

Providing EI and Fans, Service connection Panel, Earthing and AFD System for New RSU at TE Ambattur OT - Chennai-53.



Bharat Sanchar Nigam Limited
(Electrical Wing)

O/o The Executive Engineer (E)
BSNL Electrical Division-I
No.22, Kellys Road,
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E-TENDER DOCUMENT

Name of work: *Providing EI and Fans, Service connection Panel, Earthing and AFD System for New RSU at TE Ambattur OT - Chennai-53.*

Division NIT No :- 56/EEE/ED-I/BSNL/CH/2024-25

This tender document contains **32 pages (Thirty Two)** pages only
Excluding front cover sheet & index sheet

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

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Providing EI and Fans, Service connection Panel, Earthing and AFD System for New RSU at TE Ambattur OT - Chennai-53.

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Executive Engineer (E)

Name of work: *Providing EI and Fans, Service connection Panel, Earthing and AFD System for New RSU at TE Ambattur OT - Chennai-53.*

BHARAT SANCHAR NIGAM LIMITED
(A Government of India Enterprise)
O/o The Executive Engineer (E)
BSNL Electrical Division-I

No.22, Kellys Road, Chennai - 600010.

E-mail: ee1chennai@gmail.com

1	Name of work	<i>Providing EI and Fans, Service connection Panel, Earthing and AFD System for New RSU at TE Ambattur OT - Chennai-53.</i>
2	Estimated cost put to tender (Rs.)	Rs. 4,45,710/- (Inclusive GST)
3	Earnest Money (Rs.)	Rs. 8914/-
4	Period of completion	One Month
5	Last date & time for online submission of tender	Up to 15:00 Hrs. on 07-01-2025
6	Last date & time for submission of original Tender cost and EMD	Up to 15:00 Hrs. on 07-01-2025
7	Date and time for opening of tender	15:30 Hrs. on 07-01-2025
8	Tender cost (Non refundable)	Rs.590/-
9	Tender Validity	150 Days

ELIGIBILITY CRITERIA

The bidders must satisfy 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.

**Bharat Sanchar Nigam Limited
Electrical Wing**

Electrical Division: ED I, Chennai Sub Division: ESD IV, Chennai

Division NIT No :- 56 / EEE / ED-I / BSNL / CH / 2024-25 dated 26/12/2024

NOTICE INVITING TENDER

Item rate tenders on **single bid system** are invited on behalf of CMD, BSNL for the work “**Providing EI and Fans, Service connection Panel, Earthing and AFD System for New RSU at TE Ambattur OT - Chennai-53.**” 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.4,45,710/- (Inclusive GST)/- (including 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 **One month.**
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.8914 /-** 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 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 **06-01-2025** up to **3:00 PM** and the bid submitted shall be opened on **07-01-2025 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: One month 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: One month 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 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.

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:

- 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.
- 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.
- 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.
- 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)

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

FORM 'D'

Near Relationship certificate

(Format of the Certificate to be given as per the clause 34.3 of section -4 A by the bidder in respect of status of employment of his /her near relation in BSNL)

I.....s/o.....r/o..... here by certify that none of my relative(s) as defined in the tender document is/are employed in any **BSNL unit as defined in the clause in the tender enquiry, on near relationship.**

OR

Following are the details of near relatives working with the BSNL

Sl. No	Name of the near relative	Designation	Name of the unit (office & section of BSNL) where working

Strike off whichever is not applicable

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 tome.

**Signature of the Proprietor / Partners / Directors of the tender entity
With date and seal**

Note:

*Unit, shall be taken as following:

- (a) In case of any near relative of the bidder being non-executive employees, the "BSNL unit" is defined as "Business Area (BA)".
- (b) In case of any near relative of the bidder being executive (up to AGM/STS level), the "BSNL unit" is defined as "BSNL Circle".
- (c) In case of any near relative of the bidder being higher executive (DGM/JAG or higher), "BSNL unit" is defined as "BSNL as a whole".

Format for Self Certification under Preference to “MAKE IN INDIA” Policy

(Preferably to be printed in letter head)

In line with Government Public Procurement Order No.P-45021/2/2017-PP (BE-II) dated 04.06.2020 and its amendments, we hereby certify that we M/s
.....are local supplier meeting the requirement of minimum local content i.e.,.....% as defined in above orders for the material against NIT No.....dated.....

Details of location at which local value addition will be made is as follows:
.....
.

We also understand, false declarations will be in breach of the code of integrity under rule175(1)(i)(h)of the General Financial Rules for which a bidder or its successors can be debarred for upto two years as per Rule 151(iii)of the General Financial Rules along with such other actions as may be permissible under law.

Thanking You

Signature with date:

Name:

Designation:

Official Seal

Dated:_____2024.

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**

1. 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)

SPECIAL CONDITIONS OF THE TENDER

Please note that the offers, which do not comply with the following, will not be considered and will be totally rejected. These instructions supersede the BSNL/EW6 and EW 8 clauses, or any other clauses/conditions appearing elsewhere in the tender, in case of any Disparity.

- 1) Tenders with any condition including that of conditional rebates shall be rejected forthwith summarily.
- 2) Insurance, loading, unloading, transportation etc should be included on works contract basis. The rates shall be firm and final.
- 3) The price shall be firm and fixed during the currency of the contract. No cost escalation is permitted. Clause 10CC is not applicable.
- 5) The Extension of time for completion of the works is governed by clause 2 of EW8.
- 6) No advance payments can be made. The payment is governed by then or mal department practice and stipulations like levy of interest if payment is not made in a specified time are not acceptable.
- 7) The firm should deposit EMD before submission of their offer. The EMD of other works returnable to them cannot be adjusted against this work. The firm's offer shall be liable for rejection without fresh EMD for this particular work.

2 (I) INCREASE /DECREASE OF TENDERED QUANTITY

- a) BSNL will have the right to increase or decrease upto 25% of the Contract value depending upon the requirement of goods and services specified in the schedule of items without any change in the unit price or other terms and conditions at the time of award of contract.
- b) In exceptional situation where the requirement is of an emergent nature and it is necessary to ensure continued supplies from the existing vendors, the purchaser reserves the right to place repeat orders upto 50% of the quantity of goods and services contained in the running tender/contract within a period of 12 months from date of award of work at the same rate or a rate negotiated (downwardly) with the existing vendors considering the reasonability of rates based on prevailing market conditions and the impact of reduction in duties and taxes etc.

3 CURTAILMENT OF QUANTITY:-

BSNL reserves the right to enforce curtailment in the assigned quantum of work for any contractor on the grounds of defaults/delay in regard to execution of the individual work assigned.

4 COMPLETION OF WORK:-

At the time of issuing NIT for a particular work, the time allowed for completion of work consistent with magnitude and urgency of work is specified. The time allowed for carrying out the work as entered in the contract is reckoned from the tenth day after the date on which the orders to commence the work are given to the Contractor. To ensure good progress of the work during the execution, the contractor is bound in all cases in which the time allowed for any work exceeds one month (except special jobs) to complete 1/8th of the whole of the work before 1/8th of the time allowed under the contract has elapsed, 3/8th of the work before half of the time has elapsed and 3/4th of the work before 3/4th of such time has elapsed. However, for special jobs, if a time schedule has been submitted by the Contractor and the same has been accepted by the Engineer-in-charge, the contractor shall comply with such time schedule.

5) TERMS OF PAYMENT:

Payment to the Contractors is regulated as below:

For Supply items (i.e. Part A)

- a) 90% of the price shall be paid on the receipt of goods at site by the consignee. For claiming this payment the following documents are to be submitted to the paying authority:
 - i) GST invoice or equivalent document
 - ii) Delivery Challan
 - iii) Consignee receipt
- b) The balance 10% payment shall be released after satisfactory commissioning of equipment or 6 months from the date of supply of the equipment, whichever is earlier.
- c) In cases where shortages/ damages are intimated to the supplier in writing, the balance payment shall be released only after the cases are settled in accordance with the provision of the P.O.
- d) 100% payment (in place of 90%) may be made on delivery, provided that an additional Bank Guarantee for an amount equivalent to 10% of the value of supplies valid for a minimum period of one year is furnished by the supplier along with an undertaking that the shortages/ damages as are intimated to the supplier in writing shall be made good.
- e) No payment will be made for goods rejected at the site on testing. Payment, if made, for such items shall be recovered from subsequent bills or other bills.

6) EPF PROVISIONS:-

The agency has to comply with the provisions of EPF and miscellaneous provisions Act-1952 and employees provident fund scheme-1952 as amended upto 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.

Agency has to observe all the labour rules & regulation in force. Agency shall be fully responsible for any violation observed at any time.

7) EARNEST MONEY DEPOSIT

The firm should deposit EMD in proper form. The EMD of other works refundable to them cannot be adjusted against this work. The firm's offer shall be liable for rejection without EMD for this particular work. Firm has option to deposit earnest money in the form of Bank guarantee in BSNL' s attached format and manner.

8) PROGRAMME FOR EXECUTION

The firm shall supply detailed programme to Engineer in charge for execution of contract within 15 days of award of work. The programme shall contain the details about submission of drawing, supply of materials including RMG panel, Cables, earthing etc., the tentative dates for installation, testing, commissioning and inspection of electrical inspector/ TANGEDCO etc shall also be submitted.

9) STORES AND SAFETY

All the stores and materials required for the satisfactory completion of the work shall be arranged at work site by the contractor from his own source. Space for storing the same

materials may be provided on request from the contractor. However safe custody of the material stores at site will be responsibility of the contractor.

10) CO-ORDINATION AT SITE

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

11). COMPLETION DRAWINGS

The firm shall supply three sets of drawings/documents after completion of the work but before the proposed date of completion of work.

- Schematic diagram of control wiring.
- Operation and maintenance manual

12. GUARANTEE & DEFECT LIABILITY

- (a) The Guarantee shall be valid for a period of **twelve months** from the date of completion. The contractor shall guarantee that all equipment shall be free from any defect due to the defective materials and bad workmanship and that equipment shall work satisfactory and that the performance and the efficiencies of the equipment shall be not less than guaranteed values. Any parts found defective during the guarantee period shall be replaced without any charge whatsoever. The services of the contractor's personnel, if requisitioned during this period for such work, shall be made available free of any cost to the department.
- (b) The contractor shall depute his representative to the site within **24hrs** of notification of defects by the department.
- (c) A joint inspection report will be made by the departmental representative and representative of the firm regarding the nature of defects and remedial action required in time schedule for the rectification/remedial action.
- (d) In case the contractor fails to depute his representative within **24hrs** of notification of defect(s) or fails to cause remedial action within a reasonable time as decided in the joint inspection, the Department may proceed to do so at the contractors' risk and expenses without prejudice to any other rights.

13. CHANGES IN SPECIFICATIONS

The BSNL reserves the right to make changes in respect of specifications of work if in its opinion same is found necessary. However such alterations shall be made after mutual discussions and agreement between the BSNL and the contractor. Any price implications in this regard shall be mutually discussed and agreed up on in terms of clause 12 of EW 8 form. The BSNL as matter of principle will not permit modifications by the contractor in design /specifications of any document /material. However the same can be agreed upon by the BSNL under exceptional circumstances where

- a) The same is necessitated due to non-availability of material/components of certain specifications/make.
- b) Such alterations constitute an improvement in the opinion of BSNL. Prior approval is necessary before undertaking any alteration/modification in the specifications of the equipment.

or

14. Packing, Forwarding, Storage at site.

Before dispatch to the site, the equipment /components/materials shall be properly packed so as to afford protection against transit damages and damage against storage in open areas either at transporters premises or at work site. Special care shall be taken in respect of sensitive items. When storage in open areas is inevitable, proper water proof covering shall be provided to protect damages on account of rain water etc. However damaged items should be replaced as per the directions of the Engineer –in-charge.

15 Inspection Of Site & Contract Documents

For the purpose of inspection of site and relevant documents, the contractor is required to contact E.E.(Elect) concerned who shall give reasonable facilities for inspection of the same. The contractor shall inspect and examine the site and its surroundings and shall satisfy himself commencement of work as to the form and nature of the site, the quantities and nature of work, materials necessary for completion of the works, the means of access to the site, the accommodation he may require and in general shall himself obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect his work. No extra charges consequent on any misunderstanding or otherwise shall be allowed.

16) I.S. Standards:

The entire system shall conform to relevant BIS including safety standards as amended up to date. Where IS standards are not available the British standard(s) shall be followed. In case of conflict, the requirements of these specifications shall be given over-riding priority. The electrical and earthing work shall be carried out as per CPWD specifications for electrical works (internal) and electrical works (external) as amended up to date. A list of relevant standards, approved makes of equipment is furnished and forms part of the tender document.

17) SUFFICIENCY OF TENDER

The contractor shall be deemed to have satisfied himself before entering into the contract as the correctness and sufficiency of his offer for the work and of the rates and prices quoted in the schedule of works and items/quantities or in bills of quantities for the contract period. These rates and prices shall except as otherwise provided, cover all his obligations under the contract and all matters and things necessary for proper completion of works.

No additional conditions shall be stipulated by the tenderer.

18) Test Certificate

The firm shall submit following test certificates on supply of the material at site:

- Technical catalogues of HT panel
 - Manufacturer's Original test certificates for HT Panel, VCB, switches
 - Routine test certificates for individual items.
- Department may test each unit at factory without any extra payment.

19) Inspection & Testing of HT panel:

The HT panel shall be tested at factory before dispatch to site and the necessary test certificate shall be furnished along with the HT panel. However BSNL reserves the right to inspect the set at factory before dispatch.

20. Set off clause:

Only those payments due to Government against a particular contract agreement shall be deducted from the bills of the same work and not deductible from other works.

21. Important Note

“If the contractor fails to commence a work, the amount of the earnest money to be forfeited to the dept. will be @ 2% of the estimated cost of the work”.

22. Inspection at Contractor’s Premises

The Department’s authorized representative shall have full powers to inspect drawings of any portion of the work or examine the materials and workmanship of the plant at the contractor’s works or at any other place from where material of equipment is obtained. Acceptance of any materials or equipment shall in no way, relieve the contractor of his responsibility for meeting the requirement of the specifications but shall have to be replaced free of cost by the contractor in case the equipment of work is found defective or of inferior quality.

23 The Department / BSNL also reserve the right to enforce curtailment in the quantities of work, if the contractor defaults in regard to works contract execution.

Item Wise BoQ

Tender Inviting Authority: Executive Engineer (E), BSNL Electrical Division-I, Chennai

Name of work : Providing EI and Fans, Service connection Panel, Earthing and AFD System for New RSU at TE Ambattur OT - Chennai-53.

Contract No: NIT No. : 56 /EEE/EDI/CH/24-25

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-
-

Name of the Bidder/ Bidding Firm / Company :

PRICE SCHEDULE

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

Sl. No.	Item Description	Quantity	BASIC RATE In Figures To be entered by the Bidder	Amount Excl GST in Rs. P.	SGST in %	SGST Amt in Rs. P	CGST in %	CGST Amt in Rs. P	IGST in %	IGST Amt in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT With Taxes in Rs. P	TOTAL AMOUNT In Words	HSN / SAC code
1	2	4	7	8	9	10	11	12	23	24	15	16	17	
1.1	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 piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. (Group B)	15 pts		0	0	0	0	0		0				
2	Wiring for circuit/ sub main wiring with 1.5 sq. mm wire with the following size of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required													
2.01	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	50Mtrs		0	0	0	0	0		0				
3	Supplying and drawing the following size of FRLS PVC insulated copper conductor single core in the existing surface/recessed steel/PVC conduit as required													

Unpriced Schedule

Name of work: **Providing EI and Fans, Service connection Panel, Earthing and AFD System for New RSU at TE Ambattur OT - Chennai-53.**

3.01	1x 1.5 sq. mm	45Mtrs	0	0	0	0	0	0	0				
3.02	3 x 1.5 sq. mm	30Mtrs	0	0	0	0	0	0	0				
3.03	6 x 1.5 sq. mm	20Mtrs	0	0	0	0	0	0	0				
4	Supply and fixing following size of medium class PVC conduit along with accessories in surface /recess including cutting of wall and making good the same in case of recessed conduit as required. on surface of wall												
4.01	20 mm	35Mtrs	0	0	0	0	0	0	0				
4.02	25 mm	40Mtrs	0	0	0	0	0	0	0				
5	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit along with 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.												
5.1	2X4 Sqmm+ 1x4 Sqmm	25Mtrs	0	0	0	0	0	0	0				
6	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.												
6.1	4x4 Sqmm + 2x4 Sqmm	45Mtrs	0	0	0	0	0	0	0				
7	Supplying and fixing metal box of 180mm X 100mm X 60mm deep and fixing 6 pin 5/6 & 15/16 amps socket outlet and 15/16 amps piano type switch	5Nos	0	0	0	0	0	0	0				
8	S/f metal box made up of 16 SWG MS sheet of 350mm X 100mm X 60mm deep and P/f 4Nos, 3 pin 5/6 amps socket outlet and 4Nos, 5/6 amps piano type switch, connection, painting etc. as required.	4Nos	0	0	0	0	0	0	0				
9	S/F 20W LED Battern type fitting with 20 W LED tube on surface of wall i/c connections etc as reqd	12Nos	0	0	0	0	0	0	0				

Contractor

Engineer in Charge

Name of work: **Providing EI and Fans, Service connection Panel, Earthing and AFD System for New RSU at TE Ambattur OT - Chennai-53.**

10	SITC of 48" 5 star rating ceiling fan for existing fan hook arrangement i/c labour charges etc as reqd.	3Nos		0	0	0	0	0	0				
11	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's (but without MCB's and incomer) as required .												
11.1	8way (4 + 24), Double door			0	0	0	0	0	0				
12	Supplying and fixing following rating, 20/415 V, 10 kA, "C"curve, miniature circuit breaker suitable for inductive load of following poles in the following MCB DB complete with connections and commissioning etc. as required.												
12.1	Single pole (6-32 A)	14Nos		0	0	0	0	0	0				
12.2	Triple pole 63 A	2Nos		0	0	0	0	0	0				
12.3	S/f 4 Pole Isolator. 63 amps	2Nos		0	0	0	0	0	0				
13	S/F Cable end box(Loose wire Box) suitable for TPN DB	1No		0	0	0	0	0	0				
14	SITC of following types of fans operating on 230V, 1PH AC supply, alongwith hardware for fixing on wall etc. as reqd.												
14.1	16" Wall mounting fan Oscillating type	2Nos		0	0	0	0	0	0				
15	Supply & Fixing of 63A TPN SDFU in sheet Steel Enclosure with HRC fuses etc complete as required.(Make:L&T or SS make)	1No		0	0	0	0	0	0				
16	S/F 20A.240 Volt,SPN Industrial type socket outlet with 2 pole and earth metal 20 Amps C curve SP MCB	3Nos		0	0	0	0	0	0				
17	Dismantling and shifting of existing 1.5TR Split type AC unit including pumping down of gas ,removing indoor and out door units and stablizer etc.as reqd.(Proposed RSU)	3jobs		0	0	0	0	0	0				
18	ITC of AC units in New TE Ambattur OT	3jobs		0	0	0	0	0	0				

Contractor

Engineer in Charge

Name of work: **Providing EI and Fans, Service connection Panel, Earthing and AFD System for New RSU at TE Ambattur OT - Chennai-53.**

19	P/F Readymade stand for new AC units- 2 nos Old exge and 2 nos -new exge	3nos	0	0	0	0	0	0	0				
20	Providing and fixing of additional copper refrigerant pipes of sizes 1/2" , 1/4" for refrigerant line, 3x2.5 Copper conductor wire & foam insulation including interconnections, etc., as required.	10Mtrs	0	0	0	0	0	0	0				
21	Providing and fixing of 25 mm dia PVC pipe of 10 Kg/Sq cm pressure for disposal of condensate water along with accessories, fixing etc. as required. (ISI marked)	10Mtrs	0	0	0	0	0	0	0				
22	Supplying and laying 4X10sq mm copper conductor PVC insulated PVC sheathed /XLPE armoured cable on surface of wall i/c mpit etc as reqd	4Mtrs	0	0	0	0	0	0	0				
23	Supplying and making end terminals 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.												
23.1	4 X 10 sq. mm (28 mm)	2Sets	0	0	0	0	0	0	0				
24	Supplying and fixing of SMC sheet outdoor type service connection board with IP-65 protection of size not less than 520mm x 420mm x 190mm on existing MS angle iron/surface of wall (Make:- SINTEX or SS)	1job	0	0	0	0	0	0	0				
25	100A porcelain fuse cutout busbar type - 3Nos(havells or ss make)	3Nos	0	0	0	0	0	0	0				
26	63A Neutral Link - 1No	1No	0	0	0	0	0	0	0				
27	9mm Hylam sheet of suitable size for fixing of Energy Meter	0.5Sq m	0	0	0	0	0	0	0				
28	16sqmm PVC insulated copper conductor single core cable for interconnection between meter, fuse cutout & TPN switch	4Mtrs	0	0	0	0	0	0	0				
29	S/F 100A FP Changeover Switch in sheet steel enclosure i/c making inter connection connections etc. as reqd.(make: approved make)	1No	0	0	0	0	0	0	0				

Contractor

Engineer in Charge

Name of work: **Providing EI and Fans, Service connection Panel, Earthing and AFD System for New RSU at TE Ambattur OT - Chennai-53.**

30	Supplying and laying of 4x50 sqmm XLPE insulated aluminium conductor armoured cable of 1.1 KV grade on surface/recess etc. as reqd.	25Mtrs		0	0	0	0	0	0				
31	Supplying and laying of 4x50 sqmm XLPE insulated aluminium conductor armoured cable of 1.1 KV grade in the existing metal/HDPE pipe etc. as reqd.	15Mtrs		0	0	0	0	0	0				
32	Supplying and fixing of 40mm dia HDPE pipe on surface/recess etc. as reqd.	20Mtrs		0	0	0	0	0	0				
33	Supplying and fixing of 40mm dia HDPE pipe on concrete Road cutting etc for existing UG Cable . as reqd.	20Mtrs		0	0	0	0	0	0				
34	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	2Sets		0	0	0	0	0	0				
35	Earthing with G.I. Pipe 4.5 Mtr Long 40 mm Dia including accessories and Providing masonry enclosure with cover plate with locking arrangement and watering pipe etc.w/ Charcoal/coke and salt etc. required.	2Sets		0	0	0	0	0	0				
36	Providing and Laying earth connection from earth electrode with 6 SWG Wire in 15mm dia GI Pipe from earth electrode i/c connections with GI thimble excavation and re-filling etc.as reqd.	20Mtrs		0	0	0	0	0	0				
37	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	10Mtrs		0	0	0	0	0	0				
38	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	15Mtrs		0	0	0	0	0	0				
39	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	30Mtrs		0	0	0	0	0	0				
40	Supplying and fixing of 50mm,dia medium class	20Mtrs		0	0	0	0	0	0				

Contractor

Engineer in Charge

Name of work: **Providing EI and Fans, Service connection Panel, Earthing and AFD System for New RSU at TE Ambattur OT - Chennai-53.**

	PVC pipe on surface of wall etc. as reqd.																			
41	Providing and fixing of Earth Bus of 50mm x 5 mm Copper strip on surface for Connections Etc.as reqd.	1Set		0	0	0														
Total in Figures																				
Quoted Rate in Figures																		0.00	0.00	#NAME ?
Quoted Rate in Words																				#NAME?

Un priced Schedule

Contractor

Executive Engineer(E)

<u>IMPORTANT POINTS</u>	
<u>1</u>	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.
<u>2</u>	Tax Invoice /Bill of supply should be pre-printed with all the details as per the requirement under GST Act.
<u>3</u>	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.
<u>4</u>	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.
<u>5</u>	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.
<u>6</u>	Bidders must mandatorily quote for all GST components (CGST, SGST, IGST) as applicable.
<u>7</u>	Bidders must mandatorily mention correct HSN / SAC codes.

General Specification for the work

- 1) The work shall be done as per **current CPWD General specification for Electrical work Part –I Internal, Part –II External, Part –IV Sub Station, Part –VII DG Sets, HVAC works** as amended from the time-to-time and Indian Electricity rules amended upto date.

For Electrical Panels, CPWD General Specification for Electrical works Part –IV shall be applicable.

[Important CPWD specifications/publications are available in website <http://cpwd.gov.in/Publications.htm> for reference & also with authorised bookshops]

- 2) The work shall be supervised by qualified technical staff.
- 3) The engineer-in-charge or his duly authorized representative at site of work will give the lay out of work.
- 4) The following wiring shall be done in separate conduits.
- | | |
|---------------------------------------|---------------------------------|
| a) Power wiring | (b) Light and fan point wiring. |
| c) Emergency light point with (AC/DC) | (d) Telephone wiring. |
| e) Clock wiring | (f) AC unit wiring. |
- 5) Lighting circuit shall feed light/fan/ call bell points. Each circuit shall not have more than 800 Watt connected load or more than 10 points whichever is less. However, in case of CFL points where load per point may be less, number of points may be suitably increased.
- 6) Power circuit in non-residential building will have only one outlet per circuit.
- 7) The earthing sets shall be provided in presence of Engineer-in-charge.
- 8) Sample of all materials fittings, accessories, switchgears etc shall be got approved from the Engineer-in-charge before using the same on the work. The rejected materials shall be removed immediately from the site of work.
- 9) The contractor shall submit completion plan as per clause 6A (1)/6B of the agreement within 30 days of completion of work. Failing to submit the completion plan he will be liable to pay of sum equivalent to 2.5% of the value of work subject to ceiling of 2500/-
- 10) The contractor will have to conduct the following test at his cost at site and intimate the results before final bills are paid. Nothing extra will be paid to him on this account.
- | | | |
|--|------------------|--------------------|
| a) Earth test | b) Polarity test | c) Insulation test |
| b) Earth continuity test of surface & recessed conduit pipes | | |
- 11) Any damage done to the building by the contractor during the execution of Work shall have to be made good at his cost and risk. If he does not do it himself within a reasonable time (Determined by the Engineer-in-charge) The same will be got done at his cost departmentally after giving notice to him.

- 12) The outlet boxes for switches and end of conduits for different categories of conduits runs shall be painted with different colours so as to avoid mixing of wiring. Nothing extra shall be paid for this
- 13) At the time of laying conduit pipe in the slab in recess, the contractor Should keep fish wire of 16 SWG GI wire throughout conduit pipe and we have to take special care so that the conduit do not cross through AC conduits, grills etc.
- 14) The contractor should recess the conduits in the walls before they are plastered and in coordination with progress of building works. The conduit should be mechanically and electrically continuous.
- 15) All the Switchboard, SDB and DB shall be clearly sign written indicating the number /type of load/Circuit No etc.
- 16) Underground cables of both 1.1 KV and 11 KV should be subject to pressure/insulation tests before and after laying the same.
- 17) While making end connections of wire, no strand shall be cut and termination of wire shall be done with necessary lugs without any extra cost.
- 18) The termination of conduits etc in the junction box should be done by making proper holes instead of cutting the box.
- 19) The contractor will have to make arrangements to take the materials to site of work at his own risk and cost.
- 20) Cabling:
 - a) Overheating due to loose thimbling / undersize cables causes most of electrical failures, hence correct size of cable and thimbles should always be used, if cable is specified.
 - b) While terminating cables, avoid any tension on the bolts/ busbars. (if cable is specified) While terminating R, Y& B phase notations should be maintained in the alternator and control panel for easy maintenance.
 - c) It is recommended to support output cables on separate structure on ground so that weight of cables should not fall on alternator/ base rail.

LIST OF APPROVED MAKES – BSNL ELECTRICAL WING (AS ON 29.02.2016)

Sl No.	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) 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/ Patson /Rajasthan Transformer and Switchgear
6	Air Circuit Breaker	L&T/ Schneider Electric / Siemens
7	MCCB(Ics=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/Yokins
15	Cold shrink HT/LTCable 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

Name of work: **Providing EI and Fans, Service connection Panel, Earthing and AFD System for New RSU at TE Ambattur OT - Chennai-53.**

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 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)

***Excel Make VCB & HT switchgear approved in Chennai Telephones up to 20.01.2019 vide 24(7)/ CEE/ TNEZ /CH/ 2017/ 35 dated 21.01.2017**

NOTE:

1. 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 equipment are also acceptable in addition.
2. Any other makes which are approved by BSNL CO up to the last date of sale of tender can also be used in this contract.

LIST OF IS 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.

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-I
Chennai**

Definitions:

2(v) Engineer-in-Charge : **Executive Engineer (E), ED-I,
Chennai**

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

Sub Division: **IV, 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 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

Name of work: **Providing EI and Fans, Service connection Panel, Earthing and AFD System for New RSU at TE Ambattur OT - Chennai-53.**

not communicate information/derived therefrom 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 :