.1 Wherever the scope of work includes comprehensive maintenance, such services, as per inventory shall be maintained on comprehensive basis i.e. no material will be supplied by the Department. The inventory shall be from BSNL approved make wherever applicable. Only replacement of major equipments as specified in Part-IV of relevant sections under technical specification which is required to be replaced as a whole after due scrapping shall be the responsibility of the BSNL. Till such time firm has to maintain the life expired equipment.
- 4.2 Contractor shall comply with any inclusion/exclusion in the above items and/or their quantity depending upon site requirements. The decision of the Engineer in charge shall be final in this regard.
- 4.3 The replacement of material shall be with the same rating and make as that of the original. The firm may also replace an item with energy efficient item wherever the same is available on intimation to JTO

(E). However, in case of non-availability of a particular make, Engineer-in-charge will approve the alternate make.

4.4. Dismantled and unserviceable items for which a replacement is supplied, shall be removed from the site under intimation to the JTO(E).

4.5 .All materials shall be of approved make, model and capacity and shall be matching to the system.

(B) TOOLS & PLANTS:

4.6. All tools and plants, testing & safety equipments required for carrying out various tasks relevant to maintenance have to be arranged by firm at its own cost.

4.7 As and when needed for inspection, the agency shall arrange for necessary and needed tools and plant at the site of work.

4.8 The Firm/Contractor will provide the workers with necessary Testing and Safety Equipment.

5.0 COMMERCIAL.

5.1 The tender must obtain himself on his own expenses, all the information necessary for the purpose of tendering, inspect the site and acquaint himself with all the local conditions, means of access to work and nature of work etc. No claim shall be entertained on this account.

5.2 Payment shall be made on **quarterly basis** after completion of maintenance period and on submission of bill in printed letter head together with requisite certificate and documents as per Clause 14 of Important instructions to Contractors and **annexure – VI & VII**.

5.3 The rates quoted must be full & final. Nothing extra is payable other than quoted rates. Clause10-CC shall not be applicable for this account.

6.0 DAMAGES TO BSNL INSTALLATION:

6.1 Any damage to the installation(s)/building during the maintenance period due to the carelessness on the part of maintenance staff shall be the responsibility of firm/contractor & shall be replaced/rectified by the firm without any extra cost.

6.2 Any accident or damage during maintenance/operation will be the responsibility of the firm/contractor & the Department will not entertain any claim, compensation, penalty etc. on this account or on account of non observance of any other requirement of law relevant to his work.

7.0 CURRENCY OF CONTRACT:

7.1 The currency of contract shall be 12 months. The Department reserves the right to terminate the contract by giving show cause notice of one-month duration at any time during the currency of the contract.

7.2 The Department reserves the right to extend the contract for a maximum period of six months (three months at a time) at the same rates & conditions, without the consent of the firm and beyond this period with mutual consent.

8.0 TERMINATION OF CONTRACT:

- 8.1 Right is reserved by BSNL for terminating the contract due to serious default. This includes major break down or accident or loss due to negligence on the part of firm, failure to attend breakdown, disobedience and abandoning the site etc. In such a case, Full Performance Guarantee shall be forfeited to BSNL. The decision of Superintending Engineer (E) in this regard shall be final and binding.
- 8.2 Right is reserved by BSNL for closure of the contract at any time by giving one month's notice for reasons not attributed to the Contractor. The decision of Executive Engineer shall be final and binding on the contractor for closure of contract and for which BSNL shall not entertain any claim.

9 PENALTY FOR DEFICIENCY IN SERVICE:

In case contractor fails to comply with preventive/ periodical maintenance schedules, penalty of 25% of one month's bill amount shall be imposed. However for genuine reasons, which is beyond the scope of the contractor such as immediate non availability of particular spare due to discontinuance of model etc, the firm shall represent the specific case in writing seeking additional time with due reasons and possible time of completion against which the EE(E) shall sanction/approve additional time as required.

2. In case of a major accident/loss on account of negligence on the part of the contractor, the contract shall be terminated and 10% of the estimated cost shall be recovered. Decision of Executive Engineer (E) shall be final and binding on the contractor.

3. If the performance is found to be unsatisfactory (Such as non-recording of data, failure to carry out periodical maintenance in time, etc., penalty upto 25% of one month's bill for that service for that site shall be recovered.

6. Repair etc. of faulty equipment for which comprehensive maintenance is included, if not done by the firm, will be got done at the risk & cost of firm, beyond 7 days of continuing failure(over and above the day's allowable as per above penalty clause table), without further notice. The decision of EE (E) shall be final in this regard.

7. Notwithstanding the compensation clause described above, BSNL reserves the right to take necessary steps for repairs as applicable at the risk and cost of the contractor within a day's notice or as decided by the E-in-C, depending upon the graveness of the situation attributed to the contractor. BSNL also reserves the right to carryout scheduled mtce activity, if not done the main form, at is risk & cost.

8. Executive Engineer(E) reserves the right to accept for delays due to reasons such as non availability of suitable replacement and such other causes which beyond the possible efforts of the firm Penalty for d

1) GENERAL CONDITIONS:

- 1.1. The contractor has to keep all the equipments in optimum working conditions.
- 1.2. Dates of maintenance and or breakdown calls shall be recorded in the relevant cards/registers
- 1.3. Contractor shall have a round the clock communication landline/ Mobile telephone number at Chennai. A complaint register shall be maintained as per annexure - IV. Disposal of complaint shall be recorded and monthly report shall be submitted to the SDE (E) concerned.
- 1.4. The contractor shall not sublet the work or part thereof. However, services of specialized agencies for specific work can be obtained.
- 1.5. The contractor agrees that he shall at all times indemnify BSNL against all claims for compensation under the provisions of any law for the time being in force or in respect of any person employed by it in carrying out the contract. Further, such staff has no right to claim employment in BSNL.

- 1.6. The Contractor will provide the workers with necessary T & P, Testing & safety equipments.
- 1.7. Contractor has to observe all the labour rules and regulations in force & BSNL shall not be liable for any default
- 1.8. Firm is responsible to keep workable spares and consumables for due performance of the contract. For critical spare parts, firm shall have arrangement with dealers for prompt supply..
- 1.9. The material used/replaced by the firm for the work shall have same specification. Alternate Make shall be allowed only after prior approval of the Engineer-in-Charge.
- 1.10. As fire detection alarm and fighting services are essential and of critical nature, the firm will ensure that the labourers engaged are well trained to take responsibility and initial steps under emergency situation.
- 1.11. In case of Emergency, contractor and/or his authorized engineer or supervisor shall be available at site on short notice from Engineer-in-charge and make all efforts to make the situation normal at the earliest

DOCUMENTS TO BE MAINTAINED AT SITE/MAINTENANCE OFFICE

The contractor shall maintain following documents,

- A complaint / fault register as per format given in annexure- IV.
- The **periodical service/fault report booklet for the system shall be kept at conspicuous location as desired by the user** [As per Annexure V]. The firm shall record all major breakdown maintenance carried out by the firm like rewinding of motor / replacement of compressor done, if any etc.

TEST CHECK BY THE FIELD ENGINEERS:

- ✓ For the purpose of assessing the quality of service rendered by the firm against the above contract, the EE, SDE & JTO shall carryout inspection & test checks of the service/work under the contract periodically.
- ✓ During these test checks they shall record any deficiency in the work. As per the principle of sampling, if service during sample test check is not found to be satisfactory, then penalty shall be imposed on the contractor as per the penalty clause no. 9.

13.0 Guarantee and Defect Liability

13.1 The guarantee for replaced components / equipments shall be valid for twelve months after successful commissioning. The contractor shall guarantee that all replaced components / equipments are free from any defects and also the equipments work with satisfactory performance.

13.2 Any part found defective during Guarantee period shall be replaced free of cost by the contractor. The service of the contractor's personnel, if required during this period shall be made available free of cost to the BSNL.

13.3 In case the contractor fails to depute his representative to attend the fault within the time frame stipulated in various clauses or fails to cause remedial measure within reasonable time as decided during joint inspection, the BSNL may proceed to do so at the contractor's risk and expenses and without prejudice to any right of the BSNL to recover such expenses.

14. List of Annexures

SL NO	Description of Annexure	Annexure
1.	Model Form Of Bank Guarantee	I
2.	Performance Security Guarantee Bond	II
3.	Size Of Services To Be Maintained	III
4.	Complaint cum Fault Register	IV
5.	Format for testing fire detectionsystem	(Annexure V)
6.	Format of 'Abstract of actual periodical maintenance carried out in the quarter ending _____'	VI
7.	Certificate to be submitted along with each bill	VII

SIZE OF SERVICES TO BE MAINTAINED**AFD AND ALARM SYSTEM**

Location	TE Building Adyar
No. of floors AFD provided	Ground G+2 floors of Technical bldg and G+3 floors of non technical bldg.
Type of components used	Both conventional and microprocessor based fire alarm panels, Detectors of ISD, PED and Heat sensor types, Manual call points, Response indicator, Hooters and repeater panel.

(The Details in this section are approximate to give an idea of services to be maintained. Any variation on higher or lower side shall deem to be included. However the renderers are advised to inspect the site(s) and make themselves acquainted before quoting)

DETAILS TO BE SUPPLIED BEFORE STARTING WORK WITHIN 15 DAYS

a) The following information to be be SUPPLIED WITHIN 15 DAYS of start of work. .

1.	Name of the Agency	
2	Address (of maintenance office)	
3.	Person to contact	
4.	Telephone No.	

b) Test details of the equipments taken over for maintenance and defects discrepancies noticed if any.

COMPLAINT / FAULT REGISTER

The following information shall be pasted in front cover of the register

Name of work:

Name of contractor:

Agreement No:

Name of Sub-Division:

Station/Exchange/Bldg:

Register Format:

Complaint No. (1)	Date & Time of complaint (FAULT) (2)	Location of fault.	Complaint Lodged by / FAULT Observed by (3)	Nature of complaint reported / Fault Observed (4)	Time & Date of attending complaint / Fault vide service report no. (6)	Proposed action to avoid future complaint / Fault (5)	Dated Signature of Firm's Representative (7)	Test Check by SDE/JTO with date (8)	Remarks (9)

FORMAT OF TEST REPORT FOR FIRE DETECTION SYSTEM :

Test report of Automatic Fire Detection and Fire Alarm system for.....at.....

(1) Supplied and Installed by :-

(2) Maintained by :-

(a) Operation & Comprehensive maintenance :

(3) Agreement nos. :-

(a) Operation & Comprehensive maintenance :

(4) Name of testing :- Testing Of Fire Detection & alarm system

(5) Date of testing :-

(6) In presence of following :

	Name	Designation
--	------	-------------

(1)

(2)

(3)

The testing of the above installation has been carried out and the results are stated below. The inventory of the installation has been attached.

(A) Whether the MCP and LCP have the following supervisory facilities and are healthy and good working condition: -

M.C.P.

L.C.P.

i) Open Circuits

ii) Short Circuits

iii) Reset Push Button

iv) Alarm Acknowledge

v) Lamp Test Push Button

Whether each control panel has the following facilities and are healthy and good working condition:

i) Fire Test

ii) Normal / Zone Isolation

iii) Alarm Test

Fault Trouble test.

(C) Check of Earthing: -

i) Main Control Panel

ii) Local Control Panel

(D) Check of Main Power Supply: -

i) Check of fuses.

(E) Check of Battery: -

M.C.P.

L.C.P.

i) Location of Battery

ii) Condition of Battery

iii) Check of Fuses

iv) Voltage

v) Specific Gravity

vi) Automatic Change over of the

System on Battery, in case of
Mains Failure.

vii) Remarks.

(F) Check of Open, Short, and Isolation of Detectors.

(G) Check of Operation / Activation of Detectors.

(H) Check of Manual Call Points (Pill Box).

(I) Functional Test of Control Panel & P. A. System.

(J) Check of alarms :

AUDIO

VISUAL

i) Mains Failure

ii) Open Circuit

iii) Short Circuit

iv) Close Circuit

v) Fuse Blown

vi) Low Voltage

vii) Reverse Polarity

viii) Remarks: -

(K) DEFECTS / DISCREPANCIES:

(L) CONCLUSION: -

Contractor's representative

Departmental Representative

ANNEXURE – VI

(To be submitted by the contractor along with the quarterly bill claim)

ABSTRACT OF ACTUAL PERIODICAL MAINTENANCE CARRIED OUT IN THE QUARTER ENDING _____

Name of contractor: _____.

Agreement No. : _____.

Month:

I. MONTHLY ACTIVITY:(Tick /fill relevant coloumn)

MONTHLY ACTIVITY	MAINTENANCE	DONE FOR ALL THE DAYS	NOT DONE FOR _____ MONTHS
---------------------	-------------	--------------------------	---------------------------

II. BIENNIAL ACTIVITY:(Tick /fill relevant coloumn)

BIENNIAL ACTIVITY	MAINTENANCE	DONE	NOT DONE
----------------------	-------------	------	----------

III. ANNUAL ACTIVITY:(Tick /fill relevant coloumn)

YEARLY ACTIVITY	MAINTENANCE	DONE	NOT DONE
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1. Certified that we have carried out maintenance properly as per schedule of work and as per terms and condition of the agreement and testing/drills etc. required during the period has been performed.

Contractor/ authorized representative

counter signed by

JTO(E)/ SDE(E)

ANNEXURE - VII

CERTIFICATE TO BE SUBMITTED ALONG WITH EACH BILL

1. CERTIFIED THAT WE HAVE CARRIED OUT THE SCHEDULED AND MAINTENANCE COVERED IN THE ABOVE CONTRACT SATISFACTORILY AND THE SERVICES HAVE BEEN UNDER SATISFACTORY WORKING CONDITION EXCEPT THE FOLLOWING DUE TO THE REASONS MENTIONED AGAINST THE RESPECTIVE ITEM:

Sl.No	ITEM/SERVICES	REASONS FOR NON CARRYING OUT

2. CERTIFIED THAT REQUIRED INVENTORY HAS BEEN REPLENISHED BY US.
3. CERTIFIED THAT EPF FOR THE EMPLOYEES ARE REMITTED WHEREVER APPLICABLE.
4. CERTIFIED THAT WE HAVE COMPLIED WITH PROVISIONS OF MINIMUM WAGES ACT 1948.

SIGNATURE OF CONTRACTOR

Counter signed by:

JTO (E)/SDE (E)

TECHNICAL SPECIFICATIONS

PART I: SCOPE OF WORK

FIRE DETECTION SYSTEM:

1. The contractor shall keep all the systems including associated electrical connections and accessories in clean and healthy working condition.
2. The contractor shall attend to faults promptly and within 48 hours of reporting as to bring back the system to satisfactory working condition and make entry in suitable registers for future reference.
3. Carrying out maintenance tasks as per maintenance schedule proforma. Record of the same shall be available for inspection.
4. Only replacement of complete installation which is required to be replaced as the whole shall be the responsibility of the department. In case there is general deterioration in the sensitivity of detector, then the firm shall take up this issue separately in writing with the Engineer in charge, indicating the response time of the detectors etc. Based on this BSNL shall take suitable action for continuing with/scrapping or replacement of the detectors. Till such time, the contractor shall keep the system in healthy condition and no material shall be issued by the department.

PART II: TASKS TO BE PERFORMED WITHIN 15 DAYS

Following tasks should be carried out within 15 days.

- 1) Enquiry office shall be established and system shall be organized with the approval of Engineer-in-charge so that complaints can be received and attended properly.
- 2) All maintenance documents/ registers shall be opened as per proforma.
- 3) The agency will familiarize with the installation and inspect the complete system and understand the requirements of installation. Any other relevant aspect which will come in the way of maintenance shall also be brought to the notice of Engineer in Charge.
- 4) Shall carry out tests as per test schedule before taking over the maintenance.
- 5) Upon successful taking over of the maintenance the agency will be responsible for the equipment and hand over the installation to the new agency in healthy condition after completion of the maintenance. In case the same agency continues for AMC, the agency will carry out these activities as per the prescribed maintenance schedule and will be responsible for rectification of defects and replacements of parts..
- 6) Prepare an inventory of materials/tools to be kept at site or to be in possession of the maintenance personnel, for prompt maintenance in consultation with Engineer-in-charge. Materials for all the services are to be considered. A tentative requirement of materials that are to be possessed with the
- 7) Shall collect information like the telephone numbers of the Exchange in charge, JTO(E), SDE(E),EE(E),Fire service, Supply Company, Local Hospitals, Emergency Services etc. and preserve it in the maintenance office.
- 8) Shall intimate the BSNL the list of staff to be employed at the site of work with all relevant particulars.

- 9) Identify person(s) for firefighting system maintenance and operation. Familiarize them with the system and it's working and ensure that they will be able to operate it when required.
- 10) Ensure that maintenance staff can operate fire extinguishers.
- 11) Educate maintenance personnel regarding steps to be taken in case of fire.

Part III – MAINTENANCE SCHEDULE TO BE FOLLOWED

1. Fire detection system

Detectors to be cleaned every three months from the out side and once a year with blower. This activity is to be carried out on continuous basis so that turn of each detector comes every months/year.

Testing on zones in such a manner that every zone is tested at least once in 3 months.

Note: The methodology to be worked out in consultation with Maintenance in charge as the same may vary according to number of detectors / zones. Proper record to be kept for monitoring. Defects have to be removed on PRIORITY basis.

The firm has to demonstrate to the Maintenance-in-charge proper working of the entire fire detection system once a month. Deficiencies if any noticed during demonstration shall be attended within a weeks' time.

In case of fire alarm it is expected that the maintenance person has to immediately rush to the trouble spot and also inform building in charge/fire Department. He should also take 'first aid' steps depending upon situation Specific details for first and steps to be worked out in consultation with maintenance in charge and kept on record.

In case of persistent problem or if required by the Engineer-in-charge arrange on inspecting by an expert in the fire detection system for identifying defects and solutions.

PART IV MATERIALS

All the materials required for carrying out routine maintenance with the exception of following shall be arranged by the contractor at his own cost.

1. Replacement of complete fire alarm panel, NOTE: - The replacement of material shall be with the same rating and make as that of the original. However, in case of non-availability of a particular make, the Engineer-in-charge will approve the alternate make.

BSNL APPROVED MAKES

S. No.	Item	Makes
1	Engine	Ashok Leyland /Cummins/ Cater pillar / KOEL/ Volvo Penta / Mahindra & Mahindra (up to 40 KVA) /Escorts (up to 30 KVA)/ Eicher (up to 20 KVA)
2	Alternator(Brushless)	Crompton Greaves (AL. series) / KEC / Leroy Somer / Stamford/Jyoti Ltd
3	Battery (Lead Acid / Mntc. Free)	Amara Raja / AMCO / Farukawa / Hitachi / Exide/ Prestolite / Standard
4	HV Switchgear (Vacuum Circuit Breaker/SF6)	Biecco Lawrie / Crompton / Kirloskar / MEI / Jyoti Ltd
5	Transformer (Oil filled / Dry type) a) Above 400 KVA	ABB / Schneider Electric /Andrew Yule / Bharat Bijlee / Crompton / EMCO / Kirloskar / Siemens
	b) Up to 400 KVA	In addition to above makes, Uttam/Automatic Electric Gear(AEG)/Patson/Rajasthan Transformer and Switchgear
6	Air Circuit Breaker	L&T/ Schneider Electric / Siemens
7	MCCB(lcs=Icu)	L&T/ Schneider Electric / Siemens
8	SDF units	L&T/ Schneider Electric / Siemens/ HPL/Havells
9	Power Contactors	L&T/ Schneider Electric / Siemens/ Lakshmi(LECS)
10	Change Over Switch	HPL / Havells / H-H Elcon
11	Intelligent APFC Relay	L&T/EPCOS(Siemens)/ Schneider Electric / Neptune Ducati/Syntron/ABB
12	Bus Bar Trunking/ Sandwiched Bus Duct	Moeller/L&T/Schneider Electric/ABB/Legrand/Zeta
13	Power Capacitors (MPP/APP)	L&T/EPCOS(Siemens)/ABB/Crompton/ Schneider Electric/Neptune Ducati
14	Digital/ KWHr meter	Schneider Electric/ AE/ Digitron / IMP/ Meco / Rishabh / Universal/HPL/L&T/ABB
15	Cold shrink HT/LT Cable Joint	Denson / 3M(M-Seal)/ Raychem
16	Rubber Matting	ISI mark
17	MCB/ Isolator /ELCB/RCCB/ Distribution Board	Crompton / Havells / Indokopp / MDS Legrand/ L&T / Schneider Electric/ Siemens / Standard/ C&S/ABB/HPL
18	MS/ PVC Conduit	ISI mark
19	Cable Tray	MEM/Bharti/Ratan/Slotco/Profab
20	HT/LT Cables	ISI mark
21	PVC insulated copper conductor wire	ISI mark
22	Centrifugal Pump	Amrut / BE / Beacon / Batliboi / Crompton / Jyoti / Kirloskar / KSB / Mather & platt / WASP/Grundfos
23	Submersible Pump	Crompton/Amrut / BE / Calama / Kirloskar / KSB
24	Motors	ABB/ Bharat Bijlee / Crompton Greaves / Schneider Electric / HBB / KEC / Siemens/Jyoti Ltd
25	Fresh Air Fans	GE / Khaitan/Almonard/Crompton

26	Starter	ABB / BCH / Schneider Electric / L&T / Siemens /
27	Single Phase Preventer	L&T / Minilec / Siemens / Zerotrip
28	GI/MS Pipe	ATC / ATL / BST / GSI / ITC / ITS / IIA / JST / Jindal / TTA / Tata/Zenith
29	Foot Valve	ISI mark
30	Gate Valve	Advance/Audco/Johnson Controls/Zoloto/Annapurna / Fountain / Kirloskar / Leader / Sant / Trishul
31	Compressors	Carrier/Emerson copeland/York/Danfoss (for chillers only)
32	Resin Bonded Glass wool	Fibre Glass / Pilkington / UP Twiga
33	Expanded Polystyrene	BASF(India) Ltd.
34	Gauge	Feibig / H.Guru / Pricol
35	Controls	FLICA / Honeywell / Indfoss / Penn-Danfoss / Ranco / Ranutrol / Sporland
36	Fine Filters	Anfiltra Effluent / ARW / Athlete/ Airtake/ Dyna / Kirsloskar/ Puromatic/ Purafill/ Purolator / Tenacity
37	GI Sheet	HSU Jindal / National / Nippon Denro / Sail / Tata
38	Heat Detector	Appollo / Chemtron/ Edward / Fenwal/ Hochiki / Nitton /System Sensor/ Wormald/Honeywell Essar/Notifier
39	Ionization Detector	Appollo / Cerebrus / Edward/ /Fenwal / Hochiki / Nitton / System Sensor / Wormald
40	Photo Electric Smoke Detector	Appollo / Cerebrus / Edward / Fenwal/ Hochiki / Nitton / Wormald
41	Fire Panel (Microprocessor based)	Agni Instruments / Agni Devices/ Aruna Agencies/ Carmel Sensor / Ravel Elect./Honeywell Essar/Notifier/Navin Systems
42	Sprinkler/ Hose Reel & Hose Pipe	ISI mark
43	Fire Extinguisher	ISI mark

Note: Makes not mentioned above, but has been approved by BSNL HQ till the date of call of this tender shall also taken as approved make.

EXECUTIVE ENGINEER(E)

LIST OF INDIAN STANDARDS

- I.S.277 Galvanized steel sheets.
- I.S.325 Three Phase Induction Motors
- I.S.655 Metal Air Ducts
- I.S.732 Code of Practice for Electrical Wiring and fittings for Buildings.
- I.S.778 Gun Metal Gate, Globe and Check Valves for general purposes.
- I.S.900 Code of Practice for Installation and Maintenance of Induction Motors.
- I.S.996 Single Phase small AC and Universal Motors.
- I.S.1239 Mild Steel Tubes, G.I. Pipes, Tubular and other wrought steel fittings.
- I.S.1248 Direct Acting Electrical Indicating Instruments.
- I.S.1520 Horizontal Centrifugal Pumps for clear, cold and fresh water.
- I.S.1554 PVC Insulated (heavy duty) Electrical Cables (Part-I) for working voltages upto and including 110 volts.
- I.S.2372 Timber for cooling towers.
- I.S.2516 AC Circuit Breakers.
- I.S.2592 Recommendation for Methods of Measurements of Fluid flow by means of Orifice Plates and Nozzles.
- I.S.1822 Motor Starters of Voltage not exceeding 1000 volts.
- I.S.2208 HRC Cartridge Fuse – Links upto 650 volts.
- I.S.3589 Electrically welded steel pipes for water, gas and sewage.
- I.S.3624 Bourden Tube Pressure and Vacuum Gauges.

- I.S.4047 Heavy Duty air break switches and composite units of air break switches and fuses for voltage not exceeding 1000 volts.
- I.S.6392 Steel Pipe Flanges.
- I.S.7403 Code of Practice for Selection of Standard Worm and Helical Gear Boxes.
- I.S.8148 Specification for packaged air conditioning.
- CPWD General Specifications for Heating, Ventilation & Air conditioning (HVAC)-2004

IMPORTANT NOTE

All references to I.S.I. appearing in this specification may be read as Bureau of Indian Standards, Latest amended versions.

LIST OF SAFETY STANDARDS

- I.S.618 Code of Practice for safety and health requirements in Electrical and Gas Welding and Cutting Operations.
- I.S.659 Safety code for Air Conditioning.
- I.S.660 Safety code for Mechanical Refrigeration.
- I.S.3016 Code of Practice for Fire precautions in welding and cutting operations.
- I.S.3210 Code for Safety procedures and practices in Electrical works.
- I.S.3696 Safety for Scaffolds and Ladders.

PROFORMA OF SCHEDULES

(Operative Schedules to be supplied separately to each intending tenderer)

SCHEDULE 'A'

Schedule of quantities : Attached

SCHEDULE 'B'

Schedule of materials to be issued to the bidder: Nil

SCHEDULE 'C'

Tools and plants to be hired to the bidder: Nil

SCHEDULE 'D'

Extra schedule for specific requirements/documents for the work, if any: Nil

SCHEDULE 'E'

Schedule of components of Materials, Labour etc. for escalation: Nil

SCHEDULE 'F'

Reference to General Conditions of contract :

Name of work:	As per NIT notification page
Estimated cost of work:	
Earnest money:	
Security Deposit and performance Guarantee	

General Rules & Directions: Officer inviting tender: Executive Engineer (E)
Electrical Division-III Chennai

Definitions:

2(v) Engineer-in-Charge Executive Engineer (E)
Electrical Division-III Chennai

2(vi) Accepting Authority Executive Engineer (E)
Electrical Division-III Chennai

2(x) Percentage on cost of materials and labour to cover all over heads and profits 10% (TEN)

CLAUSE 5

Time allowed for execution **One Month**

Authority to give fair and reasonable extension of time for completion of work: SE(E),EC-II,Chennai

Competent Authority for deciding reduced rates: SE(E),EC-II,Chennai

Clause 25

Competent authority for conciliation: SE (E) not in-charge of the work.

BSNL EW-8

Bharat Sanchar Nigam Limited
Electrical Wing

Electrical Division: **ED-III, Chennai**

Sub Division: **Stores**

1. I/we have read and examined the notice inviting tender, schedule, specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, special conditions, Schedule of Rates and other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.
2. I/We hereby tender for the execution of the work specified for BSNL within the time specified, schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions and other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.
3. I/We agree to keep the tender open for ninety (90) days from the due date of submission thereof and not to make any modifications in its terms and conditions.
4. If I/We, fail to commence the work specified, I/We agree that the said BSNL shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely and the same may at the option of the competent authority on behalf of BSNL be recovered without prejudice to any other right or remedy available in law out of the deposit in so far as the same may extend in terms of the said bond and in the event of deficiency out of any other money due to me/us under this contract or otherwise.
5. Should this tender be accepted, I/We agree to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered up to maximum of percentage mentioned in clause 12.3 of the tender form and those in excess of that limit at rates to be determined in accordance with provisions contained in clause 12.2.
6. I/we agree to furnish to BSNL, Deposit at Call receipt/FDR/ Bank guarantee of a Nationalized/ Scheduled Bank for an amount equal to 5% of the contract value in a standard format within two weeks from the date of issue of award letter. I/We agree to keep the performance bank guarantee valid as per the BSNL terms and conditions.
7. I/We hereby declare that I/We shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information/derived there from to any person other than to whom I/We am/are authorized to communicate the same or use the information in any manner prejudicial to the safety or interest of BSNL.

<p>Signature of Witness (required in the case of bidder's thumb impression is given by the bidder in place of signature) Occupation of Witness :</p>	<p>(Signature of bidder) (Name & Postal address)</p> <p>Seal of Bidder</p> <p>Date:</p>
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Acceptance of Tender

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

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

- a)
- b)

For & on behalf of BSNL

Dated

Signature :

Designation :