

Name of work: Providing EI & Fans, CCTV, Access control system and AFD system for the at V & VI floor of Administrative Bldg Kushkumar Road, Chennai. (SW: Providing EI & Fans)



BHARAT SANCHAR NIGAM LIMITED

(A Govt of India Enterprise)
(Electrical Wing)

O/o The Executive Engineer (E)

BSNL Electrical Division-III

No.22, Kellys Road,

Chennai - 600010.

Office: 044-26470123, 26448081

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E-TENDER DOCUMENT

NAME OF WORK: Providing EI & Fans, CCTV, Access control system and AFD system for the Enforcement Directorate at V & VI floor of Administrative Bldg Kushkumar Road, Chennai. (SW: Providing EI & Fans)

NIT No: 12/EEE/ED-III/CH/2022-23

This tender document contains **39 (Thirty Nine)** pages only.

For E Tender Helpdesk Pls Contact: [https:// etenders.gov.in](https://etenders.gov.in).

Ph: 0120-4200462/4001002/4001005/6277787

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**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR E-TENDERING FORMING PART OF NIT
AND TO BE POSTED ON WEBSITE**

The Executive Engineer (E), BSNL Electrical Division III on behalf of the CMD, BSNL invites online Item rate bids from eligible bidders in Single bid system for the following work:

1	Name of work	Providing EI & Fans, CCTV, Access control system and AFD system for the Enforcement Directorate at V & VI floor of Administrative Bldg Kushkumar Road, Chennai. (SW: Providing EI & Fans)
2	Estimated cost put to tender	Rs.28,67,507/- (ex. GST)
3	Earnest Money	Rs.57,350/-
4	Period of completion	Two months or 15Days after completion of Civil work whichever is later
5	Tender Fee(Non-refundable)	Rs. 500/- + 18% GST.
6	Last date & time for online submission of tender	Up to 15:00 Hrs. on 05.07.2022
7	Date and time for opening of tender	15:30 Hrs. on 06.07.2022

ELIGIBILITY CRITERIA

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

(OR)

The contractors satisfying the following condition:

The Contractor enlisted in CPWD, MES and Railways in respective class as per their tendering limits.

(AND)

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 for Electrical sub head.

(AND)

Experience of having successfully completed similar works in Central Government / State Government/ Central Govt autonomous body/Central Govt public sector undertaking during last 7 years ending last day of month previous to the one in which applications NIT 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

(OR)

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

(OR)

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

Note: Similar work means "Providing EI & Fans, LT Panels as part of the scope of work". Decision of the tender opening authority/committee is final.

IMPORTANT NOTE:

1. The self-attested copies of the following documents shall be scanned and uploaded to the e-tendering website within the period of tender submission. Online bid documents submitted by intending bidders shall be opened only of those bidders, who have scanned and uploaded the following documents (and whose uploaded documents are found to be in order), otherwise the bid will not be opened and shall lead to disqualification.
 - a. Tender Fee in the prescribed format.
 - b. EMD in the prescribed format.
 - c. Certificate of Financial Turnover from Chartered Accountant.
 - 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.
 - g. GST Registration Number details.
 - h. PAN Card.
 - i. EPF and ESI Registration certificate (if applicable)
 - j. Undertaking to abide by EW-6 and EW-8 (Form 'A')
 - k. Undertaking regarding EPF and ESI provisions (Form 'B')
 - l. Certificate of work experience issued by client department (Form 'C') if applicable
 - m. Undertaking regarding No Near relative working certificate (Form 'D')

Not uploading the above documents, (even if the documents are submitted physically) shall lead to disqualification.

2. . The Physical Tender Fee, EMD, the original authorisation letter by the manufacturer (wherever applicable), (the scanned copies of which are uploaded) shall be deposited in the tender box available in the office of tender opening authority, by the bidder within in 5 days from the tender opening date, failing which the tender will not be considered for further processing.

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BSNL EW-6
Bharat Sanchar Nigam Limited
Electrical Wing

Electrical Division: ED III, Chennai

Sub Division: ESD II, Chennai

Item rate tenders on single bid system are invited on behalf of CMD, BSNL for the work ***“Providing EI & Fans, CCTV, Access control system and AFD system for the Enforcement Directorate at V & VI floor of Administrative Bldg Kushkumar Road, Chennai. (SW: Providing EI & Fans)”*** 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. 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.
2. The work is estimated to cost **Rs.28,67,507/- (Excluding GST)**
3. 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.
4. The time allowed for carrying out the work will be **Two months or 15 Days after completion of Civil work whichever is later**
5. 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.
6. 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 <https://etenders.gov.in> at free of cost. The BSNL EW-8 document can be seen from the web site www.chennai.bsnl.co.in at free of cost.
7. After submission of the bid, the bidder can re-submit revised bid any number of times but before last time and date of submission of tender as notified. While submitting the revised bid, bidder can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of tender as notified.
8. The Tender Fee Rs. 500+18% GST 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** shall be scanned & uploaded in the e-tendering website within the period of tender submission. 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) for **Rs.57,350/-** 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** shall be scanned & uploaded in the e-tendering website within the period of tender submission. 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

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deposit. Exemption from payment of Tender Fee, Earnest Money and Security Deposit by any other unit/ department shall not hold good for BSNL.

10. All the documents as specified in the tender document shall be scanned and uploaded to the e-Tendering website within the period of bid submission.
11. The last date for online submission of bid is **05.07.2022** up to 3:00 PM and the bid submitted shall be opened on **06.07.2022** at 03:30 PM. If a holiday is declared on the tender opening day, the tender will be opened on the next working day.
12. The tender cost is non-refundable
13. **Performance Guarantee:** The bidder is required to furnish Performance guarantee for an amount equal to 3% 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 (**APO- Advance purchase order**). 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. **The award letter (PO) shall be issued only after receipt of the performance guarantee. In case the bidder fails to deposit the said performance guarantee within the stipulated period, including the extended period if any, BSNL will be at liberty to disqualify the bidder from bidding for any contract with BSNL for a period of one year from the date of disqualification as may be notified by BSNL (without Prejudice to BSNL's rights to claim damages or any other legal recourse).**
14. **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.**
15. In case any discrepancy is noticed in the documents as uploaded at the time of submission of the bid online, then the bid submitted shall become invalid 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.
16. 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

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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.

17. 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.
18. 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.
19. 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.
20. 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.

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21. 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.
22. The agency 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'**.
23. **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.
24. 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.
25. 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 online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
 - b. Standard BSNL EW-8 form

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. Those bidders not registered on the website mentioned above, are required to get registered themselves beforehand. The intending bidder must have valid class-III digital signature to submit the bid.
5. Tender Bidding Methodology: - "Single bid System".
6. On opening date, the bidder can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
7. Bidder can upload documents in the form of JPG format or / and PDF format.
8. Bidder must ensure to quote rate of each item. The column meant for quoting rate in figures appears in yellow colour. In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO)
9. 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.
10. 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.
11. 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.
12. **Tender Evaluation :**
 - (a) The evaluation and comparison of responsive bids shall be done on the basis of Total cost on the prices offered inclusive of Taxes, packing, forwarding, freight and insurance charges etc.,. The bid with lowest total 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.~~

13. 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.
14. 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 thereof to the Engineer-in-charge that the same is given pursuant to this condition, together with all necessary information relating thereto.
15. **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.
16. **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.
17. **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.
18. 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.

FORM 'A'

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)

FORM 'B'

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)

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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)

FORM 'C'

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

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FORM 'D'

No Near relative working certificate

I..... Son /daughter of Shri/ Smt.....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:

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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)

Name of work: Providing EI & Fans, CCTV, Access control system and AFD system for the at V & VI floor of Administrative Bldg Kushkumar Road, Chennai. (SW: Providing EI & Fans)

Name of work: Providing EI & Fans, CCTV, Access control system and AFD system for the Enforcement Directorate at V & VI floor of Administrative Bldg, Kushkumar Road, Chennai. (SW: Providing EI & Fans)										
Sl.no	Description of Items	Qty	Unit	Rate	Total Amount excl. GST	CGST		SGST		Total Amount including GST
						% Rate	Rate per unit	% Rate	Rate per unit	
1	2	3	4	5	6 = 3x5	7	8 = 6x7	9	10 = 6x9	11= (6+8+10)
Sl No.	Description of Item	Qty	Unit		Amount					
	<u>SH-I (Wiring)</u>									
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.									
a	Group C	283 Points	point							
2	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections etc. as required.									
a)	13/10/6 A Combi socket for all pins	199 Nos	each							
b)	20 A one way switch	89 Nos	each							
c)	6/16 A Twin socket	11 Nos	each							
d)	10A one way switch	102 Nos	each							
e)	10A multi socket (2 pin & 3 pin)	102 Nos	each							
f)	Blanking plate	78 Nos	each							
3	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.									
a)	3 module	113 Nos	each							
b)	6 module	35 Nos	each							

Unpriced schedule

Contractor

Engineer in Charge

Name of work: Providing EI & Fans, CCTV, Access control system and AFD system for the at V & VI floor of Administrative Bldg Kushkumar Road, Chennai. (SW: Providing EI & Fans)

c)	8 module	43 Nos	each							
4	Supplying and fixing following module GI box on surface or in recess etc. as required.									
a)	3 module	113 Nos	each							
b)	6 module	35 Nos	each							
c)	8 module	43 Nos	each							
5	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel / PVC conduit as required.									
a	3 x 1.5 sq. mm	1400 mtrs	mtr							
b	6 x 1.5 sq. mm	100 mtrs	mtr							
c	3 x 2.5 sq. mm	700 mtrs	mtr							
d	6 x 2.5 sq. mm	170 mtrs	mtr							
e	3 x 4 sq. mm	540 mtrs	mtr							
f	6 x 4 sq. mm	300 mtrs	mtr							
g	3 x 6 sq. mm	40 mtrs	mtr							
6	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.									
a	20 mm	2800 mtrs	mtr							
b	25 mm	1700 mtrs	mtr							
c	32 mm	1000 mtrs	mtr							
7	Supplying and fixing of following sizes of PVC trunking along with flexible cover, on surface of wall / ceiling etc. as required.									
a	195 mm x 50 mm (Make: Legrand / Similar superior)	20 mtrs	mtr							
b	80 mm x 50 mm (Make: Legrand / Similar superior)	150 mtrs	mtr							

Unpriced schedule

Contractor

Engineer in Charge

Name of work: Providing EI & Fans, CCTV, Access control system and AFD system for the at V & VI floor of Administrative Bldg Kushkumar Road, Chennai. (SW: Providing EI & Fans)

8	Supplying and fixing of right / left end cap for the following sizes of PVC trunking system etc. as required.									
a	195 mm x 50 mm (Make: Legrand / Similar superior)	8 Nos	each							
b	80 mm x 50 mm (Make: Legrand / Similar superior)	10 Nos	each							
9	Supplying and fixing of following items for underfloor distribution of power / data cables i/c cutting the floor and making good the same etc. as required.									
a	1.2 mm thick Aluminium trunking of size 100 mm x 45 mm	175 mtrs	mtr							
b	16 SWG MS powder coated Junction Box of size 150 mm x 150 mm x 50-55 mm	12 Nos	each							
10	Supplying and laying of following sizes of PVC flexible hose etc. as required.									
a	20 mm	160 mtrs	mtr							
b	25 mm	100 mtrs	mtr							
11	Supplying and fixing following ways surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's, with provision for FP MCCB as incomer, interconnection between incomer MCCB and bus bars (but without MCB's / MCCB) as required . (AC DB)									
a)	12 Way, Double Door	2 Nos	each							
12	Supplying and fixing following ways surface/ recess mounting, 415 volts, TPN Phase Segregated MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of tinned copper bus bar, neutral bar, earth bar, din bar for mounting MCB's, with provision for FP MCB/Isolator as incomer and DP RCCB/RCBO as sub-incomer, interconnections (but without MCB's / Isolator / RCCB / RCBO) as required . (Lighting, Power & UPS DB)									

Unpriced schedule

Contractor

Engineer in Charge

Name of work: Providing EI & Fans, CCTV, Access control system and AFD system for the at V & VI floor of Administrative Bldg Kushkumar Road, Chennai. (SW: Providing EI & Fans)

a)	8 Way, Double Door	6 Nos	each							
13	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) (Emergency Light DB)									
a)	16 Way, Double Door	2 Nos	each							
14	Supplying and fixing of sheet steel enclosure on surface / recess suitable for fixing FP Isolator / MCB etc. as required.	4 Nos	each							
15	Supplying and fixing of SMC / FRP junction box of size 200 mm x 140 mm x 95 mm on surface etc. as required.	4 Nos	each							
16	Providing and fixing of following rating and breaking capacity and pole MCCB in the existing MCB DB, making connections, etc. as required.									
a)	100 Amps, 18 kA, FPMCCB (Make: L&T, DU100D / Similar superior model & make)	2 Nos	each							
17	Supplying and fixing 6 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.									
a)	Single pole	218 Nos	each							
b)	Double pole	2 Nos	each							
18	Supplying and fixing 63 amps rating, 415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.									
a)	Double pole	18 Nos	each							
b)	Triple Pole	4 Nos	each							

Unpriced schedule

Contractor

Engineer in Charge

Name of work: Providing EI & Fans, CCTV, Access control system and AFD system for the at V & VI floor of Administrative Bldg Kushkumar Road, Chennai. (SW: Providing EI & Fans)

c)	Four Pole	10 Nos	each							
19	Supplying and fixing of one number PVC insulated and PVC sheathed aluminium conductor armoured cable of 1.1 KV grade of following size on wall surface as required.									
a)	4 x 25 sq.mm	150 mtrs	mtr							
b)	3½ x 50 sq.mm	35 mtrs	mtr							
20	Supplying and Laying of one number PVC insulated and PVC sheathed aluminium conductor armoured cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.									
a)	4 x 25 sq.mm	30 mtrs	mtr							
b)	3½ x 50 sq.mm	10 mtrs	mtr							
21	Supplying and fixing of one number PVC insulated and PVC sheathed copper conductor armoured cable of 1.1 KV grade of following size on wall surface as required.									
a)	4 x 10 sq.mm	40 mtrs	mtr							
b)	4 x 16 sq.mm	140 mtrs	mtr							
22	Supplying and Laying of one number PVC insulated and PVC sheathed copper conductor armoured cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.									
a)	4 x 10 sq.mm	5 mtrs	mtr							
b)	4 x 16 sq.mm	20 mtrs	mtr							
23	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.									
a)	4 X 25 sq. mm	12 Sets	set							
b)	3½ X 50 sq. mm	4 Sets	set							

Unpriced schedule

Name of work: Providing EI & Fans, CCTV, Access control system and AFD system for the at V & VI floor of Administrative Bldg Kushkumar Road, Chennai. (SW: Providing EI & Fans)

24	Supplying and making end termination with brass compression gland and copper lugs for following size of PVC insulated and PVC sheathed / XLPE copper conductor cable of 1.1 KV grade as required.									
a)	4 X 10 sq. mm	2 Sets	set							
b)	4 X 16 sq. mm	8 Sets	set							
25	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel / PVC conduit as required.									
a)	10 sq.mm	40 mtrs	mtr							
b)	16 sq.mm	40 mtrs	mtr							
26	Supplying and making end termination with copper lugs for the following sizes of FRLS PVC insulated copper conductor, single core cable etc. as required.									
a)	10 sq.mm	8 Nos	each							
b)	16 sq.mm	8 Nos	each							
27	Supplying and fixing of following types LED fittings on surface of wall i/c making connections with copper conductor cable etc. as required. (Make:- Havells/Crompton/Philips/Wipro/Bajaj)									
a)	20W, 4 feet LED Batten	16 Nos	each							
b)	20W LED Bulk Head	8 Nos	each							
28	Supplying and fixing of wall mounting type cubicle panel made of 16 SWG MS sheet of nominal size 450 mm(W) x 600 mm(H) x 200mm (D) i/c making necessary cutting, welding, powder painting and comprising of following etc. as required.									
	a) 63 A 'C' curve Four Pole MCB - 3 Nos									
	b) 100 A Aluminium Bus bar for R, Y, B & N									
	c) interconnection cables between bus bars and MCBs									
	/All the above comprise one job/	2 Jobs	job							

Unpriced schedule

Contractor

Engineer in Charge

Name of work: Providing EI & Fans, CCTV, Access control system and AFD system for the at V & VI floor of Administrative Bldg Kushkumar Road, Chennai. (SW: Providing EI & Fans)

29	Supply, Installation, Testing & Commissioning of single phase, 250 mm, 1200 rpm, exhaust fan in the existing opening i/c making connections etc. as required.(Make :- GE, Crompton, Havells, Khaitan, Usha or SS)	14 Nos	each							
30	Supplying and fixing of wall mounting type cubicle panel made of 16 SWG MS sheet of nominal size 800 mm(W) x 1400 mm(H) x 300mm (D) i/c making necessary cutting, welding, powder painting and comprising of following etc. as required.									
	a) VAF + PF Meter, Class 1 accuracy - 1 No (Make: L&T, 4110 series / similar superior)									
	b) LT Current Transformer of 200/5 Amps, 10VA / Class 1 accuracy for metering - 1 Set									
	c) LED type R Y B indication lamp along with control fuses / MCBs - 1 Set									
	d) 200 A TPN SDFU along with 200 A DIN type HRC fuses - 1 No. (Make: L&T / Similar superior)									
	e) 100 A TPN SDFU along with 100 A DIN type HRC fuses - 1 No. (Make: L&T / Similar superior)									
	f) 63 A TPN SDFU along with 63 A cylindrical type HRC fuses - 3 Nos. (Make: L&T / Similar superior)									
	g) 200 A Aluminium Bus bar for R, Y, B & N									
	/All the above comprise one job/	2 Jobs	job							
31	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	2 Sets	set							
32	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring / cable as required.	100 mtrs	mtr							

Unpriced schedule

Contractor

Engineer in Charge

Name of work: Providing EI & Fans, CCTV, Access control system and AFD system for the at V & VI floor of Administrative Bldg Kushkumar Road, Chennai. (SW: Providing EI & Fans)

33	Supply of following LED fittings with drivers including supply of 2 nos. chain arrangement/clip, 3 core 1.5 sq. mm FR PVC insulated copper conductor wire for interconnection, flexible PVC hose/conduit and all other accessories etc., complete as required. Note: All the light fittings should have the following features a) THD shall be less than 10% b) PF should be 0.9 or better c) RoHS compliance d) CRI > 80 e) LED life should be 50000 Hrs (Make:- Havells/Crompton/Philips/Wipro/Bajaj)									
a)	LED recess mounted type Panel Luminaire 2'x2' size not exceeding 36 Watts, capable of delivering 3600 lumens (min) output, CCT 5700 K or more	146 Nos	each							
b)	LED recess mounted type Down lighter (Round) upto 15 W (Max) suitable for delivering 1500 lumens (min) output, CCT 5700K or more	105 Nos	each							
c)	LED COB Type Surface/Suspended Downlighter with a nominal system lumen output of 1500 lumens (110Lm/W) and Luminaire wattage should not exceed 15W Also Safe operating voltage 140-270V AC	4 Nos	each			<u>Unpriced schedule</u>				
d)	1 x 5watts per Mtrs cove LED light fitting of with necessary standard accessories also. (5mtrs strips with ballast)The supply of accessories like clamps, supporting brackets and hardwares as required and interconnecting with 3 core 1.5 sqmm PVC insulated FRLS copper wire with all accessories required as per site conditions	10 Nos	each							

Name of work: Providing EI & Fans, CCTV, Access control system and AFD system for the at V & VI floor of Administrative Bldg Kushkumar Road, Chennai. (SW: Providing EI & Fans)

e)	LED Suspended Continuous LED Linear Light with a nominal system lumen output of 2200 lumens (100Lm/W) IP20, Wattage: 22W, SPD should be provided with 4KV, L = 1130 mm Width = 50 mm, CCT 5700K or more and it should be EXTRUDED Al Housing with PS Diffuser. The supply of accessories like clamps, supporting brackets and hardwares as required and interconnecting with 3 core 1.5 sqmm PVC insulated FRLS copper wire with all accessories required as per site conditions	4 Nos	each						
f)	LED Suspended Continuous LED Linear Light with a nominal system lumen output of 1200 lumens (100Lm/W) and The Technical Parameter should be as below CRI >80, THD <10, SDCM<5, IP20, Wattage: 12W, Color Temperature : 5700k, SPD should be provided with 4KV, Luminaire wattage should not exceed 20W Dimension: L = 1130 mm Width = 50 mm , CCT 5700K or more and it should be EXTRUDED Al Housing with PS Diffuser. The supply of accessories like clamps, supporting brackets and hardwares as required and interconnecting with 3 core 1.5 sqmm PVC insulated FRLS copper wire with all accessories required as per site conditions	4 Nos	each			<u>Unpriced schedule</u>			
34	ITC of various types of LED fittings in the false ceiling/surface including fixing of 2 Nos chain arrangement / Clip etc with suitable accessories like clamps, supporting brackets and hardwares and making interconnections as required and complete as required as per site conditions	273 Nos	each						
Total excl GST						Total incl GST			

Contractor

Engineer in Charge

Name of work: Providing EI & Fans, CCTV, Access control system and AFD system for the at V & VI floor of Administrative Bldg Kushkumar Road, Chennai. (SW: Providing EI & Fans)

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	Tax Invoice /Bill of supply should be pre-printed with all the details as per the requirement under GST Act.
3	The evaluation and comparison of responsive bids shall be done on the basis of Total cost on the prices offered inclusive of Taxes, packing, forwarding, freight and insurance charges etc.
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.
6	Bidders must mandatorily quote for all GST components (CGST, SGST, IGST) as applicable.
7	Bidders must mandatorily mention correct HSN / SAC codes.

Contractor

Engineer in Charge

TECHNICAL SPECIFICATIONS

1. The work is to be carried out as per CPWD specifications (Internal/External) and I.E. Rule amended from time to time & Indian Electricity Rules as amended up to date.
2. Good workmanship is an essential requirement to be complied with. The entire work of Manufacture, Fabrication, assembly and installation shall conform to sound engineering practice. Rates quoted shall be inclusive of packing, forwarding, insurance, freight and delivery at site Watched ward of all materials.
3. All sundry fittings, assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connection as required and all other sundry items which are useful & necessary for proper assembly and efficient working of the various components of the works shall be deemed to have been included in the tender.
4. Following works shall be carried out by the contractor and therefore their cost shall be deemed to be included in their tendered cost.
 - a) The contractor shall be responsible for repairing all damages and restoring the same to their original finish. He shall also remove at his cost all unwanted and waste materials arising out of his work from his site.
 - b) All chases required in connection with the electrical works shall be provided and filled by the Contractor to the original finish.
 - c) Temporary shed if required over the storage space and locking arrangement, watch and ward of the materials shall be provided by firm till completion of the work and final taking over of the installation by the department.
5. The contractor shall employ qualified engineer / supervisor as required and intimate names of Such Persons to the Engineer-in-charge on commencement of work. Failure to employ will attract penalty as per agreement.
6. Termination of all connections on main board, sub main board & distribution boards will be done by Crimping method & nothing extra will be paid on this account.
7. Numbering and sign writing of the entire installation shall be carried out by the contractor as per Instructions of the Engineer-in-charge for which nothing extra shall be paid.
 - a) On completion of installation following tests shall be carried out.
 - b) Polarity test
 - c) Earth continuity test
8. On completion of installation a certificate shall be furnished by the contractor in prescribed Performa, this certificate shall be in addition to the certificate required by local electric Supply Company.

SPECIAL CONDITIONS

1.0 General

1.1 Except for the items, for which Particular Specifications are given or where it is specifically mentioned otherwise in the description of the items in the schedule of quantities, the work shall generally be carried out in accordance with the "CPWD Specifications 2019 Vol. I & II" with upto date correction slips and as per instructions of Engineer-in-Charge. Wherever CPWD Specifications are silent, the latest IS Codes / Specifications shall be followed and the rates should be all inclusive.

In the case of discrepancy between the Schedule of Quantities, the Specifications and/ or the Drawings, the following order of preference shall be observed:-

- a. Nomenclature of item as per Schedule of Quantities
- b. Special Conditions.
- c. Particular Specifications.
- d. Drawings and specification mentioned in the tender document.
- e. CPWD Specifications-2019 (Vol.-1 & 11) with upto date correction slips.
- f. Indian Standard Specifications
- g. Manufactures Specifications.
- h. Sound Engineering Practice as per the decision of Engineer-in-Charge.

1.2 Any reference made to any Indian Standard Specifications, shall imply to the latest version of that standard, including such revisions / amendments as issued by the Bureau of Indian Standards upto last date of receipt of tenders.

1.3 The work shall be executed and measured as per metric dimensions given in the Schedule of Quantities, drawings etc. (FPS units wherever indicated are for guidelines only).

1.4 The work should be planned in a systematic manner so that chase cuttings in the walls, ceilings and floors is minimized. Wherever absolutely essential, the chase shall be cut using chase cutting machines. Chases will not be allowed to be cut using hammer / chisel. The electrical boxes should be fixed in walls simultaneously while raising the brick work. The contractor shall ensure proper co-ordination of various disciplines viz. sanitary & water supply, horticulture & electrical etc.

1.5 All the hidden items such as conduits, etc. are to be properly tested before covering.

1.6 Samples including brand / quality of materials and fittings to be used in the work shall be got approved from the Engineer-in-Charge, well in advance of actual execution and shall be preserved till the completion of the work.

1.7 The contractor, his agents / representative, workman etc. shall strictly observe orders pertaining to fire precautions prevailing in the area.

1.8 Contractor(s) shall study the details of site, nature of work to be executed, site constraints etc and satisfy himself about complete characteristics and other parameters at site. However, no claim on the alleged inadequacy or incorrectness of the data supplied by the department shall be entertained.

- 1.9 Contractor shall take all precautionary measures to avoid any damage to adjoining property. All necessary arrangement shall be made at his own cost.
- 1.10 The contractor shall take instructions from the Engineer-in-Charge regarding collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on areas where other buildings, roads, compound wall, services etc are to be constructed.
- 1.11 The contractor shall provide at his own cost suitable measuring arrangements/instruments as may be necessary at site for checking. All such equipments shall be got calibrated in advance from laboratory, approved by the Engineer-in-Charge. Nothing extra shall be payable on this account.
- 1.12 All fittings and accessories should conform to byelaws and municipal body / corporation/Electricity board, where CPWD Specifications are not applicable. The contractor should get the materials (fixtures/fittings) tested by the Municipal Body / Corporation authorities/Electricity board authorities wherever required at his own cost.
- 1.13 Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services encountered in the course of the execution of work shall be protected against the damage by the contractor at his own expense. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services. In case temporary supporting/shifting of such services is required to facilitate the work, the same shall be done by the contractor at no extra cost.
- 1.14 In case the existing services are to be shifted permanently, then before dismantling the existing services, alternate/diversion of service lines has to be laid by the contractor so that there is no interruption in use of existing services. The contractor has to plan the alternate suitable route for diversion/shifting of service lines and get the same approved from the Engineer-in-Charge before starting shifting of services. Nothing extra shall be paid except the payment of dismantling and laying of new service lines as per conditions of contract.
- 1.15 With each Running Bill, the details of test carried out shall be submitted by the contractor as per prescribed proforma.
- 1.16 On completion of work, the contractor shall submit at his own cost four prints of "as built" drawings to the Engineer-in-Charge. These drawings shall have the following information.
- (a) Electrical wiring layout diagram with position of switches, fittings, cabling etc.
 - (b) Run off of all water supply lines with diameters, location of control valves, access panels etc. wherever applicable
- 1.17 In case the contractor fails to supply "as built drawing" aforesaid within 30 days of the date of completion, then the recovery @ Rs.10,000/- each for such set of drawings shall be made from the contractor's final bill.
- 2.0 Unless otherwise specified in the schedule of quantities or CPWD specifications, the rates for respective items shall be all inclusive and apply to the following: -
- a) All labour, material, tools and plants and other inputs involved in the execution of the item.

- b) Any of the conditions and specifications mentioned in the tender documents.
- f) Pumping / bailing out surface water / rain water / sub soil water, if necessary for any reason.
- g) Any legal or financial implications resulting out of disposal of waste, if any.
- h) Performance test of the entire installation(s) before the work is finally accepted.
- i) All incidental charges for cartage, storage and safe custody of materials brought to site.

3.0 SECRECY

3.1 The contractor shall take all steps necessary that all persons employed on any work in connection with the contract have notice that the Indian Official Secrets Act 1923 applies to them & will continue so to apply even after the execution of such works under the contract.

3.2 The contract is confidential and must be strictly confined to the contractor's own use (except so far as confidential disclosure to sub-contractors or suppliers as necessary) and to the purpose of the contract.

3.3 All documents, copies thereof & extracts there from furnished to the contractor shall be returned to the Engineer-in-Charge on the completion of the work / works or the earlier determination of the contract.

4.0 LABOUR AND SECURITY

4.1 Contractor should provide his plan for deployment of labour and get it approved from the Engineer-in-Charge.

4.2 Contractor has to follow the security requirement of the campus and obtain necessary entry passes for the labour and vehicles and follow security checks at entry / exit gates, restriction on movement of vehicle, restricted timings of working etc. The Department however shall assist the contractor in obtaining such passes for movement of vehicles and labour. No claim whatsoever shall be entertained on account of delay in entry of vehicles **and labour** including restrictions in working hours, if there is any.

4.3 The contractor shall employ only Indian Nationals after verifying their antecedents and loyalty. The contractor shall, on demand submit list of his agents, employees and work people concerned & shall satisfy as to the bonafides of such people.

4.4 The contractor & his work people shall observe all relevant rules regarding security promulgated in which work is to be carried out by the Controlling Administrative Authority of the campus/area

4.5 The contractor, his representative, workman shall be allowed to enter through specified gates & timing as laid down by the controlling authority. They shall be issued an identity card or an individual pass in accordance with the standing rules & regulations & they should possess the same while working. The contractor shall be responsible for the conduct & actions of his workman, agents / representatives.

5.0 TRANSPORTATION AND OFFICE INFRASTRUCTURE:

5.1 In order to complete the work within the scheduled time if the contractor shall be required to do the work in more than one shift and accepted by the department the contractor will provide vehicular facilities to the BSNL site staff to reach the site and their residence at his own cost for their services required beyond the normal office hours. In case the contractor fails to provide the

facilities Engineer-in-Charge shall be at liberty to make the arrangement themselves and deduct the respective cost from the contractor's bills.

6.0 PROGRAM CHART: -

6.1 The Contractor shall prepare an integrated program chart for the execution of work, showing clearly all activities from the start of work to completion, with details of manpower, equipment and machinery required for the fulfillment of the program within the stipulated period or earlier and submit the same for approval of the Engineer-in-Charge within **15 days** of the issue of letter of acceptance for the contract.

6.2 The work has to be completed in stages as indicated in the **Milestones (Wherever provided)** and the program should be prepared in such a manner to achieve these Milestones as indicated therein or earlier.

6.3 The program chart should include the following: -

- a) Descriptive note explaining sequence of various activities.
- b) Network (PERT / CPM / BAR CHART) which will indicate resources in financial terms, manpower and specialized equipment for every important stage.
- c) Program for procurement of materials by the contractor.
- d) Program of procurement of machinery / equipments having adequate capacity, commensurate with the quantum of work to be done within the stipulated period, by the contractor.

7.4 If at any time, it appears to the Engineer-in-Charge that the actual progress of work does not conform to the approved program referred above, the contractor shall produce a revised program showing the modifications to the approved program by additional inputs to ensure completion of the work within the stipulated time.

7.5 The submission of revised program or approval by the Engineer-in-Charge of such program or the furnishing of such particulars shall not relieve the contractor of any of his duties or responsibilities under the contract. This is without prejudice to the right of Engineer-in-Charge to take action against the contractor as per terms and conditions of the agreement.

Notwithstanding the fact that the contractor will have to pay to the labourers and other staff engaged directly or indirectly on the work according to the provisions of the labour regulations and the agreement entered upon and/or extra amounts for any other reason.

8.0 PROGRESS AND MONITORING OF WORK:

Contractor shall give the Engineer-in-Charge on the 10th day of each month, progress report of the work done during the previous month. Such progress report will include the project progress summary, work progress (planned v/s. actual), PERT chart, milestone status, financial progress status, manpower deployment status, important materials consumed, materials at site at the beginning of the month, materials consumed during the month and the balance quantities at the end of month and progress of the work stating the reasons for shortfall, if any including the steps and measures to be taken for making good the shortfall in the succeeding period. Non submission of aforesaid progress report shall make contractor liable for action under breach of contract conditions. In case of delay in submission of progress report, recovery will be done Rs. 5000/- per week from the Running Account bill, where the decision of EE(E) as to do recovery is final.

9.0 SAMPLE OF MATERIALS:-

9.1 All materials and fittings brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-Charge which shall be preserved till the completion of the work. If a particular brand of material is specified in the item of work in Schedule of Quantity, the same shall be used after getting the same approved from Engineer-in-Charge. Wherever brand / quality of material is not specified in the item of work, the contractor shall submit the samples as per **List of Preferred Makes** for approval of Engineer-in-Charge. For all other items, ISI Marked materials and fittings shall be used with the approval of Engineer-in-Charge. Wherever ISI Marked material / fittings are not available, the contractor shall submit samples of materials / fittings manufactured by firms of repute conforming to relevant Specifications or IS codes for the approval of Engineer-in-Charge.

9.2 To avoid delay, contractor should submit samples as stated above well in advance so as to give timely orders for procurement. If any material, even though approved by Engineer--in-Charge is found defective or not conforming to specifications shall be replaced / removed by the contractor at his own risk & cost.

9.3. **BIS** marked materials except otherwise specified shall also be subjected to quality test besides testing of other materials as per the specifications described for the item/material. Wherever BIS marked materials are brought to the site of work, the contractor shall, furnish manufacturer's test certificate or test certificate from approved testing laboratory to establish that the material procured by the contractor for incorporation in the work satisfies the provisions of specifications relevant to the material and / or the work done.

9.4 For certain items, if tests are neither mentioned in the CPWD Specifications & BIS, then tests shall be carried out as per decision of Engineer-in-Charge.

10.Coordination at site:

At the site of work, as more than one agency may be working, full cooperation shall be extended to other agencies during progress of work. Further, work shall be carried in such a way so that it may not cause abnormal noise and hindrance to the officers of the department engaged in erection as well as doing normal routine work.

11.Joint Inspection;

Since the work is to be executed for the third party, A joint inspection report will be made by the BSNL representative and representative of the firm & representative of client/user regarding the functioning of the system, defects and remedial action required in time schedule for the rectification/remedial action. Agency is bound to attend to the defects/discrepancies in timely manner, failing which Engineer in charge is fully empowered to set right the defects with reasonable notice.

MICRO INVENTORY

[To be downloaded, filled up, scanned & uploaded along with bid document]

Sl. No	Description of Items	Make of item offered by firm	Preferred Makes	Compliance as per NIT (Yes/No)
1	MCCB(Ics=Icu)		L&T/ Schneider Electric / Siemens	
2	SDF units		L&T/ Schneider Electric / Siemens/HPL/Havells	
3	Power Contactors		L&T/ Schneider Electric / Siemens/ Lakshmi(LECS)	
4	Change Over Switch		HPL / Havells / H-H Elcon	
5	Intelligent APFC Relay		L&T/EPCOS(Siemens)/ Schneider Electric / Neptune Ducati/ Syntron/ABB	
6	Bus Bar Trunking/ Sandwiched Bus Duct		Moeller/L&T/Schneider Electric/ABB/ Legrand /Zeta	
7	Power Capacitors (MPP/APP)		L&T/EPCOS(Siemens)/ABB/Crompton/Schneider Electric / Neptune Ducati	
8	Digital/ KWHr meter		Schneider Electric/ AE/ Digitron / IMP/Meco / Rishabh /Universal/HPL/L&T/ABB/Yokins	
9	Cold shrink HT/LT Cable Joint		Denson / 3M(M-Seal) / Raychem	
10	Rubber Matting		ISI mark	
11	MCB/ Isolator /ELCB/RCCB/ Distribution Board		Crompton / Havells / Indokopp / MDSLegrand / L&T / Schneider Electric/Siemens / Standard/ABB/HPL	
12	PVC Conduits		Vasivi/Anchor/Avonplast/Precision	
13	Cable Trays/Raceways		MEM/Bharti/Ratan/Slotco/Profab/OBO /Niedax	
14	HT/LT Cables		Havells/Polycab/Orbit/KEI/RR	
15	PVC insulated copper conductor wire		Havells/Polycab/Orbit/Finolex/RR/KEI	

Name of work: Providing EI & Fans, CCTV, Access control system and AFD system for the at V & VI floor of Administrative Bldg Kushkumar Road, Chennai. (SW: Providing EI & Fans)

16	Exhaust Fans		GE / Khaitan/Almonard/Crompton/Usha/Havells	
17	Starter		ABB / BCH / Schneider Electric / L&T / Siemens /	
18	Single Phase Preventer		L&T / Minilec / Siemens / Zero trip	
19	GI/MS Pipe		ATC / ATL / BST / GSI / ITC / ITS / IIA / JST / Jindal / TTA / Tata/Zenith	
20	LED light Fittings/luminaires		Havells/Crompton/Philips/Wipro/Bajaj	
21	Switches & Sockets		Legrand/Honeywell/schneider Electric(livia) Clipsal (Opal Series)/Greatwhite	

Name of work: Providing EI & Fans, CCTV, Access control system and AFD system for the at V & VI floor of Administrative Bldg Kushkumar Road, Chennai. (SW: Providing EI & Fans)

LIST OF APPROVED MAKES

SNo.	Item	Makes
1	Engine	Ashok Leyland /Cummins/ Cater pillar /KOEL/ Volvo Penta / Mahindra & Mahindra (up to 200 KVA) /Escorts (up to 30 KVA)/ Eicher (up to 35 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)	ABB / Schneider Electric /Andrew Yule / Bharat Bijlee / Crompton / EMCO /Kirloskar / Siemens
	a) Above 400 KVA b) Up to 400 KVA	In addition to above makes, Uttam/ Patson /Rajasthan Transformer and Switchgear
6	Air Circuit Breaker	L&T/ Schneider Electric / Siemens
7	MCCB(lcs=lcu)	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/Yokins
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/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 /

Name of work: Providing EI & Fans, CCTV, Access control system and AFD system for the at V & VI floor of Administrative Bldg Kushkumar Road, Chennai. (SW: Providing EI & Fans)

		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 Glasswool	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 /System Sensor
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
44	Lift	OTIS, Kone, Mitsubishi , Schindler, Johnson, Thyssenkrupp Elevator(India)

NOTE:

- 1. In case of External / PMC works, the list of approved makes may be modified as per client's requirement.**
- 2. The accessories such as CT/PT/measuring instrument/relays provided by approved make in respect of Transformer/HT Panel/DG /AC Package Units as supplied by approved manufacturer along with the equipments are also acceptable in addition.**
- 3. Any additional makes may be approved by concerned PCEs/Sr CEs/CEs(Elect) for the work under his jurisdiction as already accorded vide letter no. 3-2-5/EW/VEP-1/2007 dated 05-07-2007.**

Name of work: Providing EI & Fans, CCTV, Access control system and AFD system for the at V & VI floor of Administrative Bldg Kushkumar Road, Chennai. (SW: Providing EI & Fans)

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: EE(E), ED III, Chennai

Definitions:

2(v) Engineer-in-Charge : EE (E), ED III, Chennai

2(vi) Accepting Authority : **SE (E), BSNL Electrical Circle-II, Chennai.**

2(x) Percentage on cost of materials and labour to cover all overheads and profits : 15%(Fifteen)

CLAUSE 5

Time allowed for execution : Two months or 15 Days after completion of Civil work whichever is later

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.

Name of work: Providing EI & Fans, CCTV, Access control system and AFD system for the at V & VI floor of Administrative Bldg Kushkumar Road, Chennai. (SW: Providing EI & Fans)

BSNL EW-8

Bharat Sanchar Nigam Limited
Electrical Wing

Electrical Division: EE(E), ED III, Chennai

Sub Division: ESD II, Chennai

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 upto 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.

Contractor

Engineer in Charge

Name of work: Providing EI & Fans, CCTV, Access control system and AFD system for the at V & VI floor of Administrative Bldg Kushkumar Road, Chennai. (SW: Providing EI & Fans)

<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:

Contractor

Engineer in Charge